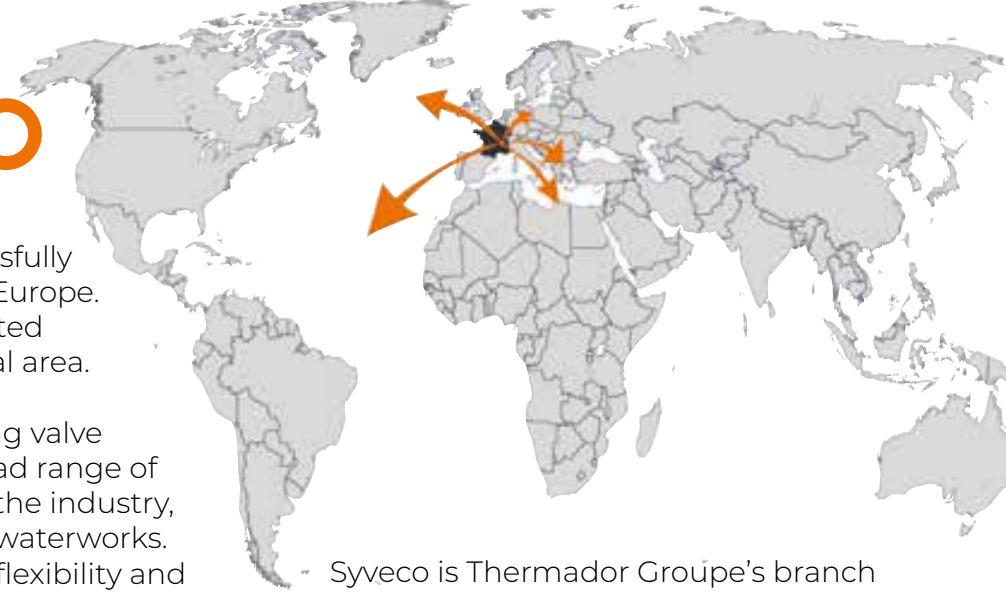
SYVECO

YOUR VALVE STOCKIST

STOCK
SERVICE
SIMPLICITY

FULL CATALOGUE MARCH 2023

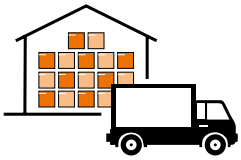
SYVECO



Since 2006, we have been successfully selling to wholesalers all around Europe. A few years later, in 2016, we started exploring a broader geographical area.

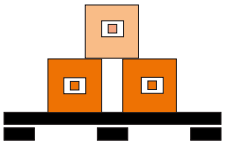
The heart of our business is giving valve wholesalers easy access to a broad range of manual and actuated valves for the industry, building equipment, HVAC and waterworks. This choice of products gives us flexibility and we can operate with great rapidity, assuring short delivery times.

Syveco is Thermador Groupe's branch dedicated to export.



22,600 orders delivered

19,700 parcels



19,200 pallets

SYVECONTACT

Request for quotation:
request@syveco.com

Orders & follow-up:
order@syveco.com

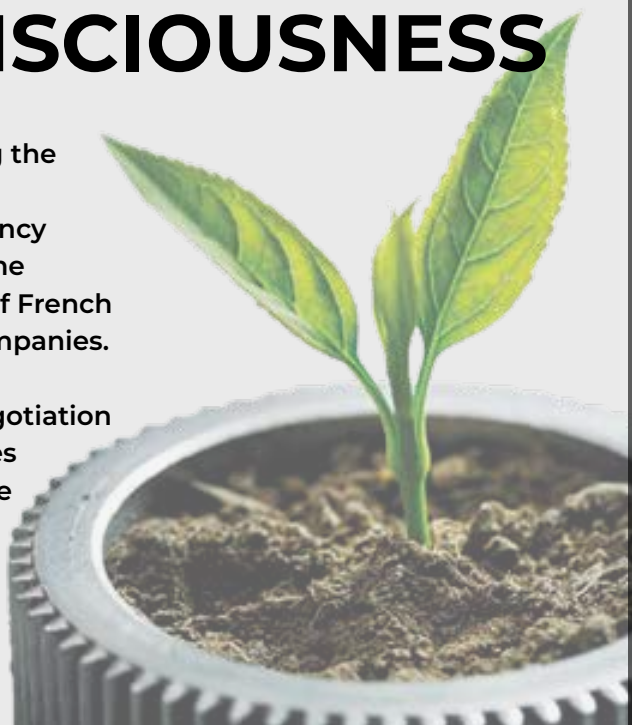
Quality & After-Sales Service:
quality@syveco.com

SYVECOLLEAGUES

SYVECONSCIOUSNESS

Thermador Groupe is among the leaders of the Gaïa Rating, an extra-financial rating agency specialized in determining the sustainability performance of French small and medium-sized companies.

Every year, we enter into negotiation with our transport companies in order to obtain responsible contracts with latest generation or electric vehicules which pollute less.



90%
of our waste was recycled or upcycled in the last few years

Fluids circulate in gaseous, liquid or solid form on **industrial sites, in private and public buildings**. We distribute manual and actuated valves, check valves, fittings and accessories for regulation and control which are suitable for new installations or maintenance work.

55 years in fluid management

The **HVAC** sector covers a large variety of collective structures such as residential and office buildings, commercial and services facilities, and also district heating and cooling networks. We offer a wide range of products for **heat transfer systems and ventilation systems** in order to control the indoor air quality and regulate temperature and humidity.

We offer all necessary accessories and materials enabling a good circulation of water in heating and sanitary installations for the **domestic building market.** Our wide selection of **pumps** covers surface pumps, booster sets, drainage and sewage pumps, and also swimming pools.

QUALITY

At Syveco, we put **customer satisfaction** and the **quality of our products** at the top of our priorities.

The quality of our products is the result of a high degree of synergy within Thermador Groupe. Sourcing protocols and testing equipment help us to ensure a constant product quality.

Our quality management system and our assembly workshop for actuated valves are ISO 9001 certified by Bureau Veritas Certification.

SYVECOACH

We publish tutorials on our YouTube channel to help users of our products with mounting and maintenance.

STOCK

stock value 171 million

121,000m² warehouse surface

73,000 references on stock

sales € 486 million

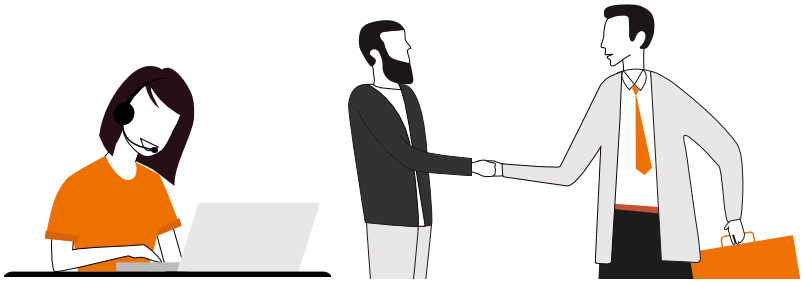
SERVICE

we understand your culture

Our **sales force** and **customer service** are on the front line and work tirelessly for high **customer satisfaction,** one of our top priorities.

we speak your language

There are many more benefits of working with us: we cover a broad geographical area and our sales force is on the road every two weeks to visit you. Our customer service is your support in our office for orders, offers and customer follow-up with the goal to provide the best service.



SIMPLICITY

let it flow

This is not only our slogan but also a nod to our business and a pledge of ease and simplicity in our customer relationship. It perfectly underlines how we function in our communication and our order process. Transparency and fluidity are a common thread.

DK HR D PL

20 languages spoken

45 Syvecolleagues, 712 in total at Thermador Groupe

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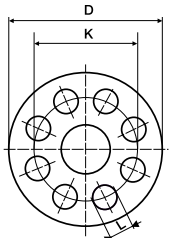

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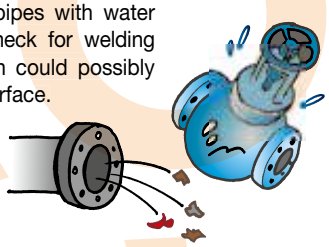
General installation instructions for valves and fittings

1. Storage

Before installation, please store the valves and fittings in a dry place to protect them from harsh weather conditions, wind and sand. Please leave the goods in their original packing and do not remove the flange or end protections.
Please handle the products with care. Do not drop or drag them on the floor.

2. Cleaning of pipes

Before installing the valves and fittings on the pipes, please clean the pipes with water or compressed air. Please check for welding spatters or metal chips which could possibly damage the valves' sealing surface.



3. Deviations of pipes

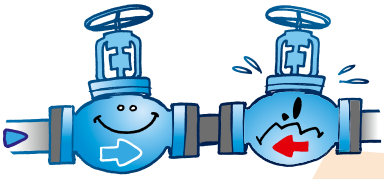
Before installing the valves and fittings, please check the pipe dimensions with the equipment already in place. Please also verify the correct alignment of the upstream and downstream pipes.
Do not count on the valves and fittings to make up for pipe deviations.
This might result in sealing leakages, blockings or mechanical ruptures.

4. Expansion joints

For pipes carrying heat transfer fluids, please anticipate the compensation of dilatations with the help of adapted equipment (loops and/or expansion joints).
Their absence may lead to mechanical ruptures and a blocking of the valves.

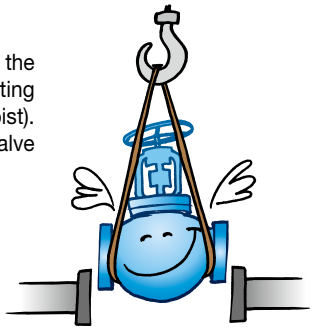
5. Mounting direction

A certain number of devices do not necessarily have a symmetrical functioning. It is essential to comply with the mounting direction indicated by the engraved or stamped arrow on the body and adapt it to the direction of the fluid flow.



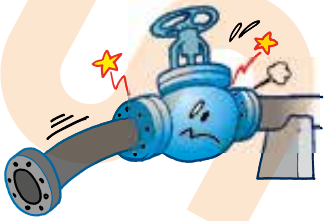
6. Slinging

When installing the valves on the pipes, please use adapted lifting devices (bridge crane, forklift, hoist).
It is necessary to align the valve correctly while installing it.



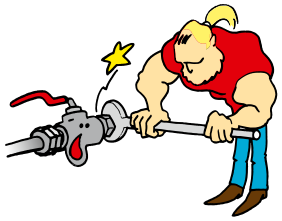
7. Support

For valves representing a significant weight in comparison with the pipes' solidity, it is essential to provide an additional support independently from the pipes.
Likewise, the valves cannot serve as support for pipes since they have to be supported themselves. The failure to respect these rules can lead to leakages, blockages and breakages.



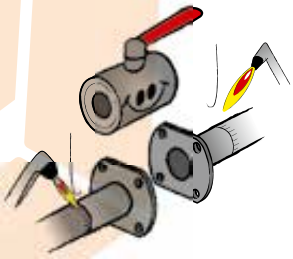
8. Tightening

For threaded and flanged valves and fittings, please use a suitable tightening torque. Insufficient tightening can result in leakages.
Overtightening can lead to blocking the valve or mechanical ruptures. The coupling torques are indicated on every product manual.



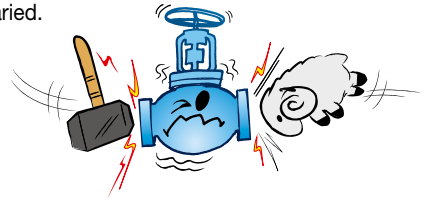
9. Welding of valves

When welding steel or stainless steel valves, make sure they are in the open position.
Extreme care must be taken with small valves to cause no damage to the critical valve components, which may be close to the weld area. Great caution must be taken when welding soft-seated ball valves.



10. Water hammers

A water hammer, by generating a sudden rise in pressure, can cause considerable damage:
slotted valve closure member, deformed stem etc. The causes of water hammers are varied.
The non-progressive start of a pump and the sudden closing of a valve are the most frequently found causes.



Selecting your valve - Aspects to take into consideration when determining a valve.

Service conditions

- Fluid used:
  - Phase: gas, liquid or powdered
  - Nature: water, air, petrol, solvent…
  - Classification acc. to Regulation n°1272 (hazardous, non-hazardous)
- Operating pressure: allowable maximum and minimum
- Operating temperature: allowable maximum and minimum

Type of valve and its functionality

- Type:
  - Ball valve
  - Butterfly valve
  - Globe valve
  - Needle valve
  - Gate valve
  - Knife gate valve
  - Check valve
  - Control valve
  - Safety valve
  - Pressure regulating valve
  - Strainers
  - etc.
- Function: sectioning, regulation, balancing, safety, passing, releasing...

Features

- Material of the body, the closing member, the seats and gaskets
- Nominal diameter and bore
- Type of connection:
  - Threaded: BSP/NPT/SMS
  - Welding: SW/BW
  - Flanged: various standards
  - Quick couplings (camlock, symmetrical, clamp...)
- Face-to-face dimension acc. to EN 558 or others
- Type of operation:
  - Manual valves: handle, handwheel, lever, gear box
  - Actuated valves: pneumatic, hydraulic, electric

Other factors

- Environmental conditions & installation location of the valves
- Standards: ISO, EN, ANSI, other specific national standards, fire safe, fugitive emissions…
- Required certification: CE-PED, ATEX, inspection documents acc. to EN 10204, hydraulic test
- Service lifetime, cycles and expected wear
- Maintenance procedures and spare parts availability

Usual standards for valves

	General standards	
EN 736-3	Valves - Terminology - Part 3: Definition of terms	May 2008
EN 12266-1	Industrial valves - Testing of metallic valves Pressure tests, test procedures and acceptance criteria. Mandatory requirements	May 2012
EN 12516	Industrial valves - Shell design strength - Parts 1 to 4	(acc. to parts)
EN 1267	Industrial valves - Test of flow resistance using water as test fluid	March 2012
EN 12627	Industrial valves - Butt welding ends for steel valves	November 2017
EN 12760	Industrial valves - Socket welding ends for steel valves	July 2016
EN 12982	Industrial valves - End-to-end and centre-to-end dimensions for butt welding end valves (including DIN 3202-4)	October 2009
EN 19	Industrial valves - Marking of metallic valves	May 2016
EN 558	Industrial valves - Face-to-face and centre-to-face dimensions of metal valves for use in flanged pipe systems (PN & Class)	February 2022
EN 16722	Industrial valves - End-to-end and centre-to-end dimensions for valves with threaded ends	December 2015
EN 1074	Valves for water supply - Fitness for purpose requirements and appropriate verification tests - Parts 1 to 6	(acc. to parts)
EN 1092	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Parts 1 to 4	(acc. to parts)
EN 1759	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, Class designated - Parts 1 to 4	(acc. to parts)
EN 61508	Functional safety of electrical/electronic/programmable electronic safety-related systems	January 2011
ISO 10497	Testing of valves - Fire type-testing requirements	February 2022
ISO 7-1	Pipe threads where pressure-tight joints are made on the threads - Part 1: Dimensions, tolerances and designation	January 1994
ISO 228-1	Pipe threads where pressure-tight joints are not made on the threads - Part 1: Dimensions, tolerances and designation	September 2000
ISO 15848	Industrial valves - Measurement, test and qualification procedures for fugitive emissions	June 2015
ISO 5208	Industrial valves - Pressure testing of metallic valves	June 2015
ISO 6708	Pipework components - Definition and selection of DN (nominal size)	July 1995
ISO 7268	Pipe components - Definition of nominal pressure.	May 1983

	Product standards	
EN 593	Industrial valves - Metallic butterfly valves for general purposes	December 2017
EN 1983	Industrial valves - Steel ball valves	October 2013
EN 1349	Industrial process control valves	December 2009
EN 1074	Valves for water supply - Fitness for purpose requirements and appropriate verification tests - Parts 1 to 6	(acc. to parts)
ISO 4126-1	Safety devices for protection against excessive pressure - Part 1: Safety valves	September 2013

	ANSI standards	
ANSI B1.20	Pipe Threads, General Purpose, Inch	November 2013
ANSI B16.1	Gray Iron Pipe Flanges And Flanged Fittings: Classes 25, 125, And 250	November 2020
ANSI B16.5	Pipe Flanges and Flanged Fittings: NPS 1/2 through NPS 24, Metric/Inch Standard	February 2021
ANSI B16.9	Factory-Made Wrought Buttwelding Fittings	October 2018
ANSI B16.10	Face-to-Face and End-to-End Dimensions of Valves	June 2017
ANSI B16.11	Forged Fittings, Socket-Welding and Threaded	June 2017
ANSI B16.20	Metallic Gaskets for Pipe Flanges	December 2017
ANSI B16.25	Buttwelding Ends	December 2017
ANSI B16.34	Valves-Flanged, Threaded, and Welding End	January 2021

(more standards on pages 15 & 17).

PED - Pressure Equipment Directive (2014/68/EU)

On May 15th, 2014, the new Pressure Equipment Directive (PED) has been adopted by the European Parliament and the Council of the European Union. Some essentials of the former PED remain unchanged such as the scope, the "Essential Safety Requirements" (Annex I), the "Conformity Assessment Tables" (Annex II), and the CE marking requirements.
However, concerning changes, the new PED defines the obligations and responsibilities of importers (Art.8) and distributors (Art. 9). It is also quite noticeable that the Art. 3, §3 of the 97/23/EC Directive, defining the exclusions of the PED's Technical Requirements, becomes the Art. 4, §3 under the 2014/68/EU Directive.

1 - Scope

The PED applies to the design, manufacture and conformity assessment of pressure equipment and assemblies with a maximum allowable pressure (PS) greater than 0,5 bar such as: vessels, pressurised storage containers, heat exchangers, steam generators, boilers, industrial pipes, safety devices, pressure accessories, valves and fittings.

Equipment excluded from the PED (CE marking prohibited) :
- Equipment with PS < 0,5 bar (Art. 1 §1)
- Valves and fittings < DN32 (Art. 4 §3)

DN: Nominal size
PS: Maximum allowable pressure
TS: Maximum/minimum allowable temperature

2 - Classification & fluid groups acc. to Regulation n°1272/2008 (2014/68/EU Directive, Art. 13, §1)

Fluids means gases, liquids and vapours in pure phase as well as mixtures thereof. Fluids may contain a suspension of solids.

Group 1 - Hazardous fluids		Group 2 - Non hazardous fluids	
explosive, extremely flammable, highly flammable, flammable (max. allowable temp. above flashpoint), pyrophoric, very toxic, toxic, oxidizing.		other fluids not referred to in Group 1	
Liquids example: fuel	**Gases** example: natural gas	**Liquids** example: water	**Gases** example: saturated steam

3 - Risk categories (Annex II)

Risk category IV only applies for safety devices.

3/1 - Dangerous gases (Group 1), example: natural gas (Annex II, table 6)

Class PN \ DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
2,5	A4, § 3				Category I											
6																
10																
16																
150																
25																
40																
300																
63					Category II							Category III				
100																
600																
1500																
2500																

3/2 - Other gases (Group 2), example: air (Annex II, table 7)

Class PN \ DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500
2,5	A4, § 3				A4, § 3													
6																		
10																		Category II
16																		
150																		
25																		
40																		
300																		
63					Category I					Category II					Category III			
100																		
600																		
1500																		
2500																		

3/3 - Dangerous liquids (Group 1), example: fuel (Annex II, table 8)

Class PN \ DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500
2,5	A4, § 3																	
6					A4, § 3													
10															Category I			
16																		
150																		
25																		
40																		
300																		
63									Category II									
100																		
600																		
1500																		
2500																		
> 500 bar									Category III									

3/4 - Other liquids (Group 2), example: water (Annex II, table 9)

Class PN \ DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500
2,5	A4, § 3													A4, § 3				
6																		
10																		
16																		
150																		
25																		
40																		
300														Category I				
63																		
100																		
600																		
1500																		
2500																		
> 500 bar														Category II				

4 - Conformity assessment procedures (Art. 4 + Annex III)

	Without Quality Assurance		With Quality Assurance	
	type	**unit**	**type**	**unit**
Category I	**Module A** Internal production control (self-certification)		-	
Category II	**Module A2** Internal manufacturing control & Random checks + monitoring of final assessment by NB		**Module D1** Production process QA by NB	**Module E1** Final product inspection QA by NB
Category III	**Module B (design type) + C2** EU design-examination + conformity to type by NB & Random checks	**Module B (design type) + F** EU design-examination + product verification by NB	**Module B (production type) + E** EU type-examination + product QA by NB	**Module H** Full QA = Quality system assessment & surveillance by NB
			Module B (design type) + D EU design-examination + production process QA by NB	
Category IV	**Module B (production type) + F** EU type-examination + product verification by NB	**Module G** EU unit verification by NB	**Module B (production type) + D** EU type-examination + production process QA by NB	**Module H1** Full QA + design-examination + special surveillance of final assessment by NB

QA: Quality assurance / NB: Notified bodies

5 - Notified bodies

List of notified bodies operating with our manufacturers under 2014/68/EU Directive:

0035	0036	0045	0056	0062	0408	0409	0496	0497	0948	1115
TÜV Rheinland Industrie Service	TÜV Süd Industrie Service	TÜV Nord Systems	ECA Grupo Bureau Veritas	Bureau Veritas	TÜV Austria Services	Inspecta Sweden	DNV GL Business Assurance Italia	CSI	TÜV Italia	Consorzio Pascal
Germany	Germany	Germany	Spain	France	Austria	Sweden	Italy	Italy	Italy	Italy

ATEX Directive (2014/34/EU)

Directive on equipment and protective systems intended for use in potentially explosive atmospheres (ATEX - ATmosphères EXplosibles).

There are 2 ATEX Directives: Directive 2014/34/EU concerns equipment (products) and Directive 1999/92/EC relates to the minimum requirements for improving the safety and health protection of workers potentially at risk from explosive atmospheres.

Potential explosive atmospheres exist when air is mixed, under atmospheric conditions, with flammable substances in the form of gases, vapours, mists or clouds of dust which can entirely spread combustion when exposed to a source of ignition.

The new 2014/34/EU Directive defines the obligations and responsibilities of importers (Art.8) and distributors (Art. 9). Moreover, the Directive establishes that every operator shall keep records of any supply of ATEX equipment for 10 years (Art. 11).

1 - About valves

The Directive (Art. 2, §1) and the "ATEX 2014/34/EU Guidelines" (§38) **determine that equipment and simple piping elements such as fittings, manual valves, non-return valves, strainers, pressure reducers, safety valves, steam traps... are out of the scope of the directive** because they do not have their "own potential source of ignition". Therefore, they do not need certification to be installed in hazardous areas.

Only actuated valves (whether electric or pneumatic) and sight glasses (because of the mechanical resistance of their glass part) are subject to the ATEX Directive.

However, regarding manual valves and other simple piping elements, a risk analysis should be carried out to ensure the compatibility of the valve with the explosive environment. This involves, for example, ensuring that the electrostatic risk due to the plastic elements of a valve is eliminated.

2 - Zone classification

The Directive concerns gassy mines and surface industries for the two risk atmospheres: presence of gas or presence of dust. It is up to the operator to define the zones in which an explosive atmosphere can occur using the following classification according to 1999/92/EC Directive:

Gases	Dusts	Definition of zone
0	20	areas where an explosive atmosphere is expected to exist continuously or for long periods of time or more than 1000h/year.
1	21	areas where an explosive atmosphere is expected to exist for short periods of time and less than 1000h/year.
2	22	areas where an explosive atmosphere is not expected and if released, it will only exist for a very short period of time and less than 10h/year.

3 - ATEX marking - Example & explanation

CE 0409 Ex II 2 G | Eex ia IIC T6 IP6X

"IP6X" Ingress Protection rating: apply for dust group (see p. 10)

"T6" Max. surface temperature class

Gas group:
- **T1** 450°C
- **T2** 300°C
- **T3** 200°C
- **T4** 135°C
- **T5** 100°C
- **T6** 85°C

Dust group: **"T300°C"** The max. surface temperature indicated on the material must be below the ignition temperature (dust layer <5mm). In case of dust cloud, it must not exceed 2/3 of ignition temperature.

"IIC" Explosion group (gas group):
- **I** Methane (Mining)
- **IIA** less easily ignited such as Propane
- **IIB** easily ignited such as Ethylene
- **IIC** most easily ignited such as Hydrogen & Acetylene

"ia" Type of protection:
- **d** Flameproof pressure-resistant encapsulation
- **e** Increased safety
- **i** Intrinsic safety: **"ia"** for zone 0 / **"ib"** sufficient for zone 1 / **"ic"** sufficient for zone 2
- **m** Encapsulated: **"ma"** for zone 0 / **"mb"** sufficient for zone 1 / **"mc"** sufficient for zone 2
- **o** Oil immersion
- **q** Powder filling
- **p** Pressurised enclosure
- **n** Protection mode: **"nA"** Non-sparking / **"nC"** Enclosure break / **"nR"** Restricted / **"nL"** Limited energy

"Eex" Explosion protection

"G" Environment:
- **G** Gas group
- **D** Dust group

"2" Equipment Category:
- **1** Category 1 - Equipment that is intended for use in zone 0 or 20
- **2** Category 2 - Equipment that is intended for use in zone 1 or 21
- **3** Category 3 - Equipment that is intended for use in zone 2 or 22
- **M1** Mining
- **M2** Mining

"II" Equipment Group:
- **I** Mining - Category M1 and M2.
- **II** All other places - Category 1, Category 2 & Category 3.

Ex Specific marking for explosion protection

0409 Notified body involved in the production control procedure

CE CE marking certifying the compliance with the Directive

Summary of inspection documents acc. to EN 10204:2004

EN 10204 Reference	Designation of the document type	Document content	Document validated by
Type 2.1	Declaration of compliance with the order	Statement of compliance with the order.	The manufacturer
Type 2.2	Test report	Statement of compliance with the order, with indication of results of non-specific inspection.	The manufacturer
Type 3.1	Inspection Certificate 3.1	Statement of compliance with the order, with indication of results of specific inspection.	The manufacturer's authorized inspection representative independent of the manufacturing department
Type 3.2	Inspection Certificate 3.2	Statement of compliance with the order, with indication of results of specific inspection.	The manufacturer's authorized inspection representative independent of the manufacturing department and either the purchaser's authorized inspection representative or the inspector designated by the official regulations.

Testing of metallic valves

Different standards may be referred to regarding metallic valve testing and leakage rating. Two main standards are most commonly used : **EN 12266-1** and **API 598**. Where any of those 2 standard is specified as a normative reference in a product, its performance shall be considered according to the requirements of that standard.

■ EN 12266-1

Industrial valves - Testing of metallic valves - Part 1: Pressure tests, test procedures and acceptance criteria - Mandatory requirements

The EN 12266-1 specifies the mandatory test requirements, test procedures and acceptance criteria for production testing of industrial valves made of metallic materials. Safety devices are not in the scope of the EN 12266-1. The prescribed tests may also be used as type tests, or acceptance tests.

The following requirements are considered : **Shell resistance, shell tightness, seat tightness** and **closure resistance**. The Annex A of the standard defines the test procedures and acceptance criteria.

1 - Test pressure & medium

- **Shell resistance** (P10), **shell tightness** (P11) and **closure resistance** (P20): test pressure = 1.5 x PS (max. allowable pressure at ambient temp.). Shell resistance & tightness must be tested with liquid unless otherwise agreed by the parties.
- **Seat tightness** (P12): the test pressure shall be at least 1.1 x PS (max. allowable pressure at ambient temp.). If the test medium is a gas, the test pressure shall be the lower between 1.1 x PS and 6 bar (±.1 bar).

2 - Duration of test (Tables A.2 & A.4 - Minimum duration of test)

Test ref.	P10 & P11 (+P20) Shell resistance & tightness (+Closure resistance [A])		P12 Seat tightness	
Closure	Partially open		Open to closed	
Testing pressure	1.5 x PS		1,1 x PS [B]	
	Production & reception testing	Type testing	Production & reception testing	Type testing
			Metallic seated & metallic soft-seated valves	All valves
Medium	Liquid or gas [C]	Liquid or gas [C]	Liquid or gas	Liquid or gas
Up to DN50	15 s	10 min	15 s	10 min
DN65 to DN150	60 s	10 min	60 s	10 min
DN200 to DN300	120 s	10 min	120 s	10 min
DN350 and above	300 s	10 min	120 s	10 min

(A) Check the pressure resistance of the closure if the valve is used as the sole means of isolation between the contents of a pressure equipment and the downstream part not designed to withstand the upstream pressure.
(B) If the test medium is a gas, the test pressure shall be the lower between 1.1 x PS and 6 bar (±1 bar).
(C) Shell resistance must be tested with liquid unless otherwise agreed by the parties.

3 - Acceptance criteria

- For the shell resistance, shell tightness and closure resistance tests:
  ➔ Whether the test is performed with a liquid or a gas, no visible leakage is allowed.
- For the seat tightness test, the selection of rates A to G is specified in the corresponding valve product standards.
  ➔ The leakage rates measured during the test period shall not exceed the rate specified in the following table (Table A.5 - Maximum allowable seat leakage for each leakage rate - in mm^3/s) :

Test medium	Rate A	Rate B	Rate C	Rate D	Rate E	Rate F	Rate G
Liquid	No visually detectable leakage during the test period	0,01 x DN	0,03 x DN	0,1 x DN	0,3 x DN	1 x DN	2 x DN
Gas		0,3 x DN	3 x DN	30 x DN	300 x DN	3000 x DN	6000 x DN

Note 1 - Leakage rates apply only for discharge at room temperature.
Note 2 - "No visually detectable leakage" means no visible seepage or formation of drops or bubbles.
If leakage rate measurements are made by automatic means, they must be qualified by the manufacturer's quality system.

■ API 598

Valve Inspection and Testing

1 - Scope

The API 598, from the American Petroleum Institute, provides industry standards for valve ratings and valve leakage allowance. The standard is currently in the 10th edition (2016). It covers inspection, examination, and pressure test requirements for resilient-seated, nonmetallic-seated, and metal-to-metal-seated valves of the gate, globe, plug, ball, check, and butterfly types.

API 598 specifies the following tests and examinations :

- **Shell resistance** tests to validate the pressure containing structures of the valve.
- **Backseat tests** to verify the leakage through the sealing of the stem.
- **Low-pressure & high pressure closure tests** to verify the leakage through the closure mechanism.

2 - Pressure tests (Tables 1 & 2 - Pressure tests according to valve type)

Test description		Valve type					
		Gate	Globe	Plug	Check	Foating ball	Butterfly (B)
shell		required	required	required	required	required	required
backseat (A)		required	required	n/a	n/a	n/a	n/a
low-pressure closure	up to Class1500 (≤DN100) & Class600 (>DN100)	required	optional	required	optional	required	required
	above to Class1500 (≤DN100) & Class600 (>DN100)	optional	optional	optional	optional	required	optional
high-pressure closure	up to Class1500 (≤DN100) & Class600 (>DN100)	optional	required	optional	required	optional	optional
	above to Class1500 (≤DN100) & Class600 (>DN100)	required	required	required	required	optional	required

(A) The backseat test is required for all valves, except for bellows seal valves, that have the backseat feature. / (B) Also applies to trunnion mounted ball valves.

The test medium shall be air, inert gas, kerosene, water (or a noncorrosive liquid with a viscosity no higher than that of water) at temperature between 5°C and 50°C. The test pressures depend on the valve type, the pressure class and the DN of the valve according to tables 3 & 4.

3 - Duration of test (Tables A.2 & A.4 - Minimum duration of test)

Valve size		Minimum test duration (A)			
DN	NPS	Shell	Backseat (B)	Closure check valves (C)	Closure other valves
≤ 50	≤ 2"	15	15	60	15
65 to 150	2"1/2 to 6"	60	60	60	60
200 to 300	8" to 12"	120	60	120	120
≥ 350	≥ 14"	300	60	120	120

(A) In seconds. The test duration is the period of inspection after the valve is fully prepared and is under full pressure. / (B) For valves with backseat feature. / (C) API 594.

4 - Acceptance criteria

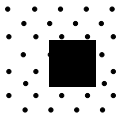
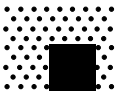
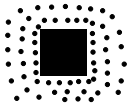
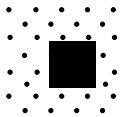
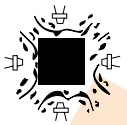
- For the **shell** and **backseat** tests:
  ➔ Whether the test is performed with a liquid or a gas, no visual detectable leakage is permitted.
- For the **low-pressure closure** test, the table 6 defines the maximum allowable leakage rates for closure tests.

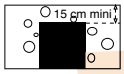
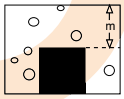
Valve size (A)		All resilient seated valves	Metal seated valves		Metal seated check valves		
DN (mm)	NPS (in.)		Liquid test (B) (drops/min)	Gas test (bubbles/min)	Liquid test (cc/min)	Gas test (m^3/h)	Gas test (ft^3/h)
≤ 50	≤ 2"	0	0 (C)	0 (C)	6	0,08	3
65	2"1/2	0	5	10	7,5	0,11	3,75
80	3"	0	6	12	9	0,13	4,5
100	4"	0	8	16	12	0,17	6
125	5"	0	10	20	15	0,21	7,5
150	6"	0	12	24	18	0,25	9
200	8"	0	16	32	24	0,34	12
250	10"	0	20	40	30	0,42	15
300	12"	0	24	48	36	0,5	18
350	14"	0	28	56	42	0,59	21
400	16"	0	32	64	48	0,67	24
450	18"	0	36	72	54	0,76	27
500	20"	0	40	80	60	0,84	30

(A) For valve size above DN500 (NPS20), please refer to the API 598 standard for rates values. / (B) For the liquid test, 1 mL is considered equivalent to 16 drops. / (C) There shall be no leakage for the minimum specified test duration (see Table 5). For liquid test, 0 drop means no visible leakage. For gas test, 0 bubbles means less than 1 bubble.

Ingress Protection rating (IP code)

Degree of protection provided by the product enclosure; marked on the product in the form of an "IP" code.

First digit: solid particle protection		Second digit: liquid ingress protection			
4	Element Ø ≥ 1 mm	0	Not protected	3	Protected against spraying water & rain up to 60° from vertical
5	 Dust protected	1	 Protected against vertical dripping water	4	 Protected against splashing water from all directions
6	 Dust tight	2	Protected against dripping water up to 15° from vertical	5	 Protected against water jets

6		Protected against heavy seas & high pressure water jets	
7		< 1 m	Protection against the effects of immersion inferior of 1 m
8		< 1 m	Protection against submersion superior of 1 m

Example: IP **54** would indicate a dust protected (first digit 5) piece of equipment which is protected against splashing water (second digit **4**).

SIL - Safety Integrity Level certification (IEC EN 61508)

The International Electrotechnical Commission defines the different SIL levels for electric and electronic devices as follows:

For low demand operation:

PFD (Probability of Failure on Demand) and RRF (Risk Reduction Factor)

SIL	PFD		RRF
1	0.1-0.01	10^{-1} - 10^{-2}	10-100
2	0.01-0.001	10^{-2} - 10^{-3}	100-1000
3	0.001-0.0001	10^{-3} - 10^{-4}	1000-10,000
4	0.0001-0.00001	10^{-4} - 10^{-5}	10,000-100,000

For continuous operation:

PFH (Probability of Failure per Hour) and RRF (Risk Reduction Factor)

SIL	PFH		RRF
1	0.00001-0.000001	10^{-5} - 10^{-6}	100,000-1,000,000
2	0.000001-0.0000001	10^{-6} - 10^{-7}	1,000,000-10,000,000
3	0.0000001-0.00000001	10^{-7} - 10^{-8}	10,000,000-100,000,000
4	0.00000001-0.000000001	10^{-8} - 10^{-9}	100,000,000-1,000,000,000

Pressure ratings

Standard	Temp.	Pressure									
Max. allowable pressure		20 bar	50 bar	63 bar	69 bar	100 bar	138 bar	150 bar	207 bar	250 bar	420 bar
ISO	20°C	PN20	PN50	PN63	-	PN100	-	PN150	-	PN250	PN420
ANSI B 16.34	454°C	150 lbs (300°C)	300 lbs	-	400 lbs	600 lbs	-	900 lbs	-	1500 lbs	2500 lbs
API 602 (forged)	454°C	-	-	-	-	-	800 lbs	-	-	1500 lbs	-
API 6A / CWP (Cold Water Pressure)	16°C	-	-	-	API 1000	API 1500	API 2000	-	API 3000	-	API 6000
WOG (Water Oil Gas)	16°C	-	-	-	1000 psi	1500 psi	2000 psi	-	3000 psi	-	6000 psi

Steam table

Relative pressure / Temperature correlation table for saturated steam (rounded to 1 decimal).

bar	°C	bar	°C	bar	°C	bar	°C	bar	°C	bar	°C	bar	°C	bar	°C
0,5	111,6	6	165,0	11,5	189,9	19	212,4	30	235,7	45	258,8	100	311,7	155	345,3
1	120,4	6,5	167,8	12	191,6	20	214,9	31	237,5	50	265,2	105	315,3	160	347,9
1,5	127,6	7	170,5	12,5	193,4	21	217,3	32	239,2	55	271,1	110	318,8	165	350,4
2	133,7	7,5	173,0	13	195,1	22	219,6	33	240,9	60	276,7	115	322,1	170	352,8
2,5	139,0	8	175,4	13,5	196,7	23	221,9	34	242,6	65	281,9	120	325,3	175	355,1
3	143,7	8,5	177,7	14	198,3	24	224,0	35	244,2	70	286,8	125	328,4	180	357,5
3,5	148,0	9	179,9	14,5	199,9	25	226,1	36	245,8	75	291,5	130	331,5	185	359,7
4	151,9	9,5	182,0	15	201,4	26	228,1	37	247,4	80	295,9	135	334,4	190	361,9
4,5	155,6	10	184,1	16	204,4	27	230,1	38	248,9	85	300,1	140	337,2	195	364,1
5	158,9	10,5	186,1	17	207,2	28	232,0	39	250,4	90	304,2	145	340,0	200	366,2
5,5	162,1	11	188,0	18	209,8	29	233,9	40	251,8	95	308,0	150	342,7	210	370,2

Main chemical compatibility chart for pressure gauges

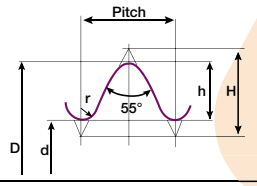
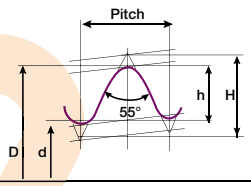
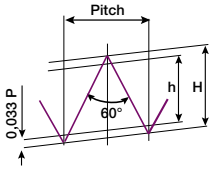
Concerns the wetted parts of our pressure gauges (pages 210 to 213).

Fluid	Wetted part	Fluid	Wetted part	Fluid	Wetted part
Acetic Acid	B	Ethyl Acetate	A	Nitrogen	A
Acetone	B	Ethyl Cellulose	B	Oxygen	A
Acetylene	B	Ethylene	A	Ozone	A
Air	A	Ethylene Dibromide	B	Paraffin	A
Alcohol	A	Ethylene Glycol	A	Phosphoric Acid	B
Alums	B	Ferric Nitrate	B	Pickling Solutions	B
Aluminium Sulfate	B	Ferric Sulfate	B	Picric Acid	B
Ammonia	B	Formaldehyde	B	Potassium Cyanide	B
Ammonium Carbonate	B	Freon	A	Potassium Permanganate	B
Beer	A	Fuel Oil	B	Prestone	A
Benzine	A	Gallic Acid	B	Refined Oil	B
Benzol	A	Gasoline	A	Salicylic Acid	A
Benzyl Alcohol	B	Gasoline (refined)	B	Silver Nitrate	B
Bleach Liquors	B	Glycerine	A	Sodium Nitrate	B
Brine	B	Helium	B	Sodium Peroxide	B
Butane	B	Hydrocyanic Acid	B	Sodium Phosphate	B
Butanol	A	Hydrogen	B	Sodium Sulfate	B
Butyric Acid	B	Hydrogen Peroxide	B	Sodium Sulfite	B
Calcium Bisulfite	B	Kerosene	A	Sulfur Dioxide (dry)	B
Calcium Hydroxide	B	Lacquers	A	Sulfuric (75%)	B
Carbon Dioxide (dry)	B	Lactic Acid	B	Sulfurous Acid	B
Carbon Bisulfide	B	Lysol	B	Toluene	A
Casein	B	Magnesium Sulfate	B	Vegetable Oils	B
Chloroform	B	Mercury	B	Vinegar	B
Chromic Acid	B	Methane	A	Water	A
Citric Acid	B	Mineral Oils	A	Water (corbonated)	B
Coal Gas	A	Naphtha	A	Water (demineralized)	A
Copper Sulfate	B	Natural Gas	A	Whisky	B
Cottonseed Oil	B	Nickel Acetate	B	Wines	B
Dextrine	A	Nitric Acid (pure)	B	Zinc Sulfate	B

A = Brass **B = F316 Stainless Steel**

IMPORTANT NOTICE: Data provided for informational purpose only. We recommend our customers to specify the materials they consider adapted to their actual service conditions.

Threaded connection standards

BSPP parallel thread ISO 228 & ISO 7 Rp for female thread	BSPT conical thread ISO 7 for male thread only	NPT conical thread ANSI B1.20 for both male & female thread
		
H = 0,9604 x pitch	H = 0,9604 x pitch	H = 0,866 x pitch
h = 0,6043 x pitch	h = 0,6043 x pitch	h = 0,800 x pitch
r = 0,1373 x pitch	r = 0,1373 x pitch	
	conicity: 6,25 %	conicity: 6,25 %

Ø		1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
BSP thread	threads per inch	19	19	14	14	11	11	11	11	11	11	11
	pitch (mm)	1.337	1.337	1.814	1.814	2.309	2.309	2.309	2.309	2.309	2.309	2.309
NPT thread	threads per inch	18	18	14	14	11.5	11.5	11.5	11.5	8	8	8
	pitch (mm)	1.411	1.411	1.814	1.814	2.209	2.209	2.209	2.209	3.175	3.175	3.175

Diameter equivalences table

DN	8	10	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
NPS	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"	5"	6"	8"	10"	12"	14"	16"
Metric	8/13	12/17	15/21	20/27	26/34	33/42	40/49	50/60	66/76	80/88	102/114	125/139	150/168	200/219	-	-	-	-
Plastic pipes	-	-	20	25	32	40	50	63	75	90	110	-	-	-	-	-	-	-

Flanges dimensions

EN 1092-1 - Steel flanges

Dimensions in mm	ISO PN10					ISO PN16					ISO PN25					ISO PN40				
DN	Union sizes			Screws		Union sizes			Screws		Union sizes			Screws		Union sizes			Screws	
	D	K	L	Number	Ø	D	K	L	Number	Ø	D	K	L	Number	Ø	D	K	L	Number	Ø
10	90	60	14	4	M 12	90	60	14	4	M 12	90	60	14	4	M 12	90	60	14	4	M 12
15	95	65	14	4	M 12	95	65	14	4	M 12	95	65	14	4	M 12	95	65	14	4	M 12
20	105	75	14	4	M 12	105	75	14	4	M 12	105	75	14	4	M 12	105	75	14	4	M 12
25	115	85	14	4	M 12	115	85	14	4	M 12	115	85	14	4	M 12	115	85	14	4	M 12
32	140	100	18	4	M 16	140	100	18	4	M 16	140	100	18	4	M 16	140	100	18	4	M 16
40	150	110	18	4	M 16	150	110	18	4	M 16	150	110	18	4	M 16	150	110	18	4	M 16
50	165	125	18	4	M 16	165	125	18	4	M 16	165	125	18	4	M 16	165	125	18	4	M 16
65	185	145	18	8*	M 16	185	145	18	8*	M 16	185	145	18	8	M 16	185	145	18	8	M 16
80	200	160	18	8	M 16	200	160	18	8	M 16	200	160	18	8	M 16	200	160	18	8	M 16
100	220	180	18	8	M 16	220	180	18	8	M 16	235	190	22	8	M 20	235	190	22	8	M 20
125	250	210	18	8	M 16	250	210	18	8	M 16	270	220	26	8	M 24	270	220	26	8	M 24
150	285	240	22	8	M 20	285	240	22	8	M 20	300	250	26	8	M 24	300	250	26	8	M 24
200	340	295	22	8	M 20	340	295	22	12	M 20	360	310	26	12	M 24	375	320	30	12	M 27
250	395	350	22	12	M 20	405	355	26	12	M 24	425	370	30	12	M 27	450	385	33	12	M 30
300	445	400	22	12	M 20	460	410	26	12	M 24	485	430	30	16	M 27	515	450	33	16	M 30
350	505	460	22	16	M 20	520	470	26	16	M 24	555	490	33	16	M 30	580	510	36	16	M 33
400	565	515	26	16	M 24	580	525	30	16	M 27	620	550	36	16	M 33	660	585	39	16	M 36

* Under specific agreement between parts; 4 hole flanges may be provided.

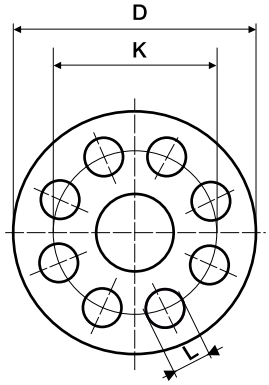
EN 1092-2 - Cast iron flanges

Dimensions in mm	ISO PN10					ISO PN16					ISO PN25					ISO PN40				
DN	Union sizes			Screws		Union sizes			Screws		Union sizes			Screws		Union sizes			Screws	
	D	K	L	Number	Ø	D	K	L	Number	Ø	D	K	L	Number	Ø	D	K	L	Number	Ø
10	90	60	14	4	M 12	90	60	14	4	M 12	90	60	14	4	M 12	90	60	14	4	M 12
15	95	65	14	4	M 12	95	65	14	4	M 12	95	65	14	4	M 12	95	65	14	4	M 12
20	105	75	14	4	M 12	105	75	14	4	M 12	105	75	14	4	M 12	105	75	14	4	M 12
25	115	85	14	4	M 12	115	85	14	4	M 12	115	85	14	4	M 12	115	85	14	4	M 12
32	140	100	19	4	M 16	140	100	19	4	M 16	140	100	19	4	M 16	140	100	19	4	M 16
40	150	110	19	4	M 16	150	110	19	4	M 16	150	110	19	4	M 16	150	110	19	4	M 16
50	165	125	19	4	M 16	165	125	19	4	M 16	165	125	19	4	M 16	165	125	19	4	M 16
65	185	145	19	4*	M 16	185	145	19	4*	M 16	185	145	19	8	M 16	185	145	19	8	M 16
80	200	160	19	8	M 16	200	160	19	8	M 16	200	160	19	8	M 16	200	160	19	8	M 16
100	220	180	19	8	M 16	220	180	19	8	M 16	235	190	23	8	M 20	235	190	23	8	M 20
125	250	210	19	8	M 16	250	210	19	8	M 16	270	220	28	8	M 24	270	220	28	8	M 24
150	285	240	23	8	M 20	285	240	23	8	M 20	300	250	28	8	M 24	300	250	28	8	M 24
200	340	295	23	8	M 20	340	295	23	12	M 20	360	310	28	12	M 24	375	320	31	12	M 27
250	395	350	23	12	M 20	405	355	28	12	M 24	425	370	31	12	M 27	450	385	34	12	M 30
300	445	400	23	12	M 20	460	410	28	12	M 24	485	430	31	16	M 27	515	450	34	16	M 30
350	505	460	23	16	M 20	520	470	28	16	M 24	555	490	34	16	M 30	580	510	37	16	M 33
400	565	515	28	16	M 24	580	525	31	16	M 27	620	550	37	16	M 33	660	585	41	16	M 36
450	615	565	28	20	M 24	640	585	31	20	M 27	670	600	37	20	M 33	685	610	41	20	M 36
500	670	620	28	20	M 24	715	650	34	20	M 30	730	660	37	20	M 33	755	670	43	20	M 39
600	780	725	31	20	M 27	840	770	37	20	M 33	845	770	41	20	M 36	890	795	49	20	M 45
700	895	840	31	24	M 27	910	840	37	24	M 33	960	875	44	24	M 39					
800	1015	950	34	24	M 30	1025	950	41	24	M 36	1085	990	50	24	M 45					
900	1115	1050	34	28	M 30	1125	1050	41	28	M 36	1185	1090	50	28	M 45					
1000	1230	1160	37	28	M 33	1255	1170	44	28	M 39	1320	1210	5	28	M 52					

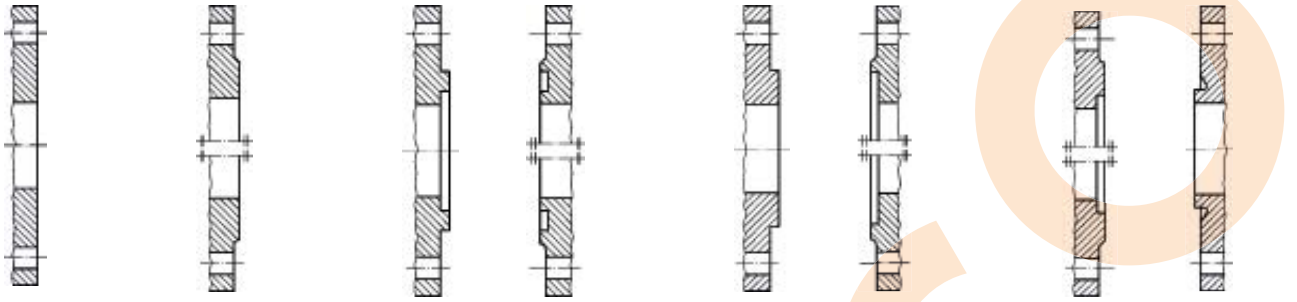
* Under specific agreement between parts; 8 hole flanges may be provided.

EN 1759-1 / ANSI B16.5 - Steel flanges

Dimensions in mm		ISO PN20 - ANSI 150						ISO PN50 - ANSI 300					
NPS	DN	Union sizes			Screws			Union sizes			Screws		
		D	K	L	Number	Ø		D	K	L	Number	Ø	
1/2"	15	88,9	60,5	15,8	4	1/2"	M 14	95,3	66,5	15,8	4	1/2"	M 14
3/4"	20	98,6	69,9	15,8	4	1/2"	M 14	117,4	88,6	19	4	5/8"	M 16
1"	25	108	79,4	15,8	4	1/2"	M 14	124	88,9	19	4	5/8"	M 16
1"1/4	32	117	88,9	15,8	4	1/2"	M 14	133	98,4	19	4	5/8"	M 16
1"1/2	40	127	98,4	15,8	4	1/2"	M 14	156	114,3	22,2	4	3/4"	M 20
2"	50	152	120,4	19	4	5/8"	M 16	165	127	22,2	8	3/4"	M 20
2"1/2	65	178	139,7	19	4	5/8"	M 16	190	149,2	22,2	8	3/4"	M 20
3"	80	190	152,4	19	4	5/8"	M 16	210	168,3	22,2	8	3/4"	M 20
4"	100	229	190,5	19	8	5/8"	M 16	254	200	22,2	8	3/4"	M 20
5"	125	254	215,9	22,2	8	3/4"	M 20	279	235	22,2	8	3/4"	M 20
6"	150	279	241,3	22,2	8	3/4"	M 20	318	269,9	22,2	12	3/4"	M 20
8"	200	343	298,4	22,2	8	3/4"	M 20	381	330,2	25,4	12	7/8"	M 24
10"	250	406	362	25,4	12	7/8"	M 24	444	387,4	28,5	16	1"	M 27
12"	300	483	431,8	25,4	12	7/8"	M 24	521	450,8	31,8	16	1"1/8	M 30
14"	350	533	476,2	28,5	12	1"	M 27	584	514,4	31,8	20	1"1/8	M 30
16"	400	597	539,8	28,5	16	1"	M 27	648	571,5	35	20	1"1/4	M 33
18"	450	635	577,8	31,8	16	1"1/8	M 30	711	628,6	34,9	24	1"1/4	M 33
20"	500	698	635,0	31,8	20	1"1/8	M 30	775	685,8	34,9	24	1"1/4	M 33
24"	600	813	749,3	34,9	20	1"1/4	M 33	914	812,8	41,3	24	1"1/2	M 39



Flange facing types according to EN 1092-1



Type A
Flat face

Type B
Raised face

Type C
Tongue

Type D
Groove

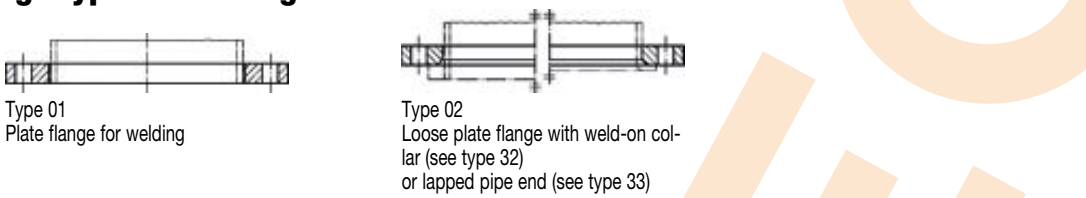
Type E
Spigot

Type F
Recess

Type G
O-ring spigot

Type H
O-ring groove

Flange types according to EN 1092-1



Type 01
Plate flange for welding

Type 02
Loose plate flange with weld-on collar (see type 32)
or lapped pipe end (see type 33)

Type 02
Loose plate flange with weld ring neck (see type 35)

Type 02
Loose plate flange with pressed collar with long neck (see type 36)

Type 02
Loose plate flange with pressed collar (see type 37)

Type 04
Loose plate flange with weld-neck collar (see type 34)

Type 05
Blind flange

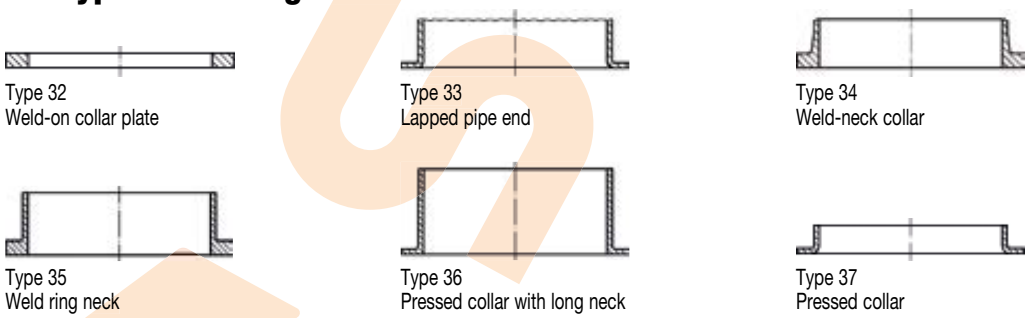
Type 11
Weld-neck flange

Type 12
Hubbed slip-on flange for weldeing

Type 13
Hubbed threaded flange

Type 21
Integral flange

Collars types according to EN 1092-1



Type 32
Weld-on collar plate

Type 33
Lapped pipe end

Type 34
Weld-neck collar

Type 35
Weld ring neck

Type 36
Pressed collar with long neck

Type 37
Pressed collar

Usual standards for valves – API standards (continued from page 7)

	API standards	
API 6FA	Standard for Fire Test of Valves	January 2020 (5th)
API 6D	Specification for Pipeline and Piping Valves	November 2021 (25th)
API 598	Valve Inspection and Testing	October 2016 (10th)
API 600	Steel Gate Valves-Flanged and Butt-welding Ends, Bolted Bonnets	May 2021 (14th)
API 602	Gate, Globe, and Check Valves for Sizes DN 100 (NPS 4) and Smaller for the Petroleum and Natural Gas Industries	May 2015 (10th)
API 607	Fire Test for Quarter-turn Valves and Valves Equipped with Nonmetallic Seats	June 2016 (7th)
API 608	Metal Ball Valves - Flanged, Threaded, and Welding Ends	January 2020 (6th)
API 609	Butterfly Valves: Double-flanged, Lug- and Wafer-type, and Butt-welding Ends	April 2021 (9th)
API 622	Type Testing of Process Valve Packing for Fugitive Emissions	July 2018 (3rd)
API 623	Steel Globe Valves - Flanged and Butt-welding Ends, Bolted Bonnets	January 2021 (2nd)

Face to face dimensions (EN 558)

Main basic series

(dimensions in mm)

DN	10	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
Series 1	130	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100	1200	1250	1450
Series 2	210	210	230	230	260	260	300	340	380	430	500	550	650	775	900	1025	1150	1275	1400	1600
Series 3	102	108	117	127	140	165	178	190	203	229	254	267	292	330	356	381	406	432	457	508
Series 4	-	140	152	165	178	190	216	241	283	305	381	403	419	457	502	762	838	914	991	1143
Series 5	-	165	190	216	229	241	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397
Series 7	108	108	117	127	146	159	190	216	254	305	356	406	521	635	749	-	-	-	-	-
Series 10	-	108	117	127	140	165	203	216	241	292	330	356	495	622	698	787	914	978	978	1295
Series 12	130	130	130	140	165	165	203	222	241	305	356	394	457	533	610	686	762	864	914	1067
Series 13	-	-	-	-	-	106	108	112	114	127	140	140	152	165	178	190	216	222	229	267
Series 14	115	115	120	125	130	140	150	170	180	190	200	210	230	250	270	290	310	330	350	267
Series 15	-	-	-	120	140	240	250	270	280	300	325	350	400	450	500	550	600	650	700	800
Series 16	-	-	-	-	-	33	43	46	64	64	70	76	89	114	114	127	140	152	152	178
Series 18	80	80	90	100	110	120	135	165	185	229	-	-	-	-	-	-	-	-	-	-
Series 19	-	140	152	165	178	190	216	241	283	305	381	403	419	457	502	572	610	660	711	787
Series 20	-	-	-	-	-	33	43	46	46	52	56	56	60	68	78	78	102	114	127	154
Series 21	-	152	178	216	229	241	267	292	318	356	400	444	533	622	711	838	864	978	1016	1346
Series 25	-	-	-	-	-	-	-	-	49	56	64	70	71	76	83	92	102	114	127	154
Series 26	-	-	-	-	-	240	250	290	310	350	400	450	550	650	750	850	950	1050	1150	1350
Series 27	115	115	120	125	130	140	150	170	180	190	325	350	400	450	500	550	762	-	914	-
Series 28	130	130	150	160	180	200	230	290	310	350	400	450	550	650	750	850	950	-	1150	-
Series 29	108	108	117,5	127	127	136	142	154	160	172	186	200	228	255	285	315	340	360	380	425
Series 33	-	-	-	-	-	152	178	216	254	305	381	457	584	711	813	889	991	1092	1194	1397
Series 47	-	-	75	80	90	100	110	130	150	160	200	210	-	-	-	-	-	-	-	-
Series 48	-	-	-	-	-	180	200	240	260	300	350	400	500	600	700	800	900	1000	1100	1300
Series 49	-	16	19	22	28	31.5	40	46	50	60	90	106	140	-	-	-	-	-	-	-
Series 52	25	31,5	35,5	40	45	56	63	71	80	110	125	160	200	250	280	-	-	-	-	-
Series 54	-	-	229	254	279	305	368	419	381	457	551	610	737	838	965	1029	1130	1219	1321	1549
Series 55	-	216	229	254	279	305	368	419	470	546	673	705	832	991	1130	1257	1384	1537	1664	1943
Series 56	-	264	273	308	349	384	451	508	578	673	794	914	1022	1270	1422	-	-	-	-	-
Series 69	-	-	-	140	165	178	216	254	305	356	432	508	660	787	914	991	1092	-	-	-
Series 70	-	-	-	140	165	178	216	254	305	406	483	559	711	864	991	1067	1194	1346	1473	-
Series 71	-	-	-	186	232	232	279	330	368	457	533	610	762	914	1041	1118	1245	1397		-
Series 77	-	318	318	318	-	381	400	441	660	737	-	864	1022	1372	1575	1803	-	-	-	-
Series 91	-	-	-	-	-	310	350	425	470	550	650	750	950	1150	1350	1550	1750	1950	2150	-
Series 92	230	230	260	260	300	300	350	400	450	520	600	700	800	900	1050	-	-	-	-	-
Series 99	-	-	-	-	-	270	300	360	390	450	525	600	750	900	1050	1200	1350	1500	1650	-
Series 105	-	292	292	292	-	333	375	410	441	511	-	714	914	991	1130	1257	1422	1727	-	-
Series 106	-	292	292	292	-	333	375	410	460	530	-	768	972	1067	1219	1257	1422	1727	-	-
Series 107	-	50	50	60	65	80	95	110	145	170	-	-	-	-	-	-	-	-	-	-
Series 108	-	-	-	-	-	-	-	-	48	54	-	57	64	71	81	92	102	114	127	154
Series 109	-	-	-	-	-	-	-	-	48	54	-	59	73	83	92	117	133	149	159	181
Series 110	-	-	-	-	-	-	-	-	54	64	-	78	102	117	140	155	178	200	216	232

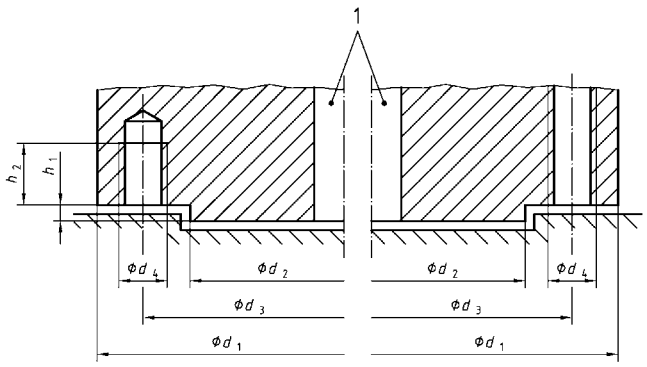
Origin of basic series

1	DIN 3202-1, series F1	**19**	ANSI B16.10, table 2, column 1	**55**	ANSI B16.10, table 6, column 5
2	DIN 3202-1, series F2	**20**	ANSI B16.10, table 9, column 3 & 4	**56**	ANSI B16.10, table 7, column 1 & 2
3	ANSI B16.10, table 1, column 8 & 9	**21**	ANSI B16.10, table 10, column 16 & 18	**69**	ANSI B16.10, table 5, column 2 & 6
4	ANSI B16.10, table 2, column 11	**25**	BS 2080, table 1, series 64	**70**	ANSI B16.10, table 6, column 2 & 6
5	ANSI B16.10, table 4, column 5	**26**	ANSI B16.10, table 9, column 4	**71**	ANSI B16.10, table 7, column 2 & 5
7	BS 2080, table 1, series 7	**27**	DIN 3357-2 ff	**77**	ANSI/ISA S75.16-1994 table 1
10	ANSI B16.10, table 1, column 16	**28**	DIN 3357-2 ff	**91**	DIN 3202-1, series F9
12	ANSI B16.10, table 1, column 3	**29**	NFE 29 - 377	**92**	DIN 3202-1, series F3
	BS 2080, table 1, series 12	**33**	ANSI B16.10, table 4, column 6	**99**	DIN 3202-1, series F8
13	BS 2080, table 1, series 13	**47**	DIN 3202-1, series F19	**105**	ANSI/ISA S75.16 table 1
14	DIN 3202-1, series F4	**48**	DIN 3202-1, series F6	**106**	ANSI/ISA S75.16 table 1
15	DIN 3202-1, series F5	**49**	DIN 3202-3, series F4	**108**	API 609, table 2 - Class 150
16	BS 2080, table 1, series 16	**52**	DIN 3202-3, series F5	**109**	API 609, table 2 - Class 300
18	BS 2080, table 1, series 18	**54**	ANSI B16.10, table 5, column 5	**110**	API 609, table 2 - Class 600

Usual standards for valves – Standards for actuation (continued from page 7)

	Actuation standards	
EN 15081	Industrial valves - Mounting kits for part-turn valve actuator attachment	December 2007
EN 15714-1	Industrial valves - Actuators - Part 1: Terminology and definitions	December 2009
EN 15714-2	Industrial valves - Actuators - Part 2: Electric actuators for industrial valves (**Replaced by ISO 22153**)	December 2009
EN 15714-3	Industrial valves - Actuators - Part 3: Pneumatic part - Turn actuators for industiral valves - Basic requirements	December 2009
EN 15714-4	Industrial valves - Actuators - Part 4: Hydraulic part-turn actuators for industrial valves - Basic requirements	December 2009
ISO 22153	Electric actuators for industrial valves - General requirements	January 2020
ISO 5211	Industrial valves - Part-turn actuator attachments	March 2017

Pad dimensions for actuation according to ISO 5211



Legend

1 Part-turn actuator

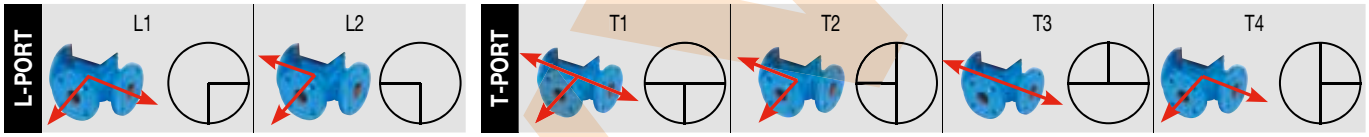
Dimensions in millimetres

Flange type	Dimensions d_1 min.	d_2 [a]	d_3	d_4	h_1 max.	h_2 min.	h_3 min.	Number of screws, studs or bolts n
F03	Ø46	Ø25	Ø36	M5	3	8	5	4
F04	Ø54	Ø30	Ø42	M5	3	8	5	4
F05	Ø65	Ø35	Ø50	M6	3	9	6	4
F07	Ø90	Ø55	Ø70	M8	3	12	8	4
F10	Ø125	Ø70	Ø102	M10	3	15	10	4
F12	Ø150	Ø85	Ø125	M12	3	18	12	4
F14	Ø175	Ø100	Ø140	M16	4	24	16	4
F16	Ø210	Ø130	Ø165	M20	5	30	20	4
F25	Ø300	Ø200	Ø254	M16	5	24	16	8
F30	Ø350	Ø230	Ø298	M20	5	30	20	8
F35	Ø415	Ø260	Ø356	M30	5	45	30	8
F40	Ø475	Ø300	Ø406	M36	8	54	36	8
F48	Ø560	Ø370	Ø483	M36	8	54	36	12
F60	Ø686	Ø470	Ø603	M36	8	54	36	20
F80	Ø900	Ø670	Ø813	M42	10	63	42	20
F100	Ø1 200	Ø870	Ø1 042	M42	10	63	42	32

[a] d_2 shall be manufactured within the diameter tolerance f8.

3 way actuated ball valves

Configuration and rotation of the ball



With spring return actuator

Mention the positionning code

		Standard configuration Actuator turns anti-clockwise		Configuration on request Actuator turns clockwise
L-PORT	LLO	L2 - L1	RLO	L1 - L2
T-PORT	LT1	T2 - T1	RT1	T1 - T2
	LT2	T3 - T2	RT2	T2 - T3
	LT3	T4 - T3	RT3	T3 - T4
	LT4	T1 - T4	RT4	T4 - T1

With double acting actuator

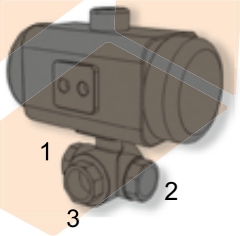
Mention 2 consecutive positions

		Configuration	
L-PORT	L1-L2	L2 - L1	L1 - L2
T-PORT	LT1	T2 - T1	T1 - T2
	LT2	T3 - T2	T2 - T3
	LT3	T4 - T3	T3 - T4
	LT4	T1 - T4	T4 - T1

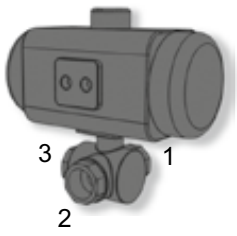
⚠ ***For spring return actuators, the first position is the fail safe position in case of air failure.***

Mounting position of the actuator

Standard position
Actuator in line



On request
Actuator perpendicular



Materials

■ Carbon steel

Forged carbon steel (EN 10222-2)

NF A 36-605	EN 10222	DIN 2528	WN°	ASTM	Min. temp.	Max. temp.
A48 AP	P 245 N	C22.8	1.0460	A 105 A 350 LF2	-20°C -46°C	+425°C +425°C

Cast steel (EN 10213-2)

NF	EN 10213-2	DIN	WN°	ASTM	Min. temp.	Max. temp.
A48 CM	GP 240 GH	GSC-25	1.0619 1.1156	A 216 WCB A 352 LCB	-29°C -45°C	+425°C +345°C

■ Stainless steel

Forged stainless steel (EN 10222-5)

NF A 36-607	EN/DIN	WN°	ASTM A182	Min. temp.	Max. temp.
AF Z6 CN18-09	X5 CrNi 18-10	1.4301	F304	-196°C	+815°C
AF Z2 CN18-10	X2 CrNi 19-11	1.4306	F304L	-196°C	+425°C
AF Z6 CND17-11	X5 CrNiMo 17-12-2	1.4401	F316	-196°C	+815°C
AF Z2 CND17-12	X2 CrNiMo 17-12-2	1.4404	F316L	-196°C	+455°C

Cast stainless steel (EN 10213-4)

NF A	EN/DIN	WN°	ASTM A351	Min. temp.	Max. temp.
Z6 CN 18.10 N	GX5 CrNi 19-10	1.4308	CF8	-196°C	+815°C
	GX2 CrNi 19-11	1.4309	CF3	-196°C	+425°C
Z6 CND18.12N	GX5 CrNiMo 19-11-2	1.4408	CF8M	-196°C	+815°C
	GX2 CrNiMo 19-11-2	1.4409	CF3M	-196°C	+455°C

■ Cast iron & ductile iron

Cast iron

NF A 32-101	EN 1561	DIN 1691	WN°	ASTM	Min. temp.	Max. temp.
FGL 200	EN-GJL 250	GG 25	0.6020	A 48 class 308	-10°C	+200°C
FGL 250	EN-GJL 200	GG 20	0.6023	A 48 class 358	-10°C	+200°C

Ductile iron

NF A 32-201	EN 1563	DIN 1693	WN°	ASTM	Min. temp.	Max. temp.
FGS 500-7	EN-GJS-500-7	GGG 50	0.7050	A 536 Gr 80-55-06	-15°C	+350°C
FGS 400-15	EN-GJS-400-15	GGG 40	0.7040	A 536 Gr 65-45-12	-15°C	+350°C
FGS 400-18	EN-GJS-400-18	GGG 40.3	0.7043	A 536 Gr 60-40-18	-20°C	+350°C

■ Brass (EN 12165)

	EN 12420	DIN	WN°	ASTM	Min. temp.	Max. temp.
	CW 617N	Cu Zn40Pb2	2.0402	B 124 C37700	-10°C	+200°C
	CW 614N	Cu Zn39Pb3	2.0372	B 124 C38500	-10°C	+200°C
	CW 615N	CuZn39Pb3Sn	-	-	-10°C	+200°C
	CW 510L	Cu Zn42	-	B 124 C28500	-10°C	+200°C

■ Bronze

	EN 1982	DIN	WN°	ASTM	Min. temp.	Max. temp.
	CC 491K	CuSn5Zn5Pb5-C	2.1096	B 62 C83600	-10°C	+260°C
	CB 491K	CuSn5Zn5Pb5-B	2.1097	B 30 C83600	-10°C	+260°C

Usual working conditions for elastomeres on our butterfly valves

Elastomere	Min. / Max. temperature		Use	Not recommended
	S-First range (see page 90)	TTV range (see page 98)		
EPDM	-15°C/+110°C	-20°C/+110°C	Cold and hot water, sea water, alkaline products, sodium hydroxide.	Hydrocarbons, steam, gases, acids, oil, freon.
NBR	-10°C/+80°C	-10°C/+90°C	Non aromatic hydrocarbons, natural gas, greases, oil, compressed air, glycol, water.	Atmospheric environment, petrol, solvents.
FKM	-	-5°C/+180°C	Acids, greases, hydrocarbons, petrol, fuel, oil, gases.	Steam and hot water (max. 130°C), freon, alkaline products.
Natural rubber	-	-10°C/+60°C	Spirit, acetone, food, abrasive powders.	Acids and hydrocarbons.
Silicone	-	-40°C/+150°C	High temperature, air or inert gases.	Steam and hot water (max. 100°C), solvents.
Food silicone	-	-40°C/+150°C	Food.	Other applications.

General information provided for informational purpose only. Please check on data sheets for appropriate restrictions.

TRIM number chart acc. to API 600 (gate valves), API 623 (globe valves) & API 602 (compact gate valves)

Nominal seating surface materials

Trim Number	Part (if differ)	Nominal Trim	Seat Surface Hardness (HB*)	Seat Surface Material Type	Typical Specifications Grade		Stem / Bushing	Stem Hardness (HB*)
					Cast	Forged		
1		F6	250 min.	13Cr	A217 CA15	A182 F6a	13Cr	200 min. - 275 max.
2		304	Mfr. Std	18Cr-8Ni	A351 CF8	A182 F304	18Cr-8Ni	
3		F310	Mfr. Std	25Cr-20Ni	n/a	A182 F310	25Cr-20Ni	
4		Hard F6	750 min.	Hard 13Cr	n/a		13Cr	200 min. - 275 max.
5		Hardfaced	350 min.	Co-Cr A**	n/a	n/a	13Cr	200 min. - 275 max.
5A		Hardfaced	350 min.	Ni-Cr	n/a	n/a	13Cr	200 min. - 275 max.
6	shutter	F6 &	250 min.	13Cr	A217 CA15	A182 F6a	13Cr	200 min. - 275 max.
	body seat	Cu-Ni	175 min.	Cu-Ni	n/a			
7	shutter	F6 &	250 min.	13Cr	A217 CA15	A182 F6a	13Cr	200 min. - 275 max.
	body seat	Hard F6	750 min.	Hard 13Cr	n/a			
8	shutter	F6 &	250 min.	13Cr	A217 CA15	A182 F6a	13Cr	200 min. - 275 max.
	body seat	Hardfaced	350 min.	Co-Cr A**	n/a	n/a		
8A	shutter	F6 &	250 min.	13Cr	A217 CA15	A182 F6a	13Cr	200 min. - 275 max.
	body seat	Hardfaced	350 min.	Ni-Cr	n/a	n/a		
9		Monel	Mfr. Std	Ni-Cu Alloy	n/a	Mfr. Std	Ni-Cu Alloy	
10		316	Mfr. Std	18Cr-8Ni-Mo	A351 CF8M	A182 F316	18Cr-8Ni-Mo	
11	shutter	Monel &	Mfr. Std	Ni-Cu Alloy	n/a	Mfr. Std	Ni-Cu Alloy	
	body seat	Hardfaced	350 min.	Co-Cr A**	n/a	n/a		
11A	shutter	Monel &	Mfr. Std	Ni-Cu Alloy	n/a	Mfr. Std	Ni-Cu Alloy	
	body seat	Hardfaced	350 min.	Ni-Cr	n/a	n/a		
12	shutter	316 &	Mfr. Std	18Cr-8Ni-Mo	A351 CF8M	A182 F316	18Cr-8Ni-Mo	
	body seat	Hardfaced	350 min.	Co-Cr A**	n/a	n/a		
12A	shutter	316 &	Mfr. Std	18Cr-8Ni-Mo	A351 CF8M	A182 F316	18Cr-8Ni-Mo	
	body seat	Hardfaced	350 min.	Ni-Cr	n/a	n/a		
13	shutter	Alloy 20	Mfr. Std	19Cr-29-Ni	A351 CN7M	B473	19Cr-29Ni	
14	shutter	Alloy 20 &	Mfr. Std	19Cr-29-Ni	A351 CN7M	B473	19Cr-29Ni	
	body seat	Hardfaced	350 min.	Co-Cr A**	n/a	n/a		
14A	shutter	Alloy 20 &	Mfr. Std	19Cr-29-Ni	A351 CN7M	B473	19Cr-29Ni	
	body seat	Hardfaced	350 min.	Ni-Cr	n/a	n/a		
15		304 Full Hardfaced	350 min.	Co-Cr A**	n/a	n/a	18Cr-8Ni	
16		316 Full Hardfaced	350 min.	Co-Cr A**	n/a	n/a	18Cr-8Ni-Mo	

* HB is the symbol for the Brinell hardness as per ASTM E10.
** Co-Cr A. This alloy classification includes such trademarked materials as Stellite 6™, Stoody 6™ and Wallex 6™.
Note: Cr = Chromium; Ni = Nickel; Co = Cobalt; Cu = Copper; Mo = Molybdenum; n/a = not applicable; Mfr. Std = manufacturer's standard.

Typical service

Trim Number	Typical service
1	For general very low erosive or non-corrosive service between -100°C and 320°C. Steam & gas up to 370°C. Oil & oil vapor up to 480°C.
2	For moderate pressure in corrosive, low erosive service between -265°C and 450°C.
3	For moderate pressure in corrosive or non corrosive service between -265°C and 450°C.
4	As Trim 1 but for medium pressure and more corrosive service.
5	For high pressure slightly erosive & corrosive service between -265°C and 650°C. Excellent for high pressure water & steam service.
5A	As Trim 5 where Co is not allowed.
6	As Trim 1 but for more corrosive service.
7	As Trim 1 but for higher pressure and more corrosive or erosive service.
8	Universal Trim for general service requiring long service life. As Trim 5 for moderate pressure & more corrosive service. Steam, gas & general service up to 540°C.
8A	As Trim 8 where Co is not allowed.
9	For corrosive service up to 450°C such as acids, alkalies, salt solutions, etc. For very corrosive fluids. For erosive & corrosive service between -240°C and 480°C. Resistant to sea water, acids, alkalies. Excellent corrosion resistance in chlorine & alkylation service.
10	For superior resistance to corrosion for fluids corrosive to F6. As Trim 2 but for more corrosive service. Excellent resistance to corrosive fluids at high temperatures. Excellent toughness for low temperature service. Usual Trim for F316 valves at low temperature service.
11	As Trim 9 but for medium pressure & more corrosive service.
11A	As Trim 11 where Co is not allowed.
12	As Trim 10 but for medium pressure & more corrosive service.
12A	As Trim 12 where Co is not allowed.
13	For very corrosive service at moderate pressure between -45°C and 320°C.
14	As Trim 13 but for medium pressure & more corrosive service.
14A	As Trim 14 where Co is not allowed.
15	As Trim 2 but for more erosive service & higher pressure.
16	As Trim 10 but for more erosive service & higher pressure.

IMPORTANT NOTICE: Data provided for informational purpose only. Please, always consult latest API specifications to check Trim data.
We recommend our customers to analyse the service requirements and specify the materials they consider adapted to their actual service conditions.

Chemical resistance guide

for selected plastics & elastomeres

Medium	Concentration	Formula	T°C	Solution	PVC-U	PP	PVDF	PTFE	EPDM	FPM
Hydrochloric acid	30	HCl	40	Aqueous	+	o	+	+	+	+
Hydrochloric acid	30	HCl	20	Aqueous	+	+	+	+	+	+
Hydrochloric acid	30	HCl	60	Aqueous	o	o	+	+	o	o
Hydrochloric acid	30	HCl	80	Aqueous		-	+	+		
Hydrochloric acid	30	HCl	100	Aqueous			+	+		
Hydrochloric acid	30	HCl	120	Aqueous						
Hydrofluoric acid	70	HF	20	Aqueous	o	o	+	+	-	o
Hydrofluoric acid	70	HF	40	Aqueous			+	+		
Hydrofluoric acid	70	HF	60	Aqueous			+	+		
Hydrofluoric acid	70	HF	80	Aqueous			+	+		
Hydrofluoric acid	70	HF	100	Aqueous			+	+		
Hydrofluoric acid	70	HF	120	Aqueous						
Ammonia	25	NH_4OH	20	Aqueous	+	+	-	+	+	+
Ammonia	25	NH_4OH	40	Aqueous	+	+		+	+	o
Ammonia	25	NH_4OH	60	Aqueous	o	+		+	+	
Ammonia	25	NH_4OH	80	Aqueous				+		
Ammonia	25	NH_4OH	100	Aqueous				+		
Ammonia	25	NH_4OH	120	Aqueous						
Sulphuric acid	96	H_2SO_4	20	Aqueous	+	-	+	+	-	+
Sulphuric acid	96	H_2SO_4	40	Aqueous	o		+	+		
Sulphuric acid	96	H_2SO_4	60	Aqueous			+	+		
Sulphuric acid	96	H_2SO_4	80	Aqueous			o	+		
Sulphuric acid	96	H_2SO_4	100	Aqueous			-	+		
Sulphuric acid	96	H_2SO_4	120	Aqueous						
Sulphuric acid	50	H_2SO_4	20	Aqueous	+	+	+	+	+	+
Sulphuric acid	50	H_2SO_4	40	Aqueous	+	+	+	+	+	+
Sulphuric acid	50	H_2SO_4	60	Aqueous	o	+	+	+	o	+
Sulphuric acid	50	H_2SO_4	80	Aqueuse			+	+		o
Sulphuric acid	50	H_2SO_4	100	Aqueous			+	+		
Sulphuric acid	50	H_2SO_4	120	Aqueous						
Ferric chloride	50	$FeCl_3$	20	Aqueous	+	+	+	+	+	+
Ferric chloride	50	$FeCl_3$	40	Aqueous	+	+	+	+	+	+
Ferric chloride	50	$FeCl_3$	60	Aqueous		+	+	+	+	+
Ferric chloride	50	$FeCl_3$	80	Aqueous		+	+	+	+	+
Ferric chloride	50	$FeCl_3$	100	Aqueous			+	+	o	+
Ferric chloride	50	$FeCl_3$	120	Aqueous						
Methyl alcohol	100	CH_4O	20	Pure	+	+	+	+	+	o
Methyl alcohol	100	CH_4O	40	Pure	+	+	+	+	+	o
Methyl alcohol	100	CH_4O	60	Pure	o	+	+	+	+	o
Methyl alcohol	100	CH_4O	80	Pure			+	+		
Methyl alcohol	100	CH_4O	100	Pure			+	+		
Methyl alcohol	100	CH_4O	120	Pure						
Sodium hydroxide	30	NaOH	20	Aqueous	+	+	-	+	+	o
Sodium hydroxide	30	NaOH	40	Aqueous	+	+		+	+	-
Sodium hydroxide	30	NaOH	60	Aqueous		+		+	+	
Sodium hydroxide	30	NaOH	80	Aqueous				+		

Medium	Concentration	Formula	T°C	Solution	PVC-U	PP	PVDF	PTFE	EPDM	FPM
Sodium hydroxide	30	NaOH	100	Aqueous				+		
Sodium hydroxide	30	NaOH	120	Aqueous				+		
Sodium hypochlorite	12,5% Cl	NaClO	20	Aqueous	+	o	o			
Sodium hypochlorite	12,5% Cl	NaClO	40	Aqueous	+	-	o	+	o	+
Sodium hypochlorite	12,5% Cl	NaClO	60	Aqueous	o		-	+		
Sodium hypochlorite	12,5% Cl	NaClO	80	Aqueous				+		
Sodium hypochlorite	12,5% Cl	NaClO	100	Aqueous				+		
Sodium hypochlorite	12,5% Cl	NaClO	120	Aqueous				+		
Hydrogen sulfide	100	H_2S	20	Gas	+	+	+			
Hydrogen sulfide	100	H_2S	40	Gas	+	+	+	+	+	-
Hydrogen sulfide	100	H_2S	60	Gas	+	+	+	+	o	
Hydrogen sulfide	100	H_2S	80	Gas			+	+	-	
Hydrogen sulfide	100	H_2S	100	Gas			+	+		
Hydrogen sulfide	100	H_2S	120	Gas				+		
Demineralised water	100	H^2O	20	Pure	+	+	+			
Demineralised water	100	H^2O	40	Pure	+	+	+	+	+	+
Demineralised water	100	H^2O	60	Pure	+	+	+	+	+	+
Demineralised water	100	H^2O	80	Pure		+	+	+	o	+
Demineralised water	100	H^2O	100	Pure			+	+	-	+
Demineralised water	100	H^2O	120	Pure			+	+		+
Calcium hydroxide	SAT	$Ca(OH)_2$	20	Aqueous	+	+	o	+		+
Calcium hydroxide	SAT	$Ca(OH)_2$	40	Aqueous	+	+	o	+	+	+
Calcium hydroxide	SAT	$Ca(OH)_2$	60	Aqueous	+	+	o	+	+	o
Calcium hydroxide	SAT	$Ca(OH)_2$	80	Aqueous		+	-	+	+	o
Calcium hydroxide	SAT	$Ca(OH)_2$	100	Aqueous				+	+	o
Calcium hydroxide	SAT	$Ca(OH)_2$	120	Aqueous				+		o
Nitric acid	70	HNO_3	20	Aqueous	o	-	+			
Nitric acid	70	HNO_3	40	Aqueous	o		+	+	-	+
Nitric acid	70	HNO_3	60	Aqueous	-		+	+		o
Nitric acid	70	HNO_3	80	Aqueous				+		-
Nitric acid	70	HNO_3	100	Aqueous				+		
Nitric acid	70	HNO_3	120	Aqueous				+		
Sodium chloride	SAT	NaCl	20	Aqueous	+	+	+			
Sodium chloride	SAT	NaCl	40	Aqueous	+	+	o	+	+	+
Sodium chloride	SAT	NaCl	60	Aqueous	+	+	o	+	+	+
Sodium chloride	SAT	NaCl	80	Aqueous		+		+	+	+
Sodium chloride	SAT	NaCl	100	Aqueous				+	+	
Sodium chloride	SAT	NaCl	120	Aqueous				+		
Citric acid	SAT	$C_6H_8O_7$	20	Aqueous	+	+	+			
Citric acid	SAT	$C_6H_8O_7$	40	Aqueous	+	+	+	+	+	+
Citric acid	SAT	$C_6H_8O_7$	60	Aqueous	o	+	+	+	+	+
Citric acid	SAT	$C_6H_8O_7$	80	Aqueous		+	+	+	+	+
Citric acid	SAT	$C_6H_8O_7$	100	Aqueous			+	+		
Citric acid	SAT	$C_6H_8O_7$	120	Aqueous			+	+		

+ = resistant
o = limited resistance
- = non-resistant
empty = not tested at the specified temperature

The above manual is not binding and does not imply Syveco's reponsibility.

Goods return policy

All products to be returned to Syveco require a **Goods Return Document** (GRD) validated by Syveco. Without this document, no goods shall be accepted in return. In order to obtain this document, please contact us so we can send you a specific **Return Authorisation Form** (RAF) or you can download it from our website at **www.syveco.com**.

- Please fill in the RAF and send it back to one of the following addresses:
- For new products, please contact: **info@syveco.com**
- For defective products, please contact: **quality@syveco.com**

Packaging: Any goods returned should be packed carefully in order to avoid any damage during transport.

Transport: Once you have the GRD, please ship the products together with the GRD to the following address:

SYVECO - 107 rue du Ruisseau - 38070 Saint-Quentin-Fallavier - France

Our goods return policy is in accordance with our General Conditions of Sale. Please refer to Chapter **5.5 Returns**.

Please find hereafter the different procedures that may apply depending on your situation:

New product return

• In case of an error by Syveco

Syveco will organise the return of the goods by its means and at its own expense.

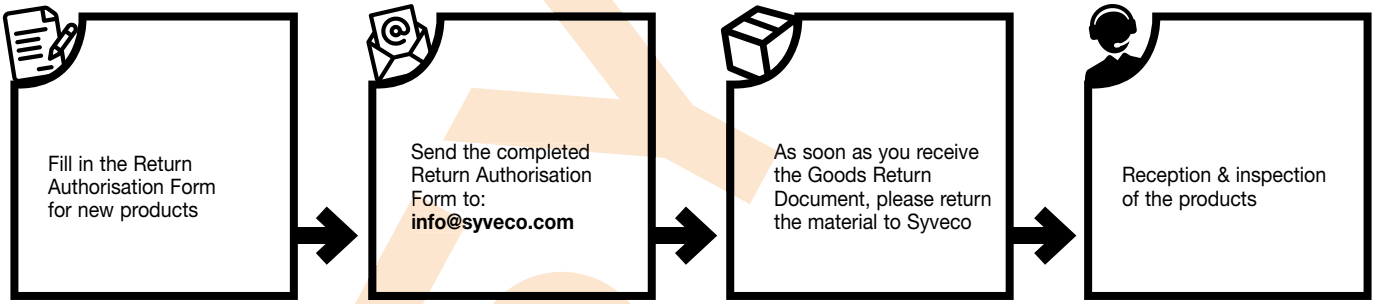
• In case of an error by the customer

Syveco will give its agreement for the return of the goods. In that case, a deduction of at least 30% is applied. **The customer** will organise the return of the goods by its means and at its own expense. The acceptance of the returned goods is subject to prior inspection & validation.

• In case of new material or packaging damaged during expedition

	If you refuse the goods	If you accept the goods
1) Mention ➔	Mention the refusal on the bill of delivery	Mention the appropriate reserves on the bill of delivery
2) Confirm ➔	Confirm your refusal to the transporter by registered letter with acknowledgment of receipt	Confirm your reserves to the transporter by registered letter with acknowledgment of receipt
3) Send ➔	Please send us a copy of the letter	
4) Contact ➔	Contact Syveco, we will take care of the replacement of the damaged goods or parts	

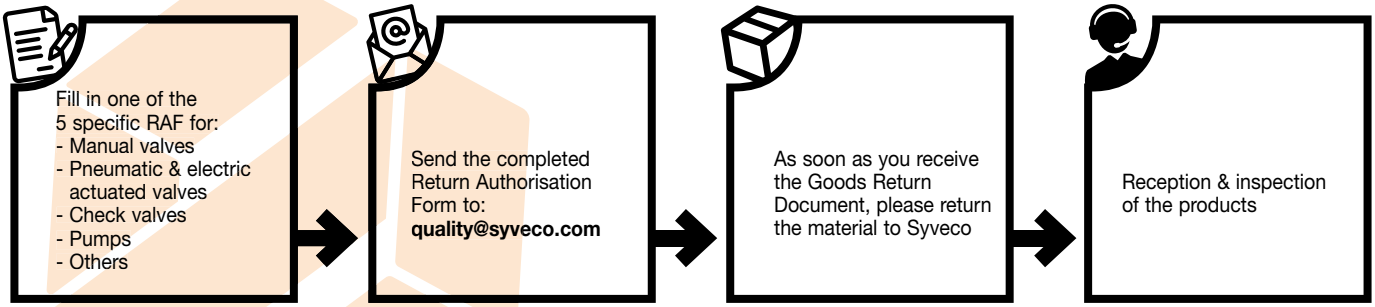
⟶ Procedure for new product return



Defective product return

For defective products, Syveco will proceed with the inspection of the returned goods and will contact you in return with a decision and/or recommandations.

⟶ Procedure for defective product return



Please be aware that in case of missing information, the handling of your claim may be delayed.

Lexicon

Main standardisation organisations

AFNOR	Association Française de Normalisation
ANSI	American National Standard Institute
API	American Petroleum Institute
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing Materials
DIN	Deutsches Institut für Normung
ISO	International Organisation for Standardisation
JIS	Japanese Industrial Standards
NACE	National Association of Corrosion Engineers
SMS	Swedish Metric Standard

Usual abbreviations

DN	Nominal size
NPS	Nominal pipe size
PS	Maximum allowable pressure
TS	Minimum/maximum allowable temperature
BSP	British Standard Pipe thread (BSPP: Parallel, acc. to ISO 228 / BSPT: Tapered, acc. to ISO 7)
NPT	National Pipe Tapered, acc. to ANSI B1.20
BW	Butt Weld, acc. to ASME B16.9
SW	Socket Weld, acc. to ASME B16.11
RF	Raised flange, acc. to ISO 1092-1 & ANSI B16.5
M	Male
F	Female
IP	Ingress Protection (see page 12)
ATEX	Explosive Atmosphere (see page 9)

Specific measurement units

V AC	Volts Alternating Current
V DC	Volts Direct Current
Nm	Newton metre
PSI	Pounds per Square Inch
ΔP	Differential pressure

Common material abbreviations

ABS	Acrylonitrile Butadiene Styrene
CR	Polychloroprene (such as Neoprene®)
CSM	Chlorosulphonated Polyethylene (such as Hypalon®)
ECO	Epichlorhydrin Rubber
EPDM	Ethylene Propylene Diene Monomer
FKM	Fluorinated Propylene Monomer (such as Viton®)
HDPE	High Density Polyethylene
NBR	Nitrile Butadiene Rubber
NR	Natural Rubber
PA	Polyamide
PE	Polyethylene
PEEK	Polyether Ether Ketone
PEX	Cross-linked Polyethylene
POM	Polyoxymethylene
PP	Polypropylene
PTFE	Polytetrafluoroethylene
PU	Polyurethane
PVC	Polyvinyl Chloride
PVDF	Polyvinylidene Fluoride
RTFE	Reinforced Polytetrafluoroethylene (with 15% glass fiber)
SBR	Styrene Butadiene Rubber
UHMWPE	Ultra-high-molecular-weight polyethylene

Main pictograms used in this publication

General standards connections

BSP threaded, see usual abbreviations above.

NPT threaded, see usual abbreviations above.

Socket weld, see usual abbreviations above.

Butt weld, see usual abbreviations above.

Food standards connections (see page 280)

SMS threaded.

SMS BW/male.

SMS BW/BW.

DIN threaded.

DIN BW/male.

DIN BW/BW.

Clamp.

General certifications

Products certified in conformity with the 2014/68/EU Directive. Apply only for valve above 1".
May refer to other EU Directives when apply.

Products certified in conformity with the 2014/68/EU Directive by a notified body (XXXX: ID of the NB).
Apply only for valve above 1".

Products certified in conformity with the API-6D Standard (XXXX: certificate number).

Product delivered by an API Spec Q1 registered company.

Product certified in conformity with the 2014/34/EU Directive (see page 9).

Fire safe certified products (different standards may apply).

Fugitive emission tests certification in conformity with the ISO 15848 or API 622.

Product certified in conformity with German TA Luft regulation (Technische Anleitung zur Reinhaltung der Luft).

Materials for use in H2S containing environments.

Specific certifications on products

3.1 Certification available on request. When ordered along with the order: flat rate of 10€ for the first 10 pcs/DN, 20€ for above quantities/DN. ⚠ 50€/DN when ordered afterwards.

ATEX zone (1, 21, 2 & 22) compatible product that has no own potential source of ignition. Manual valves are excluded from the scope of the 2014/34/EU Directive.

ATEX marking & certification available.
10€/pc, to be ordered along with the products.

On request, products certified in conformity with Regulation (EC) 1935/2004. Full traceability certification 30€ per product type.

Safety Integrity Level certification under IEC EN 61508 (grades from 1 to 4, see page 12).

Ingress protection rating (XX: grade, see page 12).

Specific approvals on products

NF ROB-GAZ, French approval for gas.

French approval for drinkable water.

UK approval for drinkable water.

German approval for drinkable water.

Polish approval for drinkable water.

U.S. Food & Drugs Administration. Complies with the FDA positive list of Food Contact Substances.

US National Sanitary Foundation Approval.

Marine approval on products

Bureau Veritas Marine recognition MODE II.

Bureau Veritas Type Approval.

Lloyd's Register Type Approval.

DNV-GL Type Approval.

American Bureau of Shipping Type Approval.

Non-binding illustrations - Technical data & prices are subject to change without prior notice.

Ball valves for industry & HVAC

- Brass ball valves 24
- Cast iron & ductile iron ball valves 29
- Carbon steel & stainless steel ball valves 30
- Carbon steel & stainless steel ball valves - Mars™ Valves..... 52
- Carbon steel & stainless steel ball valves - ICP™ Valves 64
- Carbon steel & stainless steel ball valves - JC™ Valves..... 70
- Carbon steel & stainless steel ball valves - Adler™ Valves 83

Heavy duty

2014/68/EU Directive - Risk category I / module A - Nickel-plated CW617N brass body - Chrome-plated brass ball - PTFE seats & gland pack - EPDM o-ring - Full bore - Anti-blowout stem from 1/2" to 2"- PS: see tables - TS: -10°C/+120°C.

Female/female

576 - Red steel lever BSP
523 - Red butterfly handle BSP

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	40	40	40	40	40	40	32	30	25	16	16	16
576 code	576001	576002	576003	576004	576005	576006	576007	576008	576009	576010	576011	576012
523 code	-	523002	523003	523004	523005	523006	-	-	-	-	-	-

Male/female

527 - Red steel lever BSP
537 - Red butterfly handle BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	40	40	40	40	40	32	30	25
527 code	527002	527003	527004	527005	527006	527007	527008	527009
537 code	537002	537003	537004	537005	537006	-	-	-

Male/male

538 - Red steel lever BSP
548 - Red aluminium butterfly handle BSP

Ø	3/8"	1/2"	3/4"	1"
PS (bar)	40	40	40	40
538 code	538003	538004	538005	538006
548 code	548003	548004	548005	548006

Female/female

521 - Black lever or butterfly handle NPT NEW NEW

NPS	1/4"	3/8"	1/2"	3/4"	1"	1"1/2	2"
PS (bar)	40	40	40	40	40	40	40
lever code	521002	521003	521004	521005	521006	521008	521009
butterfly handle code	521012	521013	521014	521015	521016	-	-

Dry cleaned for oxygen service

OXYGEN

2014/68/EU Directive - Risk category I / module A - Nickel-plated CW617N brass body - PTFE seats & gland pack - Full bore - Anti-blowout stem from 1/2" to 2"- PS: see tables - TS: -20°C/+120°C - Supplied with caps inside sealed bags up to 1".

Female/female

520 - White lever - Female/female BSP
561 - White butterfly handle - Female/female BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	40	40	40	40	40	32	30	20
520 code	520002	520003	520004	520005	520006	520007	520008	520009
561 code	561002	561003	561004	561005	561006	-	-	-

Male/male

50200 - White lever - Male/male BSP
50201 - White butterfly handle - Male/male BSP

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	40	40	40	40	32	30	20
50200 code	502003	502004	502005	502006	502007	502008	502009
50201 code	502013	502014	502015	502016	-	-	-

Gas service

GAS

Excluded from 2014/68/EU Directive (article 1, §2.f) - Valve for public gas network NF E 29-141 - MOP 5 category - CW617N brass body - Chrome-plated brass ball - PTFE seats - NBR o-ring - Full bore - Anti-blowout stem - PS: 5 bar - TS: -5°C/+60°C.

620 - Yellow steel lever BSP

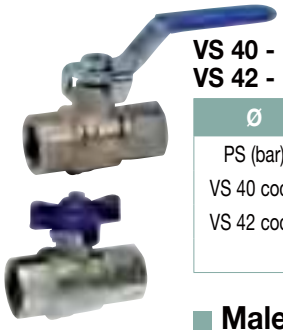
Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	5	5	5	5	5	5
code	620004	620005	620006	620007	620008	620009

Compressed air service

COMPRESSED AIR

2014/68/EU Directive - Risk category I / module A - Nickel-plated CW617N brass body - Chrome-plated brass ball - PTFE seats & gland pack - FKM o-ring - Full bore - Anti-blowout stem - PS: see tables - TS: -10°C/+120°C.

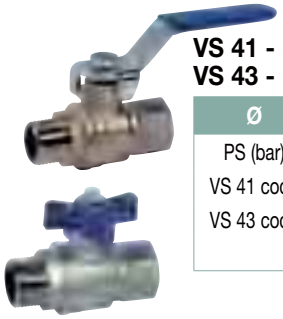
Female/female



VS 40 - Blue steel lever BSP
VS 42 - Blue aluminium butterfly handle BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	40	40	40	40	40	30	30	25
VS 40 code	-	-	179002	179003	179004	179005	179006	179007
VS 42 code	179020	179021	179022	179023	-	-	-	-

Male/female



VS 41 - Blue steel lever BSP
VS 43 - Blue aluminium butterfly handle BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"
PS (bar)	40	40	40	40	40
VS 41 code	-	-	179102	179103	179104
VS 43 code	179120	179121	179122	179123	-

Locking device

2014/68/EU Directive - Risk category I / module A - Nickel-plated CW617N brass body - PTFE seats - Full bore - Tamper-resistant stem - 4 point locking device - On/off position indicator - PS: see tables.

556 - Sferalock® - Female/female BSP

⚠ **Compressed air up to 20 bar only** - TS: -10°C/+120°C.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	40	40	40	40	40	30	25	20
code	556002	556003	556004	556005	556006	556007	556008	556009

557 - Sferalock® - Female/female with decompression hole BSP

⚠ **Compressed air up to 10 bar only** - TS: -10°C/+120°C.

Ø	1/4"	3/8"	1/2"	3/4"	1"
PS (bar)	40	40	40	40	40
code	557002	557003	557004	557005	557006

Reduction gear handle

2014/68/EU Directive - Risk category I / module A - Nickel-plated CW617 brass body - PTFE seats - NBR o-ring - Full bore - Anti-blowout stem - PS: see table - TS: -20°C/+120°C.

531 - Reduction gear BSP

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
PS (bar)	50	50	50	40	40	32	32	25
code	531003	531004	531005	531006	531007	531008	531009	531010

ISO pad

2014/68/EU Directive - Risk category I / module A - ACS certified except 1/4'' & 3/8'' certified up to 2" - Nickel-plated CW617N brass body - PTFE seats - Stem tightness: NBR - Full bore - PS: 16 bar - TS: -10°C/+100°C.
⚠ **Delivered bare shaft for direct mounting automation.**

502 XS - 2 way brass ball valve BSP

DN	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	16	16	16	16	16	16	16	16	16
code	270002	270003	270004	270005	270006	270007	270038	270039	270040

2014/68/EU Directive N° 0425- Risk category II / module A2 - ACS certified - Nickel-plated CW617N brass body - PTFE seats - PS: 16 bar - TS: -10°C/+100°C.
⚠ **Delivered bare shaft for direct mounting automation.**

2 way

500 HC - 2 way brass ball valve with stem extension BSP

DN	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	16	16	16	16	16	16
code	270102	270103	270104	270105	270106	270107

3 way

513 XS - L-port BSP **514 XS - T-port** BSP

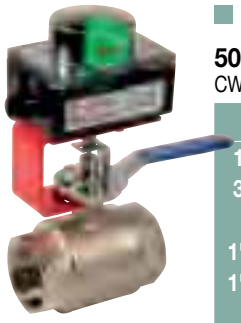
Stem tightness: FKM - Reduced bore.

DN	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	16	16	16	16	16	16	16	16
513 code	275010	275011	275012	275013	275014	275015	275016	275017
514 code	275030	275031	275032	275033	275034	275035	275036	275037

Manual valves with limit switch box

Manual ball valves equipped with SF012 limit switch box IP67 - SPDT 250V-5A (see features of the limit switch box page 183).

2 way

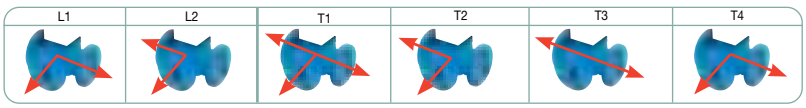


502 - Brass BSP

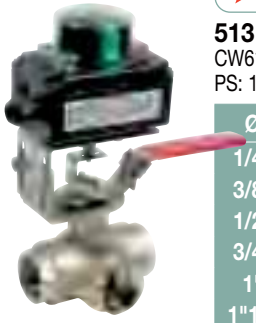
CW617N body - PTFE seats - Full bore - PS: 16 bar - TS: -10°C/+100°C.

Ø	code
1/2"	2700020462012
3/4"	2700030462012
1"	2700040462012
1"1/4	2700050462012
1"1/2	2700060462012
2"	2700070462012
2"1/2	2700380462012
3"	2700390462012
4"	2700400462012

3 way



T-port: mention 2 consecutive positions (example: T3/T4).



513 XS - L-port BSP

CW617N body - PTFE seats - Reduced bore - PS: 16 bar - TS: -10°C/+100°C.

Ø	code
1/4"	2750100462012
3/8"	2750110462012
1/2"	2750120462012
3/4"	2750130462012
1"	2750140462012
1"1/4	2750150462012
1"1/2	2750160462012
2"	2750170462012

514 XS - T-port BSP

CW617N body - PTFE seats - Reduced bore - PS: 16 bar - TS: -10°C/+100°C.

Ø	code
1/4"	2750300462012
3/8"	2750310462012
1/2"	2750320462012
3/4"	2750330462012
1"	2750340462012
1"1/4	2750350462012
1"1/2	2750360462012
2"	2750370462012

2 way

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
All our electric actuated ball valves are equipped with a 230V AC actuator as standard - Other power supply on request, please consult.
⚠ **ΔP max.: 10 bar** - Actuators & automation complements, see page 169.

PNEUMATIC

502 XS - Pneumatic actuated 2 way brass ball valve BSP

Direct mounting - CW617N body and ball - TS: -10°C/+100°C.

ACTREG

double acting		
Ø	actuator	code
1/4"	ADA20	270090015100
3/8"	ADA20	270091015100
1/2"	ADA20	270002015100
3/4"	ADA20	270003015100
1"	ADA20	270004015100
1"1/4	ADA20	270005015100
1"1/2	ADA40	270006015101
2"	ADA80	270007015102
2"1/2	ADA80	270038015102
3"	ADA130	270039015103
4"	ADA200	270040015104

ACTREG

spring return		
Ø	actuator	code
1/4"	ASR20	270090016100
3/8"	ASR20	270091016100
1/2"	ASR20	270002016100
3/4"	ASR20	270003016100
1"	ASR40	270004016101
1"1/4	ASR80	270005016102
1"1/2	ASR130	270006016103
2"	ASR200	270007016104
2"1/2	ASR200	270038016104
3"	ASR300	270039016105
4"	ASR300	270040016105

Alphair

double acting		
Ø	actuator	code
1/4"	RE43	270090017004R
3/8"	RE43	270091017004R
1/2"	RE43	270002017004R
3/4"	RE43	270003017004R
1"	RE43	270004017004R
1"1/4	RE51	270005017006R
1"1/2	RE64	270006017007R
2"	RE76	270007017008R
2"1/2	RE76	270038017008R
3"	RE86	270039017009R
4"	RE101	270040017010R

Alphair

spring return		
Ø	actuator	code
1/4"	RES43	270090017104R
3/8"	RES43	270091017104R
1/2"	RES43	270002017104R
3/4"	RES51	270003017106R
1"	RES64	270004017107R
1"1/4	RES76	270005017108R
1"1/2	RES86	270006017109R
2"	RES101	270007017110R
2"1/2	RES101	270038017110R
3"	RES116	270039017111R
4"	RES116	270040017111R

ELECTRIC

502 XS - Electric actuated 2 way brass ball valve BSP

Direct mounting - CW617N body and ball - TS: -10°C/+100°C.

T15

2-wire connection - NC		
Ø	actuator	code
1/4"	T15	270090022500
3/8"	T15	270091022500
1/2"	T15	270002022500
3/4"	T15	270003022500
1"	T15	270004022500

TCR02N

standard on/off execution		
Ø	actuator	code
1/4"	TCR02N	270090024110
3/8"	TCR02N	270091024110
1/2"	TCR02N	270002024110
3/4"	TCR02N	270003024110
1"	TCR02N	270004024110
1"1/4	TCR05N	270005024310
1"1/2	TCR05N	270006024310
2"	TCR05N	270007024310
2"1/2	TCR05N	270038024310
3"	TCR11N	270039024610
4"	TCR11N	270040024610

TCR02NKT

capacitor return execution - NC		
Ø	actuator	code
1/4"	TCR02NKT	270090024120
3/8"	TCR02NKT	270091024120
1/2"	TCR02NKT	270002024120
3/4"	TCR02NKT	270003024120
1"	TCR02NKT	270004024120
1"1/4	TCR05NKT	270005024320
1"1/2	TCR05NKT	270006024320
2"	TCR05NKT	270007024320
2"1/2	TCR05NKT	270038024320
3"	TCR11NKT	270039024620
4"	TCR11NKT	270040024620

ELECTRIC

502 XS - Electric actuated 2 way brass ball valve BSP

Direct mounting - CW617N body and ball - TS: -10°C/+100°C.

standard on/off execution		
Ø	actuator	code
1/4"	SA03	270090023000
3/8"	SA03	270091023000
1/2"	SA03	270002023000
3/4"	SA03	270003023000
1"	SA03	270004023000
1"1/4	SA05	270005023010
1"1/2	SA05	270006023010
2"	SA05	270007023010
2"1/2	NA06	270038023110
3"	NA06	270039023110
4"	NA09	270040023120

super capacitor return execution - NC		
Ø	actuator	code
1/4"	SA05SCP	270090023065
3/8"	SA05SCP	270091023065
1/2"	SA05SCP	270002023065
3/4"	SA05SCP	270003023065
1"	SA05SCP	270004023065
1"1/4	SA05SCP	270005023065
1"1/2	SA05SCP	270006023065
2"	SA05SCP	270007023065

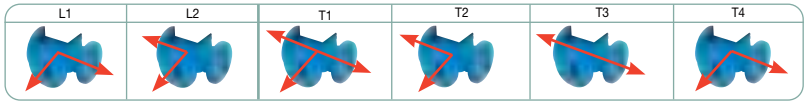
500 HC - Electric actuated brass ball valve BSP

Direct mounting - CW617N body and ball - TS: -10°C/+100°C.

2-wire connection - NC		
Ø	actuator	code
1/2"	T15	270102022500
3/4"	T15	270103022500
1"	T15	270104022500
1" 1/4	T15	270105022500
1" 1/2	T15	270106022500
2"	T15	270107022500

standard on/off execution		
Ø	actuator	code
1/2"	TCR02N	270102024110
3/4"	TCR02N	270103024110
1"	TCR02N	270104024110
1" 1/4	TCR05N	270105024310
1" 1/2	TCR05N	270106024310
2"	TCR05N	270107024310

3 way



T-port: mention 2 consecutive positions (example: T3/T4) - Clockwise closing - **Anti-clockwise closing option: 50 €.**

PNEUMATIC

513 XS L-port / 514 XS T-port - Pneumatic actuated 3 way brass ball valve BSP

Direct mounting - CW617N body and ball - TS: -10°C/+100°C.

double acting		
Ø	actuator	513 L code
1/4"	ADA20	275010015100
3/8"	ADA20	275011015100
1/2"	ADA20	275012015100
3/4"	ADA20	275013015100
1"	ADA20	275014015100
1"1/4	ADA40	275015015101
1"1/2	ADA40	275016015101
2"	ADA80	275017015102

spring return		
Ø	actuator	513 L code
1/4"	ASR20	275010016100
3/8"	ASR20	275011016100
1/2"	ASR20	275012016100
3/4"	ASR40	275013016101
1"	ASR80	275014016102
1"1/4	ASR130	275015016103
1"1/2	ASR200	275016016104
2"	ASR200	275017016104

double acting		
Ø	actuator	513 L code
1/4"	RE43	275010017004R
3/8"	RE43	275011017004R
1/2"	RE43	275012017004R
3/4"	RE51	275013017006R
1"	RE51	275014017006R
1"1/4	RE64	275015017007R
1"1/2	RE64	275016017007R
2"	RE64	275017017007R

spring return		
Ø	actuator	513 L code
1/4"	RES51	275010017106R
3/8"	RES51	275011017106R
1/2"	RES51	275012017106R
3/4"	RES64	275013017107R
1"	RES76	275014017108R
1"1/4	RES76	275015017108R
1"1/2	RES76	275016017108R
2"	RES76	275017017108R

ELECTRIC

513 XS L-port / 514 XS T-port - Electric actuated 3 way brass ball valve BSP

Direct mounting - CW617N body and ball - TS: -10°C/+100°C.

Ø	actuator	513 L code
1/4"	TCR02N	275010024110
3/8"	TCR02N	275011024110
1/2"	TCR02N	275012024110
3/4"	TCR02N	275013024110
1"	TCR02N	275014024110
1"1/4	TCR05N	275015024310
1"1/2	TCR05N	275016024310
2"	TCR05N	275017024310

	513 L	514 T
code	27501...	27503...

Ø	actuator	513 L code
1/4"	SA03	275010023000
3/8"	SA03	275011023000
1/2"	SA03	275012023000
3/4"	SA03	275013023000
1"	SA03	275014023000
1"1/4	SA05	275015023010
1"1/2	SA05	275016023010
2"	SA05	275017023010

Cast iron & ductile iron ball valves

Split body

Cast iron

2014/68/EU Directive - Risk category I / module A - Flanged RF PN16 - GG25 body - Stainless steel ball - PTFE seat - Stem tightness: FKM - Full bore - Anti-blowout stem - Antistatic device - ISO pad - PS: 16 bar - TS: -10°C/+200°C -
⚠ **Not suitable for steam & compressed air.**

CE Compatible ATEX ZONE no source of ignition

507 - EN 558 series 27, and also series 14 for DN125 & DN150

DN	15	20	25	32	40	50	65	80	100	125/S14	125	150/S14	150	200
face to face	115	120	125	130	140	150	170	180	190	200	325	210	350	400
code	507015	507020	507025	507032	507040	507050	507065	507080	507100	507125	507126	507150	507151	507200

505 - NF 29323

DN	40	50	65	80	100	125	150
face to face	136	142	154	160	172	186	200
code	505040	505050	505065	505080	505100	505125	505150

Ductile iron

2014/68/EU Directive N°1521 - Risk category III / module H - Flanged RF PN16 - GGG40 body - Stainless steel ball - PTFE seat - Stem tightness: PTFE - Full bore - Anti-blowout stem - PS: 16 bar - TS: -10°C/+120°C -
⚠ **Not suitable for steam & compressed air.**

CE 1521

507D - EN 558 series 27

DN	15	20	25	32	40	50	65	80	100	125	150	200
face to face	115	120	125	130	140	150	170	180	190	325	350	400
code	507D015	507D020	507D025	507D032	507D040	507D050	507D065	507D080	507D100	507D126	507D151	507D200

Actuated cast iron ball valves

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
All our electric actuated ball valves are equipped with a 230V AC actuator as standard - Other power supply on request, please consult.
⚠ **ΔP max.: 10 bar -** Actuators & automation complements, see page 169.

507 - Pneumatic actuated cast iron ball valve
GG25 body - CF8M ball - TS: -10°C/+200°C.

double acting		
DN	actuator	code
40	ADA40	270226015101
50	ADA80	270227015102
65	ADA80	270228015102
80	ADA130	270229015103
100	ADA200	270230015104
125	ADA300	270231015105
150	ADA300	270232015105
200	ADA850	270233015107

spring return		
DN	actuator	code
40	ASR130	270226016103
50	ASR200	270227016104
65	ASR200	270228016104
80	ASR300	270229016105
100	ASR300	270230016105
125	ASR850	270231016107
150	ASR850	270232016107

double acting		
DN	actuator	code
15	RE51	270222017006R
20	RE51	270223017006R
25	RE51	270224017006R
32	RE51	270225017006R
40	RE76	270226017008R
50	RE76	270227017008R
65	RE76	270228017008R
80	RE86	270229017009R
100	RE101	270230017010R
125	RE116	270231017011R
150	RE126	270232017012R
200	RE161	270233017014R

spring return		
DN	actuator	code
15	RES64	270222017107R
20	RES64	270223017107R
25	RES76	270224017108R
32	RES76	270225017108R
40	RES86	270226017109R
50	RES101	270227017110R
65	RES101	270228017110R
80	RES116	270229017111R
100	RES146	270230017113R
125	RES161	270231017114R
150	RES180	270232017115R

PNEUMATIC

Actuated cast iron ball valves

PNEUMATIC

505 - Pneumatic actuated cast iron ball valve NF

GG25 body - CF8M ball - TS: -10°C/+200°C.

double acting		
DN	actuator	code
40	RE76	270206017008R
50	RE76	270207017008R
65	RE76	270208017008R
80	RE86	270209017009R
100	RE101	270210017010R
125	RE116	270211017011R
150	RE126	270212017012R

spring return		
DN	actuator	code
40	RES86	270206017109R
50	RES101	270207017110R
65	RES101	270208017110R
80	RES116	270209017111R
100	RES146	270210017113R
125	RES161	270211017114R
150	RES181	270212017115R

ELECTRIC

507 - Electric actuated cast iron ball valve

GG25 body - CF8M ball - TS: -10°C/+200°C.

DN	actuator	code
15	TCR02N	270222024110
20	TCR02N	270223024110
25	TCR02N	270224024110
32	TCR05N	270225024310
40	TCR05N	270226024310
50	TCR11N	270227024610
65	TCR11N	270228024610
80	TCR11N	270229024610
100	TCR20N	270230024700
125	TCR40N	270231024720
150	TCR40N	270232024720

DN	actuator	code
15	SA05	270222023010
20	SA05	270223023010
25	SA05	270224023010
32	SA05	270225023010
40	SA05	270226023010
50	NA06	270227023110
65	NA09	270228023120
80	NA15	270229023130
100	NA28	270230023150
125	NA28	270231023150
150	NA38	270232023160
200	NA60	270233023180

505 - Electric actuated cast iron ball valve NF

GG25 body - CF8M ball - TS: -10°C/+200°C.

DN	actuator	code
40	TCR05N	270206024310
50	TCR11N	270207024610
65	TCR11N	270208024610
80	TCR11N	270209024610
100	TCR20N	270210024700
125	TCR40N	270211024720
150	TCR40N	270212024720

DN	actuator	code
40	SA05	270206023010
50	NA06	270207023110
65	NA09	270208023120
80	NA15	270209023130
100	NA28	270210023150
125	NA28	270211023150
150	NA38	270212023160

Carbon steel & stainless steel ball valves

1 piece body - Mini ball valves

Excluded from 2014/68/EU Directive (article 4, §3) - CF8M polished body - RTFE seat - Double FKM O-ring - Reduced bore - PS: 63 bar - TS: -20°C/+180°C.

3.1 see p. 22

732 FF - Stainless steel BSP female-female

CF8M body - 316 ball.

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"
PS (bar)	63	63	63	63	63	63
code	732FF001	732FF002	732FF003	732FF004	732FF005	732FF006

732 MF - Stainless steel BSP male-female

CF8M body - 316 ball.

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"
PS (bar)	63	63	63	63	63	63
code	732MF001	732MF002	732MF003	732MF004	732MF005	732MF006

732 MM - Stainless steel BSP male-male

CF8M body - 316 ball.

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"
PS (bar)	63	63	63	63	63	63
code	732MM001	732MM002	732MM003	732MM004	732MM005	732MM006

1 piece body

2014/68/EU Directive - PTFE seats - Reduced bore - Locking device - PS: 40 bar - TS: -20°C/+180°C.

CE 3.1 see p. 22

708 - Stainless steel BSP female-female

CF8M body & ball.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	40	40	40	40	40	40	40	40
code	708002	708003	708004	708005	708006	708007	708008	708009

Excluded from 2014/68/EU Directive (article 4, §3) - PTFE seats - Reduced bore - Locking device - PS: 55 bar - TS: -10°C/+150°C.

3.1 see p. 22

708 MF - Stainless steel BSP male-female

CF8M body & ball.

Ø	1/4"	3/8"	1/2"	3/4"
PS (bar)	55	55	55	55
BSP code	708MF02	708MF03	708MF04	708MF05

Additional delivery time 3-5 days

2014/68/EU Directive N°0035 - Risk category II / module H - PTFE seats - Reduced bore - Locking device - PS: 55 bar - TS: -20°C/+180°C.

CE 0035 3.1 see p. 22

101 IIT (V10) - Stainless steel BSP

102 IIT (V10) - Stainless steel NPT

CF8M body - F316 ball up to 1/2'', CF8M above.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	55	55	55	55	55	55	55	55
BSP code	101IIT008	101IIT010	101IIT015	101IIT020	101IIT025	101IIT032	101IIT040	101IIT050
NPT code	102IIT008	102IIT010	102IIT015	102IIT020	102IIT025	102IIT032	102IIT040	102IIT050

1 piece body - High pressure

2 way

HIGH PRESSURE

2014/68/EU Directive N°0948 - Risk category II / module A2 - POM ball seats - NBR O-ring - Reduced bore - PS: see table - TS: -20°C/+100°C.

CE 0948 Compatible ATEX ZONE no source of ignition

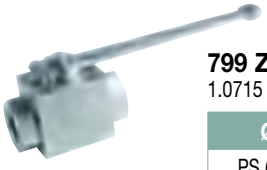
799 - Carbon steel BSP

1.0737 body & ball.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	500	500	500	420	420	420	420	420
code	799002	799003	799004	799005	799006	799007	799008	799009

HIGH PRESSURE

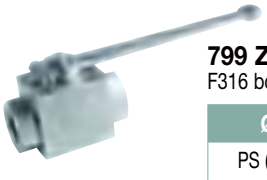
Excluded from 2014/68/EU Directive (article 4, §3) - POM ball seats - Stem tightness: FKM - Full bore - ISO pad - PS: see tables - TS: -20°C/+100°C.



799 ZA - Carbon steel BSP

1.0715 body & ball.

Ø	3/8"	1/2"	3/4"	1"
PS (bar)	500	500	420	315
code	273201	273202	273203	273204



799 ZI - Stainless steel BSP

F316 body & ball.

Ø	3/8"	1/2"	3/4"	1"
PS (bar)	500	500	420	315
code	273221	273222	273223	273224

Carbon steel & stainless steel ball valves

3 way

HIGH PRESSURE

Excluded from 2014/68/EU Directive (article 4, §3) - POM ball seats - Stem tightness: POM + NBR O-ring - Reduced bore - PS: see table - TS: -10°C/+100°C.

Compatible ATEX ZONE no source of ignition

721 - Carbon steel - L-port BSP

1.0737 body & ball.

Ø	1/4"	3/8"	1/2"	3/4"	1"
PS (bar)	400	400	350	350	350
code	721002	721003	721004	721005	721006

HIGH PRESSURE

Excluded from 2014/68/EU Directive (article 4, §3) - POM ball seats - Stem tightness: FKM - Reduced bore - ISO pad - PS: see table - TS: -20°C/+100°C.

721 ZA - Carbon steel - L-port BSP

1.0715 body & ball.

Ø	3/8"	1/2"	3/4"	1"
PS (bar)	500	500	315	315
code	275301	275302	275303	275304

Actuated carbon steel & stainless steel ball valves

1 piece body - High pressure

HIGH PRESSURE

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
All our electric actuated ball valves are equipped with a 230V AC actuator as standard - Other power supply on request, please consult.
⚠ **ΔP max.: 100 bar** - Actuators & automation complements, see page 169.

2 way

PNEUMATIC

799 ZA - Pneumatic actuated carbon steel ball valve BSP

1.0715 body & ball - TS: -20°C/+100°C.

double acting			
Ø	PS (bar)	actuator	code
3/8"	500	RE64	273201017007R
1/2"	500	RE64	273202017007R
3/4"	420	RE76	273203017008R
1"	315	RE76	273204017008R

spring return			
Ø	PS (bar)	actuator	code
3/8"	500	RES76	273201017108R
1/2"	500	RES86	273202017109R
3/4"	420	RES101	273203017110R
1"	315	RES101	273204017110R

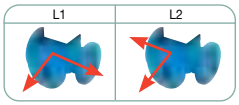
799 ZI - Pneumatic actuated stainless steel ball valve BSP

F316 body & ball - TS: -20°C/+100°C.

double acting			
Ø	PS (bar)	actuator	code
3/8"	500	RE64	273221017007R
1/2"	500	RE64	273222017007R
3/4"	420	RE76	273223017008R
1"	315	RE76	273224017008R

spring return			
Ø	PS (bar)	actuator	code
3/8"	500	RES76	273221017108R
1/2"	500	RES86	273222017109R
3/4"	420	RES101	273223017110R
1"	315	RES101	273224017110R

3 way



Clockwise closing L1 to L2 -
Anti-clockwise closing option: 50 €.

PNEUMATIC

721 ZA - Pneumatic actuated carbon steel ball valve L-port BSP

1.0715 body & ball - TS: -20°C/+100°C.

double acting			
Ø	PS (bar)	actuator	code
3/8"	500	RE64	275301017007R
1/2"	500	RE64	275302017007R
3/4"	315	RE76	275303017008R
1"	315	RE76	275304017008R

spring return			
Ø	PS (bar)	actuator	code
3/8"	500	RES76	275301017108R
1/2"	500	RES86	275302017109R
3/4"	315	RES101	275303017110R
1"	315	RES101	275304017110R

2 piece body

2014/68/EU Directive - Risk category III / module H - Full bore up to 2"1/2 - Anti-blowout stem - Locking device - PS: see tables - TS: -20°C/+180°C.

3.1 see p. 22

7151 - Stainless steel - S-First BSP

CF8M body - F316 ball - RTFE seat.

CE 0343

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	63	63	63	63	50	50	40	40	25	25	16
code	715102	715103	715104	715105	715106	715107	715108	715109	715110	715111	715112

COMPRESSED AIR

7152 - Stainless steel - S-First - With decompression hole BSP

CF8M body - For compressed air & nitrogen - F316 ball - PTFE seat.

CE 0036

Ø	1/4"	3/8"	1/2"	3/4"	1"
PS (bar)	8	8	8	8	8
code	715202	715203	715204	715205	715206

Stainless steel bibcock valves, see page 336

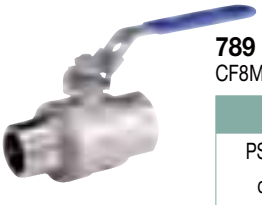
2014/68/EU Directive N°0035 - Risk category II / module D1 - PTFE +3% glass fiber seats - Full bore - Anti-blowout stem - Locking device - PS: see tables - TS: -20°C/+180°C.

CE 0035 | 3.1 see p. 22

715 - Stainless steel BSP

CF8M body & ball.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	63	63	63	63	50	50	40	40	25	25	16
code	715002	715003	715004	715005	715006	715007	715008	715009	715010	715011	715012



789 - Stainless steel BSP male-female

CF8M body - F316 ball.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	63	63	63	63	50	50	40	40
code	789002	789003	789004	789005	789006	789007	789008	789009

Excluded from 2014/68/EU directive (article 4, §3) - RTFE seats - Reduced bore - Anti-blowout stem - Locking device - PS: see table - TS: -50°C/+180°C.

3.1 see p. 22

709 - Stainless steel BSP male-male

CF8M body - F316 ball.

Ø	3/8"	1/2"	3/4"	1"
PS (bar)	63	63	63	50
code	709003	709004	709005	709006

Spare butterfly handle

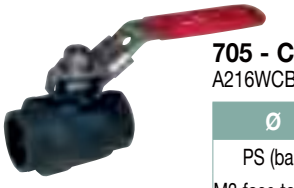
for 709.

Ø	1/4"	3/8"	1/2" & 3/4"	1"
code	9831131	9831132	9831133	9831134

2 piece body - Long thread

2014/68/EU Directive N°0343 - Risk category III / module H - RTFE seats - Full bore - Anti-blowout stem - Antistatic device - Locking device - PS: see table.

CE 0343 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition



705 - Carbon steel - DIN 3202-4 M3 BSP

A216WCB body - F304 ball - TS: -20°C/+180°C.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
PS (bar)	63	63	63	63	63	63	63	63	50	50
M3 face to face	50	60	75	80	90	110	120	140	185	205
code	705002	705003	705004	705005	705006	705007	705008	705009	705010	705011

706 - Stainless steel - DIN 3202-4 M3 BSP

CF8M body - F316 ball - TS: -50°C/+180°C.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	63	63	63	63	63	63	63	63	50	50	40
M3 face to face	50	60	75	80	90	110	120	140	185	205	240
lever code	706002	706003	706004	706005	706006	706007	706008	706009	706010	706011	706012
butterfly handle code	706102	706103	706104	706105	706106	-	-	-	-	-	-

704 - Stainless steel - Long thread NPT

CF8M body - F316 ball - TS: -50°C/+180°C.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	63	63	63	63	63	63	63	63
face to face	50	60	75	80	90	100	120	140
code	704002	704003	704004	704005	704006	704007	704008	704009

Spare butterfly handles

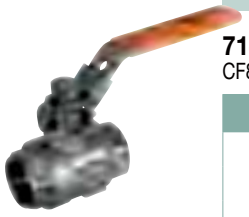
for 704 - 705 - 706.

Ø	1/4" & 3/8"	1/2"	3/4" &1"
code	9830611	9830612	9830613

2 piece body - High temperature

2014/68/EU Directive N°0035 - Risk category III / module H - PTFE + graphite seats - Full bore - Anti-blowout stem - Antistatic device - Locking device - PS: 63 bar - TS: -20°C/+200°C - ⚠ **Steam up to 11 bar max.**

TA LUFT | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition



714 - Stainless steel BSP

CF8M body & ball.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	63	63	63	63	63	63	63	63
code	714002	714003	714004	714005	714006	714007	714008	714009

2 piece body - Dry cleaned for oxygen service

OXYGEN
FOOD

2014/68/EU Directive N°0035 - Risk category II / module H - RTFE seats - Full bore - Anti-blowout stem - Antistatic device - Locking device - PS: 63 bar - TS: -20°C/+200°C.

CE 1935 | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

7143 - Stainless steel - silicone free BSP

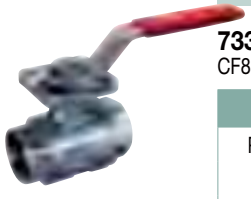
CF8M body & ball - Supplied inside sealed bag with caps.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	63	63	63	63	63	63	63	63
code	714302	714303	714304	714305	714306	714307	714308	714309

2 piece body - ISO pad

2014/68/EU Directive N°0035 - Risk category III / module H - PTFE seats - Full bore - Anti-blowout stem - Antistatic device - Locking device - PS: 63 bar - TS: -20°C/+200°C - ⚠ **Steam up to 11 bar max.**

ACS Drinking water | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition



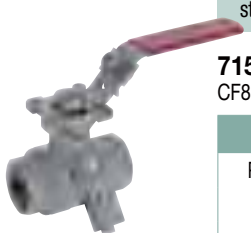
733 - Stainless steel - ISO pad BSP

CF8M body & ball.

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
PS (bar)	63	63	63	63	63	63	63	63
code	733004	733005	733006	733007	733008	733009	733010	733011

2014/68/EU Directive N°0035 - Risk category III / module H - SIL 2 (& SIL 3 capable) - RTFE seats - PTFE/FKM stem tightness - Full bore - Anti-blowout stem - Antistatic device - PS: 63 bar - TS: -10°C/+180°C.

SIL | TA LUFT | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition



715 XS - Stainless steel - ISO pad BSP

CF8M body & ball.

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
PS (bar)	63	63	63	63	63	63	63	63
code	272402	272403	272404	272405	272406	272407	272408	272409

2 piece body - 800 lbs

2014/68/EU Directive N°0948 - Risk category III / module B + C2 - 800 lbs - Fire safe BS 6755 - NACE MR0175 - PTFE + carbon graphite seats - Full bore - Anti-blowout stem - Antistatic device.

NACE MR0175 | FIRE SAFE | CE 0948 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

717 - Carbon steel BSP NPT SW

A105N body - F316L ball - PS: 136 bar - TS: -20°C/+180°C.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Bore	10	10	15	20	25	30	38	48
BSP code	717002	717003	717004	717005	717006	717007	717008	717009
NPT code	717102	717103	717104	717105	717106	717107	717108	717109
SW code	717208	717210	717215	717220	717225	717232	717240	717250

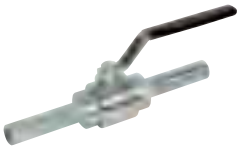
716 - Stainless steel BSP NPT SW

F316L body & ball - PS: 132 bar - TS: -30°C/+180°C.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Bore	10	10	15	20	25	30	38	48
BSP code	716002	716003	716004	716005	716006	716007	716008	716009
NPT code	716102	716103	716104	716105	716106	716107	716108	716109
SW code	716208	716210	716215	716220	716225	716232	716240	716250

718 - Carbon steel BW SW

A105N body - F316L ball - Length: 100 mm - PS: 136 bar - TS: -20°C/+180°C.



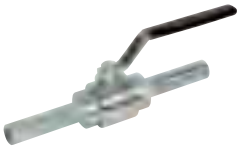
Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Bore	10	10	15	20	25	30	38	48
BW code*	718008	718010	718015	718020	718025	718032	718040	718050
SW code	718208	718210	718215	718220	718225	718232	718240	718250

* Butt welding ends schedule 80.

not on stock, on request.

719 - Stainless steel BW SW

F316L body & ball - Length: 100 mm - PS: 132 bar - TS: -30°C/+180°C.



Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Bore	10	10	15	20	25	30	38	48
BW code*	719008	719010	719015	719020	719025	719032	719040	719050
SW code	719208	719210	719215	719220	719225	719232	719240	719250

* Butt welding ends schedule 80.

not on stock, on request.

2 piece body - 1500 lbs

2014/68/EU Directive N°0948 - Risk category III / module B + C2 - 1500 lbs - PEEK seats - Carbon graphite gaskets - Full bore - Anti-blowout stem - Antistatic device - ⚠ **Steam up to 30 bar max.**

NACE MR0175 | CE 0948 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

734 - Carbon steel BSP NPT

A105 body - F316L ball - PS: 255 bar - TS: -20°C/+250°C.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Bore	10	10	15	20	25	30	38	48
BSP code	734002	734003	734004	734005	734006	734007	734008	734009
NPT code	734102	734103	734104	734105	734106	734107	734108	734109

Locking device

for 717-716-718-719-734-735

Ø	code
1/4"	9830301
3/8"	9830301
1/2"	9830313
3/4"	9830314
1"	9830314
1"1/4	9830315
1"1/2	9830315
2"	9830496

735 - Stainless steel BSP NPT

F316L body & ball - PS: 248 bar - TS: -30°C/+250°C.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Bore	10	10	15	20	25	30	38	48
BSP code	735002	735003	735004	735005	735006	735007	735008	735009
NPT code	735102	735103	735104	735105	735106	735107	735108	735109

Spare stainless steel F304 lever

for 717-716-718-719-734-735

Ø	1/4"-3/8"	1/2"	3/4"-1"	1"1/4-1"1/2	2"
code	9830320	9830316	9830317	9830318	9830321

Spare oval steel wheel

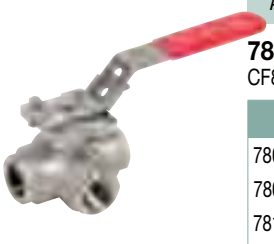
for 717-716-718-719-734-735

Ø	1/4"-3/8"	1/2"	3/4"-1"	1"1/4-2"
code	9830571	9830572	9830573	9830574

2 piece construction - 3 way

2014/68/EU Directive N°0036 - Risk category II / module A2 - RTFE seats - 4 seats / 3 way tightness - Reduced bore - Anti-blowout stem - Locking device - ISO pad - PS: 40 bar - TS: -25°C/+180°C.

CE 0036 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition



780 - Stainless steel - L-port BSP NPT

781 - Stainless steel - T-port BSP NPT

CF8M body - F316 ball.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
780 BSP code	780002	780003	780004	780005	780006	780007	780008	780009
780 NPT code	780302	780303	780304	780305	780306	780307	780308	780309
781 BSP code	781002	781003	781004	781005	781006	781007	781008	781009
781 NPT code	781302	781303	781304	781305	781306	781307	781308	781309

2014/68/EU Directive N°0035 - Risk category II / module H - SIL 2 (& SIL 3 capable) - PTFE seats - 4 seats / 3 way tightness - Stem tightness: PTFE - Reduced bore - Anti-blowout stem - Antistatic device - ISO pad - PS: 63 bar - TS: -10°C/+180°C.

SIL | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

780 XS - Stainless steel - L-port BSP

781 XS - Stainless steel - T-port BSP

CF8M body & ball.

DN	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
780XS code	275400	275401	275402	275403	275404	275405	275406	275407
781XS code	275420	275421	275422	275423	275424	275425	275426	275427

Additional delivery time 3-5 days

2014/68/EU Directive N°0035 - Risk category II / module H - RTFE seats - Anti-blowout stem - Antistatic device - Reduced bore (except 1/4" & 3/8": full bore) - ISO pad - Locking device - PS: see table - TS: -20°C/+200°C.

CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition | MARSS

1370 L (V39R) - Stainless steel - L-port BSP

1370 T (V39R) - Stainless steel - T-port BSP

CF8M body - F316 ball from 1/4" to 1/2", CF8M above.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	69	69	69	69	69	69	55	55
L code	1370LI008	1370LI010	1370L015	1370L020	1370L025	1370L032	1370L040	1370L050
T code	1370TI008	1370TI010	1370T015	1370T020	1370T025	1370T032	1370T040	1370T050

Manual valves with limit switch box

Manual ball valves equipped with SF012 limit switch box IP67 - SPDT 250V-5A (see features of the limit switch box page 183).

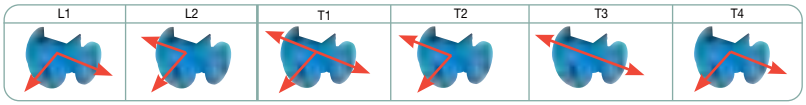
2 way

715 XS - Stainless steel BSP

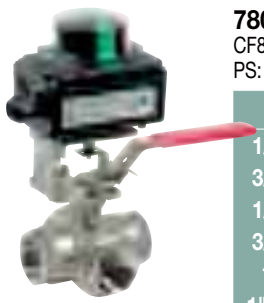
CF8M body - PTFE seats - Full bore - PS: 63 bar - TS: -10°C/+180°C.

Ø	code
1/2"	2724020462012
3/4"	2724030462012
1"	2724040462012
1"1/4	2724050462012
1"1/2	2724060462012
2"	2724070462012

3 way



T-port: mention 2 consecutive positions (example: T3/T4).



780 XS - Stainless steel - L-port BSP

CF8M body - PTFE seats - Reduced bore - PS: 40 bar - TS: -10°C/+140°C.

Ø	780XS L code
1/4"	2754000462012
3/8"	2754010462012
1/2"	2754020462012
3/4"	2754030462012
1"	2754040462012
1"1/4	2754050462012
1"1/2	2754060462012
2"	2754070462012

781 XS - Stainless steel - T-port BSP

CF8M body - PTFE seats - Reduced bore - PS: 40 bar - TS: -10°C/+140°C.

Ø	781XS T code
1/4"	2754200462012
3/8"	2754210462012
1/2"	2754220462012
3/4"	2754230462012
1"	2754240462012
1"1/4	2754250462012
1"1/2	2754260462012
2"	2754270462012

Ex on request

2 piece body

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
All our electric actuated ball valves are equipped with a 230V AC actuator as standard - Other power supply on request, please consult.
⚠ **ΔP max.: 10 bar** - Actuators & automation complements, see page 169.

2 way

PNEUMATIC

715 XS - Pneumatic actuated stainless steel ball valve BSP

Direct mounting - CF8M body & ball - TS: -10°C/+180°C.

10 €/pc

double acting		
Ø	actuator	code
1/2"	NK52	272402010002
3/4"	NK52	272403010002
1"	NK52	272404010002
1"1/4	NK52	272405010002
1"1/2	NK63	272406010003
2"	NK63	272407010003
2"1/2	NK83	272408010005
3"	NK83	272409010005

spring return		
Ø	actuator	code
1/2"	NKS52	272402010102
3/4"	NKS52	272403010102
1"	NKS63	272404010103
1"1/4	NKS63	272405010105
1"1/2	NKS83	272406010105
2"	NKS83	272407010105
2"1/2	NKS92	272408010106
3"	NKS105	272409010107

SIL 10 €/pc

double acting		
Ø	actuator	code
1/2"	ADA20	272402015100
3/4"	ADA20	272403015100
1"	ADA20	272404015100
1"1/4	ADA20	272405015100
1"1/2	ADA40	272406015101
2"	ADA80	272407015102
2"1/2	ADA80	272408015102
3"	ADA130	272409015103

spring return		
Ø	actuator	code
1/2"	ASR20	272402016100
3/4"	ASR20	272403016100
1"	ASR40	272404016101
1"1/4	ASR80	272405016102
1"1/2	ASR130	272406016103
2"	ASR200	272407016104
2"1/2	ASR200	272408016104
3"	ASR300	272409016105

SIL 10 €/pc

double acting		
Ø	actuator	code
1/2"	RE43	272402017004R
3/4"	RE43	272403017004R
1"	RE43	272404017004R
1"1/4	RE51	272405017006R
1"1/2	RE64	272406017007R
2"	RE76	272407017008R
2"1/2	RE76	272408017008R
3"	RE86	272409017009R

spring return		
Ø	actuator	code
1/2"	RES43	272402017104R
3/4"	RES51	272403017106R
1"	RES64	272404017107R
1"1/4	RES76	272405017108R
1"1/2	RES86	272406017109R
2"	RES101	272407017110R
2"1/2	RES101	272408017110R
3"	RES116	272409017111R

ELECTRIC

715 XS - Electric actuated stainless steel ball valve BSP

Direct mounting - CF8M body & ball - TS: -10°C/+180°C.

2-wire connection - NC		
Ø	type	code
1/2"	T15	272402022500
3/4"	T15	272403022500
1"	T15	272404022500

standard on/off execution		
Ø	type	code
1/2"	TCR02N	272402024110
3/4"	TCR02N	272403024110
1"	TCR02N	272404024110
1"1/4	TCR02N	272405024110
1"1/2	TCR05N	272406024310
2"	TCR05N	272407024310
2"1/2	TCR11N	272408024610
3"	TCR11N	272409024610

quick-acting execution		
Ø	type	code
1/2"	TCR02NH	272402024130
3/4"	TCR02NH	272403024130
1"	TCR02NH	272404024130
1"1/4	TCR02NH	272405024130
1"1/2	TCR05NH	272406024330
2"	TCR05NH	272407024330
2"1/2	TCR11NH	272408024630
3"	TCR11NH	272409024630

ELECTRIC

715 XS - Electric actuated stainless steel ball valve BSP

Direct mounting - CF8M body & ball - TS: -10°C/+180°C.

capacitor return execution - NC		
Ø	actuator	code
1/2"	TCR02NKT	272402024120
3/4"	TCR02NKT	272403024120
1"	TCR02NKT	272404024120
1"1/4	TCR02NKT	272405024120
1"1/2	TCR05NKT	272406024320
2"	TCR05NKT	272407024320
2"1/2	TCR11NKT	272408024620
3"	TCR11NKT	272409024620

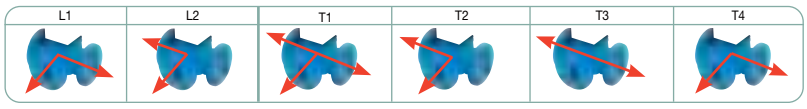
timer execution		
Ø	actuator	code
1/2"	TCR02D	272402024160
3/4"	TCR02D	272403024160
1"	TCR02D	272404024160
1"1/4	TCR02D	272405024160

standard on/off execution		
Ø	actuator	code
1/2"	SA03	272402023000
3/4"	SA03	272403023000
1"	SA03	272404023000
1"1/4	SA03	272405023000
1"1/2	SA05	272406023010
2"	SA05	272407023010
2"1/2	NA09	272408023120
3"	NA09	272409023120

Ex Zones 1 & 2 10 €/pc

ATEX execution		
Ø	actuator	code
1/2"	SA05-X	272402023310
3/4"	SA05-X	272403023310
1"	SA05-X	272404023310
1"1/4	SA05-X	272405023310
1"1/2	SA05-X	272406023310
2"	SA05-X	272407023310

3 way



T-port: mention 2 consecutive positions (example: T3/T4) - Clockwise closing - **Anti-clockwise closing option: 50 €.**

PNEUMATIC

780 XS L-port / 781 XS T-port - Pneumatic actuated 3 way stainless steel ball valve BSP

Direct mounting - CF8M body & ball - TS: -10°C/+180°C.

SIL Ex 10 €/pc

double acting		
Ø	actuator	780 XS L code
1/4"	ADA20	275400015100
3/8"	ADA20	275401015100
1/2"	ADA20	275402015100
3/4"	ADA40	275403015101
1"	ADA40	275404015101
1"1/4	ADA80	275405015102
1"1/2	ADA80	275406015102
2"	ADA130	275407015103

spring return		
Ø	actuator	780 XS L code
1/4"	ASR40	275400016101
3/8"	ASR40	275401016101
1/2"	ASR40	275402016101
3/4"	ASR80	275403016102
1"	ASR80	275404016102
1"1/4	ASR130	275405016103
1"1/2	ASR200	275406016104
2"	ASR300	275407016105

double acting		
Ø	actuator	780 XS L code
1/4"	RE43	275400017004R
3/8"	RE43	275401017004R
1/2"	RE43	275402017004R
3/4"	RE43	275403017004R
1"	RE43	275404017004R
1"1/4	RE64	275405017007R
1"1/2	RE64	275406017007R
2"	RE76	275407017008R

spring return		
Ø	actuator	780 XS L code
1/4"	RES43	275400017104R
3/8"	RES43	275401017104R
1/2"	RES43	275402017104R
3/4"*	RES64	275403017107R
1"	RES64	275404017107R
1"1/4	RES76	275405017108R
1"1/2	RES86	275406017109R
2"	RES101	275407017110R

* not direct mounting.

	780 XS L	781 XS T
code	2754**0**...	2754**2**...

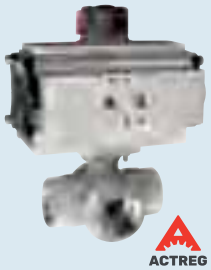
PNEUMATIC

1370 L-port / 1370 T-port - Pneumatic actuated 3 way stainless steel ball valve

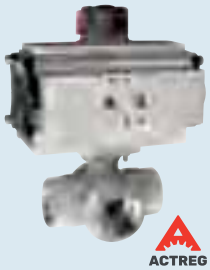
BSP

CF8M body - F316 ball - TS: -20°C/+180°C.

10 €/pc



double acting		
Ø	actuator	code
1/2"	ADA20	1370LAD015
3/4"	ADA20	1370LAD020
1"	ADA40	1370LAD025
1"1/4	ADA40	1370LAD032
1"1/2	ADA80	1370LAD040
2"	ADA130	1370LAD050



spring return		
Ø	actuator	code
1/2"	ASR40	1370LAS015
3/4"	ASR40	1370LAS020
1"	ASR80	1370LAS025
1"1/4	ASR130	1370LAS032
1"1/2	ASR200	1370LAS040
2"	ASR300	1370LAS050

double acting		
Ø	actuator	code
1/2"	PD25	1370LPD015
3/4"	PD25	1370LPD020
1"	PD25	1370LPD025
1"1/4	PD40	1370LPD032
1"1/2	PD65	1370LPD040
2"	PD65	1370LPD050

spring return		
Ø	actuator	code
1/2"	PE25	1370LPE015
3/4"	PE40	1370LPE020
1"	PE65	1370LPE025
1"1/4	PE100	1370LPE032
1"1/2	PE200	1370LPE040
2"	PE200	1370LPE050

	1370 L	1370 T
code	1370**L**...	1370**T**...

ELECTRIC

780 XS L-port - Electric actuated 3 way stainless steel ball valve

BSP

Direct mounting - CF8M body & ball - TS: -10°C/+180°C.

Ø	actuator	code
1/4"	TCR02N	275400024110
3/8"	TCR02N	275401024110
1/2"	TCR02N	275402024110
3/4"	TCR02N	275403024110
1"	TCR02N	275404024110
1"1/4	TCR05N	275405024310
1"1/2	TCR05N	275406024310
2"	TCR05N	275407024310

781 XS T-port - Electric actuated 3 way stainless steel ball valve

BSP

Direct mounting - CF8M body & ball.

Ø	actuator	code
1/4"	TCR02N	275420024110
3/8"	TCR02N	275421024110
1/2"	TCR02N	275422024110
3/4"	TCR02N	275423024110
1"	TCR02N	275424024110
1"1/4	TCR05N	275425024310
1"1/2	TCR05N	275426024310
2"	TCR05N	275427024310

Ø	actuator	code
1/4"	SA05	275400023010
3/8"	SA05	275401023010
1/2"	SA05	275402023010
3/4"	SA05	275403023010
1"	SA05	275404023010
1"1/4	SA05	275405023010
1"1/2	SA05	275406023010
2"	SA05	275407023010

Ø	actuator	code
1/4"	SA05	275420023010
3/8"	SA05	275421023010
1/2"	SA05	275422023010
3/4"	SA05	275423023010
1"	SA05	275424023010
1"1/4	SA05	275425023010
1"1/2	SA05	275426023010
2"	SA05	275427023010

Zones 1 & 2
10 €/pc

ATEX execution		
Ø	actuator	code
1/4"	SA05-X	275400023310
3/8"	SA05-X	275401023310
1/2"	SA05-X	275402023310
3/4"	SA05-X	275403023310
1"	SA05-X	275404023310
1"1/4	SA05-X	275405023310
1"1/2	SA05-X	275406023310
2"	SA05-X	275407023310

Zones 1 & 2
10 €/pc

ATEX execution		
Ø	actuator	code
1/4"	SA05-X	275420023310
3/8"	SA05-X	275421023310
1/2"	SA05-X	275422023310
3/4"	SA05-X	275423023310
1"	SA05-X	275424023310
1"1/4	SA05-X	275425023310
1"1/2	SA05-X	275426023310
2"	SA05-X	275427023310

3 piece body - S-First

2014/68/EU Directive N°0343 - Risk category II / module H - RTFE seats - Full bore - Anti-blowout stem - Locking device - PS: see tables - TS: -20°C/+180°C - ⚠ **Compressed air: 10 bar max.**

CE 0343 | 3.1 see p. 22

796 - Carbon steel BSP
797 - Carbon steel BW
798 - Carbon steel SW
796 - Carbon steel NPT

A216WCB body - F304 ball.

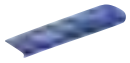
Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	63	63	63	63	40	40	40	40	25	25	20
796 code	796002	796003	796004	796005	796006	796007	796008	796009	796010	796011	796012
797 code	797008	797010	797015	797020	797025	797032	797040	797050	797065	797080	797100
798 code	798008	798010	798015	798020	798025	798032	798040	798050	798065	798080	798100
NPT code	796102	796103	796104	796105	796106	796107	796108	796109	-	-	-

790 - Stainless steel BSP
791 - Stainless steel BW
792 - Stainless steel SW
744 - Stainless steel NPT

CF8M body - F316 ball.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	63	63	63	63	40	40	40	40	25	25	20
790 code	790002	790003	790004	790005	790006	790007	790008	790009	790010	790011	790012
791 code	791008	791010	791015	791020	791025	791032	791040	791050	791065	791080	791100
792 code	792008	792010	792015	792020	792025	792032	792040	792050	792065	792080	792100
744 code	744002	744003	744004	744005	744006	744007	744008	744009	744010	744011	744012

Spare blue sleeve for 796-797-798-790-791-792-744



Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	9830583	9830583	9830584	9830584	9830585	9830585	9830586	9830586	9830587	9830587	9830588

Spare stainless steel stem extension for 796-797-798-790-791-792-744 and 730-731 (page 55)

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
height	125,50	125,50	125,50	125,50	125,50	125,50	127,50	127,50
code	9810611	9810611	9810612	9810612	9810613	9810613	9810614	9810614

3 piece body - ISO pad - S-First

Directive N°0343 - Risk category II / module H - RTFE seats - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device - PS: see table - TS: -20°C/+180°C -
⚠ **Compressed air: 10 bar max.**

CE 0343 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

740 - Stainless steel BSP
741 - Stainless steel BW
742 - Stainless steel SW
743 - Stainless steel NPT

CF8M body - F316 ball.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	63	63	63	63	40	40	40	40
740 code	740002	740003	740004	740005	740006	740007	740008	740009
741 code	-	-	741015	741020	741025	741032	741040	741050
742 code	-	-	742015	742020	742025	742032	742040	742050
743 code	-	-	743004	743005	743006	743007	743008	743009

3 piece body - ISO pad

2014/68/EU Directive N°0343 - Risk category III / module H - Stainless steel reinforced PTFE seats - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device - PS: see tables.

TA LUFT | CE 0343 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

737 - Carbon steel BSP
A216WCB body - CF8M ball - TS: -20°C/+220°C.

738 - Carbon steel BW

739 - Carbon steel SW

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	63	63	63	63	63	63	63	63	40	40	40
737 code	737002	737003	737004	737005	737006	737007	737008	737009	737010	737011	737012
738 code	738008	738010	738015	738020	738025	738032	738040	738050	738065	738080	738100
739 code	739008	739010	739015	739020	739025	739032	739040	739050	739065	739080	739100

747 - Stainless steel BSP
CF8M body & ball - TS: -30°C/+220°C.

748 - Stainless steel BW

749 - Stainless steel SW

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	63	63	63	63	63	63	63	63	40	40	40
747 code	747002	747003	747004	747005	747006	747007	747008	747009	747010	747011	747012
748 code	748008	748010	748015	748020	748025	748032	748040	748050	748065	748080	748100
749 code	749008	749010	749015	749020	749025	749032	749040	749050	749065	749080	749100

2014/68/EU Directive N°0035 - Risk category II / module H - SIL 2 (& SIL 3 capable) - RTFE seats - Stem tightness: PTFE/FKM - Full bore - Anti-blowout stem - Antistatic device - ISO pad - PS: 63 bar.

SIL | TA LUFT | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

746 XS - Stainless steel BSP
CF8M body & ball - TS: -40°C/+180°C.

745 XS - Stainless steel BW

743 XS - Stainless steel SW

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	63	63	63	63	63	63	63	63	63
746 XS code	272642	272643	272644	272645	272646	272647	272648	272649	272650
745 XS code	272662	272663	272664	272665	272666	272667	272668	272669	272670
743 XS code	272682	272683	272684	272685	272686	272687	272688	272689	272690

3 piece body - ISO pad - Steam

STEAM

2014/68/EU Directive N°0035 - Risk category II / module H - SIL 2 (& SIL 3 capable) - Stainless steel reinforced PTFE seats - Full bore - Anti-blowout stem - Antistatic device - PS: 63 bar - ⚠ **Steam up to 15 bar max. / 200°C.**

SIL | TA LUFT | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

737 XS - Carbon steel BSP
A216WCB body - CF8M ball - TS: -25°C/+220°C.

738 XS - Carbon steel BW

739 XS - Carbon steel SW

FIRE SAFE

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	63	63	63	63	63	63
737XS code	271202	271203	271204	271205	271206	271207
738XS code	271212	271213	271214	271215	271216	271217
739XS code	271232	271233	271234	271235	271236	271237

747 XS - Stainless steel BSP
CF8M body & ball - TS: -40°C/+220°C.

748 XS - Stainless steel BW

749 XS - Stainless steel SW

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	63	63	63	63	63	63
747XS code	272702	272703	272704	272705	272706	272707
748XS code	272732	272733	272734	272735	272736	272737
749XS code	272752	272753	272754	272755	272756	272757

3 piece body - ISO pad - Fire safe

OIL & GAS

2014/68/EU Directive N°0343 - Risk category III / module H - Fire safe ISO 10497 & API 607 -
PTFE + 25% carbon seats - Anti-blowout stem - Antistatic device - ISO pad - Locking device - PS: see tables -
⚠ **Steam up to 18 bar max.**

FIRE SAFE | 0343 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

Reduced bore

702R - Carbon steel

BSP BW SW NPT

A216WCB body - CF8M ball - TS: -20°C/+220°C.

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	140	140	140	140	100	100
BSP code	702R004	702R005	702R006	702R007	702R008	702R009
BW code	702R115	702R120	702R125	702R132	702R140	702R150
SW code	702R215	702R220	702R225	702R232	702R240	702R250
NPT code	702R304	702R305	702R306	702R307	702R308	702R309

703R - Stainless steel

BSP BW SW NPT

CF8M body & ball - TS: -30°C/+220°C.

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	140	140	140	140	100	100
BSP code	703R004	703R005	703R006	703R007	703R008	703R009
BW code	703R115	703R120	703R125	703R132	703R140	703R150
SW code	703R215	703R220	703R225	703R232	703R240	703R250
NPT code	703R304	703R305	703R306	703R307	703R308	703R309

Full bore

702 - Carbon steel

BSP BW SW NPT

A216WCB body - CF8M ball - TS: -20°C/+220°C.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	140	140	140	140	140	100	100	100
BSP code	702002	702003	702004	702005	702006	702007	702008	702009
BW code	702108	702110	702115	702120	702125	702132	702140	702150
SW code	702208	702210	702215	702220	702225	702232	702240	702250
NPT code	702302	702303	702304	702305	702306	702307	702308	702309

703 - Stainless steel

BSP BW SW NPT

CF8M body & ball - TS: -30°C/+220°C.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	140	140	140	140	140	100	100	100
BSP code	703002	703003	703004	703005	703006	703007	703008	703009
BW code	703108	703110	703115	703120	703125	703132	703140	703150
SW code	703208	703210	703215	703220	703225	703232	703240	703250
NPT code	703302	703303	703304	703305	703306	703307	703308	703309

Full bore - Direct mounting

702DM - Carbon steel

SW

A216WCB body - CF8M ball - TS: -20°C/+220°C - Not ABS approved.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	140	140	140	140	140	100	100	100
SW code	702DM208	702DM210	702DM215	702DM220	702DM225	702DM232	702DM240	702DM250

703DM - Stainless steel

SW

CF8M body & ball - TS: -30°C/+220°C - Not ABS approved.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	140	140	140	140	140	100	100	100
SW code	703DM208	703DM210	703DM215	703DM220	703DM225	703DM232	703DM240	703DM250

Spare stainless steel oval wheel for 702-703

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	9830440	9830440	9830441	9830441	9830442	9830442	9830443	9830475

Spare stainless steel stem extension for 702-703

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	9830471	9830471	9830472	9830472	9830473	9830474

HIGH PRESSURE

2014/68/EU Directive N°0035 - Risk category III / module H - SIL 2 (& SIL 3 capable) - Fire safe API 607 - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device - PS: 137 bar.

NACE MR0175 | SIL | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

702 XS-F - Carbon steel SW

A216WCB body - F316 ball - **PTFE seats + 50% stainless steel** - Stem tightness: PTFE + 50% stainless steel - TS: -20°C/+220°C.
⚠ **Steam up to 15 bar / +200°C.**

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	137	137	137	137	137	137
code	271342	271343	271344	271345	271346	271347

FIRE SAFE

702 XS-P - Carbon steel SW

A216WCB body - F316 ball - **PEEK seats** - Stem tightness: PEEK + graphite - TS: -10°C/+250°C .
⚠ **Steam up to 25 bar / +226°C.**

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	137	137	137	137	137	137
code	271362	271363	271364	271365	271366	271367

FIRE SAFE

703 XS - Stainless steel BSP BW

CF8M body - F316 ball - PTFE seats + 50% stainless steel - Stem tightness: PTFE + 50% stainless steel - TS: -30°C/+220°C.
⚠ **Steam up to 15 bar / +200°C.**

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	137	137	137	137	137	137
BSP code	271372	271373	271374	271375	271376	271377
BW code	271382	271383	271384	271385	271386	271387

3 piece body - Forged valves

2014/68/EU Directive N°0036 - Risk category III / module H - API Spec 6D-0286 - Fire safe API 607 - F316 stem - Full bore - Anti-blowout stem - Antistatic device - ISO pad.
⚠ **Steam up to 16 bar.**

API 6D 0286 | FIRE SAFE | CE 0036 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

745 - Carbon steel - 800 lbs SW NPT

A105N body - F316 ball - RTFE seats - PS: 136 bar - TS: -29°C/+200°C.

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"
SW code	745115	745120	745125	745132	745140	745150
NPT code	745004	745005	745006	745007	745008	745009

FOOD Rotating ends 3 piece ball valves

Guarantee 5 Years

2014/68/EU Directive - Risk category III / module H - Fugitive emissions ISO 15848-1 - SIL 2 (& SIL 3 capable) - 1935/2004 Regulation, FDA - CF3M ball - TFM™ 1600 V-ring gland packing - Anti-blowout stem - Double antistatic device - ISO pad - Ball Ra: 0.4 µm - PS: 63 bar up to 1''1/2, 50 bar above - TS: -50/+210°C.

CE1935 | FDA | SIL | FUGITIVE EMISSIONS | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

ELIT - Stainless steel BW ISO SW BSP

1.4409 body - **TFM™ 1600 seat** - Full bore - Ra 0.8 µm.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
BW-ISO code	ELITBW08	ELITBW12	ELITBW15	ELITBW20	ELITBW25	ELITBW32	ELITBW40	ELITBW50
SW code	ELITSW08	ELITSW12	ELITSW15	ELITSW20	ELITSW25	ELITSW32	ELITSW40	ELITSW50
BSP code	ELITBSP08	ELITBSP12	ELITBSP15	ELITBSP20	ELITBSP25	ELITBSP32	ELITBSP40	ELITBSP50
	232,43	251,75	282,30	349,13	534,50	568,70	799,58	1232,63

More rotating ends 3 piece ball valve solutions, see page 289

3 piece body control valves - V-port ball

2014/68/EU Directive Nº0035 - Risk category III / module H - Full bore - Anti-blowout stem - Antistatic device - Stainless steel graduated arcade 0-90º with blocking screw - PS: 63 bar.

CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

746 XS V - Stainless steel BSP

CF8M body & ball - RTFE seats - TS: -40°C/+180°C.

TA LUFT

Ø	1/2"	3/4"	1"	1"1/2	2"
PS (bar)	63	63	63	63	63
Kv (m³/h)	5,1	6,8	13,7	25,3	38,4
30° V-ball code	272642V3	272643V3	272644V3	272646V3	272647V3
Kv (m³/h)	10,1	14,5	24,5	47,9	81,4
60° V-ball code	272642V6	272643V6	272644V6	272646V6	272647V6

also available	746 XS BSP	745 XS BW	743 XS SW
code	272**64**...	272**66**...	272**68**...

703 XS V - Stainless steel BSP BW

CF8M body & ball - F316 ball - PTFE seats + 50% stainless steel- TS: -30°C/+180°C.

Ø	1/2"	3/4"	1"	1"1/2	2"
PS (bar)	137	137	137	137	137
Kv (m³/h)	5,1	6,8	13,7	25,3	38,4
30° V-ball code	271372V3	271373V3	271374V3	271376V3	271377V3
Kv (m³/h)	10,1	14,5	24,5	47,9	81,4
60° V-ball code	271372V6	271373V6	271374V6	271376V6	271377V6

also available	703 XS BSP	703 XS BW
code	271**37**...	271**38**...

Manual valves with limit switch box

Manual ball valves equipped with SF012 limit switch box IP67 - SPDT 250V-5A (see features of the limit switch box page 179).

746 XS - Stainless steel BSP

CF8M body - RTFE seats - Full bore - PS: 63 bar - TS: -40°C/+180°C.

Ø	746XS code
1/4"	2725000462012
3/8"	2725010462012
1/2"	2726420462012
3/4"	2726430462012
1"	2726440462012
1"1/4	2726450462012
1"1/2	2726460462012
2"	2726470462012
2"1/2	2726480462012
3"	2726490462012
4"	2726500462012

Ex on request

also available	746 XS BSP	745 XS BW	743 XS SW
code	272**64**...	272**66**...	272**68**...

703 XS - Stainless steel BSP BW

CF8M body - PTFE seats + 50% stainless steel - Full bore - PS: 137 bar - TS: -30°C/+220°C.

Ø	BSP code
1/2"	2713720462012
3/4"	2713730462012
1"	2713740462012
1"1/4	2713750462012
1"1/2	2713760462012
2"	2713770462012

Ex on request

also available	703 XS BSP	703 XS BW
code	271**37**...	271**38**...

STEAM

737 XS - Carbon steel BSP

CF8M body - Stainless steel reinforced PTFE - Full bore - PS: 63 bar - TS: -25°C/+220°C.

⚠ **Steam up to 15 bar / +200°C.**

Ø	code
1/2"	2712020462012
3/4"	2712030462012
1"	2712040462012
1"1/4	2712050462012
1"1/2	2712060462012
2"	2712070462012

Ex on request

also available	737 XS BSP	738 XS BW	739 XS SW
code	271**20**...	272**21**...	272**23**...

STEAM

747 XS - Stainless steel BSP

CF8M body - Stainless steel reinforced PTFE - Full bore - PS: 63 bar - TS: -40°C/+220°C.

⚠ **Steam up to 15 bar / +200°C.**

Ø	code
1/2"	2727020462012
3/4"	2727030462012
1"	2727040462012
1"1/4	2727050462012
1"1/2	2727060462012
2"	2727070462012

Ex on request

also available	747 XS BSP	748 XS BW	749 XS SW
code	272**70**...	272**73**...	272**75**...

3 piece body

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
All our electric actuated ball valves are equipped with a 230V AC actuator as standard - Other power supply on request, please consult.
⚠ **ΔP max.: 10 bar** - Actuators & automation complements, see page 169.

746 XS - Pneumatic actuated stainless steel ball valve BSP

Direct mounting - CF8M body & ball - TS: -40°C/+180°C.

Ex 10 €/pc

double acting		
Ø	actuator	code
1/4"	NK52	272500010002
3/8"	NK52	272501010002
1/2"	NK52	272642010002
3/4"	NK52	272643010002
1"	NK52	272644010002
1"1/4	NK52	272645010002
1"1/2	NK63	272646010003
2"	NK63	272647010003
2"1/2	NK83	272648010005
3"	NK83	272649010005
4"	NK83	272650010005

spring return		
Ø	actuator	code
1/4"	NKS52	272500010102
3/8"	NKS52	272501010102
1/2"	NKS52	272642010102
3/4"	NKS52	272643010102
1"	NKS52	272644010102
1"1/4	NKS83	272645010105
1"1/2	NKS83	272646010105
2"	NKS83	272647010105
2"1/2	NKS83	272648010105
3"	NKS92	272649010106
4"	NKS92	272650010106

SIL Ex 10 €/pc

ACTREG

double acting		
Ø	actuator	code
1/2"	ADA20	272642015100
3/4"	ADA20	272643015100
1"	ADA20	272644015100
1"1/4	ADA20	272645015100
1"1/2	ADA40	272646015101
2"	ADA80	272647015102
2"1/2	ADA80	272648015102
3"	ADA130	272649015103
4"	ADA200	272650015104

ACTREG

spring return		
Ø	actuator	code
1/2"	ASR20	272642016100
3/4"	ASR20	272643016100
1"	ASR40	272644016101
1"1/4	ASR80	272645016102
1"1/2	ASR130	272646016103
2"	ASR200	272647016104
2"1/2	ASR200	272648016104
3"	ASR300	272649016105
4"	ASR300	272650016105

SIL Ex 10 €/pc

Alphair

double acting		
Ø	actuator	code
1/4"	RE43	272500017004R
3/8"	RE43	272501017004R
1/2"	RE43	272642017004R
3/4"	RE43	272643017004R
1"	RE43	272644017004R
1"1/4	RE51	272645017006R
1"1/2	RE64	272646017007R
2"	RE76	272647017008R
2"1/2	RE76	272648017008R
3"	RE86	272649017009R
4"	RE101	272650017010R

Alphair

spring return		
Ø	actuator	code
1/4"	RES43	272500017104R
3/8"	RES43	272501017104R
1/2"	RES43	272642017104R
3/4"	RES51	272643017106R
1"	RES64	272644017107R
1"1/4	RES76	272645017108R
1"1/2	RES86	272646017109R
2"	RES101	272647017110R
2"1/2	RES101	272648017110R
3"	RES116	272649017111R
4"	RES116	272650017111R

also available	746 XS BSP	745 XS BW	743 XS SW
code	27264...	27266...	27268...

PNEUMATIC

PNEUMATIC

737 XS - Pneumatic actuated carbon steel ball valve BSP

Direct mounting - A216WCB body - CF8M ball - TS: -25°C/+220°C.

SIL | FIRE SAFE | Ex 10 €/pc

Alphair

double acting		
Ø	actuator	code
1/2"	RE51	271202017106RD
3/4"	RE51	271203017006RD
1"	RE51	271204017006RD
1"1/4	RE51	271205017006RD
1"1/2	RE64	271206017007RD
2"	RE76	271207017008RD

Alphair

spring return		
Ø	actuator	code
1/2"	RES51	271202017106RD
3/4"	RES64	271203017107RD
1"	RES64	271204017107RD
1"1/4	RES76	271205017108RD
1"1/2	RES86	271206017109RD
2"	RES101	271207017110RD

also available	737 XS BSP	738 XS BW	739 XS SW
code	27120...	27121...	27123...

3 piece body - Steam

PNEUMATIC

STEAM

737 XS - Pneumatic actuated carbon steel ball valve BSP

A216WCB body - CF8M ball - TS: -25°C/+220°C.

⚠ **Steam use: PS: 15 bar / TS: +200°C.**

SIL | FIRE SAFE | Ex 10 €/pc

ACTREG

double acting		
Ø	actuator	code
1/2"	ADA20	271202015100
3/4"	ADA20	271203015100
1"	ADA20	271204015100
1"1/4	ADA20	271205015100
1"1/2	ADA40	271206015101
2"	ADA80	271207015102

ACTREG

spring return		
Ø	actuator	code
1/2"	ASR20	271202016100
3/4"	ASR40	271203016101
1"	ASR40	271204016101
1"1/4	ASR80	271205016102
1"1/2	ASR130	271206016103
2"	ASR200	271207016104

Alphair

double acting		
Ø	actuator	code
1/2"	RE51	271202017006R
3/4"	RE51	271203017006R
1"	RE51	271204017006R
1"1/4	RE51	271205017006R
1"1/2	RE64	271206017007R
2"	RE76	271207017008R

Alphair

spring return		
Ø	actuator	code
1/2"	RES51	271202017106R
3/4"	RES64	271203017107R
1"	RES64	271204017107R
1"1/4	RES76	271205017108R
1"1/2	RES86	271206017109R
2"	RES101	271207017110R

also available	737 XS BSP	738 XS BW	739 XS SW
code	27120...	27121...	27123...

PNEUMATIC

STEAM

747 XS - Pneumatic actuated stainless steel ball valve BSP

CF8M body & ball - TS: -40°C/+220°C.

⚠ **Steam use: PS: 15 bar / TS: +200°C.**

SIL | Ex 10 €/pc

ACTREG

double acting		
Ø	actuator	code
1/2"	ADA20	272702015100
3/4"	ADA20	272703015100
1"	ADA20	272704015100
1"1/4	ADA20	272705015100
1"1/2	ADA40	272706015101
2"	ADA80	272707015102

ACTREG

spring return		
Ø	actuator	code
1/2"	ASR20	272702016100
3/4"	ASR40	272703016101
1"	ASR40	272704016101
1"1/4	ASR80	272705016102
1"1/2	ASR130	272706016103
2"	ASR200	272707016104

Alphair

double acting		
Ø	actuator	code
1/2"	RE51	272702017006R
3/4"	RE51	272703017006R
1"	RE51	272704017006R
1"1/4	RE51	272705017006R
1"1/2	RE64	272706017007R
2"	RE76	272707017008R

Alphair

spring return		
Ø	actuator	code
1/2"	RES51	272702017106R
3/4"	RES64	272703017107R
1"	RES64	272704017107R
1"1/4	RES76	272705017108R
1"1/2	RES86	272706017109R
2"	RES101	272707017110R

also available	747 XS BSP	748 XS BW	749 XS SW
code	27270...	27273...	27275...

3 piece body - Fire safe

702 - Pneumatic actuated carbon steel ball valve BSP

A216WCB body - CF8M ball - TS: -20°C/+218°C.

10 €/pc

ACTREG

double acting		
Ø	actuator	code
1/4"	ADA20	271540015100
3/8"	ADA20	271541015100
1/2"	ADA20	271542015100
3/4"	ADA20	271543015100
1"	ADA20	271544015100
1"1/4	ADA40	271545015101
1"1/2	ADA40	271546015101
2"	ADA80	271547015102

ACTREG

spring return		
Ø	actuator	code
1/4"	ASR20	271540016100
3/8"	ASR20	271541016100
1/2"	ASR20	271542016100
3/4"	ASR40	271543016101
1"	ASR40	271544016101
1"1/4	ASR80	271545016102
1"1/2	ASR130	271546016103
2"	ASR200	271547016104

Alphair

double acting		
Ø	actuator	code
1/4"	RE51	271540017006R
3/8"	RE51	271541017006R
1/2"	RE51	271542017006R
3/4"	RE51	271543017006R
1"	RE51	271544017006R
1"1/4	RE64	271545017007R
1"1/2	RE64	271546017007R
2"	RE76	271547017008R

Alphair

spring return		
Ø	actuator	code
1/4"	RES51	271540017106R
3/8"	RES51	271541017106R
1/2"	RES64	271542017107R
3/4"	RES64	271543017107R
1"	RES76	271544017108R
1"1/4	RES76	271545017108R
1"1/2	RES86	271546017109R
2"	RES101	271547017110R

also available	702 BSP	702 BW	702 SW	702 NPT
code	27154...	27156...	27158...	27159...

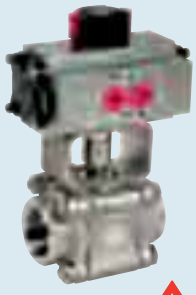
703 - Pneumatic actuated stainless steel ball valve BSP

CF8M body & ball - TS: -30°C/+218°C.

10 €/pc

ACTREG

double acting		
Ø	actuator	code
1/4"	ADA20	272240015100
3/8"	ADA20	272241015100
1/2"	ADA20	272242015100
3/4"	ADA20	272243015100
1"	ADA20	272244015100
1"1/4	ADA40	272245015101
1"1/2	ADA40	272246015101
2"	ADA80	272247015102



ACTREG

spring return		
Ø	actuator	code
1/4"	ASR20	272240016100
3/8"	ASR20	272241016100
1/2"	ASR20	272242016100
3/4"	ASR40	272243016101
1"	ASR40	272244016101
1"1/4	ASR80	272245016102
1"1/2	ASR130	272246016103
2"	ASR200	272247016104

Alphair

double acting		
Ø	actuator	code
1/4"	RE51	272240017006R
3/8"	RE51	272241017006R
1/2"	RE51	272242017006R
3/4"	RE51	272243017006R
1"	RE51	272244017006R
1"1/4	RE64	272245017007R
1"1/2	RE64	272246017007R
2"	RE76	272247017008R

Alphair

spring return		
Ø	actuator	code
1/4"	RES51	272240017106R
3/8"	RES51	272241017106R
1/2"	RES64	272242017107R
3/4"	RES64	272243017107R
1"	RES76	272244017108R
1"1/4	RES76	272245017108R
1"1/2	RES86	272246017109R
2"	RES101	272247017110R

also available	703 BSP	703 BW	703 SW	703 NPT
code	27224...	27226...	27228...	27225...

PNEUMATIC

PNEUMATIC

HIGH PRESSURE 702 XS-F - Pneumatic actuated carbon steel ball valve

Direct mounting - A216WCB body - F316 ball - **PTFE seats + 50% stainless steel** - TS: -20°C/+220°C - ⚠ **Max. ΔP: 20 bar.**

SIL Ex 10 €/pc

double acting		
Ø	actuator	code
1/2"	RE51	271342017006R
3/4"	RE51	271343017006R
1"	RE51	271344017006R
1"1/4	RE64	271345017007R
1"1/2	RE76	271346017008R
2"	RE86	271347017009R

spring return		
Ø	actuator	code
1/2"	RES51	271342017106R
3/4"	RES51	271343017106R
1"	RES64	271344017107R
1"1/4	RES86	271345017109R
1"1/2	RES86	271346017109R
2"	RES101	271347017110R

PNEUMATIC

HIGH PRESSURE HIGH TEMPERATURE 702 XS-P - Pneumatic actuated carbon steel ball valve

A216WCB body - F316 ball - **PEEK seats** - TS:-20/+250 °C - ⚠ **Max. ΔP: 20 bar.**

SIL Ex 10 €/pc

double acting		
Ø	actuator	code
1/2"	RE51	271362017006R
3/4"	RE64	271363017007R
1"	RE86	271364017009R
1"1/4	RE86	271365017009R
1"1/2	RE101	271366017010R
2"	RE126	271367017012R

spring return		
Ø	actuator	code
1/2"	RES76	271362017108R
3/4"	RES76	271363017108R
1"	RES101	271364017110R
1"1/4	RES101	271365017110R
1"1/2	RES116	271366017111R
2"	RES146	271367017113R

PNEUMATIC

HIGH PRESSURE 703 XS - Pneumatic actuated stainless steel ball valve

Direct mounting - CF8M body - F316 ball - **PTFE seats + 50% stainless steel** - TS: -20°C/+180°C - ⚠ **Max. ΔP: 20 bar.**

SIL Ex 10 €/pc

double acting		
Ø	actuator	code
1/2"	RE51	271372017006R
3/4"	RE51	271373017006R
1"	RE51	271374017006R
1"1/4	RE64	271375017007R
1"1/2	RE76	271376017008R
2"	RE86	271377017009R

spring return		
Ø	actuator	code
1/2"	RES51	271372017106R
3/4"	RES51	271373017106R
1"	RES64	271374017107R
1"1/4	RES86	271375017109R
1"1/2	RES86	271376017109R
2"	RES101	271377017110R

also available	703 XS BSP	703 XS BW
code	27137...	27138...

3 piece body

ELECTRIC

737 XS - Electric actuated carbon steel ball valve

A216WCB body - CF8M ball - TS: -25°C/+180°C.

Ø	actuator	code
1/2"	TCR02N	271202024110
3/4"	TCR02N	271203024110
1"	TCR02N	271204024110
1"1/4	TCR05N	271205024310
1"1/2	TCR05N	271206024310
2"	TCR05N	271207024310

also available	737 XS BSP	738 XS BW	739 XS SW
code	27120...	27121...	27123...

Ø	actuator	code
1/2"	SA03	271202023000D
3/4"	SA03	271203023000D
1"	SA03	271204023000D
1"1/4	SA05	271205023010D
1"1/2	SA05	271206023010D
2"	SA05	271207023010D

746 XS - Electric actuated stainless steel ball valve BSP

CF8M body & ball - TS: -40°C/+180°C.

standard on/off execution		
Ø	actuator	code
1/4"	TCR02N	272500024110
3/8"	TCR02N	272501024110
1/2"	TCR02N	272642024110
3/4"	TCR02N	272643024110
1"	TCR02N	272644024110
1"1/4	TCR05N	272645024310
1"1/2	TCR05N	272646024310
2"	TCR05N	272647024310
2"1/2	TCR11N	272648024610
3"	TCR11N	272649024610
4"	TCR11N	272650024610

Quick-acting execution		
Ø	actuator	code
1/4"	TCR05NH	272500024330
3/8"	TCR05NH	272501024330
1/2"	TCR05NH	272642024330
3/4"	TCR05NH	272643024330
1"	TCR05NH	272644024330
1"1/4	TCR05NH	272645024330
1"1/2	TCR05NH	272646024330
2"	TCR05NH	272647024330
2"1/2	TCR11NH	272648024630
3"	TCR11NH	272649024630
4"	TCR11NH	272650024630

capacitor return execution - NC		
Ø	actuator	code
1/4"	TCR02NKT	272500024120
3/8"	TCR02NKT	272501024120
1/2"	TCR02NKT	272642024120
3/4"	TCR02NKT	272643024120
1"	TCR02NKT	272644024120
1"1/4	TCR05NKT	272645024320
1"1/2	TCR05NKT	272646024320
2"	TCR05NKT	272647024320
2"1/2	TCR11NKT	272648024620
3"	TCR11NKT	272649024620
4"	TCR11NKT	272650024620

timer execution		
Ø	actuator	code
1/4"	TCR02D	272500024160
3/8"	TCR02D	272501024160
1/2"	TCR02D	272642024160
3/4"	TCR02D	272643024160
1"	TCR02D	272644024160

standard on/off execution		
Ø	actuator	code
1/4"	SA03	272500023000
3/8"	SA03	272501023000
1/2"	SA03	272642023000
3/4"	SA03	272643023000
1"	SA05	272644023010
1"1/4	SA05	272645023010
1"1/2	SA05	272646023010
2"	SA05	272647023010
2"1/2	NA09	272648023120
3"	NA09	272649023120
4"	NA15	272650023130

also available	746 XS BSP	745 XS BW	743 XS SW
code	27264...	27266...	27268...

Ex Zones 1 & 2 10 €/pc

ATEX execution		
Ø	actuator	code
1/4"	SA05-X	272500023310
3/8"	SA05-X	272501023310
1/2"	SA05-X	272642023310
3/4"	SA05-X	272643023310
1"	SA05-X	272644023310
1"1/4	SA05-X	272645023310
1"1/2	SA05-X	272646023310
2"	SA05-X	272647023310

3 piece body - Steam

STEAM

737 XS & 739 XS - Electric actuated carbon steel ball valve BSP SW

A216WCB body - CF8M ball - TS: -25°C/+220°C - ⚠ **Steam use: PS: 15 bar / TS: +200°C.**

FIRE SAFE | Ex Zones 1 & 2 on request

Ø	actuator	BSP code
1/2"	SA05	271202023010
3/4"	SA05	271203023010
1"	SA05	271204023010
1"1/4	SA05	271205023010
1"1/2	SA05	271206023010
2"	SA05	271207023010

DN	actuator	SW code
15	SA05	271232023010
20	SA05	271233023010
25	SA05	271234023010
32	SA05	271235023010
40	SA05	271236023010
50	SA05	271237023010

ELECTRIC

STEAM 747 XS & 749 XS - Electric actuated stainless steel ball valve BSP SW

CF8M body & ball - TS: -40°C/+220°C - ⚠ **Steam use: PS: 15 bar / TS: +200°C.**

Zones 1 & 2 on request

Ø	actuator	BSP code
1/2"	SA05	272702023010
3/4"	SA05	272703023010
1"	SA05	272704023010
1"1/4	SA05	272705023010
1"1/2	SA05	272706023010
2"	SA05	272707023010

DN	actuator	SW code
15	SA05	272752023010
20	SA05	272753023010
25	SA05	272754023010
32	SA05	272755023010
40	SA05	272756023010
50	SA05	272757023010

3 piece body - Fire safe

ELECTRIC

702 - Electric actuated carbon steel ball valve BSP

A216WCB body - CF8M ball - TS: -20°C/+218°C.

Ø	actuator	code
1/4"	SA05	271540023010
3/8"	SA05	271541023010
1/2"	SA05	271542023010
3/4"	SA05	271543023010
1"	SA05	271544023010
1"1/4	SA05	271545023010
1"1/2	SA05	271546023010
2"	SA05	271547023010

also available	702 BSP	702 BW	702 SW	702 NPT
code	27154...	27156...	27158...	27159...

Zones 1 & 2 10 €/pc

Ø	actuator	ATEX code
1/4"	SA05-X	271540023310
3/8"	SA05-X	271541023310
1/2"	SA05-X	271542023310
3/4"	SA05-X	271543023310
1"	SA05-X	271544023310
1"1/4	SA05-X	271545023310
1"1/2	SA05-X	271546023310
2"	SA05-X	271547023310

ELECTRIC

703 - Electric actuated stainless steel ball valve BSP

CF8M body & ball - TS: -30°C/+218°C.

Ø	actuator	code
1/4"	SA05	272240023010
3/8"	SA05	272241023010
1/2"	SA05	272242023010
3/4"	SA05	272243023010
1"	SA05	272244023010
1"1/4	SA05	272245023010
1"1/2	SA05	272246023010
2"	SA05	272247023010

also available	703 BSP	703 BW	703 SW	703 NPT
code	27224...	27226...	27228...	27225...

Zones 1 & 2 10 €/pc

Ø	actuator	ATEX code
1/4"	SA05-X	272240023310
3/8"	SA05-X	272241023310
1/2"	SA05-X	272242023310
3/4"	SA05-X	272243023310
1"	SA05-X	272244023310
1"1/4	SA05-X	272245023310
1"1/2	SA05-X	272246023310
2"	SA05-X	272247023310

ELECTRIC

703 XS - Electric actuated stainless steel ball valve BSP

Direct mounting - CF8M body - F316 ball - TS: -20°C/+180°C.

standard on/off execution		
Ø	actuator	code
1/2"	TCR02N	271372024110
3/4"	TCR02N	271373024110
1"	TCR02N	271374024110
1"1/4	TCR05N	271375024310
1"1/2	TCR05N	271376024310
2"	TCR05N	271377024310

capacitor return execution - NC		
Ø	actuator	code
1/2"	TCR02NKT	271372024120
3/4"	TCR02NKT	271373024120
1"	TCR02NKT	271374024120
1"1/4	TCR05NKT	271375024320
1"1/2	TCR05NKT	271376024320
2"	TCR05NKT	271377024320

703 XS - Electric actuated stainless steel ball valve BSP

Direct mounting - CF8M body - F316 ball - TS: -20°C/+180°C.

Ø	actuator	code
1/2"	SA05	271372023010
3/4"	SA05	271373023010
1"	SA05	271374023010
1"1/4	SA05	271375023010
1"1/2	SA05	271376023010
2"	NA06	271377023110

also available	703 XS BSP	703 XS BW
code	27137...	27138...

Ex Zones 1 & 2 10 €/pc

Ø	actuator	code
1/2"	SA05-X	271372023310
3/4"	SA05-X	271373023310
1"	SA05-X	271374023310
1"1/4	SA05-X	271375023310
1"1/2	SA05-X	271376023310
2"	NA06-X	271377023320

ELECTRIC

V-port control valves

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
All our electric actuated ball valves are equipped with a 230V AC actuator as standard - Other power supply on request, please consult.
⚠ **ΔP max.: 10 bar** - Actuators & automation complements, see page 169.

PNEUMATIC

746 XS V - Pneumatic actuated V-port stainless steel ball valve BSP

+ RES spring return pneumatic actuator + YT 3300 electropneumatic smart positioner 4-20 mA.

Ø	V-ball	Kv (m³/h)	actuator	code
1/2"	30°	5,1	RES43	272642017104RV34
3/4"	30°	6,8	RES51	272643017106RV34
1"	30°	13,7	RES64	272644017107RV34
1"1/2	30°	25,3	RES86	272646017109RV34
2"	30°	38,4	RES101	272647017110RV34

also available	746 XS BSP	745 XS BW	743 XS SW
code	27264...	27266...	27268...

Ø	V-ball	Kv (m³/h)	actuator	code
1/2"	60°	10,1	RES43	272642017104RV64
3/4"	60°	14,5	RES51	272643017106RV64
1"	60°	24,5	RES64	272644017107RV64
1"1/2	60°	47,9	RES86	272646017109RV64
2"	60°	81,4	RES101	272647017110RV64

PNEUMATIC

703 XS V - Pneumatic actuated V-port stainless steel ball valve BSP

+ RES spring return pneumatic actuator + YT 3300 electropneumatic smart positioner 4-20 mA.

Ø	V-ball	Kv (m³/h)	actuator	code
1/2"	30°	5,1	RES51	271372017106RV34
3/4"	30°	6,8	RES51	271373017106RV34
1"	30°	13,7	RES64	271374017107RV34
1"1/2	30°	25,3	RES86	271376017109RV34
2"	30°	38,4	RES101	271377017110RV34

also available	703 XS BSP	703 XS BW
code	27137...	27138...

Ø	V-ball	Kv (m³/h)	actuator	code
1/2"	60°	10,1	RES51	271372017106RV64
3/4"	60°	14,5	RES51	271373017106RV64
1"	60°	24,5	RES64	271374017107RV64
1"1/2	60°	47,9	RES86	271376017109RV64
2"	60°	81,4	RES101	271377017110RV64

ELECTRIC

746 XS V - Electric actuated V-port stainless steel ball valve BSP

+ TCR-T electric actuator.

Ø	V-ball	Kv (m³/h)	actuator	code
1/2"	30°	5,1	TCR 02T	272642024150V3
3/4"	30°	6,8	TCR 02T	272643024150V3
1"	30°	13,7	TCR 02T	272644024150V3
1"1/2	30°	29,3	TCR 05T	272646024350V3
2"	30°	38,4	TCR 05T	272647024350V3

also available	746 XS BSP	745 XS BW	743 XS SW
code	27264...	27266...	27268...

Ø	V-ball	Kv (m³/h)	actuator	code
1/2"	60°	10,1	TCR 02T	272642024150V6
3/4"	60°	14,5	TCR 02T	272643024150V6
1"	60°	24,5	TCR 02T	272644024150V6
1"1/2	60°	47,9	TCR 05T	272646024350V6
2"	60°	81,4	TCR 05T	272647024350V6

ELECTRIC

703 XS V - Electric actuated V-port stainless steel ball valve BSP

+ SA05-PCU electric actuator.

DN	V-ball	Kv (m³/h)	actuator	code
1/2"	30°	5,1	SA05-PCU	271372023050V3P
3/4"	30°	6,8	SA05-PCU	271373023050V3P
1"	30°	13,7	SA05-PCU	271374023050V3P
1"1/2	30°	29,3	SA05-PCU	271376023050V3P

also available	703 XS BSP	703 XS BW
code	27137...	27138...

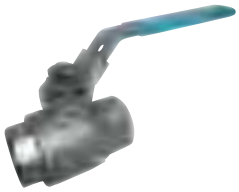
DN	V-ball	Kv (m³/h)	actuator	code
1/2"	60°	10,1	SA05-PCU	271372023050V6P
3/4"	60°	14,5	SA05-PCU	271373023050V6P
1"	60°	24,5	SA05-PCU	271374023050V6P
1"1/2	60°	47,9	SA05-PCU	271376023050V6P

ELECTRIC

2 piece body

2014/68/EU Directive N°0035 - Risk category II / module H - RTFE seats - Full bore - Locking device - PS: 69 bar - TS: -20°C/+180°C.

CE 0035 | 3.1 see p. 22



231 A IIT (V20) **- Stainless steel** BSP

CF8M body - F316 ball from 1/4'' to 2'', CF8M above.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	69	69	69	69	69	69	69	69	69	69	69
code	231AIIT008	231AIIT010	231AIIT015	231AIIT020	231AIIT025	231AIIT032	231AIIT040	231AIIT050	231AIIT065	231AIIT080	231AIIT100

2014/68/EU Directive N°0035 - Risk category II / module H - RTFE seats - Full bore - Antistatic device - Locking device - PS: see table - TS: -20°C/+180°C.

CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

212 A IIT (V20) **- Stainless steel** NPT

CF8M body - F316 ball from 1/4'' to 2'', CF8M above.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	138	138	138	138	138	103	103	103
code	212AIIT008	212AIIT010	212AIIT015	212AIIT020	212AIIT025	212AIIT032	212AIIT040	212AIIT050

3 piece body - ISO pad

2014/68/EU Directive N°0035 - Risk category II / module H - PTFE seats - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device - PS: see table - TS: -20°C/+180°C.

CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

351 BA IIT (V55A) **- Stainless steel** BSP

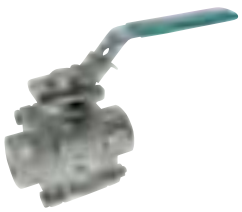
352 BA IIT (V55A) **- Stainless steel** BW

CF8M body - CF8M ball from 1/4'' to 3/8'' and from 2''1/2 to 2", F316 ball from 1/2'' to 2".

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	69	69	69	69	69	69	69	69	55	55	55
BSP code	351BAIIT008	351BAIIT010	351BAIIT015	351BAIIT020	351BAIIT025	351BAIIT032	351BAIIT040	351BAIIT050	351BAIIT065	351BAIIT080	351BAIIT100
BW code	352BAIIT008	352BAIIT010	352BAIIT015	352BAIIT020	352BAIIT025	352BAIIT032	352BAIIT040	352BAIIT050	352BAIIT065	352BAIIT080	352BAIIT100

2014/68/EU Directive N°0035 - Risk category II / module H - NACE MR0175 - RTFE seats - V-ring chevron packing - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device - PS: see table - TS: -20°C/+180°C.

TA LUFT | NACE MR0175 | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition



391 BA IIT (V88) **- Stainless steel** BSP

392 BA IIT (V88) **- Stainless steel** BW

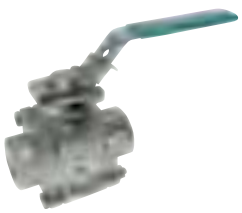
CF8M body - CF8M ball from 1/4'' to 3/8'' and from 2''1/2 to 2", F316 ball from 1/2'' to 2".

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	138	138	138	138	138	103	103	103	69	69	69
BSP code	391BAIIT008	391BAIIT010	391BAIIT015	391BAIIT020	391BAIIT025	391BAIIT032	391BAIIT040	391BAIIT050	391BAIIT065	391BAIIT080	391BAIIT100
BW code	392BAIIT008	392BAIIT010	392BAIIT015	392BAIIT020	392BAIIT025	392BAIIT032	392BAIIT040	392BAIIT050	392BAIIT065	392BAIIT080	392BAIIT100

3 piece body - ISO pad - Fire safe

2014/68/EU Directive N°0035 - Risk category II / module H - Fire safe API 607 - NACE MR0175 - RTFE seats - V-ring chevron packing - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device - PS: see table - TS: -20°C/+180°C.

TA LUFT | NACE MR0175 | FIRE SAFE | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition



391 BA IIT/FS (V88) **- Stainless steel** BSP

CF8M body - CF8M ball from 1/4'' to 3/8'' and from 2''1/2 to 2", F316 ball from 1/2'' to 2".

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	138	138	138	138	138	103	103	103	69	69	69
code	391BAIITFS008	391BAIITFS010	391BAIITFS015	391BAIITFS020	391BAIITFS025	391BAIITFS032	391BAIITFS040	391BAIITFS050	391BAIITFS065	391BAIITFS080	391BAIITFS100

3 piece body - ISO pad - Fire safe

Reduced bore

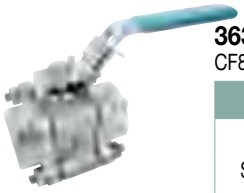
2014/68/EU Directive N°0035 - Risk category II / module H - Fire safe API 607 - NACE MR0175 - RFTE seats - Chevron packing - Reduced bore - Anti-blowout stem - ISO pad - Locking device - PS: see tables - TS: -20°C/+180°C.

TA LUFT | NACE MR0175 | FIRE SAFE | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

363 BA AIT/FS (V83R) **- Carbon steel** SW
A216WCB body - CF8M ball for 1/2'', F316 above.

364 BA AIT/FS (V83R) **- Carbon steel** NPT

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
PS (bar)	138	138	138	103	103	103	103
SW code	363BAAITFS015	363BAAITFS020	363BAAITFS025	363BAAITFS032	363BAAITFS040	363BAAITFS050	363BAAITFS065
NPT code	364BAAITFS015	364BAAITFS020	364BAAITFS025	364BAAITFS032	364BAAITFS040	364BAAITFS050	364BAAITFS065



363 BA IIT/FS (V83R) **- Stainless steel** SW
CF8M body - CF8M ball for 1/2'', F316 above.

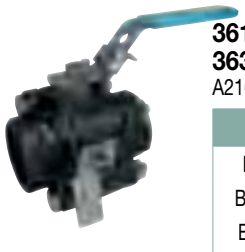
364 BA IIT/FS (V83R) **- Stainless steel** NPT

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
PS (bar)	138	138	138	103	103	103	103
SW code	363BAIITFS015	363BAIITFS020	363BAIITFS025	363BAIITFS032	363BAIITFS040	363BAIITFS050	363BAIITFS065
NPT code	364BAIITFS015	364BAIITFS020	364BAIITFS025	364BAIITFS032	364BAIITFS040	364BAIITFS050	364BAIITFS065

Full bore

2014/68/EU Directive N°0035 - Risk category II / module H - Fire safe API 607 - NACE MR0175 - RTFE seats - Chevron packing - Full bore - Anti-blowout stem - ISO pad - Locking device - PS: see tables - TS: -20°C/+180°C.

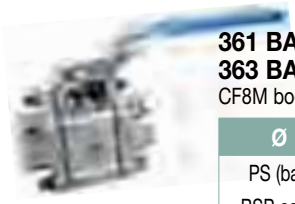
TA LUFT | NACE MR0175 | FIRE SAFE | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition



361 BA AIT/I/FS (V83) **- Carbon steel** BSP
363 BA AIT/I/FS (V83) **- Carbon steel** SW
A216WCB body - CF8M ball from 1/4" to 3/8'', F316 above.

362 BA AIT/I/FS (V83) **- Carbon steel** BW
364 BA AIT/I/FS (V83) **- Carbon steel** NPT

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	138	138	138	138	138	103	103	103
BSP code	361BAAITIFS008	361BAAITIFS010	361BAAITIFS015	361BAAITIFS020	361BAAITIFS025	361BAAITIFS032	361BAAITIFS040	361BAAITIFS050
BW code	362BAAITIFS008	362BAAITIFS010	362BAAITIFS015	362BAAITIFS020	362BAAITIFS025	362BAAITIFS032	362BAAITIFS040	362BAAITIFS050
SW code	363BAAITIFS008	363BAAITIFS010	363BAAITIFS015	363BAAITIFS020	363BAAITIFS025	363BAAITIFS032	363BAAITIFS040	363BAAITIFS050
NPT code	364BAAITIFS008	364BAAITIFS010	364BAAITIFS015	364BAAITIFS020	364BAAITIFS025	364BAAITIFS032	364BAAITIFS040	364BAAITIFS050



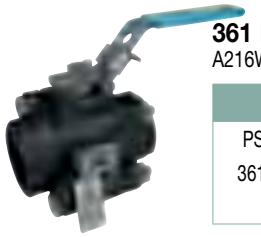
361 BA IIT/I/FS (V83) **- Stainless steel** BSP
363 BA IIT/I/FS (V83) **- Stainless steel** SW
CF8M body - CF8M ball from 1/4" to 3/8'', F316 above.

362 BA IIT/I/FS (V83) **- Stainless steel** BW
364 BA IIT/I/FS (V83) **- Stainless steel** NPT

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	138	138	138	138	138	103	103	103
BSP code	361BAIITIFS008	361BAIITIFS010	361BAIITIFS015	361BAIITIFS020	361BAIITIFS025	361BAIITIFS032	361BAIITIFS040	361BAIITIFS050
BW code	362BAIITIFS008	362BAIITIFS010	362BAIITIFS015	362BAIITIFS020	362BAIITIFS025	362BAIITIFS032	362BAIITIFS040	362BAIITIFS050
SW code	363BAIITIFS008	363BAIITIFS010	363BAIITIFS015	363BAIITIFS020	363BAIITIFS025	363BAIITIFS032	363BAIITIFS040	363BAIITIFS050
NPT code	364BAIITIFS008	364BAIITIFS010	364BAIITIFS015	364BAIITIFS020	364BAIITIFS025	364BAIITIFS032	364BAIITIFS040	364BAIITIFS050

2014/68/EU Directive N°0035 - Risk category II / module H - PTFE + carbon graphite seats - Chevron packing - Full bore - Anti-blowout stem - ISO pad - Locking device - PS: see table - TS: -20°C/+180°C.

TA LUFT | NACE MR0175 | FIRE SAFE | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition



361 BA AIC/I/FS (V83) **- Carbon steel** BSP
A216WCB body - CF8M ball for 3/8'', F316 above.

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	138	138	138	138	103	103	103
361 code	361BAAICIFS010	361BAAICIFS015	361BAAICIFS020	361BAAICIFS025	361BAAICIFS032	361BAAICIFS040	361BAAICIFS050

PNEUMATIC

371 BA IIR - Pneumatic actuated stainless steel ball valve BSP

CF8M body - CF8M ball (F316 from 1/2" to 2") - PS: 69 bar up to 2", 55 bar above - TS: -20°C/+180°C.

Ex 10 €/pc

ACTREG

double acting		
Ø	actuator	code
1/4"	ADA10	371BAIIRAD008
3/8"	ADA10	371BAIIRAD010
1/2"	ADA10	371BAIIRAD015
3/4"	ADA20	371BAIIRAD020
1"	ADA40	371BAIIRAD025
1"1/4	ADA40	371BAIIRAD032
1"1/2	ADA80	371BAIIRAD040
2"	ADA80	371BAIIRAD050
2"1/2	ADA130	371BAIIRAD065
3"	ADA200	371BAIIRAD080
4"	ADA300	371BAIIRAD100

ACTREG

spring return		
Ø	actuator	code
1/4"	ASR40	371BAIIRAS008
3/8"	ASR40	371BAIIRAS010
1/2"	ASR40	371BAIIRAS015
3/4"	ASR40	371BAIIRAS020
1"	ASR80	371BAIIRAS025
1"1/4	ASR80	371BAIIRAS032
1"1/2	ASR130	371BAIIRAS040
2"	ASR130	371BAIIRAS050
2"1/2	ASR300	371BAIIRAS065
3"	ASR500	371BAIIRAS080
4"	ASR850	371BAIIRAS100

EL Matic™

double acting		
Ø	actuator	code
1/4"	PD25	371BAIIRPD008
3/8"	PD25	371BAIIRPD010
1/2"	PD25	371BAIIRPD015
3/4"	PD25	371BAIIRPD020
1"	PD25	371BAIIRPD025
1"1/4	PD25	371BAIIRPD032
1"1/2	PD40	371BAIIRPD040
2"	PD40	371BAIIRPD050
2"1/2	PD100	371BAIIRPD065
3"	PD150	371BAIIRPD080
4"	PD200	371BAIIRPD100

EL Matic™

spring return		
Ø	actuator	code
1/4"	PE25	371BAIIRPE008
3/8"	PE25	371BAIIRPE010
1/2"	PE25	371BAIIRPE015
3/4"	PE25	371BAIIRPE020
1"	PE40	371BAIIRPE025
1"1/4	PE40	371BAIIRPE032
1"1/2	PE100	371BAIIRPE040
2"	PE100	371BAIIRPE050
2"1/2	PE200	371BAIIRPE065
3"	PE350	371BAIIRPE080
4"	PE600	371BAIIRPE100

also available	371 BSP	372 BW
code	371BA...	372BA...

391 BA IIT/FS - Pneumatic actuated stainless steel ball valve BSP

CF8M body - F316 ball (CF8M for 1/4" & 3/8") - PS: 138 bar for 1/4"-1", 103 bar up to 2", 69 bar above - TS: -20°C/+180°C.

Ex 10 €/pc

ACTREG

double acting		
Ø	actuator	code
1/4"	ADA10	391BAIITAD008
3/8"	ADA10	391BAIITAD010
1/2"	ADA10	391BAIITAD015
3/4"	ADA10	391BAIITAD020
1"	ADA20	391BAIITAD025
1"1/4	ADA40	391BAIITAD032
1"1/2	ADA80	391BAIITAD040
2"	ADA80	391BAIITAD050
2"1/2	ADA80	391BAIITAD065
3"	ADA200	391BAIITAD080
4"	ADA200	391BAIITAD100

ACTREG

spring return		
Ø	actuator	code
1/4"	ASR20	391BAIITAS008
3/8"	ASR20	391BAIITAS010
1/2"	ASR20	391BAIITAS015
3/4"	ASR20	391BAIITAS020
1"	ASR40	391BAIITAS025
1"1/4	ASR40	391BAIITAS032
1"1/2	ASR80	391BAIITAS040
2"	ASR80	391BAIITAS050
2"1/2	ASR200	391BAIITAS065
3"	ASR300	391BAIITAS080
4"	ASR300	391BAIITAS100

EL Matic™

double acting		
Ø	actuator	code
1/4"	PD25	391BAIITPD008
3/8"	PD25	391BAIITPD010
1/2"	PD25	391BAIITPD015
3/4"	PD25	391BAIITPD020
1"	PD25	391BAIITPD025
1"1/4	PD40	391BAIITPD032
1"1/2	PD40	391BAIITPD040
2"	PD65	391BAIITPD050
2"1/2	PD100	391BAIITPD065
3"	PD100	391BAIITPD080
4"	PD200	391BAIITPD100

EL Matic™

spring return		
Ø	actuator	code
1/4"	PE25	391BAIITPE008
3/8"	PE25	391BAIITPE010
1/2"	PE25	391BAIITPE015
3/4"	PE25	391BAIITPE020
1"	PE40	391BAIITPE025
1"1/4	PE65	391BAIITPE032
1"1/2	PE100	391BAIITPE040
2"	PE200	391BAIITPE050
2"1/2	PE200	391BAIITPE065
3"	PE200	391BAIITPE080
4"	PE350	391BAIITPE100

3 piece body flanged - S-First

2014/68/EU Directive N°0343 - Risk category II / module H - Flanged RF PN40 - EN 558 series 1 (DIN 3202 F1) - RTFE seats - Full bore - Anti-blowout stem - Locking device - PS: 40 bar.

CE 0343 | 3.1 see p. 22

730 - Carbon steel

A216WCB body - F304 ball - TS: -20°C/+180°C.

DN	15	20	25	32	40	50	65	80	100
face to face	130	150	160	180	200	230	290	310	350
code	730015	730020	730025	730032	730040	730050	730065	730080	730100

731 - Stainless steel

CF8M body - F316 ball - TS: -20°C/+180°C.

DN	15	20	25	32	40	50	65	80	100
face to face	130	150	160	180	200	230	290	310	350
code	731015	731020	731025	731032	731040	731050	731065	731080	731100

3 piece body flanged - ISO pad

2014/68/EU Directive N°0343 - Risk category III / module H - Flanged RF PN40 - EN 558 series 1 (DIN 3202 F1) - Stainless steel reinforced PTFE seats - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device - PS: 40 bar.

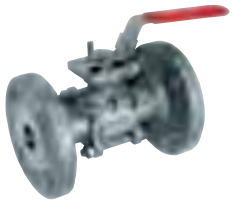
TA LUFT | CE 0343 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

710 - Carbon steel

A216WCB body - CF8M ball - TS: -25°C/+220°C.

DN	15	20	25	32	40	50	65	80	100
face to face	130	150	160	180	200	230	290	310	350
code	710015	710020	710025	710032	710040	710050	710065	710080	710100

711 - Stainless steel



CF8M body & ball - TS: -30°C/+220°C.

DN	15	20	25	32	40	50	65	80	100
face to face	130	150	160	180	200	230	290	310	350
code	711015	711020	711025	711032	711040	711050	711065	711080	711100

STEAM

2014/68/EU Directive N°0035 - Risk category II / module H - Flanged RF PN 40 - SIL 2 (& SIL 3 capable) - EN 558 series 1 (DIN 3202 F1) - Stainless steel reinforced PTFE seats - Stem tightness: PTFE-graphite - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device - PS: 40 bar -
⚠ **Steam up to 15 bar max./200°C.**

SIL | TA LUFT | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

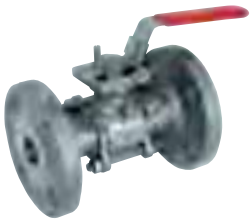
710 XS / 765 XS - Carbon steel

FIRE SAFE

A216WCB body - CF8M ball - TS: -25°C/+220°C.

DN	15	20	25	32	40	50	65	80	100
face to face	130	150	160	180	200	230	290	310	350
code	271322	271323	271324	271325	271326	271327	271328	271329	271330

711 XS - Stainless steel



CF8M body & ball - TS: -30°C/+220°C.

DN	65	80	100
face to face	290	310	350
code	272108	272109	272110

STEAM

2014/68/EU Directive N°0343 - Risk category III / module H - Fire safe ISO 10497 & API 607 - Flanged RF PN40 - EN 558 series 1 (DIN 3202 F1) - PTFE + 25% carbon seats - Stem tightness: RTFE + graphite - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device - PS: 40 bar - TS: -30°C/+220°C -
⚠ **Steam up to 18 bar max.**

FIRE SAFE | CE 0343 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

7034 - Stainless steel

CF8M body & ball.

DN	15	20	25	32	40	50
face to face	130	150	160	180	200	230
code	703415	703420	703425	703432	703440	703450

3 piece body flanged

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
All our electric actuated ball valves are equipped with a 230V AC actuator as standard - Other power supply on request, please consult.
⚠ **ΔP max.: 10 bar** - Actuators & automation complements, see page 169.

PNEUMATIC

710 XS - Pneumatic actuated carbon steel ball valve

Direct mounting - A216WCB body - CF8M ball - TS: -20°C/+200°C.

SIL | Ex 10 €/pc

ACTREG

double acting		
DN	actuator	code
15	ADA20	271312015100X
20	ADA20	271313015100X
25	ADA20	271314015100X
32	ADA20	271315015100X
40	ADA40	271316015101X
50	ADA80	271317015102X
65	ADA80	271318015102X
80	ADA130	271319015103X
100	ADA200	271320015104X

ACTREG

spring return		
DN	actuator	code
15	ASR20	271312016100X
20	ASR40	271313016101X
25	ASR40	271314016101X
32	ASR80	271315016102X
40	ASR130	271316016103X
50	ASR200	271317016104X
65	ASR200	271318016104X
80	ASR300	271319016105X
100	ASR500	271320016106X

Alphair

double acting		
DN	actuator	code
15	RE51	271312017006XR
20	RE51	271313017006XR
25	RE51	271314017006XR
32	RE51	271315017006XR
40	RE64	271316017007XR
50	RE76	271317017008XR
65	RE76	271318017008XR
80	RE86	271319017009XR
100	RE101	271320017010XR

Alphair

spring return		
DN	actuator	code
15	RES51	271312017106XR
20	RES64	271313017107XR
25	RES64	271314017107XR
32	RES76	271315017108XR
40	RES86	271316017109XR
50	RES101	271317017110XR
65	RES101	271318017110XR
80	RES116	271319017111XR
100	RES126	271320017111XR

PNEUMATIC

STEAM 765 XS - Pneumatic actuated carbon steel ball valve

A216WCB body - CF8M ball - TS: -25°C/+220°C - ⚠ **Steam use:** PS: 15 bar / TS: +200°C.

SIL | Ex 10 €/pc

ACTREG

double acting		
DN	actuator	code
15	ADA20	271322015100
20	ADA20	271323015100
25	ADA20	271324015100
32	ADA20	271325015100
40	ADA40	271326015101
50	ADA80	271327015102
65	ADA80	271328015102
80	ADA130	271329015103
100	ADA200	271330015104

ACTREG

spring return		
DN	actuator	code
15	ASR20	271322016100
20	ASR40	271323016101
25	ASR40	271324016101
32	ASR80	271325016102
40	ASR130	271326016103
50	ASR200	271327016104
65	ASR200	271328016104
80	ASR300	271329016105
100	ASR500	271330016106

Alphair

double acting		
DN	actuator	code
15	RE51	271322017006R
20	RE51	271323017006R
25	RE51	271324017006R
32	RE51	271325017006R
40	RE64	271326017007R
50	RE76	271327017008R
65	RE76	271328017008R
80	RE86	271329017009R
100	RE101	271330017010R

Alphair

spring return		
DN	actuator	code
15	RES51	271322017106R
20	RES51	271323017106R
25	RES64	271324017107R
32	RES76	271325017108R
40	RES86	271326017109R
50	RES101	271327017110R
65	RES101	271328017110R
80	RES116	271329017111R
100	RES126	271330017112R

PNEUMATIC

7034 - Pneumatic actuated stainless steel ball valve

CF8M body & ball - TS: -30°C/+218°C.

10 €/pc

double acting		
DN	actuator	code
15	RE51	272232017006R
20	RE51	272233017006R
25	RE51	272234017006R
32	RE64	272235017007R
40	RE64	272236017007R
50	RE76	272237017008R

spring return		
DN	actuator	code
15	RES64	272232017107R
20	RES64	272233017107R
25	RES76	272234017108R
32	RES76	272235017108R
40	RES86	272236017109R
50	RES116	272237017110R

PNEUMATIC

711 XS - Pneumatic actuated stainless steel ball valve

Direct mounting - CF8M body & ball - TS: -30°C/+218°C.

SIL 10 €/pc

double acting		
DN	actuator	code
65	RE76	272108017008R
80	RE86	272109017009R
100	RE101	272110017010R

spring return		
DN	actuator	code
65	RES101	272108017110R
80	RES116	272109017111R
100	RES116	272110017111R

ELECTRIC

710 XS - Electric actuated carbon steel ball valve

Direct mounting - A216WCB body - CF8M ball - TS: -20°C/+200°C.

DN	actuator	code
15	TCR02N	271312024110
20	TCR02N	271313024110
25	TCR05N	271314024310
32	TCR05N	271315024310
40	TCR05N	271316024310
50	TCR05N	271317024310
65	TCR11N	271318024610
80	TCR11N	271319024610
100	TCR20N	271320024700

Zones 1 & 2 on request

DN	actuator	code
15	SA05	271312023010x
20	SA05	271313023010x
25	SA05	271314023010x
32	SA05	271315023010x
40	SA05	271316023010x
50	SA05	271317023010x
65	NA09	271318023120x
80	NA09	271319023120x
100	NA15	271320023130x

ELECTRIC

STEAM

765 XS - Electric actuated carbon steel ball valve

A216WCB body - CF8M ball - TS: -25°C/+220°C - ⚠ **Steam use:** PS: 15 bar / TS: +200°C.

Zones 1 & 2 on request

DN	actuator	code
15	SA05	271322023010
20	SA05	271323023010
25	SA05	271324023010
32	SA05	271325023010
40	SA05	271326023010
50	SA05	271327023010
65	NA09	271328023120
80	NA09	271329023120
100	NA15	271330023130

Actuated carbon steel & stainless steel ball valves

SECTORIEL

ELECTRIC

7034 - Electric actuated stainless steel ball valve

CF8M body & ball - TS: -30°C/+218°C.

DN	actuator	code
15	TCR02N	272232024110
20	TCR02N	272233024110
25	TCR02N	272234024110
32	TCR05N	272235024310
40	TCR05N	272236024310
50	TCR11N	272237024610

Ex Zones 1 & 2 on request

DN	actuator	code
15	SA05	272232023010
20	SA05	272233023010
25	SA05	272234023010
32	SA05	272235023010
40	SA05	272236023010
50	SA05	272237023010

ELECTRIC

711 XS - Electric actuated stainless steel ball valve

Direct mounting - CF8M body & ball - TS: -30°C/+200°C.

DN	actuator	code
65	TCR11N	272108024610
80	TCR11N	272109024610
100	TCR20N	272110024700

Ex Zones 1 & 2 on request

DN	actuator	code
65	NA09	272108023120X
80	NA09	272109023120X
100	NA15	272110023130X

Carbon steel & stainless steel ball valves

sferaco

Wafer

2014/68/EU Directive N°0035 - Risk category II / module D1 - Flanged RF PN16 - TFM™ 1600 seats up to DN100, RTFE above - ISO pad - Locking device from DN25 to DN100 - Anti-blowout stem - PS: 16 bar - TS: -20°C/+180°C.

CE 0035 | 3.1 see p. 22

771 - Stainless steel

CF8M body & ball.

DN	15	20	25	32	40	50	65	80	100	125	150
face to face	35	39	44	52	64	83	100	121	152	179	202
code	771015	771020	771025	771032	771040	771050	771065	771080	771100	771125	771150

2014/68/EU Directive N°0035 - Risk category II / module H - Flanged RF PN16 - PTFE +15% graphite seats - Stem tightness: PTFE +15% graphite - ISO pad - Full bore up to DN80 - Anti-blowout stem - PS: 16 bar - TS: -30°C/+180°C.

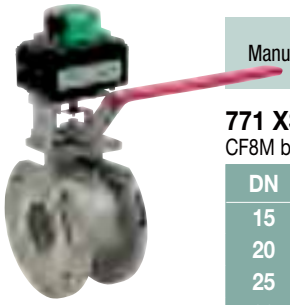
CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

771 XS - Stainless steel

CF8M body - F316 ball.

DN	15	20	25	32	40	50	65	80	100
face to face	42	44	50	54	68	82	103	122	152
code	272902	272903	272904	272905	272906	272907	272908	272909	272910

Manual valves with limit switch box



Manual ball valves equipped with SF012 limit switch box IP67 - SPDT 250V-5A (see features of the limit switch box page 179).

771 XS - Stainless steel

CF8M body - PTFE +15% graphite seat - PS: 16 bar - TS: -30°C/+180°C.

DN	code
15	2729020462012
20	2729030462012
25	2729040462012
32	2729050462012
40	2729060462012

DN	code
50	2729070462012
65	2729080462012
80	2729090462012
100	2729100462012

Wafer

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
All our electric actuated ball valves are equipped with a 230V AC actuator as standard - Other power supply on request, please consult.
⚠ **ΔP max.: 10 bar** - Actuators & automation complements, see page 169.

PNEUMATIC

771 XS - Pneumatic actuated stainless steel ball valve

Direct mounting - CF8M body - F316 ball - TS: -30°C/+180°C.

Ex 10 €/pc

double acting		
DN	actuator	code
15	ADA20	272902015100
20	ADA20	272903015100
25	ADA20	272904015100
32	ADA20	272905015100
40	ADA80	272906015102
50	ADA80	272907015102
65	ADA80	272908015102
80	ADA130	272909015103
100	ADA300	272910015105

spring return		
DN	actuator	code
15	ASR20	272902016100
20	ASR40	272903016101
25	ASR40	272904016101
32	ASR80	272905016102
40	ASR130	272906016103
50	ASR200	272907016104
65	ASR200	272908016104
80	ASR500	272909016106
100	ASR500	272910016106

double acting		
DN	actuator	code
15	RE51	272902017006R
20	RE51	272903017006R
25	RE64	272904017007R
32	RE64	272905017007R
40	RE64	272906017007R
50	RE76	272907017008R
65	RE86	272908017009R
80	RE86	272909017009R
100	RE101	272910017010R

spring return		
DN	actuator	code
15	RES64	272902017107R
20*	RES64	272903017107R
25	RES76	272904017108R
32	RES76	272905017108R
40	RES86	272906017109R
50	RES116	272907017111R
65	RES116	272908017111R
80	RES126	272909017112R
100	RES146	272910017113R

* not direct mounting.

ELECTRIC

771 XS - Electric actuated stainless steel ball valve

Direct mounting - CF8M body - F316 ball - TS: -30°C/+180°C.

standard on/off execution		
DN	actuator	code
15	TCR02N	272902024110
20	TCR02N	272903024110
25	TCR05N	272904024310
32	TCR05N	272905024310
40	TCR05N	272906024310
50	TCR11N	272907024610
65	TCR11N	272908024610
80	TCR11N	272909024610
100	TCR20N	272910024700

standard on/off execution		
DN	actuator	code
15	SA05	272902023010
20	SA05	272903023010
25	SA05	272904023010
32	SA05	272905023010
40	SA05	272906023010
50	NA09	272907023120
65	NA09	272908023120
80	NA15	272909023130
100	NA15	272910023130

Ex Zones 1 & 2 10 €/pc

ATEX execution		
DN	actuator	code
15	SA05-X	272902023310
20	SA05-X	272903023310
25	SA05-X	272904023310
32	SA05-X	272905023310
40	SA05-X	272906023310
50	NA09-X	272907023330
65	NA09-X	272908023330
80	NA15-X	272909023340
100	NA15-X	272910023340

Split body - S-First

2014/68/EU Directive N°0035 - Risk category II / module D1 - PTFE + fiberglass seats - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device - PS: see tables - TS: -10°C/+180°C.

CE 0035 | 3.1 see p. 22

Flanged RF PN40/16

764 - Carbon steel

A216WCB body - F304 ball - EN 558 series 27 (DIN 3202 F4/F5).

DN	15	20	25	32	40	50	65	80	100	125	150
face to face	115	120	125	130	140	150	170	180	190	325	350
PS (bar)	40	40	40	40	40	40	16	16	16	16	16
code	764015	764020	764025	764032	764040	764050	764065	764080	764100	764125	764150

765 - Stainless steel

CF8M body - F316 ball - EN 558 series 27 (DIN 3202 F4/F5).

DN	15	20	25	32	40	50	65	80	100	125	150
face to face	115	120	125	130	140	150	170	180	190	325	350
PS (bar)	40	40	40	40	40	40	16	16	16	16	16
code	765015	765020	765025	765032	765040	765050	765065	765080	765100	765125	765150

Flanged RF ANSI 150

793 - Carbon steel

A216WCB body - F304 ball - EN 558 series 3 up to 4", series 12 above - PS: 20 bar.

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"	6"
face to face	108	117	127	140	165	178	190	203	229	394
code	793015	793020	793025	793032	793040	793050	793065	793080	793100	793150

794 - Stainless steel

CF8M body - F316 ball - EN 558 series 3 up to 4", series 12 above - PS: 20 bar.

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"	6"
face to face	108	117	127	140	165	178	190	203	229	394
code	794015	794020	794025	794032	794040	794050	794065	794080	794100	794150

Split body

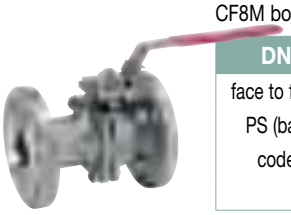
2014/68/EU Directive N°0035 - Risk category II / module H - Bureau Veritas Marine recognition MODE II - RTFE seats (except 763L: PTFE) - Stem tightness: PTFE +25% carbon-graphite - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device - PS: see tables - TS: -20°C/+200°C - ⚠ **Steam up to 11 bar max.**

Bureau Veritas MODE II | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

Flanged RF PN40/16

763 L - Stainless steel

CF8M body & ball - **EN 558 series 1** (DIN 3202 F1).



DN	15	20	25	32	40	50	65	80	100
face to face	130	150	160	180	200	230	290	310	350
PS (bar)	40	40	40	40	40	40	16	16	16
code	763L015	763L020	763L025	763L032	763L040	763L050	763L065	763L080	763L100

Flanged RF PN40/16

762 - Carbon steel

A216WCB body - CF8M ball up to DN100, F316 above - **EN 558 series 27** (DIN 3202 F4/F5).

FIRE SAFE

DN	15	20	25	32	40	50	65	80	100	125	150	200
face to face	115	120	125	130	140	150	170	180	190	325	350	400
PS (bar)	40	40	40	40	40	40	16	16	16	16	16	16
code	762015	762020	762025	762032	762040	762050	762065	762080	762100	762125	762150	762200

763 - Stainless steel

CF8M body - CF8M ball up to DN100, F316 above - **EN 558 series 27** (DIN 3202 F4/F5).

DN	15	20	25	32	40	50	65	80	100	125	150	200
face to face	115	120	125	130	140	150	170	180	190	325	350	400
PS (bar)	40	40	40	40	40	40	16	16	16	16	16	16
code	763015	763020	763025	763032	763040	763050	763065	763080	763100	763125	763150	763200

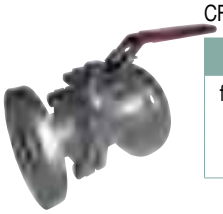
Flanged RF ANSI 150

FIRE SAFE

778 - Carbon steel

A216WCB body - CF8M ball - EN 558 series 3 - PS: 20 bar.

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
face to face	108	117	127	140	165	178	190	203	229
code	778015	778020	778025	778032	778040	778050	778065	778080	778100



779 - Stainless steel

CF8M body - CF8M ball - EN 558 series 3 - PS: 20 bar.

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
face to face	108	117	127	140	165	178	190	203	229
code	779015	779020	779025	779032	779040	779050	779065	779080	779100

Option

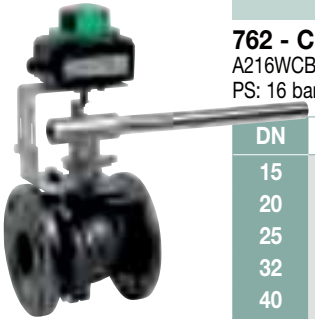
Spare gearbox

for 762-763

DN	150	200
code	9830296	9830297
mounting code	WORKGB2	WORKGB2

Manual valves with limit switch box

Manual ball valves equipped with SF012 limit switch box IP67 - SPDT 250V-5A (see features of the limit switch box page 183).

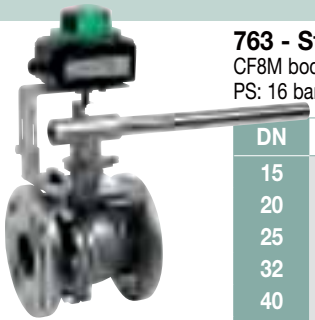


762 - Carbon steel

A216WCB body - RTFE seats - Full bore - PS: 16 bar - TS: -20°C/+150°C.

DN	762 code
15	2742420462012
20	2742430462012
25	2742440462012
32	2742450462012
40	2742460462012
50	2742470462012
65	2742480462012
80	2742490462012
100	2742500462012
125	2742510462012
150	2742520462012

on request



763 - Stainless steel

CF8M body - RTFE seats - Full bore - PS: 16 bar - TS: -20°C/+150°C.

DN	763 code
15	2743620462012
20	2743630462012
25	2743640462012
32	2743650462012
40	2743660462012
50	2743670462012
65	2743680462012
80	2743690462012
100	2743700462012
125	2743710462012
150	2743720462012

on request

Spit body - Fire safe

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
All our electric actuated ball valves are equipped with a 230V AC actuator as standard - Other power supply on request, please consult.
⚠ **ΔP max.: 10 bar** - Actuators & automation complement, see page 169.

PNEUMATIC

763L - Pneumatic actuated stainless steel ball valve - DIN 3202 F1

CF8M body & ball - TS: -20°C/+200°C.

10 €/pc

ACTREG

double acting		
DN	actuator	code
15	ADA20	274462015100
20	ADA20	274463015100
25	ADA20	274464015100
32	ADA40	274465015101
40	ADA40	274466015101
50	ADA80	274467015102
65	ADA130	274468015103
80	ADA130	274469015103
100	ADA200	274470015104

ACTREG

spring return		
DN	actuator	code
15	ASR40	274462016101
20	ASR40	274463016101
25	ASR40	274464016101
32	ASR80	274465016102
40	ASR130	274466016103
50	ASR200	274467016104
65	ASR200	274468016104
80	ASR300	274469016105
100	ASR500	274470016106

Alphair

double acting		
DN	actuator	code
15	RE51	274462017006R
20	RE51	274463017006R
25	RE51	274464017006R
32	RE64	274465017007R
40	RE76	274466017008R
50	RE76	274467017008R
65	RE86	274468017009R
80	RE101	274469017010R
100	RE116	274470017011R

Alphair

spring return		
DN	actuator	code
15	RES64	274462017107R
20	RES76	274463017108R
25	RES76	274464017108R
32	RES86	274465017109R
40	RES101	274466017110R
50	RES101	274467017110R
65	RES116	274468017111R
80	RES126	274469017112R
100	RES146	274470017113R

PNEUMATIC

762 - Pneumatic actuated carbon steel ball valve

A216WCB body - CF8M ball up to DN100, F316 above - TS: -20°C/+200°C.

10 €/pc

ACTREG

double acting		
DN	actuator	code
15	ADA20	274242015100
20	ADA20	274243015100
25	ADA20	274244015100
32	ADA40	274245015101
40	ADA40	274246015101
50	ADA80	274247015102
65	ADA130	274248015103
80	ADA130	274249015103
100	ADA200	274250015104
125	ADA300	274251015105
150	ADA850	274252015107
200*	ADA850	274253015107

ACTREG

spring return		
DN	actuator	code
15	ASR40	274242016101
20	ASR40	274243016101
25	ASR40	274244016101
32	ASR80	274245016102
40	ASR130	274246016103
50	ASR200	274247016104
65	ASR200	274248016104
80	ASR300	274249016105
100	ASR500	274250016106
125	ASR850	274251016107
150	ASR1200	274252016108

* not fire safe.

Alphair

double acting		
DN	actuator	code
15	RE51	274242017006R
20	RE51	274243017006R
25	RE51	274244017006R
32	RE64	274245017007R
40	RE76	274246017008R
50	RE76	274247017008R
65	RE86	274248017009R
80	RE101	274249017010R
100	RE116	274250017011R
125	RE116	274251017011R
150	RE161	274252017014R
200*	RE181	274253017015R

Alphair

spring return		
DN	actuator	code
15	RES64	274242017107R
20	RES76	274243017108R
25	RES76	274244017108R
32	RES86	274245017109R
40	RES101	274246017110R
50	RES101	274247017110R
65	RES116	274248017111R
80	RES126	274249017112R
100	RES146	274250017113R
125	RES161	274251017114R
150	RES201	274252017116R

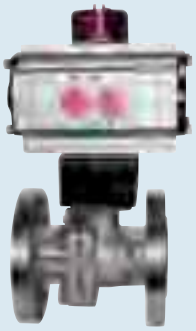
* not fire safe.

PNEUMATIC

763 - Pneumatic actuated stainless steel ball valve

CF8M body - CF8M ball up to DN100, F316 above - TS: -20°C/+200°C.

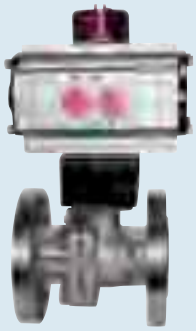
10 €/pc



ACTREG

double acting		
DN	actuator	code
15	ADA20	274362015100
20	ADA20	274363015100
25	ADA20	274364015100
32	ADA40	274365015101
40	ADA40	274366015101
50	ADA80	274367015102
65	ADA130	274368015103
80	ADA130	274369015103
100	ADA200	274370015104
125	ADA300	274371015105
150	ADA850	274372015107
200*	ADA850	274373015107

* not fire safe.



ACTREG

spring return		
DN	actuator	code
15	ASR40	274362016101
20	ASR40	274363016101
25	ASR40	274364016101
32	ASR80	274365016102
40	ASR130	274366016103
50	ASR200	274367016104
65	ASR300	274368016105
80	ASR300	274369016105
100	ASR500	274370016106
125	ASR850	274371016107
150	ASR1200	274372016108

Alphair

double acting		
DN	actuator	code
15	RE51	274362017006R
20	RE51	274363017006R
25	RE51	274364017006R
32	RE64	274365017007R
40	RE76	274366017008R
50	RE76	274367017008R
65	RE86	274368017009R
80	RE101	274369017010R
100	RE116	274370017011R
125	RE116	274371017011R
150	RE161	274372017014R
200*	RE181	274373017015R

* not fire safe.

Alphair

spring return		
DN	actuator	code
15	RES64	274362017107R
20	RES76	274363017108R
25	RES76	274364017108R
32	RES86	274365017109R
40	RES101	274366017110R
50	RES101	274367017110R
65	RES116	274368017111R
80	RES126	274369017112R
100	RES146	274370017113R
125	RES161	274371017114R
150	RES201	274372017116R

ELECTRIC

762 - Electric actuated carbon steel ball valve

A216WCB body - CF8M ball up to DN100, F316 above - TS: -20°C/+200°C.

TCR02N

DN	actuator	code
15	TCR02N	274242024110
20	TCR02N	274243024110
25	TCR05N	274244024310
32	TCR05N	274245024310
40	TCR05N	274246024310
50	TCR11N	274247024610
65	TCR11N	274248024610
80	TCR20N	274249024700
100	TCR40N	274250024720
125	TCR40N	274251024720

Zones 1 & 2 on request

NA09-X

DN	actuator	code
15	SA05	274242023010
20	SA05	274243023010
25	SA05	274244023010
32	SA05	274245023010
40	SA05	274246023010
50	NA06	274247023110
65	NA09	274248023120
80	NA15	274249023130
100	NA28	274250023150
125	NA28	274251023150
150	NA60	274252023180

ELECTRIC

763 - Electric actuated stainless steel ball valve

CF8M body & ball - CF8M ball up to DN100, F316 above - TS: -20°C/+200°C.

TCR02N

DN	actuator	code
15	TCR02N	274362024110
20	TCR02N	274363024110
25	TCR05N	274364024310
32	TCR05N	274365024310
40	TCR05N	274366024310
50	TCR11N	274367024610
65	TCR11N	274368024610
80	TCR20N	274369024700
100	TCR40N	274370024720
125	TCR40N	274371024720

Zones 1 & 2 on request

SA05

DN	actuator	code
15	SA05	274362023010
20	SA05	274363023010
25	SA05	274364023010
32	SA05	274365023010
40	SA05	274366023010
50	NA06	274367023110
65	NA09	274368023120
80	NA15	274369023130
100	NA28	274370023150
125	NA28	274371023150
150	NA60	274372023180

Split body - Fire safe - High temperature

2014/68/EU Directive N°0035 - Risk category III / module H - Fire safe ISO 10497 - PTFE seats - Stem tightness: graphite-FKM - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device - Ball with decompression hole - PS: see tables. ⚠ **Steam up to 12 bar max.**

FUGITIVE EMISSIONS | FIRE SAFE | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

Flanged RF PN40/16

752 - Carbon steel

A216WCB body - CF8M ball - EN 558 series 27 (DIN 3202 F4/F5) - TS: -20°C/+230°C.

DN	15	20	25	32	40	50	65	80	100	125	150	200
face to face	115	120	125	130	140	150	170	180	190	325	350	400
PS (bar)	40	40	40	40	40	40	16	16	16	16	16	16
code	752015	752020	752025	752032	752040	752050	752065	752080	752100	752125	752150	752200

753 - Stainless steel

CF8M body & ball - EN 558 series 27 (DIN 3202 F4/F5) - TS: -50°C/+230°C.

DN	15	20	25	32	40	50	65	80	100	125	150	200
face to face	115	120	125	130	140	150	170	180	190	325	350	400
PS (bar)	40	40	40	40	40	40	16	16	16	16	16	16
code	753015	753020	753025	753032	753040	753050	753065	753080	753100	753125	753150	753200

Flanged RF ANSI 150

756 - Carbon steel

A216WCB body - CF8M ball - EN 558 series 3 up to 4", series 12 above - PS: 20 bar - TS: -29°C/+230°C.

NPS	1/2"	3/4"	1"	1"1/2	2"	2"1/2	3"	4"	6"	8"
face to face	108	117	127	165	178	190	203	229	394	457
code	756015	756020	756025	756040	756050	756065	756080	756100	756150	756200

NACE MR0175

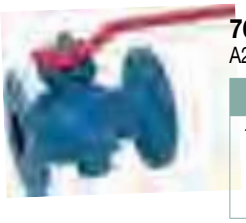
757 - Stainless steel

CF8M body & ball - EN 558 series 3 up to 4", series 12 above - PS: 20 bar - TS: -50°C/+230°C.

NPS	1/2"	3/4"	1"	1"1/2	2"	2"1/2	3"	4"	6"	8"
face to face	108	117	127	165	178	190	203	229	394	457
code	757015	757020	757025	757040	757050	757065	757080	757100	757150	757200

NACE MR0175

Flanged RF ANSI 300

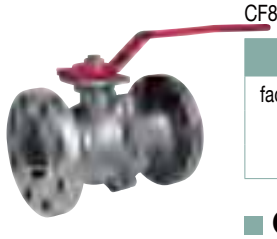


768 - Carbon steel

A216WCB body - CF8M ball - EN 558 series 4 up to 6" - PS: 50 bar - TS: -29°C/+230°C.

NPS	1/2"	3/4"	1"	1"1/2	2"	3"	4"	6"	8"
face to face	140	152	165	190	216	283	305	403	502
code	768015	768020	768025	768040	768050	768080	768100	768150	768200

NACE MR0175



769 - Stainless steel

CF8M body & ball - EN 558 series 4 up to 6"- PS: 50 bar - TS: -50°C/+230°C.

NPS	1/2"	3/4"	1"	1"1/2	2"	3"	4"	6"	8"
face to face	140	152	165	190	216	283	305	403	502
code	769015	769020	769025	769040	769050	769080	769100	769150	769200

NACE MR0175

not on stock, on request.

Option & spare parts

Spare gearbox

for 752-753-756-757-768-769

DN	100	125	150	200
NPS	4"	-	6"	8"
code	9830221	9830222	9830266	9830267
mounting code	WORKGB2	WORKGB2	WORKGB2	WORKGB2

Spare stainless steel lever

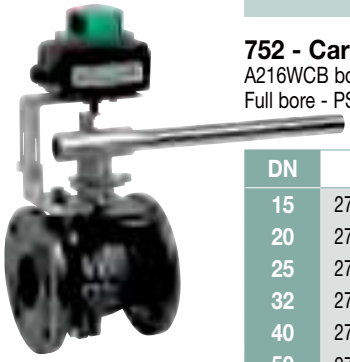
for 752-753-756-757-768-769

DN	15-20	25-32	40-50	65	80	100	125-150	200
NPS	1/2"-3/4"	1"	1"1/2-2"	2"1/2	3"	4"	6"	8"
code	9812090	9812091	9812092	9812093	9812094	9812095	9812096	9812097

Carbon steel & stainless steel ball valves

Manual valves with limit switch box

Manual ball valves equipped with SF012 limit switch box IP67 - SPDT 250V-5A (see features of the limit switch box page 183).

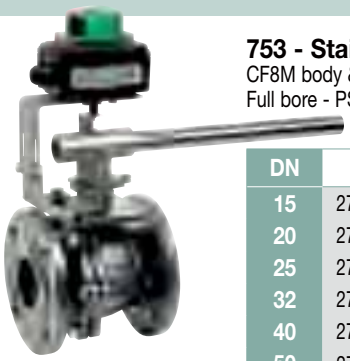


752 - Carbon steel

A216WCB body - CF8M ball - PTFE seats -
Full bore - PS: 16 bar - TS: -20°C/+200°C.

DN	752 code
15	2742820462012
20	2742830462012
25	2742840462012
32	2742850462012
40	2742860462012
50	2742870462012
65	2742880462012
80	2742890462012
100	2742900462012
125	2742910462012
150	2742920462012

on request



753 - Stainless steel

CF8M body & ball - PTFE seats -
Full bore - PS: 16 bar - TS: -20°C/+200°C.

DN	753 code
15	2744020462012
20	2744030462012
25	2744040462012
32	2744050462012
40	2744060462012
50	2744070462012
65	2744080462012
80	2744090462012
100	2744100462012
125	2744110462012
150	2744120462012

on request

Actuated carbon steel & stainless steel ball valves

Split body - Fire safe - High temperature

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
All our electric actuated ball valves are equipped with a 230V AC actuator as standard - Other power supply on request, please consult.
⚠ **ΔP max.: 10 bar** - Actuators & automation complements, see page 169.

752 - Pneumatic actuated carbon steel valve

A216WCB body - CF8M ball - TS: -20°C/+200°C.

10 €/pc

ACTREG

double acting		
DN	actuator	code
15	ADA20	274282015100
20	ADA20	274283015100
25	ADA20	274284015100
32	ADA40	274285015101
40	ADA40	274286015101
50	ADA80	274287015102
65	ADA130	274288015103
80	ADA130	274289015103
100	ADA200	274290015104
125	ADA300	274291015105
150	ADA500	274292015106

ACTREG

spring return		
DN	actuator	code
15	ASR40	274282016101
20	ASR40	274283016101
25	ASR80	274284016102
32	ASR80	274285016102
40	ASR80	274286016102
50	ASR200	274287016104
65	ASR300	274288016105
80	ASR300	274289016105
100	ASR500	274290016106
125	ASR850	274291016107
150	ASR850	274292016107

Alphair

double acting		
DN	actuator	code
15	RE51	274282017006R
20	RE51	274283017006R
25	RE51	274284017006R
32	RE64	274285017007R
40	RE76	274286017008R
50	RE76	274287017008R
65	RE86	274288017009R
80	RE86	274289017009R
100	RE101	274290017010R
125	RE116	274291017011R
150	RE126	274292017012R

Alphair

spring return		
DN	actuator	code
15	RES64	274282017107R
20	RES76	274283017108R
25	RES76	274284017108R
32	RES86	274285017109R
40	RES86	274286017109R
50	RES116	274287017111R
65	RES116	274288017111R
80	RES116	274289017111R
100	RES146	274290017113R
125	RES161	274291017114R
150	RES181	274292017115R

PNEUMATIC

PNEUMATIC

753 - Pneumatic actuated stainless steel ball valve

CF8M body & ball - TS: -30°C/+200°C.

10 €/pc

ACTREG

double acting		
DN	actuator	code
15	ADA20	274402015100
20	ADA20	274403015100
25	ADA20	274404015100
32	ADA40	274405015101
40	ADA40	274406015101
50	ADA80	274407015102
65	ADA130	274408015103
80	ADA130	274409015103
100	ADA200	274410015104
125	ADA300	274411015105
150	ADA500	274412015106

ACTREG

spring return		
DN	actuator	code
15	ASR40	274402016101
20	ASR40	274403016101
25	ASR80	274404016102
32	ASR80	274405016102
40	ASR80	274406016102
50	ASR200	274407016104
65	ASR300	274408016105
80	ASR300	274409016105
100	ASR500	274410016106
125	ASR850	274411016107
150	ASR850	274412016107

Alphair

double acting		
DN	actuator	code
15	RE51	274402017006R
20	RE51	274403017006R
25	RE51	274404017006R
32	RE64	274405017007R
40	RE76	274406017008R
50	RE76	274407017008R
65	RE86	274408017009R
80	RE86	274409017009R
100	RE101	274410017010R
125	RE116	274411017011R
150	RE126	274412017012R

Alphair

spring return		
DN	actuator	code
15	RES64	274402017107R
20	RES76	274403017108R
25	RES76	274404017108R
32	RES86	274405017109R
40	RES86	274406017109R
50	RES116	274407017111R
65	RES116	274408017111R
80	RES116	274409017111R
100	RES146	274410017113R
125	RES161	274411017114R
150	RES181	274412017115R

PNEUMATIC

756 - Pneumatic actuated carbon steel ball valve

A216WCB body - CF8M ball - TS: -20°C/+200°C.

10 €/pc

ACTREG

double acting		
NPS	actuator	code
1/2"	ADA20	274322015100
3/4"	ADA20	274323015100
1"	ADA20	274324015100
1"1/2	ADA40	274326015101
2"	ADA80	274327015102
2"1/2	ADA130	274328015103
3"	ADA130	274329015103
4"	ADA200	274330015104
6"	ADA500	274332015106

ACTREG

spring return		
NPS	actuator	code
1/2"	ASR40	274322016101
3/4"	ASR40	274323016101
1"	ASR80	274324016102
1"1/2	ASR80	274326016102
2"	ASR200	274327016104
2"1/2	ASR300	274328016105
3"	ASR300	274329016105
4"	ASR500	274330016106
6"	ASR850	274332016107

Alphair

double acting		
NPS	actuator	code
1/2"	RE51	274322017006R
3/4"	RE51	274323017006R
1"	RE51	274324017006R
1"1/2	RE76	274326017008R
2"	RE76	274327017008R
2"1/2	RE86	274328017009R
3"	RE86	274329017009R
4"	RE101	274330017010R
6"	RE126	274332017012R

Alphair

spring return		
NPS	actuator	code
1/2"	RES64	274322017107R
3/4"	RES76	274323017108R
1"	RES76	274324017108R
1"1/2	RES86	274326017109R
2"	RES116	274327017111R
2"1/2	RES116	274328017111R
3"	RES116	274329017111R
4"	RES146	274330017113R
6"	RES181	274332017115R

757 - Pneumatic actuated stainless steel ball valve

CF8M body & ball - TS: -30°C/+200°C.

10 €/pc

double acting		
NPS	actuator	code
1/2"	ADA20	274422015100
3/4"	ADA20	274423015100
1"	ADA20	274424015100
1"1/2	ADA40	274426015101
2"	ADA80	274427015102
2"1/2	ADA130	274428015103
3"	ADA130	274429015103
4"	ADA200	274430015104
6"	ADA500	274432015106

spring return		
NPS	actuator	code
1/2"	ASR40	274422016101
3/4"	ASR40	274423016101
1"	ASR80	274424016102
1"1/2	ASR80	274426016102
2"	ASR200	274427016104
2"1/2	ASR300	274428016105
3"	ASR300	274429016105
4"	ASR500	274430016106
6"	ASR850	274432016107

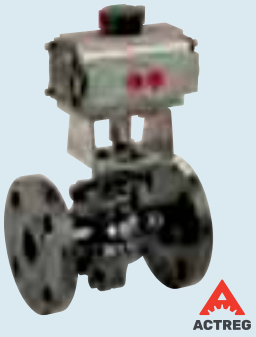
double acting		
NPS	actuator	code
1/2"	RE51	274422017006R
3/4"	RE51	274423017006R
1"	RE51	274424017006R
1"1/2	RE76	274426017008R
2"	RE76	274427017008R
2"1/2	RE86	274428017009R
3"	RE86	274429017009R
4"	RE101	274430017010R
6"	RE126	274432017012R

spring return		
NPS	actuator	code
1/2"	RES64	274422017107R
3/4"	RES76	274423017108R
1"	RES76	274424017108R
1"1/2	RES86	274426017109R
2"	RES116	274427017111R
2"1/2	RES116	274428017111R
3"	RES116	274429017111R
4"	RES146	274430017113R
6"	RES181	274432017115R

768 - Pneumatic actuated carbon steel ball valve

A216WCB body - CF8M ball - PS: 50 bar - TS: -29°C/+200°C.

10 €/pc



double acting		
NPS	actuator	code
1/2"	ADA20	274342015100
3/4"	ADA40	274343015101
1"	ADA40	274344015101
1"1/2	ADA40	274346015101
2"	ADA130	274347015103
3"	ADA300	274349015105
4"	ADA300	274350015105
6"	ADA850	274352015107

spring return		
NPS	actuator	code
1/2"	ASR40	274342016101
3/4"	ASR80	274343016102
1"	ASR80	274344016102
1"1/2	ASR130	274346016103
2"	ASR200	274347016104
3"	ASR500	274349016106
4"	ASR850	274350016107
6"	ASR1200	274352016108

double acting		
NPS	actuator	code
1/2"	RE51	274342017006R
3/4"	RE64	274343017007R
1"	RE64	274344017007R
1"1/2	RE76	274346017008R
2"	RE76	274347017008R
3"	RE116	274349017011R
4"	RE116	274350017011R
6"	RE146	274352017013R

spring return		
NPS	actuator	code
1/2"	RES76	274342017108R
3/4"	RES76	274343017108R
1"	RES86	274344017109R
1"1/2	RES111	274346017110R
2"	RES116	274347017111R
3"	RES146	274349017113R
4"	RES161	274350017114R
6"	RES241	274352017118R

PNEUMATIC

769 - Pneumatic actuated stainless steel ball valve

CF8M body & ball - TS: -50°C/+200°C.

10 €/pc

ACTREG

double acting		
NPS	actuator	code
1/2"	ADA20	274442015100
3/4"	ADA40	274443015101
1"	ADA40	274444015101
1"1/2	ADA40	274446015101
2"	ADA130	274447015103
3"	ADA300	274449015105
4"	ADA300	274450015105
6"	ADA850	274452015107

ACTREG

spring return		
NPS	actuator	code
1/2"	ASR40	274442016101
3/4"	ASR80	274443016102
1"	ASR80	274444016102
1"1/2	ASR130	274446016103
2"	ASR200	274447016104
3"	ASR500	274449016106
4"	ASR850	274450016107
6"	ASR1200	274452016108

Alphair

double acting		
NPS	actuator	code
1/2"	RE51	274442017006R
3/4"	RE64	274443017007R
1"	RE64	274444017007R
1"1/2	RE76	274446017008R
2"	RE76	274447017008R
3"	RE116	274449017011R
4"	RE116	274450017011R
6"	RE146	274452017013R

Alphair

spring return		
NPS	actuator	code
1/2"	RES76	274442017108R
3/4"	RES76	274443017108R
1"	RES86	274444017109R
1"1/2	RES101	274446017110R
2"	RES116	274447017111R
3"	RES146	274449017113R
4"	RES161	274450017114R
6"	RES241	274452017118R

ELECTRIC

752 - Electric actuated carbon steel ball valve

A216WCB body - CF8M ball - TS: -20°C/+200°C.

DN	actuator	code
15	SA05	274282023010
20	SA05	274283023010
25	SA05	274284023010
32	SA05	274285023010
40	SA05	274286023010
50	NA09	274287023120
65	NA09	274288023120
80	NA15	274289023130
100	NA28	274290023150
125	NA28	274291023150
150	NA38	274292023160

Zones 1 & 2
10 €/pc

DN	actuator	ATEX code
15	SA05-X	274282023310
20	SA05-X	274283023310
25	SA05-X	274284023310
32	SA05-X	274285023310
40	SA05-X	274286023310
50	NA09-X	274287023330
65	NA09-X	274288023330
80	NA15-X	274289023340
100	NA28-X	274290023360
125	NA28-X	274291023360
150	NA38-X	274292023370

ELECTRIC

753 - Electric actuated stainless steel ball valve

CF8M body & ball - TS: -30°C/+200°C.

DN	actuator	code
15	SA05	274402023010
20	SA05	274403023010
25	SA05	274404023010
32	SA05	274405023010
40	SA05	274406023010
50	NA09	274407023120
65	NA09	274408023120
80	NA15	274409023130
100	NA28	274410023150
125	NA28	274411023150
150	NA38	274412023160

Zones 1 & 2
10 €/pc

DN	actuator	ATEX code
15	SA05-X	274402023310
20	SA05-X	274403023310
25	SA05-X	274404023310
32	SA05-X	274405023310
40	SA05-X	274406023310
50	NA09-X	274407023330
65	NA09-X	274408023330
80	NA15-X	274409023340
100	NA28-X	274410023360
125	NA28-X	274411023360
150	NA38-X	274412023370

756 - Electric actuated carbon steel ball valve

A216WCB body - CF8M ball - TS: -20°C/+200°C.

NPS	actuator	code
1/2"	SA05	274322023010
3/4"	SA05	274323023010
1"	SA05	274324023010
1"1/2	SA05	274326023010
2"	NA09	274327023120
2"1/2	NA09	274328023120
3"	NA15	274329023130
4"	NA28	274330023150
6"	NA38	274332023160

NPS	actuator	ATEX code
1/2"	SA05-X	274322023310
3/4"	SA05-X	274323023310
1"	SA05-X	274324023310
1"1/2	SA05-X	274326023310
2"	NA09-X	274327023330
2"1/2	NA09-X	274328023330
3"	NA15-X	274329023340
4"	NA28-X	274330023360
6"	NA38-X	274332023370

757 - Electric actuated stainless steel ball valve

CF8M body & ball - TS: -29°C/+200°C.

NPS	actuator	code
1/2"	SA05	274422023010
3/4"	SA05	274423023010
1"	SA05	274424023010
1"1/2	SA05	274426023010
2"	NA09	274427023120
2"1/2	NA09	274428023120
3"	NA15	274429023130
4"	NA28	274430023150
6"	NA38	274432023160

NPS	actuator	ATEX code
1/2"	SA05-X	274422023310
3/4"	SA05-X	274423023310
1"	SA05-X	274424023310
1"1/2	SA05-X	274426023310
2"	NA09-X	274427023330
2"1/2	NA09-X	274428023330
3"	NA15-X	274429023340
4"	NA28-X	274430023360
6"	NA38-X	274432023370

768 - Electric actuated carbon steel ball valve

A216WCB body - CF8M ball - TS: -29°C/+250°C.

NPS	actuator	code
1/2"	SA05	274342023010
3/4"	SA05	274343023010
1"	SA05	274344023010
1"1/2	SA05	274346023010
2"	NA09	274347023120
3"	NA28	274349023150
4"	NA28	274350023150
6"	NA60	274352023180

NPS	actuator	ATEX code
1/2"	SA05-X	274342023310
3/4"	SA05-X	274343023310
1"	SA05-X	274344023310
1"1/2	SA05-X	274346023310
2"	NA09-X	274347023330
3"	NA28-X	274349023360
4"	NA28-X	274350023360
6"	NA60-X	274352023390

769 - Electric actuated stainless steel ball valve

CF8M body & ball - TS: -50°C/+250°C.

NPS	actuator	code
1/2"	SA05	274442023010
3/4"	SA05	274443023010
1"	SA05	274444023010
1"1/2	SA05	274446023010
2"	NA09	274447023120
3"	NA28	274449023150
4"	NA28	274450023150
6"	NA60	274452023180

NPS	actuator	ATEX code
1/2"	SA05-X	274442023310
3/4"	SA05-X	274443023310
1"	SA05-X	274444023310
1"1/2	SA05-X	274446023310
2"	NA09-X	274447023330
3"	NA28-X	274449023360
4"	NA28-X	274450023360
6"	NA60-X	274452023390

Split body - Fire safe - High temperature

Flanged RF PN40/16 - EN 558 series 1

Guarantee 5 Years

2014/68/EU Directive Nº0056 - Risk category III / module H1 - Fire safe ISO 10497, API 607 & BS 6755 - SIL 2 (& SIL 3 capable) - NACE MR0175 - Flanged RF PN40/16 up to DN50, RF PN16 above - EN 558 series 1 (DIN 3202 F1) - Impact test on request - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Lever operated up to DN150, supplied bare shaft above - PS: see tables.

NACE MR0175 | SIL | TA LUFT | FIRE SAFE | CE 0056 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

340/316 AIGF - Carbon steel

A216WCB body - F316 ball up to DN25, CF8M above - **PTFE + 25% glass fiber seats** - TS: -29°C/+230°C.

DN	15	20	25	32	40	50	65	80	100	125	150	200
face to face	130	150	160	180	200	230	290	310	350	400	480	600
PS (bar)	40	40	40	40	40	40	16	16	16	16	16	16
code	340AIGF015	340AIGF020	340AIGF025	340AIGF032	340AIGF040	340AIGF050	316AIGF065	316AIGF080	316AIGF100	316AIGF125	316AIGF150	316AIGF200

not on stock, on request.

340/316 AICG - Carbon steel

A216WCB body - F316 ball up to DN25, CF8M above - **PTFE + 20% graphite seats** - TS: -29°C/+260°C.

DN	15	20	25	32	40	50	65	80	100	125	150	200
face to face	130	150	160	180	200	230	290	310	350	400	480	600
PS (bar)	40	40	40	40	40	40	16	16	16	16	16	16
code	340AICG015	340AICG020	340AICG025	340AICG032	340AICG040	340AICG050	316AICG065	316AICG080	316AICG100	316AICG125	316AICG150	316AICG200

not on stock, on request.

340/316 IIT - Stainless steel

CF8M body - F316 ball up to DN25, CF8M above - **PTFE seats** - TS: -50°C/+230°C.

DN	15	20	25	32	40	50	65	80	100	125	150	200
face to face	130	150	160	180	200	230	290	310	350	400	480	600
PS (bar)	40	40	40	40	40	40	16	16	16	16	16	16
code	340IIT015	340IIT020	340IIT025	340IIT032	340IIT040	340IIT050	316IIT065	316IIT080	316IIT100	316IIT125	316IIT150	316IIT200

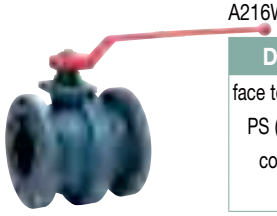
Flanged RF PN40/16 - EN 558 series 27

Guarantee 5 Years

2014/68/EU Directive Nº0056 - Risk category III / module H1 - Fire safe ISO 10497, API 607 & BS 6755 - SIL 2 (& SIL 3 capable) - NACE MR0175 - Flanged RF PN40/16 up to DN50, RF PN16 above - EN 558 series 27 (DIN 3202 F4/F5) - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Lever operated up to DN150, supplied bare shaft above - PS: see tables.

NACE MR0175 | SIL | TA LUFT | FIRE SAFE | CE 0056 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

540/516 AIT - Carbon steel

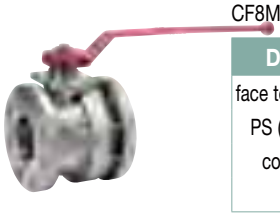


A216WCB body - F316 ball up to DN25, CF8M above - **PTFE seats** - TS: -29°C/+230°C.

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
face to face	115	120	125	130	140	150	170	180	190	325	350	400	450	500
PS (bar)	40	40	40	40	40	40	16	16	16	16	16	16	16	16
code	540AIT015	540AIT020	540AIT025	540AIT032	540AIT040	540AIT050	516AIT065	516AIT080	516AIT100	516AIT125	516AIT150	516AIT200	516AIT250	516AIT300

not on stock, on request.

540/516 IIT - Stainless steel

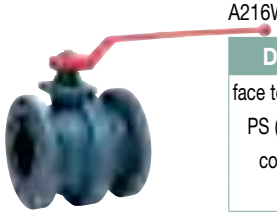


CF8M body - F316 ball up to DN25, CF8M above - **PTFE seats** - TS: -50°C/+230°C.

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
face to face	115	120	125	130	140	150	170	180	190	325	350	400	450	500
PS (bar)	40	40	40	40	40	40	16	16	16	16	16	16	16	16
code	540IIT015	540IIT020	540IIT025	540IIT032	540IIT040	540IIT050	516IIT065	516IIT080	516IIT100	516IIT125	516IIT150	516IIT200	516IIT250	516IIT300

not on stock, on request.

540/516 AIGF - Carbon steel



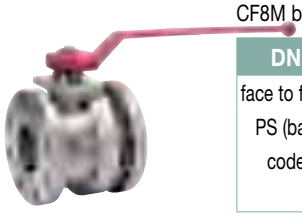
A216WCB body - F316 ball up to DN25, CF8M above - **PTFE + 25% glass fiber seats** - TS: -29°C/+230°C.

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
face to face	115	120	125	130	140	150	170	180	190	325	350	400	450	500
PS (bar)	40	40	40	40	40	40	16	16	16	16	16	16	16	16
code	540AIGF015	540AIGF020	540AIGF025	540AIGF032	540AIGF040	540AIGF050	516AIGF065	516AIGF080	516AIGF100	516AIGF125	516AIGF150	516AIGF200	516AIGF250	516AIGF300

not on stock, on request.

540/516 IIGF - Stainless steel

CF8M body - F316 ball up to DN25, CF8M above - **PTFE + 25% glass fiber seats** - TS: -50°C/+230°C.



DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
face to face	115	120	125	130	140	150	170	180	190	325	350	400	450	500
PS (bar)	40	40	40	40	40	40	16	16	16	16	16	16	16	16
code	540IIGF015	540IIGF020	540IIGF025	540IIGF032	540IIGF040	540IIGF050	516IIGF065	516IIGF080	516IIGF100	516IIGF125	516IIGF150	516IIGF200	516IIGF250	516IIGF300

not on stock, on request.

540/516 AICG - Carbon steel

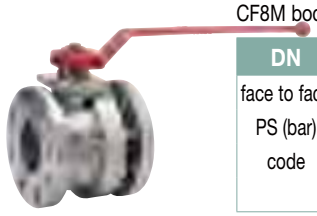
A216WCB body - F316 ball up to DN25, CF8M above - **PTFE + 20% graphite seats** - TS: -29°C/+260°C.

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
face to face	115	120	125	130	140	150	170	180	190	325	350	400	450	500
PS (bar)	40	40	40	40	40	40	16	16	16	16	16	16	16	16
code	540AICG015	540AICG020	540AICG025	540AICG032	540AICG040	540AICG050	516AICG065	516AICG080	516AICG100	516AICG125	516AICG150	516AICG200	516AICG250	516AICG300

not on stock, on request.

540/516 IICG - Stainless steel

CF8M body - F316 ball up to DN25, CF8M above - **PTFE + 20% graphite seats** - TS: -50°C/+260°C.

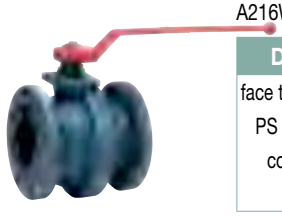


DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
face to face	115	120	125	130	140	150	170	180	190	325	350	400	450	500
PS (bar)	40	40	40	40	40	40	16	16	16	16	16	16	16	16
code	540IICG015	540IICG020	540IICG025	540IICG032	540IICG040	540IICG050	516IICG065	516IICG080	516IICG100	516IICG125	516IICG150	516IICG200	516IICG250	516IICG300

not on stock, on request.

540/516 AIS - Carbon steel

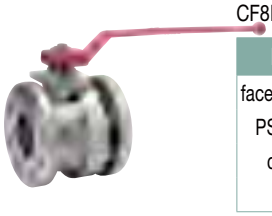
A216WCB body - F316 ball up to DN25, CF8M above - **STANSIT® seats** (PTFE + 50% stainless steel) - TS: -29°C/+260°C.



DN	15	20	25	32	40	50	65	80	100	125	150	200
face to face	115	120	125	130	140	150	170	180	190	325	350	400
PS (bar)	40	40	40	40	40	40	16	16	16	16	16	16
code	540AIS015	540AIS020	540AIS025	540AIS032	540AIS040	540AIS050	516AIS065	516AIS080	516AIS100	516AIS125	516AIS150	516AIS200

540/516 IIS - Stainless steel

CF8M body - F316 ball up to DN25, CF8M above - **STANSIT® seats** (PTFE + 50% stainless steel) - TS: -50°C/+260°C.



DN	15	20	25	32	40	50	65	80	100	125	150	200
face to face	115	120	125	130	140	150	170	180	190	325	350	400
PS (bar)	40	40	40	40	40	40	16	16	16	16	16	16
code	540IIS015	540IIS020	540IIS025	540IIS032	540IIS040	540IIS050	516IIS065	516IIS080	516IIS100	516IIS125	516IIS150	516IIS200

Flanged RF ANSI 150

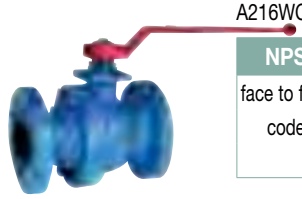
Guarantee 5 Years

2014/68/EU Directive N°0056 - Risk category III / module H1 - Fire safe ISO 10497, API 607 & BS 6755 - SIL 2 (& SIL 3 capable) - NACE MR0175 - EN 558 series 3 up to 4", series 12 above - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Lever operated up to DN150, supplied bare shaft above - PS: 20 bar.

NACE MR0175 | SIL | TA LUFT | FIRE SAFE | CE 0056 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

515 AIT - Carbon steel

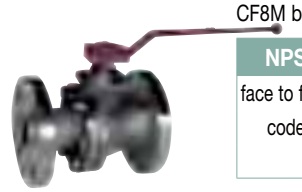
A216WCB body - F316 ball up to DN25, CF8M above - **PTFE seats** - TS: -29°C/+230°C.



NPS	1/2"	3/4"	1"	1"1/2	2"	2"1/2	3"	4"	6"	8"	10"	12"
face to face	108	117	127	165	178	190	203	229	394	457	533	610
code	515AIT015	515AIT020	515AIT025	515AIT040	515AIT050	515AIT065	515AIT080	515AIT100	515AIT150	515AIT200	515AIT250	515AIT300

515 IIT - Stainless steel

CF8M body - F316 ball up to DN25, CF8M above - **PTFE seats** - TS: -50°C/+230°C.

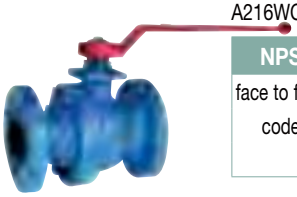


NPS	1/2"	3/4"	1"	1"1/2	2"	2"1/2	3"	4"	6"	8"	10"	12"
face to face	108	117	127	165	178	190	203	229	394	457	533	610
code	515IIT015	515IIT020	515IIT025	515IIT040	515IIT050	515IIT065	515IIT080	515IIT100	515IIT150	515IIT200	515IIT250	515IIT300

not on stock, on request.

515 AIGF - Carbon steel

A216WCB body - F316 ball up to DN25, CF8M above - **PTFE + 25% glass fiber seats** - TS: -29°C/+230°C.



NPS	1/2"	3/4"	1"	1"1/2	2"	3"	4"	6"	8"	10"	12"
face to face	108	117	127	165	178	203	229	394	457	533	610
code	515AIGF015	515AIGF020	515AIGF025	515AIGF040	515AIGF050	515AIGF080	515AIGF100	515AIGF150	515AIGF200	515AIGF250	515AIGF300

not on stock, on request.

Flanged RF ANSI 300

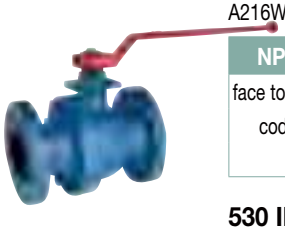
Guarantee 5 Years

2014/68/EU Directive N°0056 - Risk category III / module H1 - Fire safe ISO 10497, API 607 & BS 6755 - SIL 2 (& SIL 3 capable) - NACE MR0175 - EN 558 series 4 up to 6" - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Lever operated up to DN150, supplied bare shaft above - PS: 50 bar.

NACE MR0175 | SIL | TA LUFT | FIRE SAFE | CE 0056 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

530 AIT - Carbon steel

A216WCB body - F316 ball up to DN25, CF8M above - **PTFE seats** - TS: -29°C/+230°C.

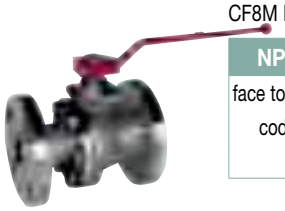


NPS	1/2"	3/4"	1"	1"1/2	2"	3"	4"	6"	8"	10"	12"
face to face	140	152	165	190	216	282	305	403	502	568	648
code	530AIT015	530AIT020	530AIT025	530AIT040	530AIT050	530AIT080	530AIT100	530AIT150	530AIT200	530AIT250	530AIT300

not on stock, on request.

530 IIT - Stainless steel

CF8M body - F316 ball up to DN25, CF8M above - **PTFE seats** - TS: -50°C/+230°C.



NPS	1/2"	3/4"	1"	1"1/2	2"	3"	4"	6"	8"	10"	12"
face to face	140	152	165	190	216	282	305	403	502	568	648
code	530IIT015	530IIT020	530IIT025	530IIT040	530IIT050	530IIT080	530IIT100	530IIT150	530IIT200	530IIT250	530IIT300

not on stock, on request.

Options & spare parts

Stainless steel locking device

MOUNTING 7 €/pc

DN	15	20	25	32	40	50	65	80	100	125	150
code	9830120	9830120	9830121	9830122	9830123	9830123	9830124	9830125	9830126	9830127	9830128

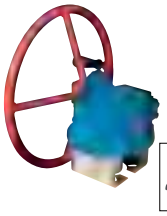
Spare stainless steel lever

DN	15	20	25	32	40	50	65	80	100	125	150
code	9830513	9830513	9830513	9830514	9830515	9830515	9830516	9830517	9830518	9830519	9830520

Spare stainless steel oval wheel

DN	15	20	25	32	40	50
code	9830575	9830575	9830575	9830576	9830577	9830577

Spare gearbox



DN	125	150	200	250
code for 316/516/515	9830598	9830592	9830593	9830596
mounting code	WORKGB2	WORKGB2	WORKGB2	WORKGB2

DN	125	150	200	250	300
code for 340/540/530	9830598	9830592	9830595	9830596	9830597
mounting code	WORKGB2	WORKGB2	WORKGB2	WORKGB2	WORKGB2

Stainless steel stem extension

MOUNTING 7 €/pc

Height 100 mm

DN	15-25	32	40-50	65	80	100	125	150
code	9810615	9810616	9810617	9810618	9810619	9810620	9810621	9810622

not on stock, on request.

Stainless steel stem extension with ISO pad

MOUNTING 7 €/pc

Height 100 mm

DN	15-20	25	32	40-50	65	80	100	125	150	200
code	JCRISO015020	JCRISO025	JCRISO032	JCRISO040050	JCRISO065	JCRISO080	JCRISO100	JCVSSBI125	JCVSSBI150	JCVSSBI200

not on stock, on request.

Manual valves with limit switch box

Manual ball valves equipped with SF012 limit switch box IP67 - SPDT 250V-5A (see features of the limit switch box page 183).

Flanged RF PN40/16 - EN 558 series 1

340/316 AICG - Carbon steel
A216WCB body - PTFE + 20% graphite seats - Full bore - PS: see table - TS: -29°C/+260°C.

DN	PS (bar)	face to face	340/316 AICG code
15	40	130	340AICG015462012
20	40	150	340AICG020462012
25	40	160	340AICG025462012
32	40	180	340AICG032462012
40	40	200	340AICG040462012
50	40	230	340AICG050462012
65	16	290	316AICG065462012
80	16	310	316AICG080462012
100	16	350	316AICG100462012
125	16	400	316AICG125462012
150	16	480	316AICG150462012

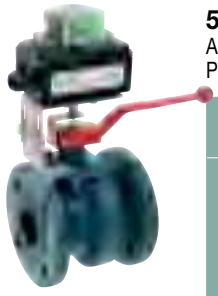
Ex on request

340/316 IIT - Stainless steel
CF8M body - PTFE seats - Full bore - PS: see table - TS: -50°C/+230°C.

DN	PS (bar)	face to face	340/316 IIT code
15	40	130	340IIT0150462012
20	40	150	340IIT0200462012
25	40	160	340IIT0250462012
32	40	180	340IIT0320462012
40	40	200	340IIT0400462012
50	40	230	340IIT0500462012
65	16	290	316IIT0650462012
80	16	310	316IIT0800462012
100	16	350	316IIT1000462012
125	16	400	316IIT1250462012
150	16	480	316IIT1500462012

Ex on request

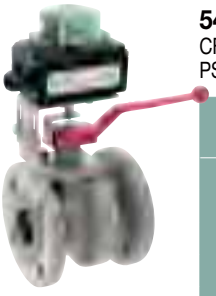
Flanged RF PN40/16 - EN 558 series 27



540/516 AIT - Carbon steel
A216WCB body - PTFE seats - Full bore - PS: see table - TS: -29°C/+230°C.

DN	PS (bar)	face to face	540/516 AIT code
15	40	115	540AIT0150462012
20	40	120	540AIT0200462012
25	40	125	540AIT0250462012
32	40	130	540AIT0320462012
40	40	140	540AIT0400462012
50	40	150	540AIT0500462012
65	16	170	516AIT0650462012
80	16	180	516AIT0800462012
100	16	190	516AIT1000462012
125	16	325	516AIT1250462012
150	16	350	516AIT1500462012

Ex on request



540/516 IIT - Stainless steel
CF8M body - PTFE seats - Full bore - PS: see table - TS: -50°C/+230°C.

DN	PS (bar)	face to face	540/516 IIT code
15	40	115	540IIT0150462012
20	40	120	540IIT0200462012
25	40	125	540IIT0250462012
32	40	130	540IIT0320462012
40	40	140	540IIT0400462012
50	40	150	540IIT0500462012
65	16	170	516IIT0650462012
80	16	180	516IIT0800462012
100	16	190	516IIT1000462012
125	16	325	516IIT1250462012
150	16	350	516IIT1500462012

Ex on request

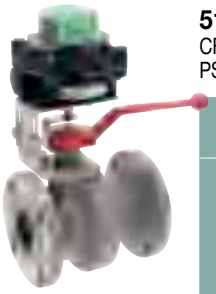
Manual ball valves equipped with SK012 limit switch box IP67 - SPDT 250V-5A (see features of the limit switch box page 183).
Protection rating CE Ex II 2G Ex d IIC T6/T5/T4 & CE Ex II 2D Ex tb IIIC T85°/100°C/135°C Db IP66-67

Ex 10 €/pc

Flanged RF ansi 150

515 AIT - Carbon steel
A216WCB body - PTFE seats - Full bore - PS: 20 bar - TS: -29°C/+230°C.

NPS	PS (bar)	face to face	515 AIT code
15	20	108	515AIT0150477012
20	20	117	515AIT0200477012
25	20	127	515AIT0250477012
40	20	165	515AIT0400477012
50	20	178	515AIT0500477012
65	20	190	515AIT0650477012
80	20	203	515AIT0800477012
100	20	229	515AIT1000477012
150	20	394	515AIT1500477012



515 IIT - Stainless steel
CF8M body - PTFE seats - Full bore - PS: 20 bar - TS: -50°C/+230°C.

NPS	PS (bar)	face to face	515 IIT code
15	20	108	515IIT0150477012
20	20	117	515IIT0200477012
25	20	127	515IIT0250477012
40	20	165	515IIT0400477012
50	20	178	515IIT0500477012
65	20	190	515IIT0650477012
80	20	203	515IIT0800477012
100	20	229	515IIT1000477012
150	20	394	515IIT1500477012

Split body - Fire safe - High temperature

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
⚠ **ΔP max.: 10 bar** - Actuators & automation complements, see page 169.

PNEUMATIC

340/316 AIGF - Pneumatic actuated carbon steel ball valve

A216WCB body - CF8M ball - **PTFE + 25% glass fiber seats** - TS: -20°C/+230°C.

SIL Ex 10 €/pc

ACTREG

double acting		
DN	actuator	code
15	ADA20	340AIGF015015100
20	ADA20	340AIGF020015100
25	ADA40	340AIGF025015101
32	ADA40	340AIGF032015101
40	ADA80	340AIGF040015102
50	ADA80	340AIGF050015102
65	ADA130	316AIGF065015103
80	ADA200	316AIGF080015104
100	ADA200	316AIGF100015104
125	ADA500	316AIGF125015106
150	ADA500	316AIGF150015106

not on stock, on request.

ACTREG

spring return		
DN	actuator	code
15	ASR40	340AIGF015016101
20	ASR80	340AIGF020016102
25	ASR80	340AIGF025016102
32	ASR80	340AIGF032016102
40	ASR130	340AIGF040016103
50	ASR200	340AIGF050016104
65	ASR300	316AIGF065016105
80	ASR500	316AIGF080016106
100	ASR500	316AIGF100016106
125	ASR850	316AIGF125016107
150	ASR1200	316AIGF150016108

not on stock, on request.

PNEUMATIC

340/316 AICG - Pneumatic actuated carbon steel ball valve

A216WCB body - CF8M ball - **PTFE + 20% graphite seats** - TS: -20°C/+260°C.

SIL Ex 10 €/pc

ACTREG

double acting		
DN	actuator	code
15	ADA20	340AICG015015100
20	ADA20	340AICG020015100
25	ADA40	340AICG025015101
32	ADA40	340AICG032015101
40	ADA80	340AICG040015102
50	ADA80	340AICG050015102
65	ADA130	316AICG065015103
80	ADA200	316AICG080015104
100	ADA200	316AICG100015104
125	ADA500	316AICG125015106
150	ADA500	316AICG150015106

ACTREG

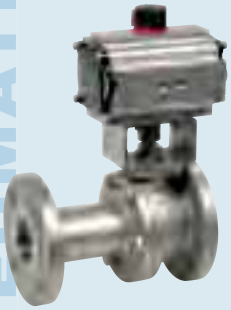
spring return		
DN	actuator	code
15	ASR40	340AICG015016101
20	ASR80	340AICG020016102
25	ASR80	340AICG025016102
32	ASR80	340AICG032016102
40	ASR130	340AICG040016103
50	ASR200	340AICG050016104
65	ASR300	316AICG065016105
80	ASR500	316AICG080016106
100	ASR500	316AICG100016106
125	ASR850	316AICG125016107
150	ASR1200	316AICG150016108

PNEUMATIC

340/316 IIT - Pneumatic actuated stainless steel ball valve

CF8M body & ball - **PTFE seats** - TS: -50°C/+230°C.

SIL Ex 10 €/pc



ACTREG

double acting		
DN	actuator	code
15	ADA20	340IIT015015100
20	ADA20	340IIT020015100
25	ADA40	340IIT025015101
32	ADA40	340IIT032015101
40	ADA80	340IIT040015102
50	ADA80	340IIT050015102
65	ADA130	316IIT065015103
80	ADA200	316IIT080015104
100	ADA200	316IIT100015104
125	ADA500	316IIT125015106
150	ADA500	316IIT150015106

ACTREG

spring return		
DN	actuator	code
15	ASR40	340IIT015016101
20	ASR80	340IIT020016102
25	ASR80	340IIT025016102
32	ASR80	340IIT032016102
40	ASR130	340IIT040016103
50	ASR200	340IIT050016104
65	ASR300	316IIT065016105
80	ASR500	316IIT080016106
100	ASR500	316IIT100016106
125	ASR850	316IIT125016107
150	ASR1200	316IIT150016108

540/516 AIT - Pneumatic actuated carbon steel ball valve

A216WCB body - CF8M ball - **PTFE seats** - TS: -20°C/+230°C.

SIL 10 €/pc

ACTREG

double acting		
DN	actuator	code
15	ADA20	540AIT015015100
20	ADA20	540AIT020015100
25	ADA40	540AIT025015101
32	ADA40	540AIT032015101
40	ADA80	540AIT040015102
50	ADA80	540AIT050015102
65	ADA130	516AIT065015103
80	ADA200	516AIT080015104
100	ADA300	516AIT100015105
125	ADA500	516AIT125015106
150	ADA850	516AIT150015107

ACTREG

spring return		
DN	actuator	code
15	ASR40	540AIT015016101
20	ASR80	540AIT020016102
25	ASR80	540AIT025016102
32	ASR80	540AIT032016102
40	ASR130	540AIT040016103
50	ASR200	540AIT050016104
65	ASR300	516AIT065016105
80	ASR500	516AIT080016106
100	ASR850	516AIT100016107
125	ASR850	516AIT125016107
150	ASR1200	516AIT150016108

540/516 IIT - Pneumatic actuated stainless steel ball valve

CF8M body & ball - **PTFE seats** - TS: -50°C/+230°C.

SIL 10 €/pc

ACTREG

double acting		
DN	actuator	code
15	ADA20	540IIT015015100
20	ADA20	540IIT020015100
25	ADA40	540IIT025015101
32	ADA40	540IIT032015101
40	ADA80	540IIT040015102
50	ADA80	540IIT050015102
65	ADA130	516IIT065015103
80	ADA200	516IIT080015104
100	ADA300	516IIT100015105
125	ADA500	516IIT125015106
150	ADA850	516IIT150015107

ACTREG

spring return		
DN	actuator	code
15	ASR40	540IIT015016101
20	ASR80	540IIT020016102
25	ASR80	540IIT025016102
32	ASR80	540IIT032016102
40	ASR130	540IIT040016103
50	ASR200	540IIT050016104
65	ASR300	516IIT065016105
80	ASR500	516IIT080016106
100	ASR850	516IIT100016107
125	ASR850	516IIT125016107
150	ASR1200	516IIT150016108

540/516 AIGF - Pneumatic actuated carbon steel ball valve

A216WCB body - CF8M ball - **PTFE + 25% glass fiber seats** - TS: -20°C/+230°C.

SIL 10 €/pc

ACTREG

double acting		
DN	actuator	code
15	ADA20	540AIGF015015100
20	ADA20	540AIGF020015100
25	ADA40	540AIGF025015101
32	ADA40	540AIGF032015101
40	ADA80	540AIGF040015102
50	ADA80	540AIGF050015102
65	ADA130	516AIGF065015103
80	ADA200	516AIGF080015104
100	ADA300	516AIGF100015105
125	ADA500	516AIGF125015106
150	ADA850	516AIGF150015107

ACTREG

spring return		
DN	actuator	code
15	ASR40	540AIGF015016101
20	ASR80	540AIGF020016102
25	ASR80	540AIGF025016102
32	ASR80	540AIGF032016102
40	ASR130	540AIGF040016103
50	ASR200	540AIGF050016104
65	ASR300	516AIGF065016105
80	ASR500	516AIGF080016106
100	ASR500	516AIGF100016107
125	ASR850	516AIGF125016107
150	ASR1200	516AIGF150016108

540/516 IIGF - Pneumatic actuated stainless steel ball valve

CF8M body & ball - **PTFE + 25% glass fiber seats** - TS: -50°C/+230°C.

SIL 10 €/pc

ACTREG

double acting		
DN	actuator	code
15	ADA20	540IIGF015015100
20	ADA20	540IIGF020015100
25	ADA40	540IIGF025015101
32	ADA40	540IIGF032015101
40	ADA80	540IIGF040015102
50	ADA80	540IIGF050015102
65	ADA130	516IIGF065015103
80	ADA200	516IIGF080015104
100	ADA300	516IIGF100015105
125	ADA500	516IIGF125015106
150	ADA850	516IIGF150015107

not on stock, on request.

ACTREG

spring return		
DN	actuator	code
15	ASR40	540IIGF015016101
20	ASR80	540IIGF020016102
25	ASR80	540IIGF025016102
32	ASR80	540IIGF032016102
40	ASR130	540IIGF040016103
50	ASR200	540IIGF050016104
65	ASR300	516IIGF065016105
80	ASR500	516IIGF080016106
100	ASR850	540IIGF100016107
125	ASR850	540IIGF100016107
150	ASR1200	516IIGF150016108

not on stock, on request.

PNEUMATIC

540/516 AICG - Pneumatic actuated carbon steel ball valve

A216WCB body - CF8M ball - **PTFE + 20% graphite seats** - TS: -20°C/+260°C.

SIL 10 €/pc

ACTREG

double acting		
DN	actuator	code
15	ADA20	540AICG015015100
20	ADA20	540AICG020015100
25	ADA40	540AICG025015101
32	ADA40	540AICG032015101
40	ADA80	540AICG040015102
50	ADA80	540AICG050015102
65	ADA130	516AICG065015103
80	ADA200	516AICG080015104
100	ADA300	516AICG100015105
125	ADA500	516AICG125015106
150	ADA850	516AICG150015107

ACTREG

spring return		
DN	actuator	code
15	ASR40	540AICG015016101
20	ASR80	540AICG020016102
25	ASR80	540AICG025016102
32	ASR80	540AICG032016102
40	ASR130	540AICG040016103
50	ASR200	540AICG050016104
65	ASR300	516AICG065016105
80	ASR500	516AICG080016106
100	ASR850	516AICG100016107
125	ASR850	516AICG125016107
150	ASR1200	516AICG150016108

PNEUMATIC

540/516 IICG - Pneumatic actuated stainless steel ball valve

CF8M body & ball - **PTFE + 20% graphite seats** - TS: -50°C/+260°C.

SIL 10 €/pc

ACTREG

double acting		
DN	actuator	code
15	ADA20	540IICG015015100
20	ADA20	540IICG020015100
25	ADA40	540IICG025015101
32	ADA40	540IICG032015101
40	ADA80	540IICG040015102
50	ADA80	540IICG050015102
65	ADA130	516IICG065015103
80	ADA200	516IICG080015104
100	ADA300	516IICG100015105
125	ADA500	516IICG125015106
150	ADA850	516IICG150015107

not on stock, on request.

ACTREG

spring return		
DN	actuator	code
15	ASR40	540IICG015016101
20	ASR80	540IICG020016102
25	ASR80	540IICG025016102
32	ASR80	540IICG032016102
40	ASR130	540IICG040016103
50	ASR200	540IICG050016104
65	ASR300	516IICG065016105
80	ASR500	516IICG080016106
100	ASR850	516IICG100016107
125	ASR850	516IICG125016107
150	ASR1200	516IICG150016108

not on stock, on request.

PNEUMATIC

540/516 AIS - Pneumatic carbon steel ball valve

A216WCB body - CF8M ball - **STANSIT® seats** (PTFE + 50% stainless steel) - TS: -20°C/+260°C.

SIL 10 €/pc

ACTREG

double acting		
DN	actuator	code
15	ADA20	540AIS015015100
20	ADA20	540AIS020015100
25	ADA40	540AIS025015101
32	ADA40	540AIS032015101
40	ADA80	540AIS040015102
50	ADA80	540AIS050015102
65	ADA130	516AIS065015103
80	ADA200	516AIS080015104
100	ADA300	516AIS100015105
125	ADA500	516AIS125015106
150	ADA850	516AIS150015107

ACTREG

spring return		
DN	actuator	code
15	ASR40	540AIS015016101
20	ASR80	540AIS020016102
25	ASR80	540AIS025016102
32	ASR80	540AIS032016102
40	ASR130	540AIS040016103
50	ASR200	540AIS050016104
65	ASR300	516AIS065016105
80	ASR500	516AIS080016106
100	ASR850	516AIS100016107
125	ASR850	516AIS125016107
150	ASR1200	516AIS150016108

PNEUMATIC

540/516 IIS - Pneumatic actuated stainless steel ball valve

CF8M body & ball - **STANSIT® seats** (PTFE + 50% stainless steel) - TS: -50°C/+260°C.

SIL 10 €/pc

ACTREG

double acting		
DN	actuator	code
15	ADA20	540IIS015015100
20	ADA20	540IIS020015100
25	ADA40	540IIS025015101
32	ADA40	540IIS032015101
40	ADA40	540IIS040015102
50	ADA80	540IIS050015102
65	ADA130	516IIS065015103
80	ADA200	516IIS080015104
100	ADA300	516IIS100015105
125	ADA500	516IIS125015106
150	ADA850	516IIS150015107

ACTREG

spring return		
DN	actuator	code
15	ASR40	540IIS015016101
20	ASR80	540IIS020016102
25	ASR80	540IIS025016102
32	ASR80	540IIS032016102
40	ASR130	540IIS040016103
50	ASR200	540IIS050016104
65	ASR300	516IIS065016105
80	ASR500	516IIS080016106
100	ASR850	516IIS100016107
125	ASR850	516IIS125016107
150	ASR1200	516IIS150016108

515 AIT - Pneumatic actuated carbon steel ball valve

A216WCB body - CF8M ball - **PTFE seats** - TS: -29°C/+230°C.

SIL Ex 10 €/pc

ACTREG

double acting		
NPS	actuator	code
1/2"	ADA20	515AIT015015100
3/4"	ADA20	515AIT020015100
1"	ADA40	515AIT025015101
1"1/2	ADA80	515AIT040015102
2"	ADA80	515AIT050015102
2"1/2	ADA130	515AIT065015103
3"	ADA200	515AIT080015104
4"	ADA300	515AIT100015105
6"	ADA500	515AIT150015106
8"	ADA2500	515AIT200015111

ACTREG

spring return		
NPS	actuator	code
1/2"	ASR40	515AIT015016101
3/4"	ASR40	515AIT020016101
1"	ASR80	515AIT025016102
1"1/2	ASR130	515AIT040016103
2"	ASR200	515AIT050016104
2"1/2	ASR300	515AIT065016105
3"	ASR500	515AIT080016106
4"	ASR500	515AIT100016106
6"	ASR1200	515AIT150016108
8"	ASR2500	515AIT200016111

PNEUMATIC

515 IIT - Pneumatic actuated stainless steel ball valve

CF8M body & ball - **PTFE seats** - TS: -50°C/+230°C.

SIL Ex 10 €/pc

ACTREG

double acting		
NPS	actuator	code
1/2"	ADA20	515IIT015015100
3/4"	ADA20	515IIT020015100
1"	ADA40	515IIT025015101
1"1/2	ADA80	515IIT040015102
2"	ADA80	515IIT050015102
2"1/2	ADA130	515IIT065015103
3"	ADA200	515IIT080015104
4"	ADA300	515IIT100015105
6"	ADA500	515IIT150015106
8"	ADA2500	515IIT200015111

ACTREG

spring return		
NPS	actuator	code
1/2"	ASR40	515IIT015016101
3/4"	ASR40	515IIT020016101
1"	ASR80	515IIT025016102
1"1/2	ASR130	515IIT040016103
2"	ASR200	515IIT050016104
2"1/2	ASR300	515IIT065016105
3"	ASR500	515IIT080016106
4"	ASR500	515IIT100016106
6"	ASR1200	515IIT150016108
8"	ASR2500	515IIT200016111

PNEUMATIC

530 AIT - Pneumatic actuated carbon steel ball valve

A216WCB body - CF8M ball - **PTFE seats** - TS: -29°C/+230°C.

SIL Ex 10 €/pc

ACTREG

double acting		
NPS	actuator	code
1/2"	ADA20	530AIT015015100
3/4"	ADA40	530AIT020015101
1"	ADA40	530AIT025015101
1"1/2	ADA80	530AIT040015102
2"	ADA80	530AIT050015102
3"	ADA300	530AIT080015105
4"	ADA500	530AIT100015106
6"	ADA850	530AIT150015107

ACTREG

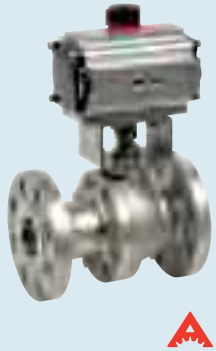
spring return		
NPS	actuator	code
1/2"	ASR40	530AIT015016101
3/4"	ASR80	530AIT020016102
1"	ASR80	530AIT025016102
1"1/2	ASR130	530AIT040016103
2"	ASR200	530AIT050016104
3"	ASR500	530AIT080016106
4"	ASR850	530AIT100016107
6"	ASR1200	530AIT150016108

PNEUMATIC

530 IIT - Pneumatic actuated stainless steel ball valve

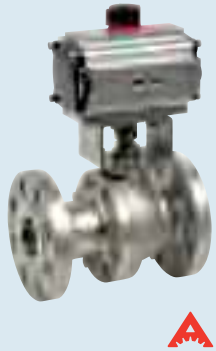
CF8M body & ball - **PTFE seats** - TS: -50°C/+230°C.

SIL Ex 10 €/pc



ACTREG

double acting		
NPS	actuator	code
1/2"	ADA20	530IIT015015100
3/4"	ADA40	530IIT020015101
1"	ADA40	530IIT025015101
1"1/2	ADA80	530IIT040015102
2"	ADA80	530IIT050015102
3"	ADA300	530IIT080015105
4"	ADA500	530IIT100015106
6"	ADA850	530IIT150015107



ACTREG

spring return		
NPS	actuator	code
1/2"	ASR40	530IIT015016101
3/4"	ASR80	530IIT020016102
1"	ASR80	530IIT025016102
1"1/2	ASR130	530IIT040016103
2"	ASR200	530IIT050016104
3"	ASR500	530IIT080016106
4"	ASR850	530IIT100016107
6"	ASR1200	530IIT150016108

PNEUMATIC

Split body - Fire safe - High temperature

All our electric actuated ball valves are equipped with a 230V AC actuator as standard - Other power supply on request, please consult.
⚠ **ΔP max.: 10 bar** - Actuators & automation complements, see page 169.

ELECTRIC

340/316 AIGF - Electric actuated carbon steel ball valve

A216WCB body - CF8M ball - **PTFE + 25% glass fiber seats** - TS: -20°C/+230°C.

DN	actuator	code
15	SA03	340AIGF015023000
20	SA03	340AIGF020023000
25	SA03	340AIGF025023000
32	SA05	340AIGF032023010
40	SA05	340AIGF040023010
50	NA09	340AIGF050023120
65	NA09	316AIGF065023120
80	NA15	316AIGF080023130
100	NA28	316AIGF100023150
125	NA38	316AIGF125023160
150	NA60	316AIGF150023180
200	NA150	316AIGF200023210

not on stock, on request.

Ex 10 €/pc

DN	actuator	ATEX code
15	SA05-X	340AIGF015023310
20	SA05-X	340AIGF020023310
25	SA05-X	340AIGF025023310
32	SA05-X	340AIGF032023310
40	SA05-X	340AIGF040023310
50	NA09-X	340AIGF050023330
65	NA09-X	316AIGF065023330
80	NA15-X	316AIGF080023340
100	NA28-X	316AIGF100023360
125	NA38-X	316AIGF125023370
150	NA60-X	316AIGF150023390

not on stock, on request.

ELECTRIC

340/316 AICG - Electric actuated carbon steel ball valve

A216WCB body - CF8M ball - **PTFE + 20% graphite seats** - TS: -20°C/+260°C.

DN	actuator	code
15	SA03	340AICG015023000
20	SA03	340AICG020023000
25	SA03	340AICG025023000
32	SA05	340AICG032023010
40	SA05	340AICG040023010
50	NA09	340AICG050023120
65	NA09	316AICG065023120
80	NA15	316AICG080023130
100	NA28	316AICG100023150
125	NA38	316AICG125023160
150	NA60	316AICG150023180
200	NA150	316AICG200023210

not on stock, on request.

Ex 10 €/pc

DN	actuator	ATEX code
15	SA05-X	340AICG015023310
20	SA05-X	340AICG020023310
25	SA05-X	340AICG025023310
32	SA05-X	340AICG032023310
40	SA05-X	340AICG040023310
50	NA09-X	340AICG050023330
65	NA09-X	316AICG065023330
80	NA15-X	316AICG080023340
100	NA28-X	316AICG100023360
125	NA38-X	316AICG125023370
150	NA60-X	316AICG150023390

not on stock, on request.

ELECTRIC

340/316 IIT - Electric actuated stainless steel ball valve

CF8M body & ball - **PTFE seats** - TS: -50°C/+230°C.

DN	actuator	code
15	SA03	340IIT015023000
20	SA03	340IIT020023000
25	SA03	340IIT025023000
32	SA05	340IIT032023010
40	SA05	340IIT040023010
50	NA09	340IIT050023120
65	NA09	316IIT065023120
80	NA15	316IIT080023130
100	NA28	316IIT100023150
125	NA38	316IIT125023160
150	NA60	316IIT150023180
200	NA150	316IIT200023210

Ex 10 €/pc

DN	actuator	ATEX code
15	SA05-X	340IIT015023310
20	SA05-X	340IIT020023310
25	SA05-X	340IIT025023310
32	SA05-X	340IIT032023310
40	SA05-X	340IIT040023310
50	NA09-X	340IIT050023330
65	NA09-X	316IIT065023330
80	NA15-X	316IIT080023340
100	NA28-X	316IIT100023360
125	NA38-X	316IIT125023370
150	NA60-X	316IIT150023390

540/516 AIT - Electric actuated carbon steel ball valve

A216WCB body - CF8M ball - **PTFE seats** - TS: -20°C/+230°C.

DN	actuator	code
15	SA03	540AIT015023000
20	SA03	540AIT020023000
25	SA03	540AIT025023000
32	SA05	540AIT032023010
40	SA05	540AIT040023010
50	NA09	540AIT050023120
65	NA09	516AIT065023120
80	NA15	516AIT080023130
100	NA28	516AIT100023150
125	NA38	516AIT125023160
150	NA60	516AIT150023180
200	NA150	516AIT200023210

DN	actuator	ATEX code
15	SA05-X	540AIT015023310
20	SA05-X	540AIT020023310
25	SA05-X	540AIT025023310
32	SA05-X	540AIT032023310
40	SA05-X	540AIT040023310
50	NA09-X	540AIT050023330
65	NA09-X	516AIT065023330
80	NA15-X	516AIT080023340
100	NA28-X	516AIT100023360
125	NA38-X	516AIT125023370
150	NA60-X	516AIT150023390

540/516 IIT - Electric actuated stainless steel ball valve

CF8M body & ball - **PTFE seats** - TS: -50°C/+230°C.

DN	actuator	code
15	SA03	540IIT015023000
20	SA03	540IIT020023000
25	SA03	540IIT025023000
32	SA05	540IIT032023010
40	SA05	540IIT040023010
50	NA09	540IIT050023120
65	NA09	516IIT065023120
80	NA15	516IIT080023130
100	NA28	516IIT100023150
125	NA38	516IIT125023160
150	NA60	516IIT150023180
200	NA150	516IIT200023210

DN	actuator	ATEX code
15	SA05-X	540IIT015023310
20	SA05-X	540IIT020023310
25	SA05-X	540IIT025023310
32	SA05-X	540IIT032023310
40	SA05-X	540IIT040023310
50	NA09-X	540IIT050023330
65	NA09-X	516IIT065023330
80	NA15-X	516IIT080023340
100	NA28-X	516IIT100023360
125	NA38-X	516IIT125023370
150	NA60-X	516IIT150023390

not on stock, on request.

540/516 AIGF - Electric actuated carbon steel ball valve

A216WCB body - CF8M ball - **PTFE + 25% glass fiber seats** - TS: -20°C/+230°C.

DN	actuator	code
15	SA03	540AIGF015023000
20	SA03	540AIGF020023000
25	SA03	540AIGF025023000
32	SA05	540AIGF032023010
40	SA05	540AIGF040023010
50	NA09	540AIGF050023120
65	NA09	516AIGF065023120
80	NA15	516AIGF080023130
100	NA28	516AIGF100023150
125	NA38	516AIGF125023160
150	NA60	516AIGF150023180
200	NA150	516AIGF200023210

DN	actuator	ATEX code
15	SA05-X	540AIGF015023310
20	SA05-X	540AIGF020023310
25	SA05-X	540AIGF025023310
32	SA05-X	540AIGF032023310
40	SA05-X	540AIGF040023310
50	NA09-X	540AIGF050023330
65	NA09-X	516AIGF065023330
80	NA15-X	516AIGF080023340
100	NA28-X	516AIGF100023360
125	NA38-X	516AIGF125023370
150	NA60-X	516AIGF150023390

540/516 IIGF - Electric actuated stainless steel ball valve

CF8M body & ball - **PTFE + 25% glass fiber seats** - TS: -50°C/+230°C.

DN	actuator	code
15	SA03	540IIGF015023000
20	SA03	540IIGF020023000
25	SA03	540IIGF025023000
32	SA05	540IIGF032023010
40	SA05	540IIGF040023010
50	NA09	540IIGF050023120
65	NA09	516IIGF065023120
80	NA15	516IIGF080023130
100	NA28	516IIGF100023150
125	NA38	516IIGF125023160
150	NA60	516IIGF150023180
200	NA150	516IIGF200023210

DN	actuator	ATEX code
15	SA05-X	540IIGF015023310
20	SA05-X	540IIGF020023310
25	SA05-X	540IIGF025023310
32	SA05-X	540IIGF032023310
40	SA05-X	540IIGF040023310
50	NA09-X	540IIGF050023330
65	NA09-X	516IIGF065023330
80	NA15-X	516IIGF080023340
100	NA28-X	516IIGF100023360
125	NA38-X	516IIGF125023370
150	NA60-X	516IIGF150023390

not on stock, on request.

ELECTRIC

540/516 AICG - Electric actuated carbon steel ball valve

A216WCB body - CF8M ball - **PTFE + 20% graphite seats** - TS: -20°C/+260°C.

DN	actuator	code
15	SA03	540AICG015023000
20	SA03	540AICG020023000
25	SA03	540AICG025023000
32	SA05	540AICG032023010
40	SA05	540AICG040023010
50	NA09	540AICG050023120
65	NA09	516AICG065023120
80	NA15	516AICG080023130
100	NA28	516AICG100023150
125	NA38	516AICG125023160
150	NA60	516AICG150023180

10 €/pc

DN	actuator	ATEX code
15	SA05-X	540AICG015023310
20	SA05-X	540AICG020023310
25	SA05-X	540AICG025023310
32	SA05-X	540AICG032023310
40	SA05-X	540AICG040023310
50	NA09-X	540AICG050023330
65	NA09-X	516AICG065023330
80	NA15-X	516AICG080023340
100	NA28-X	516AICG100023360
125	NA38-X	516AICG125023370
150	NA60-X	516AICG150023390

ELECTRIC

540/516 IICG - Electric actuated stainless steel ball valve

CF8M body & ball - **PTFE + 20% graphite seats** - TS: -50°C/+260°C.

DN	actuator	code
15	SA03	540IICG015023000
20	SA03	540IICG020023000
25	SA03	540IICG025023000
32	SA05	540IICG032023010
40	SA05	540IICG040023010
50	NA09	540IICG050023120
65	NA09	516IICG065023120
80	NA15	516IICG080023130
100	NA28	516IICG100023150
125	NA38	516IICG125023160
150	NA60	516IICG150023180

not on stock, on request.

10 €/pc

DN	actuator	ATEX code
15	SA05-X	540IICG015023310
20	SA05-X	540IICG020023310
25	SA05-X	540IICG025023310
32	SA05-X	540IICG032023310
40	SA05-X	540IICG040023310
50	NA09-X	540IICG050023330
65	NA09-X	516IICG065023330
80	NA15-X	516IICG080023340
100	NA28-X	516IICG100023360
125	NA38-X	516IICG125023370
150	NA60-X	516IICG150023390

not on stock, on request.

ELECTRIC

540/516 AIS - Electric actuated carbon steel ball valve

A216WCB body - CF8M ball - **STANSIT® seats** (PTFE + 50% stainless steel) - TS: -20°C/+260°C.

DN	actuator	code
15	SA03	540AIS015023000
20	SA03	540AIS020023000
25	SA03	540AIS025023000
32	SA05	540AIS032023010
40	SA05	540AIS040023010
50	NA09	540AIS050023120
65	NA09	516AIS065023120
80	NA15	516AIS080023130
100	NA28	516AIS100023150
125	NA38	516AIS125023160
150	NA60	516AIS150023180
200	NA150	516AIS200023210

10 €/pc

DN	actuator	ATEX code
15	SA05-X	540AIS015023310
20	SA05-X	540AIS020023310
25	SA05-X	540AIS025023310
32	SA05-X	540AIS032023310
40	SA05-X	540AIS040023310
50	NA09-X	540AIS050023330
65	NA09-X	516AIS065023330
80	NA15-X	516AIS080023340
100	NA28-X	516AIS100023360
125	NA38-X	516AIS125023370
150	NA60-X	516AIS150023390

ELECTRIC

540/516 IIS - Electric actuated stainless steel ball valve

CF8M body & ball - **STANSIT® seats** (PTFE + 50% stainless steel) - TS: -50°C/+260°C.

DN	actuator	code
15	SA03	540IIS015023000
20	SA03	540IIS020023000
25	SA03	540IIS025023000
32	SA05	540IIS032023010
40	SA05	540IIS040023010
50	NA09	540IIS050023120
65	NA09	516IIS065023120
80	NA15	516IIS080023130
100	NA28	516IIS100023150
125	NA38	516IIS125023160
150	NA60	516IIS150023180
200	NA150	516IIS200023210

10 €/pc

DN	actuator	ATEX code
15	SA05-X	540IIS015023310
20	SA05-X	540IIS020023310
25	SA05-X	540IIS025023310
32	SA05-X	540IIS032023310
40	SA05-X	540IIS040023310
50	NA09-X	540IIS050023330
65	NA09-X	516IIS065023330
80	NA15-X	516IIS080023340
100	NA28-X	516IIS100023360
125	NA38-X	516IIS125023370
150	NA60-X	516IIS150023390

ELECTRIC

515 AIT - Electric actuated carbon steel ball valve

A216WCB body - CF8M ball - **PTFE seats** - TS: -29°C/+230°C.

NPS	actuator	code
1/2"	SA03	515AIT015023000
3/4"	SA03	515AIT020023000
1"	SA03	515AIT025023000
1"1/2	NA06	515AIT040023110
2"	NA09	515AIT050023120
2"1/2	NA09	515AIT065023120
3"	NA15	515AIT080023130
4"	NA28	515AIT100023150
6"	NA60	515AIT150023180
8"	NA150	515AIT200023210

Ex 10 €/pc

NPS	actuator	ATEX code
1/2"	SA05-X	515AIT015023310
3/4"	SA05-X	515AIT020023310
1"	SA05-X	515AIT025023310
1"1/2	NA06-X	515AIT040023320
2"	NA09-X	515AIT050023330
2"1/2	NA09-X	515AIT065023330
3"	NA15-X	515AIT080023340
4"	NA28-X	515AIT100023360
6"	NA60-X	515AIT150023390

ELECTRIC

515 IIT - Electric actuated carbon steel ball valve

CF8M body & ball - **PTFE seats** - TS: -50°C/+230°C.

NPS	actuator	code
1/2"	SA03	515IIT015023000
3/4"	SA03	515IIT020023000
1"	SA03	515IIT025023000
1"1/2	NA06	515IIT040023110
2"	NA09	515IIT050023120
2"1/2	NA09	515IIT065023120
3"	NA15	515IIT080023130
4"	NA28	515IIT100023150
6"	NA60	515IIT150023180
8"	NA150	515IIT200023210

Ex 10 €/pc

NPS	actuator	ATEX code
1/2"	SA05-X	515IIT015023310
3/4"	SA05-X	515IIT020023310
1"	SA05-X	515IIT025023310
1"1/2	NA06-X	515IIT040023320
2"	NA09-X	515IIT050023330
2"1/2	NA09-X	515IIT065023330
3"	NA15-X	515IIT080023340
4"	NA28-X	515IIT100023360
6"	NA60-X	515IIT150023390

ELECTRIC

530 AIT - Electric actuated carbon steel ball valve

A216WCB body - CF8M ball - **PTFE seats** - TS: -29°C/+230°C.

NPS	actuator	code
1/2"	SA03	530AIT015023000
3/4"	SA03	530AIT020023000
1"	SA03	530AIT025023000
1"1/2	NA06	530AIT040023110
2"	NA09	530AIT050023120
3"	NA28	530AIT080023150
4"	NA38	530AIT100023160
6"	NA100	530AIT150023200

Ex 10 €/pc

NPS	actuator	ATEX code
1/2"	SA05-X	530AIT015023310
3/4"	SA05-X	530AIT020023310
1"	SA05-X	530AIT025023310
1"1/2	NA06-X	530AIT040023320
2"	NA09-X	530AIT050023330
3"	NA28-X	530AIT080023360
4"	NA38-X	530AIT100023370
6"	NA100-X	530AIT150023410

ELECTRIC

530 IIT - Electric actuated stainless steel ball valve

CF8M body & ball - **PTFE seats** - TS: -50°C/+230°C.

NPS	actuator	code
1/2"	SA03	530IIT015023000
3/4"	SA03	530IIT020023000
1"	SA03	530IIT025023000
1"1/2	NA06	530IIT040023110
2"	NA09	530IIT050023120
3"	NA28	530IIT080023150
4"	NA38	530IIT100023160
6"	NA100	530IIT150023200

Ex 10 €/pc

NPS	actuator	ATEX code
1/2"	SA05-X	530IIT015023310
3/4"	SA05-X	530IIT020023310
1"	SA05-X	530IIT025023310
1"1/2	NA06-X	530IIT040023320
2"	NA09-X	530IIT050023330
3"	NA28-X	530IIT080023360
4"	NA38-X	530IIT100023370
6"	NA100-X	530IIT150023410

V-port control valves

Additional delivery time 2 weeks

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult - ASR spring return pneumatic actuator + YT3300 electropneumatic smart positionner 4-20 mA -
⚠ **ΔP max.: 10 bar** - Actuators & automation complements, see page 169.

340/316 AIS - Pneumatic actuated V-port carbon steel ball valve
A216WCB body - CF8M V-port ball - STANSIT® seat - TS: -20°C/+230°C.

340/316 IIS - Pneumatic actuated V-port stainless steel ball valve
CF8M body & V-port ball - STANSIT® seat - TS: -50°C/+260°C.

DN	V-ball	Kv (m³/h)	actuator	AIS code	IIS code
15	60°	6	ASR40/6	340AIS015V6ASR64	340IIS015V6ASR64
20	60°	12	ASR80/6	340AIS020V6ASR64	340IIS020V6ASR64
25	60°	21	ASR80/6	340AIS025V6ASR64	340IIS025V6ASR64
32	60°	39	ASR130/6	340AIS032V6ASR64	340IIS032V6ASR64
40	60°	52	ASR130/6	340AIS040V6ASR64	340IIS040V6ASR64
50	60°	110	ASR200/6	340AIS050V6ASR64	340IIS050V6ASR64
65	60°	150	ASR300/6	316AIS065V6ASR64	316IIS065V6ASR64
80	60°	165	ASR500/6	316AIS080V6ASR64	316IIS080V6ASR64
100	60°	356	ASR850/6	316AIS100V6ASR64	316IIS100V6ASR64

Additional delivery time 2 weeks

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult - ASR spring return pneumatic actuator + YT3300 electropneumatic smart positionner 4-20 mA -
⚠ **ΔP max.: 10 bar** - Actuators & automation complements, see page 169.

540/516 AIS - Pneumatic actuated V-port carbon steel ball valve
A216WCB body - CF8M V-port ball - STANSIT® seat - TS: -20°C/+230°C.

540/516 IIS - Pneumatic actuated V-port stainless steel ball valve
CF8M body & V-port ball - STANSIT® seat - TS: -50°C/+230°C.

DN	V-ball	Kv (m³/h)	actuator	AIS code	IIS code
15	60°	6	ASR40/6	540AIS015V6ASR64	540IIS015V6ASR64
20	60°	12	ASR80/6	540AIS020V6ASR64	540IIS020V6ASR64
25	60°	21	ASR80/6	540AIS025V6ASR64	540IIS025V6ASR64
32	60°	39	ASR130/6	540AIS032V6ASR64	540IIS032V6ASR64
40	60°	52	ASR130/6	540AIS040V6ASR64	540IIS040V6ASR64
50	60°	110	ASR200/6	540AIS050V6ASR64	540IIS050V6ASR64
65	60°	150	ASR300/6	516AIS065V6ASR64	516IIS065V6ASR64
80	60°	165	ASR500/6	516AIS080V6ASR64	516IIS080V6ASR64
100	60°	356	ASR850/6	516AIS100V6ASR64	516IIS100V6ASR64

Additional delivery time 2 weeks

All our electric actuated ball valves are equipped with a 230V AC actuator as standard - Other power supply on request, please consult - SA 05-PCU or NA-PCU actuator - ⚠ **ΔP max.: 10 bar** - Actuators & automation complements, see page 169.

540/516 AIS - Electric actuated V-port carbon steel ball valve
A216WCB body - CF8M V-port ball - STANSIT® seat - TS: -20°C/+230°C.

540/516 IIS - Electric actuated V-port stainless steel ball valve
CF8M body & V-port ball - STANSIT® seat - TS: -50°C/+230°C.

DN	V-ball	Kv (m³/h)	actuator	AIS code	IIS code
15	60°	6	SA 05	540AIS015V6SA230	540IIS015V6SA230
20	60°	12	SA 05	540AIS020V6SA230	540IIS020V6SA230
25	60°	21	SA 05	540AIS025V6SA230	540IIS025V6SA230
32	60°	39	SA 05	540AIS032V6SA230	540IIS032V6SA230
40	60°	52	NA 09	540AIS040V6NA230	540IIS040V6NA230
50	60°	110	NA 09	540AIS050V6NA230	540IIS050V6NA230
65	60°	150	NA 15	516AIS065V6NA230	516IIS065V6NA230
80	60°	165	NA 28	516AIS080V6NA230	516IIS080V6NA230
100	60°	356	NA 38	516AIS100V6NA230	516IIS100V6NA230

Adler products are not available for the German market.

3 piece body - ISO pad - Fire Safe

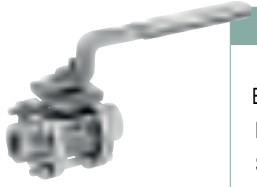
2014/68/EU Directive N°0094 - Risk category III / module H - Face fo face DIN 3202-4 M3 - Fire safe ISO 10497 - Fugitive emissions ISO 15848-1 class A - NACE MR0175 - SIL 2 (& SIL 3 capable) - PTFE seats - Full bore - Anti-blowout stem - Antistatic device - ISO pad - TS: -28°C/+200°C.

NACE MR0175 | FUGITIVE EMISSIONS | FIRE SAFE | SIL | CE 0094 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

712 - Carbon steel

BSP BW SW

CF8M body with carbon steel ends - F316 ball up to 3/8", F304L above.

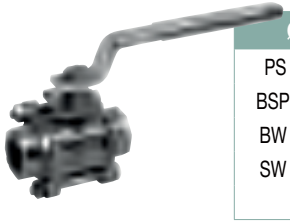


Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	100	100	64	64	40	40	40	40
BSP code	712002	712003	712004	712005	712006	712007	712008	712009
BW code	712108	712110	712115	712120	712125	712132	712140	712150
SW code	712208	712210	712215	712220	712225	712232	712240	712250

713 - Stainless steel

BSP BW SW

CF8M body - CF3M ball for BW and SW, CF8M for BSP.



Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	100	100	64	64	40	40	40	40
BSP code	713002	713003	713004	713005	713006	713007	713008	713009
BW code	713108	713110	713115	713120	713125	713132	713140	713150
SW code	713208	713210	713215	713220	713225	713232	713240	713250

Wafer

2014/68/EU Directive N°0094 - Risk category III / module H - Fire safe ISO 10497 - Fugitive emissions ISO 15848-1 class A - NACE MR0175 - SIL 2 (& SIL 3 capable) - Flanged RF PN40 up to DN80, flanged RF PN16 above - PTFE seats - Full bore - Antistatic device - ISO pad - PS: 40 bar up to DN80, 16 bar above - TS: -28°C/+200°C.

NACE MR0175 | FUGITIVE EMISSIONS | FIRE SAFE | SIL | CE 0094 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

720 - Carbon steel

A105 body - F304L ball - EN 558 series 100 (except DN125).

DN	15	20	25	32	40	50	65	80	100	125	150	200
face to face	35	37	43	51	64	84	103	120	154	182	234	310
code	720015	720020	720025	720032	720040	720050	720065*	720080	720100	720125	720150	720200

*PN16, 4 holes flanges. not on stock, on request. Approx. 4-5 weeks delivery time.

770 - Stainless steel

F316L body up to DN100, CF8M above - F316L ball up to DN100, CF8 above - EN 558 series 100 (except DN125).

DN	15	20	25	32	40	50	65	80	100	125	150	200
face to face	35	37	43	51	64	84	103	120	154	182	234	310
code	770015	770020	770025	770032	770040	770050	770065	770080	770100	770125	770150	770200

not on stock, on request. Approx. 4-5 weeks delivery time.

Split body

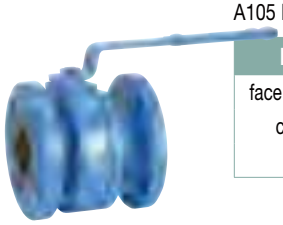
Flanged RF PN40/16

2014/68/EU Directive N°0094 - Risk category III / module H - Fire safe ISO 10497 - Fugitive emissions ISO 15848-1 class A - NACE MR0175 - SIL 2 (& SIL 3 capable) - Flanged RF PN40 up to DN80, flanged RF PN16 above - PTFE seats - Full bore - Antistatic device - ISO pad - PS: 40 bar up to DN80, 16 bar above - TS: -28°C/+200°C.

NACE MR0175 | FUGITIVE EMISSIONS | FIRE SAFE | SIL | CE 0094 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

750 - Carbon steel

A105 body - F304L ball - EN 558 series 27.



DN	15	20	25	32	40	50	65*	80	100	125	150
face to face	115	119	125	130	140	150	170	180	190	325	350
code	750015	750020	750025	750032	750040	750050	750065	750080	750100	750125	750150

* Flanged RF PN16 - PS: 16 bar. not on stock, on request. Approx. 4-5 weeks delivery time.

Adler products are not available for the German market.

751 - Stainless steel

F316L body - F316L ball - EN 558 series 27.

DN	15	20	25	32	40	50	65*	80	100
face to face	115	119	125	130	140	150	170	180	190
code	751015	751020	751025	751032	751040	751050	751065	751080	751100

not on stock, on request. Approx. 4-5 weeks delivery time.

* Flanged RF PN16 - PS: 16 bar.

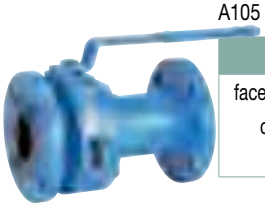
Flanged RF PN40

2014/68/EU Directive N°0094 - Risk category III / module H - Fire safe ISO 10497 - Fugitive emissions ISO 15848-1 class A - NACE MR0175 - SIL 2 (& SIL 3 capable) - Flanged RF PN40 - PTFE seats - Full bore - Antistatic device - ISO pad - PS: 40 bar - TS: -28°C/+200°C.

NACE MR0175 | FUGITIVE EMISSIONS | FIRE SAFE | SIL | CE 0094 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

754 - Carbon steel

A105 body - F304L ball - EN 558 series 1.



DN	15	20	25	32	40	50	65	65*	80	100
face to face	130	150	160	180	200	230	290	290	310	350
code	754015	754020	754025	754032	754040	754050	754065	754066	754080	754100

Stainless steel execution fig. 755 available on request, please consult

* Flanged RF PN16 - PS: 16 bar. *not on stock, on request. Approx. 4-5 weeks delivery time.*

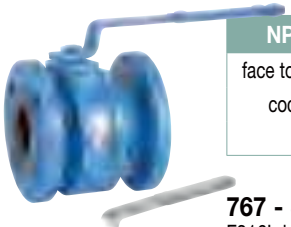
Flanged RF ANSI 150

2014/68/EU Directive N°0094 - Risk category III / module H - Fire safe ISO 10497 - Fugitive emissions ISO 15848-1 class A - NACE MR0175 - SIL 2 (& SIL 3 capable) - Flanged RF ANSI 150 - PTFE seats - Full bore - Antistatic device - ISO pad - PS: 20 bar - TS: -28°C/+200°C.

NACE MR0175 | FUGITIVE EMISSIONS | FIRE SAFE | SIL | CE 0094 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

766 - Carbon steel

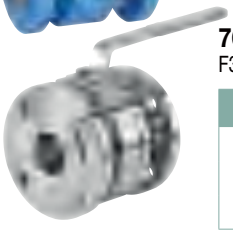
A105 body - F304L ball - EN 558 series 3.



NPS	1/2"	3/4"	1"	1"1/2	2"	2"1/2	3"	4"
face to face	108	118,5	126	165	178	190	203	229
code	766015	766020	766025	766040	766050	766065	766080	766100

767 - Stainless steel

F316L body - F316L ball- EN 558 series 3.



NPS	1/2"	3/4"	1"	1"1/2	2"	2"1/2	3"	4"
face to face	108	118,5	126	165	178	190	203	229
code	767015	767020	767025	767040	767050	767065	767080	767100

not on stock, on request. Approx. 4-5 weeks delivery time.

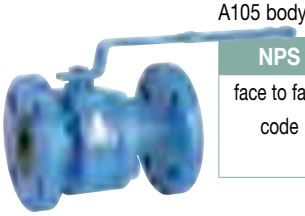
Flanged RF ANSI 300

2014/68/EU Directive N°0094 - Risk category III / module H - Fire safe ISO 10497 - Fugitive emissions ISO 15848-1 class A - NACE MR0175 - SIL 2 (& SIL 3 capable) - Flanged RF ANSI 300 - PTFE seats - Full bore - Antistatic device - ISO pad - PS: 50 bar - TS: -28°C/+200°C.

NACE MR0175 | FUGITIVE EMISSIONS | FIRE SAFE | SIL | CE 0094 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

758 - Carbon steel

A105 body - F304L ball - EN 558 series 4.



NPS	1/2"	3/4"	1"	1"1/2	2"	2"1/2	3"	4"
face to face	140	151	165	191	216	241	283	305
code	758015	758020	758025	758040	758050	758065	758080	758100

Stainless steel execution fig. 759 available on request, please consult

Adler products are not available for the German market.

Wafer valves

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
All our electric actuated ball valves are equipped with a 230V AC actuator as standard - Other power supply on request, please consult.
⚠ **ΔP max.: 10 bar** - Actuators & automation complements, see page 169.

PNEUMATIC

720 - Pneumatic actuated carbon steel ball valve

A105 body - CF3 ball - TS: -20°C/+180°C.

Alphair

double acting		
DN	actuator	code
15	RE51	273701017006R
20	RE51	273702017006R
25	RE51	273703017006R
32	RE51	273704017006R
40	RE76	273705017008R
50	RE76	273706017008R
65	RE86	273707017009R
80	RE86	273708017009R
100	RE101	273709017010R
125	RE116	273710017011R
150	RE126	273711017012R

Alphair

spring return		
DN	actuator	code
15	RES64	273701017107R
20	RES76	273702017108R
25	RES76	273703017108R
32	RES76	273704017108R
40	RES86	273705017109R
50	RES101	273706017110R
65	RES116	273707017111R
80	RES116	273708017111R
100	RES146	273709017113R
125	RES161	273710017114R
150	RES181	273711017115R

PNEUMATIC

770 - Pneumatic actuated steinless steel ball valve

F316L body up to DN100, CF8M above - CF3M ball up to DN100, CF8 above - TS: -30°C/+180°C.

Alphair

double acting		
DN	actuator	code
15	RE51	273802017006R
20	RE51	273803017006R
25	RE51	273804017006R
32	RE51	273805017006R
40	RE76	273806017008R
50	RE76	273807017008R
65	RE86	273808017009R
80	RE86	273809017009R
100	RE101	273810017010R
125	RE116	273811017011R
150	RE126	273812017012R

Alphair

spring return		
DN	actuator	code
15	RES64	273802017107R
20	RES76	273803017108R
25	RES76	273804017108R
32	RES76	273805017108R
40	RES86	273806017109R
50	RES101	273807017110R
65	RES116	273808017111R
80	RES116	273809017111R
100	RES146	273810017113R
125	RES161	273811017114R
150	RES181	273812017115R

ELECTRIC

720 - Electric actuated carbon steel wafer

A105 body - CF3M ball - TS: -20°C/+180°C.

SA05

DN	actuator	code
15	SA05	273701023010
20	SA05	273702023010
25	SA05	273703023010
32	SA05	273704023010
40	SA05	273705023010
50	SA05	273706023010
65	NA09	273707023120
80	NA15	273708023130
100	NA18	273709023150

NA09-X

Ex 10 €/pc

DN	actuator	ATEX code
15	SA05-X	273701023310
20	SA05-X	273702023310
25	SA05-X	273703023310
32	SA05-X	273704023310
40	SA05-X	273705023310
50	SA05-X	273706023310
65	NA09-X	273707023330
80	NA15-X	273708023340
100	NA28-X	273709023360

Options & spare parts

Stem extension

Gearbox

Oval wheel

Locking device

Stainless steel lever

Dead man device

Trunnion ball valves

2014/68/EU Directive N°0056 - Risk category III / module H1 - Fire safe ISO 10497, API 607 & BS 6755 - SIL 2 (& SIL 3 capable) - NACE MR0175 - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Lever operated up to DN150, supplied with gearbox above.

NACE MR0175 | SIL | TA LUFT | FIRE SAFE | CE 0056 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

JC VALVES

6015AICG - Carbon steel - Flanged RF ANSI 150

A105N body - CF8M ball - PTFE +20% graphite seat - PS: 20 bar - TS: -29°C / +260°C.

NPS	2"	3"	4"	6"	8"	10"	12"
face to face	178	203	229	394	457	533	610
code	6015AICG050	6015AICG080	6015AICG100	6015AICG150	6015AICG200	6015AICG250	6015AICG300

not on stock, on request. Approx. 2-3 weeks delivery time.

6030AICG - Carbon steel - Flanged RF ANSI 300

A105N body - CF8M ball - PTFE +20% graphite seat - PS: 50 bar - TS: -29°C / +260°C.

NPS	2"	3"	4"	6"	8"	10"	12"
face to face	216	283	305	403	502	568	648
code	6030AICG050	6030AICG080	6030AICG100	6030AICG150	6030AICG200	6030AICG250	6030AICG300

not on stock, on request. Approx. 2-3 weeks delivery time.

6060AIDV - Carbon steel - Flanged RF ANSI 600

A105N body - CF8M ball - Devlon seat - PS: 100 bar - TS: -29°C / +125°C.

NPS	2"	3"	4"	6"	8"	10"	12"
face to face	292	356	432	559	660	787	838
code	6060AIDV050	6060AIDV080	6060AIDV100	6060AIDV150	6060AIDV200	6060AIDV250	6060AIDV300

not on stock, on request. Approx. 2-3 weeks delivery time.

Flanged - 3 way

2014/68/EU Directive N°0343 - Risk category III / module H - Flanged RF PN16 - RTFE seats - 4 seats / 3 way tightness - Stem tightness: PTFE-FKM - Full bore - Anti-blowout stem - Antistatic device - PS: 16 bar.

CE 0343 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

783 - Carbon steel - L-port
784 - Carbon steel - T-port

A216WCB body - CF8 ball - TS: -20°C/+150°C.

DN	25	32	40	50	65	80	100	125	150
783 code	783025	783032	783040	783050	783065	783080	783100	783125	783150
784 code	784025	784032	784040	784050	784065	784080	784100	784125	784150

785 - Stainless steel - L-port
786 - Stainless steel - T-port

CF8M body & ball - TS: -30°C/+150°C.

DN	25	32	40	50	65	80	100	125	150
785 code	785025	785032	785040	785050	785065	785080	785100	785125	785150
786 code	786025	786032	786040	786050	786065	786080	786100	786125	786150

Additional delivery time 3-5 days

2014/68/EU Directive N°0035 - Risk category II / module H - Flanged RF P16/40 up to DN50, PN16 above - RTFE seats - Anti-blowout stem - Antistatic device - Full bore - ISO pad - Locking device - PS: see table - TS: -20°C/+180°C.

CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition | MALTESE

V33H-6-IIR/L (V33) - Stainless steel - L-port

V33H-6-IIR/T (V33) - Stainless steel - T-port

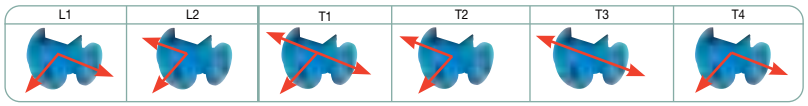
CF8M body - F316 ball.

DN	15	20	25	32	40	50	65	80	100
PS (bar)	40	40	40	40	40	40	16	16	16
L code	V33H6IIRL015	V33H6IIRL020	V33H6IIRL025	V33H6IIRL032	V33H6IIRL040	V33H6IIRL050	V33H6IIRL065	V33H6IIRL080	V33H6IIRL100
T code	V33H6IIRT015	V33H6IIRT020	V33H6IIRT025	V33H6IIRT032	V33H6IIRT040	V33H6IIRT050	V33H6IIRT065	V33H6IIRT080	V33H6IIRT100

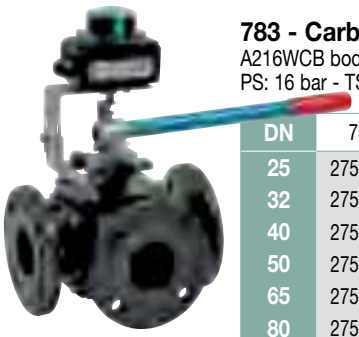
Carbon steel & stainless steel ball valves

Manual valves with limit switch box

Manual ball valves equipped with SF012 limit switch box IP67 - SPDT 250V-5A (see features of the limit switch box page 183).



T-port: mention 2 consecutive positions (example: T3/T4).



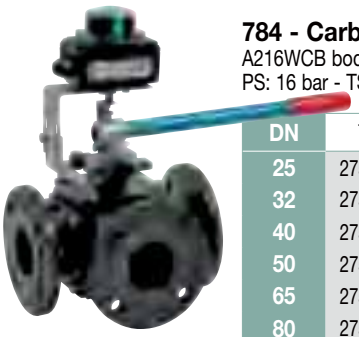
783 - Carbon steel - L port

A216WCB body - PTFE seats - Full bore - PS: 16 bar - TS: -20°C/+150°C.

DN	783 L code
25	2756740462012
32	2756750462012
40	2756760462012
50	2756770462012
65	2756780462012
80	2756790462012
100	2756800462012
125	2756810462012
150	2756820462012

Stainless steel (785 L & 786 T) on request

Ex on request



784 - Carbon steel - T port

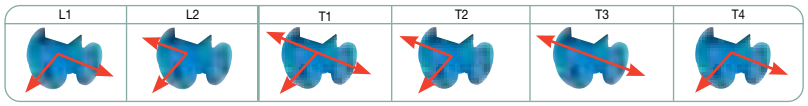
A216WCB body - PTFE seats - Full bore - PS: 16 bar - TS: -20°C/+150°C.

DN	784 T code
25	2756840462012
32	2756850462012
40	2756860462012
50	2756870462012
65	2756880462012
80	2756890462012
100	2756900462012
125	2756910462012
150	2756920462012

Actuated carbon steel & stainless steel ball valves

Flanged - 3 way

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
All our electric actuated ball valves are equipped with a 230V AC actuator as standard - Other power supply on request, please consult.
⚠ **ΔP max.: 10 bar** - Actuators & automation complements, see page 169.



T-port: mention 2 consecutive positions (example: T3/T4) - Clockwise closing - **Anti-clockwise closing option: 50 €.**

783 L-port / 784 T-port - Pneumatic actuated 3 way carbon steel ball valve

A216WCB body - CF8 ball - TS: -20°C/+150°C.

Ex 10 €/pc

ACTREG

double acting		
DN	actuator	783 L code
25	ADA40	275674015101
32	ADA40	275675015101
40	ADA80	275676015102
50	ADA200	275677015104
65	ADA300	275678015105
80	ADA300	275679015105
100	ADA500	275680015106
125	ADA1200	275681015108
150	ADA1750	275682015109

ACTREG

spring return		
DN	actuator	783 L code
25	ASR80	275674016102
32	ASR80	275675016102
40	ASR130	275676016103
50	ASR500	275677016106
65	ASR850	275678016107
80	ASR850	275679016107
100	ASR1200	275680016108
125	ASR2100	275681016110
150	ASR2500	275682016111

Alphair

double acting		
DN	actuator	783 L code
25	RE64	275674017007R
32	RE76	275675017008R
40	RE76	275676017008R
50	RE86	275677017009R
65	RE101	275678017010R
80	RE116	275679017011R
100	RE126	275680017012R
125	RE146	275681017013R
150	RE161	275682017014R

Alphair

spring return		
DN	actuator	783 L code
25	RES76	275674017108R
32	RES86	275675017109R
40	RES101	275676017110R
50	RES116	275677017111R
65	RES126	275678017112R
80	RES146	275679017113R
100	RES161	275680017114R
125	RES181	275681017115R
150	RES201	275682017116R

	783 L	784 T
code	27567...	27568...
code	27568...	27569...

PNEUMATIC

PNEUMATIC

785 L-port / 786 T-port - Pneumatic actuated 3 way stainless steel ball valve

CF8M body & ball - TS: -30°C/+ 150°C.

10 €/pc

double acting		
DN	actuator	785 L code
25	ADA40	275374015101
32	ADA40	275375015101
40	ADA80	275376015102
50	ADA200	275377015104
65	ADA300	275378015105
80	ADA300	275379015105
100	ADA500	275380015106
125	ADA1200	275381015108
150	ADA1750	275382015109

spring return		
DN	actuator	785 L code
25	ASR80	275374016102
32	ASR130	275375016103
40	ASR130	275376016103
50	ASR500	275377016106
65	ASR850	275378016107
80	ASR850	275379016107
100	ASR1200	275380016108
125	ASR2100	275381016110
150	ASR2500	275382016111

double acting		
DN	actuator	785 L code
25	RE64	275374017007R
32	RE76	275375017008R
40	RE76	275376017008R
50	RE86	275377017009R
65	RE101	275378017010R
80	RE116	275379017011R
100	RE126	275380017012R
125	RE146	275381017013R
150	RE161	275382017014R

spring return		
DN	actuator	785 L code
25	RES76	275374017108R
32	RES86	275375017109R
40	RES101	275376017110R
50	RES116	275377017111R
65	RES126	275378017112R
80	RES146	275379017113R
100	RES161	275380017114R
125	RES181	275381017115R
150	RES201	275382017116R

	785 L	786 T
code	27537...	27538...
code	27538...	27539...

ELECTRIC

783 L-port / 784 T-port - Electric actuated 3 way carbon steel ball valve

A216WCB body - CF8M ball - Flanged RF PN16 - PS: 16 bar - TS: -20°C/+150°C.

DN	actuator	783 L code
25	TCR05N	275674024310
32	TCR05N	275675024310
40	TCR11N	275676024610
50	TCR20N	275677024700
65	TCR40N	275678024720
80	TCR40N	275679024720
100	TCR40N	275680024720

	783 L	784 T
code	27567...	27568...
code	27568...	27569...

DN	actuator	783 L code
25	SA05	275674023010
32	SA05	275675023010
40	NA06	275676023110
50	NA09	275677023120
65	NA15	275678023130
80	NA28	275679023150
100	NA28	275680023150
125	NA60	275681023180
150	NA60	275682023180

ELECTRIC

785 L-port / 786 T-port - Electric actuated 3 way stainless steel ball valve

CF8M body & ball - PS: 16 bar - TS: -30°C/+150°C.

DN	actuator	785 L code
25	TCR05N	275374024310
32	TCR05N	275375024310
40	TCR11N	275376024610
50	TCR20N	275377024700
65	TCR40N	275378024720
80	TCR40N	275379024720
100	TCR40N	275380024720

	785 L	786 T
code	27537...	27538...
code	27538...	27539...

DN	actuator	785 L code
25	SA05	275374023010
32	SA05	275375023010
40	NA06	275376023110
50	NA09	275377023120
65	NA15	275378023130
80	NA28	275379023150
100	NA28	275380023150
125	NA60	275381023180
150	NA60	275382023180

Butterfly valves for industry, HVAC & waterworks

- Cast iron concentric butterfly valves 90
- Ductile iron concentric butterfly valves 97
- Concentric butterfly valves - TTV™ valves 98
- Double offset butterfly valves 120
- Triple offset butterfly valves 128

What's new!

Triple offset butterfly valves with gearbox

p. 128

New executions of TTV pneumatic actuated butterfly valves

p. 105-116

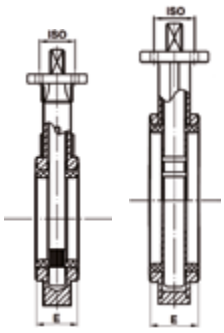
Sferaco ductile iron butterfly valves with NBR seat & stainless steel disc

p. 97-98

Pneumatic actuated TTV double offset butterfly valves

p. 122

Cast iron - GG25



40-300 350-600

2014/68/EU Directive N°0035 - Risk category III / module H up to DN600, risk category I above - Lloyd's Register Type Approval for marine applications - GG25 body up to DN600, GGG40 above - Epoxy coated - ISO pad - PS: 16 bar up to DN300, 10 bar above - TS with EPDM seat: -15°C/+110°C (temporarely +130°C) - TS with NBR seat: -10°C/+80°C.

CE 0035 3.1 see p. 22

Face to face according to EN 558 series 20 / ISO pad according to ISO 5211

DN	32/40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
face to face "E"	33	43	46	46	52	56	56	60	68	78	78	102	114	127	154	163	188	203	216
ISO pad	F05	F05	F05	F05	F05	F07	F07	F10	F12	F12	F12	F12	F16	F16	F16	F25	F25	F25	F25
square drive	9	9	9	9	11	14	14	17	22	27	27	27	30	36	40	Ø 63,35	Ø 63,35	Ø 75	Ø 85

Seat EPDM - Disc GGG40 nickel-plated - TS: -15°C/+110°C

1125 - Wafer - Lever

Between flanges PN10/16, PN6 (up to DN150), ANSI 150 (up to DN600) & JIS 10K (up to DN300).

DN	32-40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16	16
code	1125040	1125050	1125065	1125080	1125100	1125125	1125150	1125200	1125250	1125300

1125 - Wafer - Gearbox

Between flanges PN10/16, PN6 (up to DN150), ANSI 150 (up to DN600) & JIS 10K (up to DN300).

DN	100	125	150	200	250	300	350	400	450	500
PS (bar)	16	16	16	16	16	16	10	10	10	10
code	1125102	1125127	1125152	1125202	1125252	1125302	1125350	1125400	1125450	1125500

DN	600	700	800	900	1000
PS (bar)	10	10	10	10	10
code	1125600	1125700	1125800	1125900	1125990

1135 - Lug - Lever

Between flanges PN10/16 up to DN150, PN10 or PN16 above.

DN	40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	10/16*	10/16*	10/16*
PN10 code	-	-	-	-	-	-	-	1135200	1135250	1135300
PN16 code	1135040	1135050	1135065	1135080	1135100	1135125	1135150	1135201	1135251	1135301

* PS: 10 bar for PN10 valves, 16 bar for PN16 valves.

1135 - Lug - Gearbox

Between flanges PN10/16 up to DN150, PN10 or PN16 above.

DN	100	125	150	200	250	300	350	400	450	500	600
PS (bar)	16	16	16	10/16*	10/16*	10/16*	10	10	10	10	10
PN10 code	-	-	-	1135202	1135252	1135302	1135350	1135400	1135450	1135500	1135600
PN16 code	1135102	1135127	1135152	1135203	1135253	1135303	1135351	1135401	1135451	1135501	1135601

* PS: 10 bar for PN10 valves, 16 bar for PN16 valves.

Seat EPDM - Disc CF8M - TS: -15°C/+110°C

1123 - Wafer - Lever

Between flanges PN10/16, PN6 (up to DN150), ANSI 150 & JIS 10K.

DN	32-40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16	16
code	1123040	1123050	1123065	1123080	1123100	1123125	1123150	1123200	1123250	1123300

1123 - Wafer - Gearbox
Between flanges PN10/16, PN6 (up to DN150), ANSI 150 (up to DN600) & JIS 10K (up to DN300).

DN	100	125	150	200	250	300	350	400	450	500
PS (bar)	16	16	16	16	16	16	10	10	10	10
code	1123102	1123127	1123152	1123202	1123252	1123302	1123350	1123400	1123450	1123500

DN	600	700	800	900	1000
PS (bar)	10	10	10	10	10
code	1123600	1123700	1123800	1123900	1123990

not on stock, on request.

1133 - Lug - Lever
Between flanges PN10/16 up to DN150, PN10 or PN16 above.

DN	40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	10/16*	10/16*	10/16*
PN10 code	-	-	-	-	-	-	-	1133200	1133250	1133300
PN16 code	1133040	1133050	1133065	1133080	1133100	1133125	1133150	1133201	1133251	1133301

* PS: 10 bar for PN10 valves, 16 bar for PN16 valves.

1133 - Lug - Gearbox
Between flanges PN10/16 up to DN150, PN10 or PN16 above.

DN	100	125	150	200	250	300	350	400	450	500	600
PS (bar)	16	16	16	10/16*	10/16*	10/16*	10	10	10	10	10
PN10 code	-	-	-	1133202	1133252	1133302	1133350	1133400	1133450	1133500	1133600
PN16 code	1133102	1133127	1133152	1133203	1133253	1133303	1133351	1133401	1133451	1133501	1133601

* PS: 10 bar for PN10 valves, 16 bar for PN16 valves.

Seat NBR - Disc CF8M - TS: -10°C/+80°C

1121 - Wafer - Lever
Between flanges PN10/16, PN6 (up to DN150), ANSI 150 & JIS 10K.

DN	32-40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16	16
code	1121040	1121050	1121065	1121080	1121100	1121125	1121150	1121200	1121250	1121300

1121 - Wafer - Gearbox
Between flanges PN10/16, ANSI 150.

DN	350	400
PS (bar)	10	10
code	1121350	1121400

1131 - Lug - Lever
Between flanges PN10/16 up to DN150, PN10 or PN16 above.

DN	40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	10/16*	10/16*	10/16*
PN10 code	-	-	-	-	-	-	-	1131200	1131250	1131300
PN16 code	1131040	1131050	1131065	1131080	1131100	1131125	1131150	1131201	1131251	1131301

PS: 10 bar for PN10 valves, 16 bar for PN16 valves.

1131 - Lug - Gearbox
Between flanges PN10/16 up to DN150, PN10 or PN16 above.

DN	100	125	150	200	250	300
PS (bar)	16	16	16	10/16*	10/16*	10/16*
PN10 code	-	-	-	1131202	1131252	1131302
PN16 code	1131102	1131127	1131152	1131203	1131253	1131303

* PS: 10 bar for PN10 valves, 16 bar for PN16 valves.

Concentric butterfly valves

Options & spare parts

1198 - Spare gearbox (only for butterfly valves 1125, 1135, 1123, 1133, 1121 & 1131)

DN	40	50	65	80	100	125	150	200	250	300
code	1198001	1198001	1198001	1198001	1198002	1198003	1198003	1198004	1198005	1198006
mounting code	WORKGB1	WORKGB1	WORKGB1	WORKGB1	WORKGB1	WORKGB2	WORKGB2	WORKGB2	WORKGB2	WORKGB2

Spare lever (only for butterfly valves 1125, 1135, 1123, 1133, 1121 & 1131)

DN	40	50	65	80	100	125	150	200	250	300
code	9831244	9831244	9831244	9831244	9831249	9831245	9831245	9831246	9831247	9831248

Actuated concentric butterfly valves

Cast iron - GG25

All our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
All our electric actuated butterfly valves are equipped with a 230V AC actuator as standard - Other voltages on request, please consult.
⚠ **ΔP max.: 10 bar up to DN300, 5 bar above** - Actuators & automation complements, see page 170.

Seat EPDM - Disc GGG40 nickel-plated - TS: -10°C/+110°C

PNEUMATIC

1125 - Wafer - Pneumatic actuated cast iron butterfly valve
Wafer type PN10/16, ANSI 150 & JIS 10K - PS: 16 bar.

double acting		
DN	actuator	code
32-40	ADA20	262003015100
50	ADA20	262004015100
65	ADA40	262005015101
80	ADA40	262006015101
100	ADA80	262007015102
125	ADA80	262008015102
150	ADA130	262009015103
200	ADA200	262010015104
250	ADA300	262011015105
300	ADA500	262012015106

Other diameters on request

spring return		
DN	actuator	code
32-40	ASR40	262003016101
50	ASR40	262004016101
65	ASR80	262005016102
80	ASR80	262006016102
100	ASR130	262007016103
125	ASR200	262008016104
150	ASR300	262009016105
200	ASR500	262010016106
250	ASR500	262011016106
300	ASR850	262012016107

double acting		
DN	actuator	code
32-40	RE51	262003017006R
50	RE51	262004017006R
65	RE64	262005017007R
80	RE64	262006017007R
100	RE76	262007017008R
125	RE76	262008017008R
150	RE86	262009017009R
200	RE101	262010017010R
250	RE116	262011017011R
300	RE126	262012017012R

spring return		
DN	actuator	code
32-40	RES64	262003017107R
50	RES64	262004017107R
65	RES76	262005017108R
80	RES76	262006017108R
100	RES101	262007017110R
125	RES101	262008017110R
150	RES116	262009017111R
200	RES126	262010017112R
250	RES146	262011017113R
300	RES181	262012017115R

1135 - Lug - Pneumatic actuated cast iron butterfly valve

Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above .

double acting		
DN	actuator	code
40	ADA20	262503015100
50	ADA20	262504015100
65	ADA40	262505015101
80	ADA40	262506015101
100	ADA80	262507015102
125	ADA80	262508015102
150	ADA130	262509015103
200	ADA200	262510015104
250	ADA300	262511015105
300	ADA500	262512015106

⚠ PN16 execution on request above DN150

spring return		
DN	actuator	code
40	ASR40	262503016101
50	ASR40	262504016101
65	ASR80	262505016102
80	ASR80	262506016102
100	ASR130	262507016103
125	ASR200	262508016104
150	ASR300	262509016105
200	ASR500	262510016106
250	ASR850	262511016107
300	ASR1200	262512016108

double acting		
DN	actuator	code
40	RE51	262503017006R
50	RE51	262504017006R
65	RE64	262505017007R
80	RE64	262506017007R
100	RE76	262507017008R
125	RE76	262508017008R
150	RE86	262509017009R
200	RE101	262510017010R
250	RE116	262511017011R
300	RE126	262512017012R

⚠ PN16 execution on request above DN150

spring return		
DN	actuator	code
40	RES64	262503017107R
50	RES64	262504017107R
65	RES76	262505017108R
80	RES76	262506017108R
100	RES101	262507017110R
125	RES101	262508017110R
150	RES116	262509017111R
200	RES126	262510017112R
250	RES146	262511017113R
300	RES181	262512017115R

Seat EPDM - Disc CF8M - TS: -10°C/+110°C

1123 - Wafer - Pneumatic actuated cast iron butterfly valve

Wafer type PN10/16, ANSI 150 & JIS 10K - PS: 16 bar.

double acting		
DN	actuator	code
32-40	ADA20	262103015100
50	ADA20	262104015100
65	ADA40	262105015101
80	ADA40	262106015101
100	ADA80	262107015102
125	ADA80	262108015102
150	ADA130	262109015103
200	ADA200	262110015104
250	ADA300	262111015105
300	ADA500	262112015106

Other diameters on request

spring return		
DN	actuator	code
32-40	ASR40	262103016101
50	ASR40	262104016101
65	ASR80	262105016102
80	ASR80	262106016102
100	ASR130	262107016103
125	ASR200	262108016104
150	ASR300	262109016105
200	ASR500	262110016106
250	ASR500	262111016106
300	ASR850	262112016107

double acting		
DN	actuator	code
32-40	RE51	262103017006R
50	RE51	262104017006R
65	RE64	262105017007R
80	RE64	262106017007R
100	RE76	262107017008R
125	RE76	262108017008R
150	RE86	262109017009R
200	RE101	262110017010R
250	RE116	262111017011R
300	RE126	262112017012R

spring return		
DN	actuator	code
32-40	RES64	262103017107R
50	RES64	262104017107R
65	RES76	262105017108R
80	RES76	262106017108R
100	RES101	262107017110R
125	RES101	262108017110R
150	RES116	262109017111R
200	RES126	262110017112R
250	RES146	262111017113R
300	RES181	262112017115R

PNEUMATIC

1133 - Lug - Pneumatic actuated cast iron butterfly valve

Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above.

double acting		
DN	actuator	code
40	ADA20	262603015100
50	ADA20	262604015100
65	ADA40	262605015101
80	ADA40	262606015101
100	ADA80	262607015102
125	ADA80	262608015102
150	ADA130	262609015103
200	ADA200	262610015104
250	ADA300	262611015105
300	ADA500	262612015106

⚠ PN16 execution on request above DN150

spring return		
DN	actuator	code
40	ASR40	262603016101
50	ASR40	262604016101
65	ASR80	262605016102
80	ASR80	262606016102
100	ASR130	262607016103
125	ASR200	262608016104
150	ASR300	262609016105
200	ASR500	262610016106
250	ASR850	262611016107
300	ASR1200	262612016108

double acting		
DN	actuator	code
40	RE51	262603017006R
50	RE51	262604017006R
65	RE64	262605017007R
80	RE64	262606017007R
100	RE76	262607017008R
125	RE76	262608017008R
150	RE86	262609017009R
200	RE101	262610017010R
250	RE116	262611017011R
300	RE126	262612017012R

⚠ PN16 execution on request above DN150

spring return		
DN	actuator	code
40	RES64	262603017107R
50	RES64	262604017107R
65	RES76	262605017108R
80	RES76	262606017108R
100	RES101	262607017110R
125	RES101	262608017110R
150	RES116	262609017111R
200	RES126	262610017112R
250	RES146	262611017113R
300	RES181	262612017115R

Seat NBR - Disc CF8M - TS: -10°C/+90°C

PNEUMATIC

1121 - Wafer - Pneumatic actuated cast iron butterfly valve

Wafer type PN10/16, ANSI 150 & JIS 10K - PS: 16 bar.

double acting		
DN	actuator	code
32-40	ADA20	262203015100
50	ADA20	262204015100
65	ADA40	262205015101
80	ADA40	262206015101
100	ADA80	262207015102
125	ADA80	262208015102
150	ADA130	262209015103
200	ADA200	262210015104
250	ADA300	262211015105
300	ADA500	262212015106

spring return		
DN	actuator	code
32-40	ASR40	262203016101
50	ASR40	262204016101
65	ASR80	262205016102
80	ASR80	262206016102
100	ASR130	262207016103
125	ASR200	262208016104
150	ASR300	262209016105
200	ASR500	262210016106
250	ASR500	262211016106
300	ASR850	262212016107

double acting		
DN	actuator	code
32-40	RE51	262203017006R
50	RE51	262204017006R
65	RE64	262205017007R
80	RE64	262206017007R
100	RE76	262207017008R
125	RE76	262208017008R
150	RE86	262209017009R
200	RE101	262210017010R
250	RE116	262211017011R
300	RE126	262212017012R

spring return		
DN	actuator	code
32-40	RES64	262203017107R
50	RES64	262204017107R
65	RES76	262205017108R
80	RES76	262206017108R
100	RES101	262207017110R
125	RES101	262208017110R
150	RES116	262209017111R
200	RES126	262210017112R
250	RES146	262211017113R
300	RES181	262212017115R

PNEUMATIC

1131 - Lug - Pneumatic actuated cast iron butterfly valve

Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above.

double acting		
DN	actuator	code
40	ADA20	262233015100
50	ADA20	262234015100
65	ADA40	262235015101
80	ADA40	262236015101
100	ADA80	262237015102
125	ADA80	262238015102
150	ADA130	262239015103
200	ADA200	262250015104
250	ADA300	262251015105
300	ADA500	262252015106

⚠ PN16 execution on request above DN150

spring return		
DN	actuator	code
40	ASR40	262233016101
50	ASR40	262234016101
65	ASR80	262235016102
80	ASR80	262236016102
100	ASR130	262237016103
125	ASR200	262238016104
150	ASR300	262239016105
200	ASR500	262250016106
250	ASR850	262251016107
300	ASR1200	262252016108

double acting		
DN	actuator	code
40	RE51	262233017006R
50	RE51	262234017006R
65	RE64	262235017007R
80	RE64	262236017007R
100	RE76	262237017008R
125	RE76	262238017008R
150	RE86	262239017009R
200	RE101	262250017010R
250	RE116	262251017011R
300	RE126	262252017012R

⚠ PN16 execution on request above DN150

spring return		
DN	actuator	code
40	RES64	262233017107R
50	RES64	262234017107R
65	RES76	262235017108R
80	RES76	262236017108R
100	RES101	262237017110R
125	RES101	262238017110R
150	RES116	262239017111R
200	RES126	262250017112R
250	RES146	262251017113R
300	RES181	262252017115R

Seat EPDM - Disc GGG40 nickel-plated - TS: -10°C/+110°C

ELECTRIC

1125 - Wafer - Electric actuated cast iron butterfly valve

PS: 16 bar up to DN300, 10 bar above.

DN	actuator	code
32-40	TCR05N	262003024310
50	TCR05N	262004024310
65	TCR05N	262005024310
80	TCR05N	262006024310
100	TCR11N	262007024610
125	TCR11N	262008024610
150	TCR20N	262009024700
200	TCR40N	262010024720
250	TCR40N	262011024720

DN	actuator	code
32-40	SA05	262003023010
50	SA05	262004023010
65	SA05	262005023010
80	SA05	262006023010
100	SA05	262007023010
125	NA09	262008023120
150	NA15	262009023130
200	NA15	262010023130
250	NA28	262011023150
300	NA60	262012023180
350	NA60	262013023183
400	NA100	262014023203

Up to DN500 on request

⚠ **230V actuator up to DN300, 3~400V above.**

ELECTRIC

1135 - Lug - Electric actuated cast iron butterfly valve

Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar, up to DN150, 10 bar above.

DN	actuator	code
50	TCR 05	262504024310
65	TCR 05	262505024310
80	TCR 05	262506024310
100	TCR 11	262507024610
125	TCR 11	262508024610
150	TCR20N	262509024700
200	TCR40N	262510024720
250	TCR40N	262511024720

⚠ PN16 execution on request above DN150

DN	actuator	code
50	SA05	262504023010
65	SA05	262505023010
80	SA05	262506023010
100	SA05	262507023010
125	NA09	262508023120
150	NA15	262509023130
200	NA15	262510023130
250	NA28	262511023150
300	NA60	262512023180

Seat EPDM - Disc CF8M - TS: -10°C/+110°C

ELECTRIC

1123 - Wafer - Electric actuated cast iron butterfly valve

Wafer type PN10/16, ANSI 150 & JIS 10K - PS: 16 bar.

DN	actuator	code
32-40	TCR05N	262103024310
50	TCR05N	262104024310
65	TCR05N	262105024310
80	TCR05N	262106024310
100	TCR11N	262107024610
125	TCR11N	262108024610
150	TCR20N	262109024700
200	TCR40N	262110024720
250	TCR40N	262111024720

DN	actuator	code
32-40	SA05	262103023010
50	SA05	262104023010
65	SA05	262105023010
80	SA05	262106023010
100	SA05	262107023010
125	NA09	262108023120
150	NA15	262109023130
200	NA15	262110023130
250	NA28	262111023150
300	NA60	262112023180

Up to DN500 on request

ELECTRIC

1133 - Lug - Electric actuated cast iron butterfly valve

Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above.

DN	actuator	code
50	TCR05N	262604024310
65	TCR05N	262605024310
80	TCR05N	262606024310
100	TCR11N	262607024610
125	TCR11N	262608024610
150	TCR20N	262609024700
200	TCR40N	262610024720
250	TCR40N	262611024720

⚠ PN16 execution on request above DN150

DN	actuator	code
50	SA05	262604023010
65	SA05	262605023010
80	SA05	262606023010
100	SA05	262607023010
125	NA09	262608023120
150	NA15	262609023130
200	NA15	262610023130
250	NA28	262611023150
300	NA60	262612023180

Seat NBR - Disc CF8M - TS: -10°C/+90°C

ELECTRIC

1121 - Wafer - Electric actuated cast iron butterfly valve

Wafer type PN10/16, ANSI 150 & JIS 10K - PS: 16 bar.

DN	actuator	code
32-40	TCR05N	262203024310
50	TCR05N	262204024310
65	TCR05N	262205024310
80	TCR05N	262206024310
100	TCR11N	262207024610
125	TCR11N	262208024610
150	TCR20N	262209024700
200	TCR40N	262210024720
250	TCR40N	262211024720

DN	actuator	code
32-40	SA05	262203023010
50	SA05	262204023010
65	SA05	262205023010
80	SA05	262206023010
100	SA05	262207023010
125	NA09	262208023120
150	NA15	262209023130
200	NA15	262210023130
250	NA28	262211023150
300	NA60	262212023180

ELECTRIC

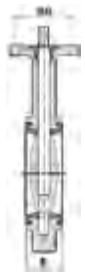
1131 - Lug - Electric actuated cast iron butterfly valve

Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above.

DN	actuator	code
50	TCR05N	262234024310
65	TCR05N	262235024310
80	TCR05N	262236024310
100	TCR11N	262237024610
125	TCR11N	262238024610
150	TCR20N	262239024700
200	TCR40N	262240024720
250	TCR40N	262241024720

⚠ PN16 execution on request above DN150

DN	actuator	code
50	SA05	262234023010
65	SA05	262235023010
80	SA05	262236023010
100	SA05	262237023010
125	NA09	262238023120
150	NA15	262239023130
200	NA15	262240023130
250	NA28	262241023150
300	NA60	262242023180



Ductile iron - GGG40

2014/68/EU Directive N°0035 - Risk category III / module H - GGG40 body - Epoxy coated - ISO pad - PS: 16 bar up to DN300, 10 bar above - ⚠ **Supplied with lever up to DN300, supplied with gearbox above.**

CE 0035 | 3.1 see p. 22

Face to face according to EN 558 series 20 / ISO pad according to ISO 5211

DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
face to face "E"	33	43	46	46	52	56	56	60	68	78	78	102	114	127	154
ISO pad	F07	F07	F07	F07	F07	F07	F07	F10	F10	F10	F10	F14	F14	F14	F16
square drive	9	9	9	9	11	14	14	17	22	22	22	27	27	36	36

Seat EPDM - TS: -10°C/+110°C

WRAS APPROVED PRODUCT | IIPH | ACS Drinking water

1170 - Wafer - Disc GGG40 epoxy coated

Between flanges PN10/16, ANSI 150 & JIS 10K up to DN300.

DN	32-40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
PS (bar)	16	16	16	16	16	16	16	16	16	16	10	10	10	10	10
code	1170040	1170050	1170065	1170080	1170100	1170125	1170150	1170200	1170250	1170300	1170350	1170400	1170450	1170500	1170600

1175 - Lug - Disc GGG40 epoxy coated

Between flanges PN10 or PN16.

WRAS APPROVED PRODUCT | IIPH | ACS Drinking water

DN	40	50	65	80	100	125	150	200	250	300	350	400
PS (bar)	16	16	16	16	16	16	16	10/16*	10/16*	10/16*	10	10
PN10 code	-	-	-	-	-	-	-	1175200	1175250	1175300	1175350	1175400
PN16 code	1175040	1175050	1175065	1175080	1175100	1175125	1175150	1175201	1175251	1175301	1175351	1175401

* PS: 10 bar for PN10 valves, 16 bar for PN16 valves.

Seat High temperature EPDM - TS: -20°C/+130°C

1173 - Wafer - Disc CF8M

Between flanges PN10/16, ANSI 150 & JIS 10K up to DN300.

DN	32-40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
PS (bar)	16	16	16	16	16	16	16	16	16	16	10	10	10	10	10
code	1173040	1173050	1173065	1173080	1173100	1173125	1173150	1173200	1173250	1173300	1173350	1173400	1173450	1173500	1173600

1176 - Lug - Disc CF8M

Between flanges PN10 or PN16.

DN	40	50	65	80	100	125	150	200	250	300	350
PS (bar)	16	16	16	16	16	16	16	10/16*	10/16*	10/16*	10/16*
PN10 code	-	-	-	-	-	-	-	1176200	1176250	1176300	1176350
PN16 code	1176040	1176050	1176065	1176080	1176100	1176125	1176150	1176201	1176251	1176301	1176351

* PS: 10 bar for PN10 valves, 16 bar for PN16 valves.

Seat NBR - TS: -10°C/+90°C

1174 - Wafer - Disc Aluminium bronze

Between flanges PN10/16 & ANSI 150 and JIS10K from DN40 tp DN300.

DN	32-40	50	65	80	100	125	150	200
PS (bar)	16	16	16	16	16	16	16	16
code	1174040	1174050	1174065	1174080	1174100	1174125	1174150	1174200

1177 - Wafer - Disc CF8M

Between flanges PN10/16 & ANSI 150 & JIS10K.

DN	32-40	50	65	80	100	125	150	200
PS (bar)	16	16	16	16	16	16	16	16
code	1177040	1177050	1177065	1177080	1177100	1177125	1177150	1177200

Concentric butterfly valves

NEW

1178 - Lug - Disc CF8M

Between flanges PN10/16.

DN	40	50	65	80	100	125	150	200
PS (bar)	16	16	16	16	16	16	16	16
code	1178040	1178050	1178065	1178080	1178100	1178125	1178150	1178200

Options & spare parts

1192 - Spare gearbox (only for butterfly valves 1170, 1175, 1173, 1176, 1174, 1177 & 1178).

DN	40	50	65	80	100	125	150	200	250	300
code	1192001	1192001	1192001	1192001	1192002	1192003	1192003	1192004	1192005	1192006
mounting code	WORKGB1	WORKGB1	WORKGB1	WORKGB1	WORKGB1	WORKGB2	WORKGB2	WORKGB2	WORKGB2	WORKGB2

Spare lever (only for butterfly valves 1170, 1175, 1173, 1176, 1174, 1177 & 1178).

DN	40	50	65	80	100	125	150	200	250	300
code	9831150	9831150	9831150	9831150	9831151	9831152	9831152	9831153	9831154	9831154

Spare seat

Spare EPDM & NBR seats available on request, please consult

Concentric butterfly valves

Ductile iron - GGG50

Guarantee 5 Years

2014/68/EU Directive N°0094 - Risk category III / module H - SIL 2 (& SIL 3 capable) - Bureau Veritas Type Approval certificate N°14087/D0BV - GGG50 body - Rilsan coated - ISO pad - PS: 16 bar up to DN300, 10 bar above - Gearbox recommended above DN200 - ⚠ **Supplied with lever up to DN300, supplied bare shaft above or with gearbox on specific reference.**

0094 3.1 see p. 22

Face to face according to EN 558 series 20 / ISO pad according to ISO 5211

DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
face to face "E"	33	43	46	46	52	56	56	60	68	78	78	102	114	127	154
ISO pad	F7	F7	F7	F7	F7	F7	F7	F7	F10	F10	F14	F14	F14	F14	F16
square drive	9.5	9.5	12	14	14	17	17	21	23	26.5	26.5	33	Ø 50*	Ø 50*	Ø 60*

* splined shaft.

Seat EPDM - TS: -20°C/+110°C

1150 - Wafer - Disc CF8M up to DN100, disc GGG50 rilsan coated above

Between flanges PN10/16 & ANSI 150 up to DN400, PN10 above.

DN	32-40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16	16
code	1150040	1150050	1150065	1150080	1150100	1150125	1150150	1150200	1150250	1150300

DN	350	400	450	500	600
PS (bar)	10	10	10	10	10
code	1150350	1150400	1150450	1150500	1150600
gearbox code	1150352	1150402	1150452	1150502	1150602

not on stock, on request.

1160 - Lug - Disc CF8M up to DN100, disc GGG50 rilsan coated above

Between flanges PN10 or PN16.

DN	32	40	50	65	80	100	125	150	200	250	300	350	400
PS (bar)	16	16	16	16	16	16	16	16	10/16*	10/16*	10/16*	10	10
PN10 code	-	-	-	-	-	-	-	-	1160200	1160250	1160300	1160350	1160400
PN16 code	1160032	1160040	1160050	1160065	1160080	1160100	1160125	1160150	1160201	1160251	1160301	-	-
PN10 gearbox code	-	-	-	-	-	-	-	-	-	-	-	1160352	1160402

* PS: 10 bar for PN10 valves, 16 bar for PN16 valves.

not on stock, on request.

1153 - Wafer - Disc CF8M

Between flanges PN10/16 & ANSI 150 up to DN400, PN10 above.

DN	32-40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16	16
code	1153040	1153050	1153065	1153080	1153100	1153125	1153150	1153200	1153250	1153300
gearbox code	-	-	-	-	-	-	1153152	1153202	1153252	1153302

DN	350	400	450	500
PS (bar)	10	10	10	10
code	1153350	1153400	1153450	1153500
gearbox code	1153352	1153402	1153452	1153502

not on stock, on request.

1163 - Lug - Disc CF8M

Between flanges PN10 or PN16.

DN	40	50	65	80	100	125	150	200	250	300	350	400
PS (bar)	16	16	16	16	16	16	16	10/16*	10/16*	10/16*	10	10
PN10 code	-	-	-	-	-	-	-	1163200	1163250	1163300	1163350	1163400
PN16 code	1163040	1163050	1163065	1163080	1163100	1163125	1163150	1163201	1163251	1163301	-	-

* PS: 10 bar for PN10 valves, 16 bar for PN16 valves.

not on stock, on request.

Seat high temperature EPDM - TS: -20°C/+130°C

1149 - Wafer - Disc CF8M

Between flanges PN10/16 & ANSI 150 up to DN400, PN10 above.

DN	32-40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16	16
code	1149040	1149050	1149065	1149080	1149100	1149125	1149150	1149200	1149250	1149300

DN	350	400	450	500
PS (bar)	10	10	10	10
code	1149350	1149400	1149450	1149500

Seat NBR - TS: -10°C/+90°C

1152 - Wafer - Disc CF8M up to DN100 - Disc GGG50 rilsan coated above

Between flanges PN10/16 & ANSI 150 up to DN400, PN10 above.

DN	32-40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16	16
code	1152040	1152050	1152065	1152080	1152100	1152125	1152150	1152200	1152250	1152300

DN	350	400	450	500
PS (bar)	10	10	10	10
code	1152350	1152400	1152450	1152500
gearbox code	1152352	1152402	1152452	1152502

not on stock, on request.

1162 - Lug - Disc CF8M up to DN100 - Disc GGG50 rilsan coated above

Between flanges PN10 or PN16.

								Flanges PN10	
DN	40	50	65	80	100	125	150	200	250
PS (bar)	16	16	16	16	16	16	16	10	10
code	1162040	1162050	1162065	1162080	1162100	1162125	1162150	1162200	1162250

COMPRESSED AIR

1152V - Wafer - Disc CF8M up to DN100 - Disc GGG50 rilsan coated above - Vulcanized NBR seat

Between flanges PN10/16 & ANSI 150.

DN	32-40	50	65	80	100	125	150	200	250
PS (bar)	16	16	16	16	16	16	16	16	16
code	1152V040	1152V050	1152V065	1152V080	1152V100	1152V125	1152V150	1152V200	1152V250

COMPRESSED AIR

1162V - Lug - Disc CF8M up to DN100 - Disc GGG50 rilsan coated above - Vulcanized NBR seat

Between flanges PN10 or PN16.

DN	40	50	65	80	100	125	150	200
PS (bar)	16	16	16	16	16	16	16	16
code	1162V040	1162V050	1162V065	1162V080	1162V100	1162V125	1162V150	1162V200

1151 - Wafer - Disc CF8M

Between flanges PN10/16 & ANSI 150.

DN	32-40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16	16
code	1151040	1151050	1151065	1151080	1151100	1151125	1151150	1151200	1151250	1151300

1161 - Lug - Disc CF8M

Between flanges PN10 or PN16.

DN	40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	10/16*	10/16*	10/16*
PN10 code	-	-	-	-	-	-	-	1161200	1161250	1161300
PN16 code	1161040	1161050	1161065	1161080	1161100	1161125	1161150	1161201	1161251	1161301

* PS: 10 bar for PN10 valves, 16 bar for PN16 valves.

not on stock, on request.

1156 - Wafer - Disc CF8M - Seat white NBR

Between flanges PN10/16 & ANSI 150.

DN	32-40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16	16
code	1156040	1156050	1156065	1156080	1156100	1156125	1156150	1156200	1156250	1156300

1158 - Wafer - Disc aluminium bronze

Between flanges PN10/16 & ANSI 150 up to DN400, PN10 above.

DN	32-40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16	16
code	1158040	1158050	1158065	1158080	1158100	1158125	1158150	1158200	1158250	1158300

DN	350	400	450	500	600
PS (bar)	10	10	10	10	10
code	1158350	1158400	1158450	1158500	1158600

not on stock, on request.

Seat carboxylated NBR - TS: -10°C/+90°C

1147 - Wafer - Disc CF8M up to DN100, Disc GGG50 epoxy coated above

Between flanges PN10/16 & ANSI 150.

DN	32-40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16	16
code	1147040	1147050	1147065	1147080	1147100	1147125	1147150	1147200	1147250	1147300

Gas service - Low temperature NBR - TS: -20°C/+60°C

GAS

1141 - Wafer - Disc CF8M up to DN100, Disc GGG50 epoxy coated above

PS: 5 bar (class MOP5) - Between flanges PN10/16 & ANSI 150.

DN	32-40	50	65	80	100	125	150	200
PS (bar)	5	5	5	5	5	5	5	5
code	1141040	1141050	1141065	1141080	1141100	1141125	1141150	1141200

GAS

1181 - Lug - Disc CF8M up to DN100, Disc GGG50 epoxy coated above

PS: 5 bar (class MOP5) - Between flanges PN10 or PN16.

								Flanges PN10
DN	40	50	65	80	100	125	150	200
PS (bar)	16	16	16	16	16	16	16	10
code	1181040	1181050	1181065	1181080	1181100	1181125	1181150	1181200

Seat silicone - TS: -40°C/+150°C

1157 - Wafer - Disc CF8M

Between flanges PN10/16 & ANSI 150.

DN	32-40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16	16
code	1157040	1157050	1157065	1157080	1157100	1157125	1157150	1157200	1157250	1157300

not on stock, on request.

Seat alimentary silicone - TS: -40°C/+150°C

FDA on request*

1183 - Disc polished CF8M

Between flanges PN10/16 & ANSI 150.

DN	32-40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16	16
code	1183040	1183050	1183065	1183080	1183100	1183125	1183150	1183200	1183250	1183300

* FDA certification only applies to special orders. Please consult us.

Seat FKM - TS: -5°C/+180°C

1154 - Wafer - Disc CF8M

Between flanges PN10/16 & ANSI 150 up to DN400, PN10 above.

DN	32-40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16	16
code	1154040	1154050	1154065	1154080	1154100	1154125	1154150	1154200	1154250	1154300

DN	350	400	450	500
PS (bar)	10	10	10	10
code	1154350	1154400	1154450	1154500
gearbox code	1154352	1154402	-	-

not on stock, on request.

1164 - Lug - Disc CF8M

Between flanges PN10 or PN16.

								Flanges PN10		
DN	40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	10	10	10
code	1164040	1164050	1164065	1164080	1164100	1164125	1164150	1164200	1164250	1164300

Seat Teflon® with silicone liner - TS: -25°C/+200°C

1145 - Wafer - Disc CF8M

Between flanges PN10/16 & ANSI 150.

DN	32-40	50	65	80	100	125	150	200	250*	300*
PS (bar)	16	16	16	16	16	16	16	10	10	10
code	1145040	1145050	1145065	1145080	1145100	1145125	1145150	1145200	1145250	1145300

* Includes gearbox.

1166 - Lug - Disc CF8M

Between flanges PN10 or PN16.

								Flanges PN10		
DN	40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	10	10	10
code	1166040	1166050	1166065	1166080	1166100	1166125	1166150	1166200	1166250	1166300

1155 - Wafer - Disc CF8M + Teflon®

Between flanges PN10/16 & ANSI 150.

DN	32-40	50	65	80	100	125	150	200	250*	300*
PS (bar)	16	16	16	16	16	16	16	10	10	10
code	1155040	1155050	1155065	1155080	1155100	1155125	1155150	1155200	1155250	1155300

* Includes gearbox.

1165 - Lug - Disc CF8M + Teflon®

Between flanges PN10 or PN16.

								Flanges PN10
DN	40	50	65	80	100	125	150	200
PS (bar)	16	16	16	16	16	16	16	10
code	1165040	1165050	1165065	1165080	1165100	1165125	1165150	1165200

not on stock, on request.

Fire network service - Seat EPDM - TS: -10°C/+110°C

IP 65

APSAD R1

1148 - Wafer - Disc CF8M up to DN100, Disc GGG50 chrome-plated above

Acc. to APSAD R1 - With gearbox - Between flanges PN10/16 & ANSI 150 up to DN400, PN10 above.

DN	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16
code	1148050	1148065	1148080	1148100	1148125	1148150	1148200	1148250	1148300

APSAD R1

1142 - Wafer - Disc CF8M up to DN100, Disc GGG50 chrome-plated above

Acc. to APSAD R1 - With gearbox & limit switches - Between flanges PN10/16 & ANSI 150 up to DN400, PN10 above.

DN	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16
code	1142050	1142065	1142080	1142100	1142125	1142150	1142200	1142250	1142300

Guarantee 5 Years

2014/68/EU Directive N°0038 - Risk category III / module H - SIL 2 (& SIL 3 capable) - Bureau Veritas Type Approval certificate N°14087/D0BV - GGG50 body - Rilsan coated - ISO pad - PS: 25 bar.

SIL CE 0094 3.1 see p. 22

Seat EPDM - TS: -20°C/+110°C

1187 - Wafer - Disc CF8M up to DN100, Disc GGG50 above

Between flanges PN25 & ANSI 150.

DN	40	50	65	80	100	125	150	200
PS (bar)	25	25	25	25	25	25	25	25
code	1187040	1187050	1187065	1187080	1187100	1187125	1187150	1187200

Carbon steel & stainless steel

Seat EPDM - TS: -20°C/+110°C

Guarantee 5 Years

2014/68/EU Directive N°0038 - Risk category III / module H - SIL 2 (& SIL 3 capable) - Bureau Veritas Type Approval certificate N°14087/D0BV - CF8M body - PS: 16 bar.

3.1 see p. 22

1184 - Wafer - Disc CF8M
Between flanges PN10/16 & ANSI 150

DN	32-40	50	65	80	100	125	150	200	250	300
code	1184040	1184050	1184065	1184080	1184100	1184125	1184150	1184200	1184250	1184300

Smoke & fumes service - Metal seat

Guarantee 5 Years

2014/68/EU Directive N°0038 - Risk category III / module H - SIL 2 (& SIL 3 capable) - A216WCB or CF8M body - Metal seat - ISO pad - PS: 16 bar - Incomplete tightness: loss factor 2% of Kvs. ⚠ **Not suitable for steam.**

3.1 see p. 22

Compatible ATEX ZONE no source of ignition

SMOKE

1111 - Wafer - Body A216WCB - Disc CF8M up to DN100, Disc GGG50 chrome-plated above - TS: -20°C/+350°C
Between flanges PN10/16 & ANSI 150.

DN	32-40	50	65	80	100	125	150	200	250	300
code	1111040	1111050	1111065	1111080	1111100	1111125	1111150	1111200	1111250	1111300

Available up to DN1400 on request

SMOKE

1112 - Wafer - Body CF8M - Disc CF8M - TS: -30°C/+350°C
Between flanges PN10/16 & ANSI 150.

DN	32-40	50	65	80	100	125	150	200	250	300	350
code	1112040	1112050	1112065	1112080	1112100	1112125	1112150	1112200	1112250	1112300	1112350

not on stock, on request.

Accessories & spare parts for TTV butterfly valves

1197 - Spare gearbox with position indicator

DN	40-50	65	80-100	125	150	200	250	300	350	400	450	500	600
code	1197050	1197065	1197100	1197150	1197150	1197200	1197250	1197300	1197350	1197400	1197451	1197501	1197601
mounting code	WORKGB1	WORKGB1	WORKGB1	WORKGB2	WORKGB2	WORKGB2	WORKGB2	WORKGB2	WORKGB2	WORKGB2	WORKGB2	WORKGB2	WORKGB2

1194 - Chain wheel gearbox

DN	40-50	65	80-100	125	150	200	250	300	350	400
code	1194050	1194065	1194100	1194150	1194150	1194200	1194250	1194300	1194350	1194400
mounting code	WORKGB1	WORKGB1	WORKGB1	WORKGB1	WORKGB2	WORKGB2	WORKGB2	WORKGB2	WORKGB2	WORKGB2

Chain

	per m
code	9866209

1196 - Cast iron sleeve - To fit in EN 558 series 14 spacing (without flange & bolts)

DN	40	50	65	80	100	125	150
length	107	107	124	134	136	144	154
DIN total length	140	150	170	180	190	200	210
code	1196040	1196050	1196065	1196080	1196100	1196125	1196150

Spare aluminium lever

DN	40	50	65	80	100	125	150	200	250	300
old code*	9831201	9831201	9831202	9831203	9831203	9831204	9831204	9831205	9831206	9831207
new code*	9831331	9831331	9831332	9831333	9831333	9831334	9831334	9831335	9831336	9831337

* Old codes for valves before 2015 / new codes

Spare stainless steel lever & plate

To be ordered along with the valve, delivered from factory - Additional delivery time approx. 2 weeks.

DN	40	50	65	80	100	125	150	200
code	9831260	9831260	9831261	9831262	9831262	9831263	9831263	9831264

Spare seats

	DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500
EPDM -10°C/+110°C	code	9865000	9865001	9865002	9865003	9865004	9865005	9865006	9865007	9865050	9865051	9865018	9865019	9865201	9865202
EPDM high temperature -20°C/+130°C	code	-	9865081	9865082	9865083	9865084	9865085	9865086	9865087	9865089	-	-	-	-	-
NBR -10°C/+90°C	code	9865108	9865109	9865110	9865111	9865112	9865113	9865114	9865115	9865116	-	-	-	-	-
FKM -5°C/+180°C	code	9865133	9865124	9865125	9865126	9865127	9865128	9865129	9865130	9865131	9865132	-	-	-	-
SILICONE -30°C/+150°C	code	-	9865117	9865118	9865119	9865120	9865121	9865122	9865123	9865134	9865135	-	-	-	-
CARBOXYL. NBR -10°C/+90°C	code	9865230	9865231	9865232	9865233	9865234	9865235	9865236	9865237	9865238	9865239	-	-	-	-

Concentric butterfly valves

Manual valves with limit switch box

Manual valves equipped with SF012 limit switch box IP67 - SPDT 250V-5A (see features page 179).

1150 - Disc GGG50 epoxy coated (Disc CF8M up to DN100) / Seat EPDM

DN	lever code
40	2603030462012
50	2603040462012
65	2603050462012
80	2603060462012
100	2603070462012
125	2603080462012
150	2603090462012
200	2603100462012

DN	gearbox code
200	260310R0462012
250	260311R0462012
300	260312R0462012
350	260313R0462012
400	260314R0462012

1153 - Disc CF8M / Seat EPDM

DN	code
40	2603630462012
50	2603640462012
65	2603650462012
80	2603660462012
100	2603670462012
125	2603680462012
150	2603690462012
200	2603700462012

Manual valves equipped with Atex SK012 limit switch box IP67 - SPDT 250V-5A (see features page 179) -
Protection rating CE Ex II 2G Ex d IIC T6/T5/T4 & CE Ex II 2D Ex tb IIIC T85°/100°C/135°C Db IP66-67

Ex 10 €/pc

1141 - Disc GGG50 epoxy coated (Disc CF8M up to DN100) / Seat NBR.

DN	code
40	2605930477012
50	2605940477012
65	2605950477012
80	2605960477012
100	2605970477012
125	2605980477012
150	2605990477012
200	2606000477012

All our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
All our electric actuated butterfly valves are equipped with a 230V AC actuator as standard - Other voltages on request, please consult.
⚠ **ΔP max.: 10 bar up to DN300, 5 bar above** - Actuators & automation complements, see page 170.

Ductile iron - GGG50

Seat EPDM - TS: -10°C/+110°C

1150 LT10 - Wafer - Pneumatic actuated ductile iron butterfly valve

Disc CF8M up to DN100, disc GGG50 rilsan coated above - Wafer type PN10/16 & ANSI 150 - PS: 10 bar.

10€/pc

double acting		
DN	actuator	code
32-40	ADA20	260303015100L10
50	ADA20	260304015100L10
65	ADA40	260305015101L10
80	ADA40	260306015101L10
100	ADA80	260307015102L10
125	ADA80	260308015102L10
150	ADA130	260309015103L10
200	ADA200	260310015104L10
250	ADA300	260311015105L10
300	ADA500	260312015106L10
350	ADA850	260313015107L10
400	ADA1200	260314015108L10

spring return		
DN	actuator	code
32-40	ASR40	260303016101L10
50	ASR40	260304016101L10
65	ASR80	260305016102L10
80	ASR80	260306016102L10
100	ASR130	260307016103L10
125	ASR200	260308016104L10
150	ASR300	260309016105L10
200	ASR500	260310016106L10
250	ASR500	260311016106L10
300	ASR850	260312016107L10
350	ASR1200	260313016108L10
400	ASR2500	260314016111L10

double acting		
DN	actuator	code
32-40	RE51	260303017006RL10
50	RE51	260304017006RL10
65	RE64	260305017007RL10
80	RE64	260306017007RL10
100	RE76	260307017008RL10
125	RE76	260308017008RL10
150	RE86	260309017009RL10
200	RE101	260310017010RL10
250	RE116	260311017011RL10
300	RE126	260312017012RL10
350	RE161	260313017014RL10
400	RE201	260314017016RL10

spring return		
DN	actuator	code
32-40	RES64	260303017107RL10
50	RES64	260304017107RL10
65	RES76	260305017108RL10
80	RES76	260306017108RL10
100	RES86	260307017109RL10
125	RES101	260308017110RL10
150	RES116	260309017111RL10
200	RES126	260310017112RL10
250	RES146	260311017113RL10
300	RES181	260312017115RL10
350	RES201	260313017116RL10
400	RES271	260314017117RL10

not on stock, on request.

1160 - Lug - Pneumatic actuated ductile iron butterfly valve

Disc CF8M up to DN100, disc GGG50 rilsan coated above - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above.

10€/pc

double acting		
DN	actuator	code
40	ADA20	261303015100
50	ADA20	261304015100
65	ADA40	261305015101
80	ADA40	261306015101
100	ADA80	261307015102
125	ADA80	261308015102
150	ADA130	261309015103
200	ADA200	261310015104
250	ADA300	261311015105
300	ADA500	261312015106

⚠ PN16 execution on request above DN150

spring return		
DN	actuator	code
40	ASR40	261303016101
50	ASR40	261304016101
65	ASR80	261305016102
80	ASR80	261306016102
100	ASR130	261307016103
125	ASR200	261308016104
150	ASR300	261309016105
200	ASR500	261310016106
250	ASR500	261311016106
300	ASR850	261312016107

double acting		
DN	actuator	code
40	RE51	261303017006R
50	RE51	261304017006R
65	RE64	261305017007R
80	RE64	261306017007R
100	RE76	261307017008R
125	RE76	261308017008R
150	RE86	261309017009R
200	RE101	261310017010R
250	RE116	261311017011R
300	RE126	261312017012R

⚠ PN16 execution on request above DN150

spring return		
DN	actuator	code
40	RES64	261303017107R
50	RES64	261304017107R
65	RES76	261305017108R
80	RES76	261306017108R
100	RES86	261307017109R
125	RES101	261308017110R
150	RES116	261309017111R
200	RES126	261310017112R
250	RES146	261311017113R
300	RES181	261312017115R

PNEUMATIC

1153 LT10 - Wafer - Pneumatic actuated ductile iron butterfly valve

Disc CF8M - Wafer type PN10/16 & ANSI 150 - PS: 10 bar.

10 €/pc

double acting		
DN	actuator	code
32-40	ADA20	260363015100L10
50	ADA20	260364015100L10
65	ADA40	260365015101L10
80	ADA40	260366015101L10
100	ADA80	260367015102L10
125	ADA80	260368015102L10
150	ADA130	260369015103L10
200	ADA200	260370015104L10
250	ADA300	260371015105L10
300	ADA500	260372015106L10
350	ADA850	260373015107L10
400	ADA1200	260374015108L10

spring return		
DN	actuator	code
32-40	ASR40	260363016101L10
50	ASR40	260364016101L10
65	ASR80	260365016102L10
80	ASR80	260366016102L10
100	ASR130	260367016103L10
125	ASR200	260368016104L10
150	ASR300	260369016105L10
200	ASR500	260370016106L10
250	ASR500	260371016106L10
300	ASR850	260372016107L10
350	ASR1200	260373016108L10
400	ASR2500	260374016111L10

double acting		
DN	actuator	code
32-40	RE51	260363017006RL10
50	RE51	260364017006RL10
65	RE64	260365017007RL10
80	RE64	260366017007RL10
100	RE76	260367017008RL10
125	RE76	260368017008RL10
150	RE86	260369017009RL10
200	RE101	260370017010RL10
250	RE116	260371017011RL10
300	RE126	260372017012RL10
350	RE161	260373017014RL10
400	RE201	260374017016RL10

spring return		
DN	actuator	code
32-40	RES64	260363017107RL10
50	RES64	260364017107RL10
65	RES76	260365017108RL10
80	RES76	260366017108RL10
100	RES86	260367017109RL10
125	RES101	260368017110RL10
150	RES116	260369017111RL10
200	RES126	260370017112RL10
250	RES146	260371017113RL10
300	RES181	260372017115RL10
350	RES201	260373017116RL10
400	RES271	260374017117RL10

not on stock, on request.

PNEUMATIC

1163 - Lug - Pneumatic actuated ductile iron butterfly valve

Disc CF8M - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above.

10 €/pc

double acting		
DN	actuator	code
40	ADA20	261393015100
50	ADA20	261394015100
65	ADA40	261395015101
80	ADA40	261396015101
100	ADA80	261397015102
125	ADA80	261398015102
150	ADA130	261399015103
200	ADA200	261400015104
250	ADA300	261401015105
300	ADA500	261402015106

⚠ PN16 execution on request above DN150

spring return		
DN	actuator	code
40	ASR40	261393016101
50	ASR40	261394016101
65	ASR80	261395016102
80	ASR80	261396016102
100	ASR130	261397016103
125	ASR200	261398016104
150	ASR300	261399016105
200	ASR500	261400016106
250	ASR500	261401016106
300	ASR850	261402016107

double acting		
DN	actuator	code
40	RE51	261393017006R
50	RE51	261394017006R
65	RE64	261395017007R
80	RE64	261396017007R
100	RE76	261397017008R
125	RE76	261398017008R
150	RE86	261399017009R
200	RE101	261400017010R
250	RE116	261401017011R
300	RE126	261402017012R

⚠ PN16 execution on request above DN150

spring return		
DN	actuator	code
40	RES64	261393017107R
50	RES64	261394017107R
65	RES76	261395017108R
80	RES76	261396017108R
100	RES86	261397017109R
125	RES101	261398017110R
150	RES116	261399017111R
200	RES126	261400017112R
250	RES146	261401017113R
300	RES181	261402017115R

NEW ■ **Seat high temperature EPDM** - TS: -10°C/+130°C

1149 - Wafer - Pneumatic actuated ductile iron butterfly valve

Disc CF8M - Wafer type PN 10/16 & ANSI 150 - PS: 16 bar.

10 €/pc

double acting		
DN	actuator	code
32-40	ADA20	260243015100
50	ADA20	260244015100
65	ADA40	260245015101
80	ADA40	260246015101
100	ADA80	260247015102
125	ADA80	260248015102
150	ADA130	260249015103
200	ADA200	260250015104

⚠ PN16 execution on request above DN150

spring return		
DN	actuator	code
32-40	ASR40	260243016101
50	ASR40	260244016101
65	ASR80	260245016102
80	ASR80	260246016102
100	ASR130	260247016103
125	ASR200	260248016104
150	ASR300	260249016105
200	ASR500	260250016106

double acting		
DN	actuator	code
32-40	RE51	260243017006R
50	RE51	260244017006R
65	RE64	260245017007R
80	RE64	260246017007R
100	RE76	260247017008R
125	RE76	260248017008R
150	RE86	260249017009R
200	RE101	260250017010R

⚠ PN16 execution on request above DN150

spring return		
DN	actuator	code
32-40	RES64	260243017107R
50	RES64	260244017107R
65	RES76	260245017108R
80	RES76	260246017108R
100	RES86	260247017109R
125	RES101	260248017110R
150	RES116	260249017111R
200	RES126	260250017112R

■ **Seat NBR** - TS: -10°C/+80°C

1152 - Wafer - Pneumatic actuated ductile iron butterfly valve

Disc CF8M up to DN100, disc GGG50 epoxy coated above - Wafer type PN10/16 & ANSI 150 - PS: 16 bar up to DN200, 10 bar above.

10 €/pc

double acting		
DN	actuator	code
32-40	ADA20	260333015100
50	ADA20	260334015100
65	ADA40	260335015101
80	ADA40	260336015101
100	ADA80	260337015102
125	ADA80	260338015102
150	ADA130	260339015103
200	ADA200	260340015104
250	ADA300	260341015105

spring return		
DN	actuator	code
32-40	ASR40	260333016101
50	ASR40	260334016101
65	ASR80	260335016102
80	ASR80	260336016102
100	ASR130	260337016103
125	ASR200	260338016104
150	ASR300	260339016105
200	ASR500	260340016106
250	ASR500	260341016106

double acting		
DN	actuator	code
32-40	RE51	260333017006R
50	RE51	260334017006R
65	RE64	260335017007R
80	RE64	260336017007R
100	RE76	260337017008R
125	RE76	260338017008R
150	RE86	260339017009R
200	RE101	260340017010R
250	RE116	260341017011R
300	RE126	260342017012R
350	RE161	260343017014R
400	RE201	260344017016R

spring return		
DN	actuator	code
32-40	RES64	260333017107R
50	RES64	260334017107R
65	RES76	260335017108R
80	RES76	260336017108R
100	RES86	260337017109R
125	RES101	260338017110R
150	RES116	260339017111R
200	RES126	260340017112R
250	RES146	260341017113R
300	RES181	260342017115R
350	RES201	260343017116R
400	RES271	260344017117R

PNEUMATIC

1162 - Lug - Pneumatic actuated ductile iron butterfly valve

Disc CF8M up to DN100, disc GGG50 epoxy coated above - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above.

10 €/pc

ACTREG

double acting		
DN	actuator	code
40	ADA20	261363015100
50	ADA20	261364015100
65	ADA40	261365015101
80	ADA40	261366015101
100	ADA80	261367015102
125	ADA80	261368015102
150	ADA130	261369015103
200	ADA200	261370015103
250	ADA300	261371015104

ACTREG

spring return		
DN	actuator	code
40	ASR40	261363016101
50	ASR40	261364016101
65	ASR80	261365016102
80	ASR80	261366016102
100	ASR130	261367016103
125	ASR200	261368016104
150	ASR300	261369016105
200	ASR500	261370016106
250	ASR500	261371016106

Alphair

double acting		
DN	actuator	code
40	RE51	261363017006R
50	RE51	261364017006R
65	RE64	261365017007R
80	RE64	261366017007R
100	RE76	261367017008R
125	RE76	261368017008R
150	RE86	261369017009R
200	RE101	261370017010R
250	RE116	261371017011R

Alphair

spring return		
DN	actuator	code
40	RES64	261363017107R
50	RES64	261364017107R
65	RES76	261365017108R
80	RES76	261366017108R
100	RES86	261367017109R
125	RES101	261368017110R
150	RES116	261369017111R
200	RES126	261370017112R
250	RES146	261371017113R

PNEUMATIC

1151 - Wafer - Pneumatic actuated ductile iron butterfly valve

Disc CF8M - Wafer type PN10/16 & ANSI 150 - PS: 16 bar.

10 €/pc

ACTREG

double acting		
DN	actuator	code
32-40	ADA20	260440015100
50	ADA20	260441015100
65	ADA40	260442015101
80	ADA40	260443015101
100	ADA80	260444015102
125	ADA80	260445015102
150	ADA130	260446015103
200	ADA200	260447015104

ACTREG

spring return		
DN	actuator	code
32-40	ASR40	260440016101
50	ASR40	260441016101
65	ASR80	260442016102
80	ASR80	260443016102
100	ASR130	260444016103
125	ASR200	260445016104
150	ASR300	260446016105
200	ASR500	260447016106

Alphair

double acting		
DN	actuator	code
50	RE51	260441017006R
65	RE64	260442017007R
80	RE64	260443017007R
100	RE76	260444017008R
125	RE76	260445017008R
150	RE86	260446017009R
200	RE101	260447017010R

Alphair

spring return		
DN	actuator	code
50	RES64	260441017107R
65	RES76	260442017108R
80	RES76	260443017108R
100	RES86	260444017109R
125	RES101	260445017110R
150	RES116	260446017111R
200	RES126	260447017112R

1161 - Lug - Pneumatic actuated ductile iron butterfly valve

Disc CF8M - Lug type PN10/16 - PS: 16 bar.

10 €/pc

double acting		
DN	actuator	code
40	ADA20	261353015100
50	ADA20	261354015100
65	ADA40	261355015101
80	ADA40	261356015101
100	ADA80	261357015102
125	ADA80	261358015102
150	ADA130	261359015103

spring return		
DN	actuator	code
40	ASR40	261353016101
50	ASR40	261354016101
65	ASR80	261355016102
80	ASR80	261356016102
100	ASR130	261357016103
125	ASR200	261358016104
150	ASR300	261359016105

double acting		
DN	actuator	code
40	RE51	261353017006R
50	RE51	261354017006R
65	RE64	261355017007R
80	RE64	261356017007R
100	RE76	261357017008R
125	RE76	261358017008R
150	RE86	261359017009R

spring return		
DN	actuator	code
40	RES64	261353017107R
50	RES64	261354017107R
65	RES76	261355017108R
80	RES76	261356017108R
100	RES86	261357017109R
125	RES101	261358017110R
150	RES116	261359017111R

PNEUMATIC

NEW

1156 - Wafer - Pneumatic actuated ductile iron butterfly valve

Disc CF8M - **Seat white NBR** - Wafer type PN 10/16 & ANSI 150 - PS: 16 bar.

10 €/pc

double acting		
DN	actuator	code
32-40	ADA20	260453015100
50	ADA20	260454015100
65	ADA40	260455015101
80	ADA40	260456015101
100	ADA80	260457015102
125	ADA80	260458015102
150	ADA130	260459015103
200	ADA200	260460015104
250	ADA300	260461015105
300	ADA500	260462015106

spring return		
DN	actuator	code
32-40	ASR40	260453016101
50	ASR40	260454016101
65	ASR80	260455016102
80	ASR80	260456016102
100	ASR130	260457016103
125	ASR200	260458016104
150	ASR300	260459016105
200	ASR500	260460016106
250	ASR500	260461016106
300	ASR850	260462016107

double acting		
DN	actuator	code
32-40	RE51	260453017006R
50	RE51	260454017006R
65	RE64	260455017007R
80	RE64	260456017007R
100	RE76	260457017008R
125	RE76	260458017008R
150	RE86	260459017009R
200	RE101	260460017010R
250	RE116	260461017011R
300	RE126	260462017012R

spring return		
DN	actuator	code
32-40	RES64	260453017107R
50	RES64	260454017107R
65	RES76	260455017108R
80	RES76	260456017108R
100	RES86	260457017109R
125	RES101	260458017110R
150	RES116	260459017111R
200	RES126	260460017112R
250	RES146	260461017113R
300	RES181	260462017115R

PNEUMATIC

NEW **1158 - Wafer - Pneumatic actuated ductile iron butterfly valve**

Disc aluminium bronze - Wafer type PN 10/16 & ANSI 150 - PS: 16 bar.

10 €/pc

double acting		
DN	actuator	code
32-40	ADA20	260513015100
50	ADA20	260514015100
65	ADA40	260515015101
80	ADA40	260516015101
100	ADA80	260517015102
125	ADA80	260518015102
150	ADA130	260519015103
200	ADA200	260520015104
250	ADA300	260521015105
300	ADA500	260522015106

spring return		
DN	actuator	code
32-40	ASR40	260513016101
50	ASR40	260514016101
65	ASR80	260515016102
80	ASR80	260516016102
100	ASR130	260517016103
125	ASR200	260518016104
150	ASR300	260519016105
200	ASR500	260520016106
250	ASR500	260521016106
300	ASR850	260522016107

double acting		
DN	actuator	code
32-40	RE51	260513017006R
50	RE51	260514017006R
65	RE64	260515017007R
80	RE64	260516017007R
100	RE76	260517017008R
125	RE76	260518017008R
150	RE86	260519017009R
200	RE101	260520017010R
250	RE116	260521017011R
300	RE126	260522017012R

spring return		
DN	actuator	code
32-40	RES64	260513017107R
50	RES64	260514017107R
65	RES76	260515017108R
80	RES76	260516017108R
100	RES86	260517017109R
125	RES101	260518017110R
150	RES116	260519017111R
200	RES126	260520017112R
250	RES146	260521017113R
300	RES181	260522017115R

Seat Carboxylated NBR - TS: -10°C/+80°C

PNEUMATIC

1147 - Wafer - Pneumatic actuated ductile iron butterfly valve

Disc CF8M up to DN100, disc GGG50 epoxy coated above - Wafer type PN10/16 & ANSI 150 - PS: 16 bar.

10 €/pc

double acting		
DN	actuator	code
32-40	ADA20	260563015100
50	ADA20	260564015100
65	ADA40	260565015101
80	ADA40	260566015101
100	ADA80	260567015102
125	ADA80	260568015102
150	ADA130	260569015103
200	ADA200	260570015104

spring return		
DN	actuator	code
32-40	ASR40	260563016101
50	ASR40	260564016101
65	ASR80	260565016102
80	ASR80	260566016102
100	ASR130	260567016103
125	ASR200	260568016104
150	ASR300	260569016105
200	ASR500	260570016106

double acting		
DN	actuator	code
32-40	RE51	260563017006R
50	RE51	260564017006R
65	RE64	260565017007R
80	RE64	260566017007R
100	RE76	260567017008R
125	RE76	260568017008R
150	RE86	260569017009R
200	RE101	260570017010R

spring return		
DN	actuator	code
32-40	RES64	260563017107R
50	RES64	260564017107R
65	RES76	260565017108R
80	RES76	260566017108R
100	RES86	260567017109R
125	RES101	260568017110R
150	RES116	260569017111R
200	RES126	260570017112R

Gas service - Low temperature NBR - TS: -10°C/+60°C

1141 - Wafer - Pneumatic actuated ductile iron butterfly valve

Disc CF8M up to DN100, disc GGG50 epoxy coated above - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - Class MOP5 - Certificate NF ROB GAZ 064-R3 up to 5 bar.

10 €/pc

double acting		
DN	actuator	code
32-40	ADA20	260593015100
50	ADA20	260594015100
65	ADA40	260595015101
80	ADA40	260596015101
100	ADA80	260597015102
125	ADA80	260598015102
150	ADA130	260599015103
200	ADA200	260600015104

spring return		
DN	actuator	code
32-40	ASR40	260593016101
50	ASR40	260594016101
65	ASR80	260595016102
80	ASR80	260596016102
100	ASR130	260597016103
125	ASR200	260598016104
150	ASR300	260599016105
200	ASR500	260600016106

double acting		
DN	actuator	code
32-40	RE51	260593017006R
50	RE51	260594017006R
65	RE64	260595017007R
80	RE64	260596017007R
100	RE76	260597017008R
125	RE76	260598017008R
150	RE86	260599017009R
200	RE101	260600017010R

spring return		
DN	actuator	code
32-40	RES64	260593017107R
50	RES64	260594017107R
65	RES76	260595017108R
80	RES76	260596017108R
100	RES86	260597017109R
125	RES101	260598017110R
150	RES116	260599017111R
200	RES126	260600017112R

PNEUMATIC

1181 - Lug - Pneumatic actuated ductile iron butterfly valve

Disc CF8M up to DN100, disc GGG50 epoxy coated above - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above - Class MOP5 - Certificate NF ROB GAZ 064-R3 up to 5 bar.

10 €/pc

double acting		
DN	actuator	code
40	ADA20	261593015100
50	ADA20	261594015100
65	ADA40	261595015101
80	ADA40	261596015101
100	ADA80	261597015102
125	ADA80	261598015102
150	ADA130	261599015103
200	ADA200	261600015104

spring return		
DN	actuator	code
40	ASR40	261593016101
50	ASR40	261594016101
65	ASR80	261595016102
80	ASR80	261596016102
100	ASR130	261597016103
125	ASR200	261598016104
150	ASR300	261599016105
200	ASR500	261600016106

double acting		
DN	actuator	code
40	RE51	261593017006R
50	RE51	261594017006R
65	RE64	261595017007R
80	RE64	261596017007R
100	RE76	261597017008R
125	RE76	261598017008R
150	RE86	261599017009R
200	RE101	261600017010R

spring return		
DN	actuator	code
40	RES64	261593017107R
50	RES64	261594017107R
65	RES76	261595017108R
80	RES76	261596017108R
100	RES86	261597017109R
125	RES101	261598017110R
150	RES116	261599017111R
200	RES126	261600017112R

PNEUMATIC

PNEUMATIC

Seat silicone - TS: -15°C/+150°C

1157 - Wafer - Pneumatic actuated ductile iron butterfly valve

Disc CF8M - Wafer type PN10/16 & ANSI 150 - PS: 16 bar.

10 €/pc

double acting		
DN	actuator	code
32-40	ADA20	260483015100
50	ADA20	260484015100
65	ADA40	260485015101
80	ADA40	260486015101
100	ADA80	260487015102
125	ADA80	260488015102
150	ADA130	260489015103
200	ADA200	260490015104

spring return		
DN	actuator	code
32-40	ASR40	260483016101
50	ASR40	260484016101
65	ASR80	260485016102
80	ASR80	260486016102
100	ASR130	260487016103
125	ASR200	260488016104
150	ASR300	260489016105
200	ASR500	260490016106

double acting		
DN	actuator	code
40	RE51	260483017006R
50	RE51	260484017006R
65	RE64	260485017007R
80	RE64	260486017007R
100	RE76	260487017008R
125	RE76	260488017008R
150	RE86	260489017009R
200	RE101	260490017010R

spring return		
DN	actuator	code
40	RES64	260483017107R
50	RES64	260484017107R
65	RES76	260485017108R
80	RES76	260486017108R
100	RES86	260487017109R
125	RES101	260488017110R
150	RES116	260489017111R
200	RES126	260490017112R

Seat alimentary silicone - TS: -15°C/+150°C

PNEUMATIC

1183 - Wafer - Pneumatic actuated ductile iron butterfly valve

Disc polished CF8M - Wafer type PN10/16 & ANSI 150 - PS: 16 bar.

10 €/pc

double acting		
DN	actuator	code
50	ADA20	260495015100
65	ADA40	260496015101
80	ADA40	260497015101
100	ADA80	260498015102
125	ADA80	260499015102
150	ADA130	260500015103
200	ADA200	260501015104
250	ADA300	260502015105
300	ADA500	260503015106

spring return		
DN	actuator	code
50	ASR40	260495016101
65	ASR80	260496016102
80	ASR80	260497016102
100	ASR130	260498016103
125	ASR200	260499016104
150	ASR300	260500016105
200	ASR500	260501016106
250	ASR500	260502016106
300	ASR850	260503016107

double acting		
DN	actuator	code
50	RE51	260495017006R
65	RE64	260496017007R
80	RE64	260497017007R
100	RE76	260498017008R
125	RE76	260499017008R
150	RE86	260500017009R
200	RE101	260501017010R
250	RE116	260502017011R
300	RE126	260503017012R

spring return		
DN	actuator	code
50	RES64	260495017107R
65	RES64	260496017107R
80	RES76	260497017108R
100	RES76	260498017108R
125	RES86	260499017109R
150	RES101	260500017110R
200	RES116	260501017111R
250	RES146	260502017113R
300	RES181	260503017115R

Seat FKM - TS: -5°C/+150°C

1154 - Wafer - Pneumatic actuated ductile iron butterfly valve

Disc CF8M - Wafer type PN10/16 & ANSI 150 - PS: 16 bar.

10 €/pc

double acting		
DN	actuator	code
32-40	ADA20	260393015100
50	ADA20	260394015100
65	ADA40	260395015101
80	ADA40	260396015101
100	ADA80	260397015102
125	ADA80	260398015102
150	ADA130	260399015103
200	ADA200	260400015104
250	ADA300	260401015105
300	ADA500	260402015106

spring return		
DN	actuator	code
32-40	ASR40	260393016101
50	ASR40	260394016101
65	ASR80	260395016102
80	ASR80	260396016102
100	ASR130	260397016103
125	ASR200	260398016104
150	ASR300	260399016105
200	ASR500	260400016106
250	ASR500	260401016106
300	ASR850	260402016107

double acting		
DN	actuator	code
32-40	RE51	260393017006R
50	RE51	260394017006R
65	RE64	260395017007R
80	RE64	260396017007R
100	RE76	260397017008R
125	RE76	260398017008R
150	RE86	260399017009R
200	RE101	260400017010R
250	RE116	260401017011R
300	RE126	260402017012R

spring return		
DN	actuator	code
32-40	RES64	260393017107R
50	RES64	260394017107R
65	RES76	260395017108R
80	RES76	260396017108R
100	RES86	260397017109R
125	RES101	260398017110R
150	RES116	260399017111R
200	RES126	260400017112R
250	RES146	260401017113R
300	RES181	260402017115R

1164 - Lug - Pneumatic actuated ductile iron butterfly valve

Disc CF8M - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above.

10 €/pc

double acting		
DN	actuator	code
40	ADA20	261423015100
50	ADA20	261424015100
65	ADA40	261425015101
80	ADA40	261426015101
100	ADA80	261427015102
125	ADA80	261428015102
150	ADA130	261429015103
200	ADA200	261430015104

spring return		
DN	actuator	code
40	ASR40	261423016101
50	ASR40	261424016101
65	ASR80	261425016102
80	ASR80	261426016102
100	ASR130	261427016103
125	ASR200	261428016104
150	ASR300	261429016105
200	ASR500	261430016106

double acting		
DN	actuator	code
40	RE51	261423017006R
50	RE51	261424017006R
65	RE64	261425017007R
80	RE64	261426017007R
100	RE76	261427017008R
125	RE76	261428017008R
150	RE86	261429017009R
200	RE101	261430017010R

spring return		
DN	actuator	code
40	RES64	261423017107R
50	RES64	261424017107R
65	RES76	261425017108R
80	RES76	261426017108R
100	RES86	261427017109R
125	RES101	261428017110R
150	RES116	261429017111R
200	RES126	261430017112R

Seat Teflon® with silicone liner - TS: -25°C/+200°C

PNEUMATIC

1145 - Wafer - Pneumatic actuated ductile iron butterfly valve

Disc CF8M - Wafer type PN10/16 & ANSI 150 - PS: 16 bar.

10 €/pc

ACTREG

double acting		
DN	actuator	code
50	ADA40	260545015101
65	ADA80	260546015102
80	ADA80	260547015102
100	ADA130	260548015103
125	ADA200	260549015104
150	ADA300	260550015105
200	ADA300	260551015105
250	ADA850	260552015107
300	ADA850	260553015107

ACTREG

spring return		
DN	actuator	code
50	ASR130	260545016103
65	ASR130	260546016103
80	ASR200	260547016104
100	ASR300	260548016105
125	ASR500	260549016106
150	ASR500	260550016106
200	ASR850	260551016107
250	ASR1200	260552016108
300	ASR2100	260553016110

Alphair

double acting		
DN	actuator	code
50	RE76	260545017008R
65	RE76	260546017008R
80	RE86	260547017009R
100	RE86	260548017009R
125	RE101	260549017010R
150	RE116	260550017011R
200	RE116	260551017011R
250	RE146	260552017013R
300	RE161	260553017014R

Alphair

spring return		
DN	actuator	code
50	RES101	260545017110R
65	RES101	260546017110R
80	RES116	260547017111R
100	RES116	260548017111R
125	RES146	260549017113R
150	RES146	260550017113R
200	RES161	260551017114R
250	RES201	260552017116R
300	RES241	260553017118R

PNEUMATIC

NEW

1166 - Lug - Pneumatic actuated ductile iron butterfly valve

Disc CF8M - Lug type PN 10 or 16 - PS: 16 bar up to DN150, 10 bar above.

10 €/pc

ACTREG

double acting		
DN	actuator	code
50	ADA40	261444015101
65	ADA80	261445015102
80	ADA80	261446015102
100	ADA130	261447015103
125	ADA200	261448015104
150	ADA300	261449015105
200	ADA300	261450015105
250	ADA850	261451015107
300	ADA850	261652015107

ACTREG

spring return		
DN	actuator	code
50	ASR130	261444016103
65	ASR130	261445016103
80	ASR200	261446016104
100	ASR300	261447016105
125	ASR500	261448016106
150	ASR500	261449016106
200	ASR850	261450016107
250	ASR1200	261451016108
300	ASR2100	261452016110

Alphair

double acting		
DN	actuator	code
50	RE76	261444017008R
65	RE76	261445017008R
80	RE86	261446017009R
100	RE86	261447017009R
125	RE101	261448017010R
150	RE116	261449017011R
200	RE116	261450017011R

Alphair

spring return		
DN	actuator	code
50	RE101	261444017110R
65	RE101	261445017110R
80	RES116	261446017111R
100	RES116	261447017111R
125	RES146	261448017113R
150	RES146	261449017113R
200	RES161	261450017114R

1155 - Wafer - Pneumatic actuated ductile iron butterfly valve

CF8M + Teflon® disc - PS: 16 bar.

10 €/pc

double acting		
DN	actuator	code
50	ADA40	260424015101
65	ADA80	260425015102
80	ADA80	260426015102
100	ADA130	260427015103
125	ADA200	260428015104
150	ADA300	260429015105
200	ADA300	260430015105

spring return		
DN	actuator	code
50	ASR130	260424016103
65	ASR130	260425016103
80	ASR200	260426016104
100	ASR300	260427016105
125	ASR500	260428016106
150	ASR500	260429016106
200	ASR850	260430016107

double acting		
DN	actuator	code
50	RE64	260424017007R
65	RE76	260425017008R
80	RE76	260426017008R
100	RE86	260427017009R
125	RE86	260428017009R
150	RE101	260429017010R
200	RE116	260430017011R

spring return		
DN	actuator	code
50	RES86	260424017109R
65	RES101	260425017110R
80	RES101	260426017110R
100	RES116	260427017111R
125	RES116	260428017111R
150	RES126	260429017112R
200	RES161	260430017114R

Carbon steel & stainless steel

■ **Seat EPDM** - TS: -20°C/+110°C

NEW

1184 - Wafer - Pneumatic actuated stainless steel butterfly valve

CF8M body & disc - Wafer type PN 10/16 & ANSI 150 - PS: 16 bar.

10 €/pc

double acting		
DN	actuator	code
50	ADA20	261701015100
65	ADA40	261702015101
80	ADA40	261703015101
100	ADA80	261704015102
125	ADA80	261705015102
150	ADA130	261706015103
200	ADA200	261707015104
250	ADA300	261708015105
300	ASR500	261709015106

spring return		
DN	actuator	code
50	ASR40	261701016101
65	ASR80	261702016102
80	ASR130	261703016103
100	ASR130	261704016103
125	ASR200	261705016104
150	ASR300	261706016105
200	ASR500	261707016106
250	ASR500	261708016106
300	ASR850	261709016107

double acting		
DN	actuator	code
50	RE51	261701017006R
65	RE64	261702017007R
80	RE64	261703017007R
100	RE76	261704017008R
125	RE76	261705017008R
150	RE86	261706017009R
200	RE101	261707017010R
250	RE116	261708017011R
300	RE126	261709017012R

spring return		
DN	actuator	code
50	RES64	261701017107R
65	RES76	261702017108R
80	RES76	261703017108R
100	RES86	261704017109R
125	RES101	261705017110R
150	RES116	261706017111R
200	RES126	261707017112R
250	RES146	261708017113R
300	RES181	261709017115R

Seat metal - metal

PNEUMATIC

SMOKE

1111 - Wafer pneumatic actuated carbon steel butterfly valve metal-metal

A216WCB body - Disc CF8M up to DN100, disc GGG50 epoxy coated above - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -20°C/+350°C - ⚠ Incomplete tightness: loss factor 2% of Kvs.

10 €/pc

double acting		
DN	actuator	code
32-40	ADA20	263003015100
50	ADA20	263004015100
65	ADA40	263005015101
80	ADA40	263006015101
100	ADA80	263007015102
125	ADA80	263008015102
150	ADA130	263009015103
200	ADA200	263010015104

spring return		
DN	actuator	code
32-40	ASR40	263003016101
50	ASR40	263004016101
65	ASR80	263005016102
80	ASR80	263006016102
100	ASR130	263007016103
125	ASR200	263008016104
150	ASR300	263009016105
200	ASR500	263010016106

double acting		
DN	actuator	code
40	RE51	263003017006R
50	RE51	263004017006R
65	RE64	263005017007R
80	RE64	263006017007R
100	RE76	263007017008R
125	RE76	263008017008R
150	RE86	263009017009R
200	RE101	263010017010R
250	RE116	263011017011R
300	RE126	263012017012R

spring return		
DN	actuator	code
40	RES64	263003017107R
50	RES64	263004017107R
65	RES76	263005017108R
80	RES76	263006017108R
100	RES86	263007017109R
125	RES101	263008017110R
150	RES116	263009017111R
200	RES126	263010017112R
250	RES146	263011017113R
300	RES181	263012017115R

PNEUMATIC

NEW

SMOKE

1112 - Wafer - Pneumatic actuated stainless steel butterfly valve metal-metal

CF8M body & disc - Wafer type PN 10/16 & ANSI 150 - PS: 16 bar - TS: -30°C/+350°C - ⚠ Incomplete tightness: loss factor 2% of Kvs.

10 €/pc

double acting		
DN	actuator	code
50	ADA20	263034015100
65	ADA40	263035015101
80	ADA40	263036015101
100	ADA80	263037015102
125	ADA80	263038015102
150	ADA130	263039015103
200	ADA200	263040015104
250	ADA300	263041015105

spring return		
DN	actuator	code
50	ASR40	263034016101
65	ASR80	263035016102
80	ASR80	263036016102
100	ASR130	263037016103
125	ASR200	263038016104
150	ASR300	263039016105
200	ASR500	263040016106
250	ASR500	263041016106

double acting		
DN	actuator	code
50	RE51	263034017006R
65	RE64	263035017007R
80	RE64	263036017007R
100	RE76	263037017008R
125	RE76	263038017008R
150	RE86	263039017009R
200	RE101	263040017010R
250	RE116	263041017011R

spring return		
DN	actuator	code
50	RES64	263034017107R
65	RES76	263035017108R
80	RES76	263036017108R
100	RES86	263037017109R
125	RES101	263038017110R
150	RES116	263039017111R
200	RES126	263040017112R
250	RES146	263041017113R

Seat EPDM - TS: -10°C/+110°C

1150 LT10/LT6 - Electric actuated ductile iron butterfly valve

Disc CF8M up to DN100, disc GGG50 rislan coated above - Wafer type PN10/16 & ANSI 150 - PS: 10 bar.

⚠ **ΔP max.: 10 bar up to DN300, 6 bar above.**

standard on/off execution		
DN	actuator	code
32-40	TCR05N	260303024310L10
50	TCR05N	260304024310L10
65	TCR05N	260305024310L10
80	TCR05N	260306024310L10
100	TCR05N	260307024310L10
125	TCR11N	260308024610L10
150	TCR11N	260309024610L10
200	TCR20N	260310024700L10
250	TCR40N	260311024720L10

capacitor return execution - NC		
DN	actuator	code
32-40	TCR05NKT	260303024320L10
50	TCR05NKT	260304024320L10
65	TCR05NKT	260305024320L10
80	TCR05NKT	260306024320L10
100	TCR05NKT	260307024320L10
125	TCR11NKT	260308024620L10

standard on/off execution		
DN	actuator	code
32-40	AQ5	260303028440L10
50	AQ5	260304028440L10
65	AQ5	260305028440L10
80	AQ5	260306028440L10
100	AQ5	260307028440L10
125	AQ10	260308028450L10
150	AQ15	260309028460L10
200	AQ25	260310028470L10
250	AQ30	260311028480L10
300	AQ50	260312028490L10

not on stock, on request.

standard on/off execution		
DN	actuator	code
32-40	SA05	260303023010L10
50	SA05	260304023010L10
65	SA05	260305023010L10
80	SA05	260306023010L10
100	SA05	260307023010L10
125	NA09	260308023120L10
150	NA15	260309023130L10
200	NA15	260310023130L10
250	NA28	260311023150L10
300	NA38	260312023160L10
350	NA60	260313023180L10
400	NA100	260314023203L06
450	NA100	260315023203L06
500	NA150	260316023213L06
600	NA200	260317023223L06

NEW NEW NEW NEW

⚠ **230V actuator up to DN300, 3~400V above.**

not on stock, on request.

control execution 4-20 mA		
DN	actuator	code
32-40	TCR05T	260303024350L10
50	TCR05T	260304024350L10
65	TCR05T	260305024350L10
80	TCR05T	260306024350L10
100	TCR05T	260307024350L10
125	TCR11T	260308024650L10

control execution 4-20 mA		
DN	actuator	code
32-40	SA05 PCU	260303023050L10
50	SA05 PCU	260304023050L10
65	SA05 PCU	260305023050L10
80	SA05 PCU	260306023050L10
100	SA05 PCU	260307023050L10
125	NA09 PCU	260308023550L10
150	NA15 PCU	260309023560L10
200	NA15 PCU	260310023560L10

1160 - Electric actuated ductile iron butterfly valve

Disc CF8M up to DN100, disc GGG50 rislan coated above - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above.

DN	actuator	code
40	TCR05N	261303024310
50	TCR05N	261304024310
65	TCR05N	261305024310
80	TCR05N	261306024310
100	TCR05N	261307024310
125	TCR11N	261308024610
150	TCR20N	261309024700
200	TCR40N	261310024720
250	TCR40N	261311024720

⚠ PN16 execution on request above DN150

DN	actuator	code
40	SA05	261303023010
50	SA05	261304023010
65	SA05	261305023010
80	SA05	261306023010
100	SA05	261307023010
125	NA09	261308023120
150	NA15	261309023130
200	NA15	261310023130
250	NA28	261311023150
300	NA38	261312023160

ELECTRIC

1153 LT10/LT6 - Electric actuated ductile iron butterfly valve

Disc CF8M - Wafer type PN10/16 & ANSI 150 - PS: 10 bar. ⚠ **ΔP max.: 10 bar up to DN300, 6 bar above.**

standard on/off execution		
DN	actuator	code
32-40	TCR05N	260363024310L10
50	TCR05N	260364024310L10
65	TCR05N	260365024310L10
80	TCR05N	260366024310L10
100	TCR05N	260367024310L10
125	TCR11N	260368024610L10
150	TCR20N	260369024700L10
200	TCR20N	260370024700L10
250	TCR40N	260371024720L10
300	TCR40N	260372024720L10

on request

standard on/off execution		
DN	actuator	code
32-40	SA05	260363023010L10
50	SA05	260364023010L10
65	SA05	260365023010L10
80	SA05	260366023010L10
100	SA05	260367023010L10
125	NA09	260368023120L10
150	NA15	260369023130L10
200	NA15	260370023130L10
250	NA28	260371023150L10
300	NA38	260372023160L10
350	NA60	260373023180L10
NEW 400	NA100	260374023203L06
NEW 450	NA100	260375023203L06
NEW 500	NA150	260376023213L06
NEW 600	NA200	260377023223L06

not on stock, on request.

control execution 4-20 mA		
DN	actuator	code
32-40	SA05 PCU	260363023050L10
50	SA05 PCU	260364023050L10
65	SA05 PCU	260365023050L10
80	SA05 PCU	260366023050L10
100	SA05 PCU	260367023050L10
125	NA09 PCU	260368023550L10
150	NA15 PCU	260369023560L10
200	NA15 PCU	260370023560L10
250	NA28 PCU	260371023580L10

on request

ATEX execution		
DN	actuator	code
32-40	SA05 X	260363023310L10
50	SA05 X	260364023310L10
65	SA05 X	260365023310L10
80	SA05 X	260366023310L10
100	SA05 X	260367023310L10
125	NA09-X	260368023330L10
150	NA15-X	260369023340L10
200	NA15-X	260370023340L10
250	NA28-X	260371023360L10
300	NA38-X	260372023370L10

ELECTRIC

1163 - Electric actuated ductile iron butterfly valve

Disc CF8M - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above.

DN	actuator	code
40	TCR05N	261393024310
50	TCR05N	261394024310
65	TCR05N	261395024310
80	TCR05N	261396024310
100	TCR05N	261397024310
125	TCR11N	261398024610
150	TCR20N	261399024700
200	TCR40N	261400024720
250	TCR40N	261401024720

⚠ PN16 execution on request above DN150

on request

DN	actuator	code
40	SA05	261393023010
50	SA05	261394023010
65	SA05	261395023010
80	SA05	261396023010
100	SA05	261397023010
125	NA09	261398023120
150	NA15	261399023130
200	NA15	261400023130
250	NA28	261401023150
300	NA38	261402023160

Seat NBR - TS: -10°C/+80°C

ELECTRIC

1152 - Electric actuated ductile iron butterfly valve

Disc CF8M up to DN100, disc GGG50 epoxy coated above - Wafer type PN10/16 & ANSI 150 - PS: 16 bar up to DN300, 10 bar above.

DN	actuator	code
32-40	TCR05N	260333024310
50	TCR05N	260334024310
65	TCR05N	260335024310
80	TCR05N	260336024310
100	TCR05N	260337024310
125	TCR11N	260338024610
150	TCR20N	260339024700
200	TCR40N	260340024720
250	TCR40N	260341024720

on request

DN	actuator	code
32-40	SA05	260333023010
50	SA05	260334023010
65	SA05	260335023010
80	SA05	260336023010
100	SA05	260337023010
125	NA09	260338023120
150	NA15	260339023130
200	NA15	260340023130
250	NA28	260341023150
300	NA38	260342023160
350	NA60	260343023180
400	NA100	260344023200

1151 - Electric actuated ductile iron butterfly valve

Disc CF8M - Wafer type PN10/16 & ANSI 150 - PS: 16 bar.

DN	actuator	code
32-40	TCR05N	260440024310
50	TCR05N	260441024310
65	TCR05N	260442024310
80	TCR05N	260443024310
100	TCR05N	260444024310
125	TCR11N	260445024610
150	TCR20N	260446024700
200	TCR40N	260447024720
250	TCR40N	260448024720

DN	actuator	code
32-40	SA05	260440023010
50	SA05	260441023010
65	SA05	260442023010
80	SA05	260443023010
100	SA05	260444023010
125	NA09	260445023120
150	NA15	260446023130
200	NA15	260447023130
250	NA28	260448023150
300	NA38	260449023160

ELECTRIC

1158 - Electric ductile iron butterfly valve

Aluminium bronze disc - Wafer type PN10/16 & ANSI 150 - PS: 16 bar.

DN	actuator	code
32-40	TCR05N	260513024310
50	TCR05N	260514024310
65	TCR05N	260515024310
80	TCR05N	260516024310
100	TCR05N	260517024310
125	TCR11N	260518024610
150	TCR20N	260519024700
200	TCR40N	260520024720
250	TCR40N	260521024720

DN	actuator	code
32-40	SA05	260513023010
50	SA05	260514023010
65	SA05	260515023010
80	SA05	260516023010
100	SA05	260517023010
125	NA09	260518023120
150	NA15	260519023130
200	NA15	260520023130

ELECTRIC

Gas service - Low temperature NBR - TS: -10°C/+60°C

1141 - Electric actuated ductile iron butterfly valve

Disc CF8M up to DN100, disc GGG50 epoxy coated above - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - Class MOP5 - Certificate NF ROB GAZ 064-R3 up to 5 bar.

DN	actuator	code
32-40	SA05	260593023010
50	SA05	260594023010
65	SA05	260595023010
80	SA05	260596023010
100	SA05	260597023010
125	NA09	260598023120
150	NA15	260599023130
200	NA15	260600023130

Ex 10 €/pc

DN	actuator	ATEX code
32-40	SA05-X	260593023310
50	SA05-X	260594023310
65	SA05-X	260595023310
80	SA05-X	260596023310
100	SA05-X	260597023310
125	NA09-X	260598023330
150	NA15-X	260599023340
200	NA15-X	260600023340

ELECTRIC

Seat FKM - TS: -5°C/+150°C

1154 - Electric actuated ductile iron butterfly valve

Disc CF8M - Wafer type PN10/16 & ANSI 150 - PS: 16 bar up to DN300, 10 bar above.

DN	actuator	code
32-40	TCR05N	260393024310
50	TCR05N	260394024310
65	TCR05N	260395024310
80	TCR05N	260396024310
100	TCR05N	260397024310
125	TCR11N	260398024610
150	TCR20N	260399024700
200	TCR40N	260400024720
250	TCR40N	260401024720

DN	actuator	code
32-40	SA05	260393023010
50	SA05	260394023010
65	SA05	260395023010
80	SA05	260396023010
100	SA05	260397023010
125	NA09	260398023120
150	NA15	260399023130
200	NA15	260400023130
250	NA28	260401023150
300	NA38	260402023160
350	NA60	260403023180
400	NA100	260404023200

ELECTRIC

Actuated concentric butterfly valves

Seat metal-metal - TS: -20°C/+350°C

ELECTRIC

NA09

1111 - Electric actuated carbon steel butterfly valve metal-metal

A216WCB body - Disc CF8M up to DN100, disc GGG50 epoxy coated above - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - ⚠ Incomplete tightness: loss factor 2% of Kvs.

DN	actuator	code
32-40	SA05	263003023010
50	SA05	263004023010
65	SA05	263005023010
80	SA05	263006023010
100	SA05	263007023010
125	NA09	263008023120
150	NA15	263009023130

Double offset butterfly valves

Carbon steel & stainless steel

Face to face according to EN 558 series 20 / ISO pad according to ISO 5211

DN	40	65	80	100	125	150	200	250	300	350	400
face to face "E"	43	46	47	53	57	56	62	68	78	78	102
ISO pad	F07/F05	F07/F05	F10/F07	F10/F07	F10/F07	F10/F07	F12/F10	F12/F10	F14/F12	F14/F12	F16/F14
square drive	11	11	14	14	17	17	19	22	27	27	36

STEAM

2014/68/EU Directive N°0035 - Risk category III / module H - SIL 2 (& SIL 3 capable) - PTFE seats (15% graphite filled) - Bidirectional tightness with preferential flow direction - ISO pad - TS: -29°C/+210°C.
Supplied with gearbox above DN150 or 6" - ⚠ Steam up to 10 bar max.

SIL | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

DN200-400

Between flanges PN25

1110 - Carbon steel - Wafer - Body A216WCB / Disc CF8M

DN	50	65	80	100	125	150	200	250	300
PS (bar)	25	25	25	25	25	25	25	25	25
code	1110050	1110065	1110080	1110100	1110125	1110150	1110200	1110250	1110300

STEAM

2014/68/EU Directive N°0035 - Risk category III / module H - Fire safe ISO 10497 - SIL 2 (& SIL 3 capable) - PTFE seats (15% graphite filled) - ISO pad - TS: -29°C/+210°C.
Supplied with gearbox above DN150 or 6" - ⚠ Steam up to 10 bar max.

SIL | FIRE SAFE | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

DN200-400

Between flanges PN16/25 - Fire safe

1113 - Carbon steel - Wafer - Body A216WCB / Disc CF8M

DN	50	65	80	100	125	150	200	250	300	350	400
PS (bar)	25	25	25	16/25*	16/25*	16/25*	16/25*	16/25*	16/25*	25	25
PN16 code	-	-	-	1113101	1113126	1113151	1113201	1113251	1113301	-	-
PN25 code	1113050	1113065	1113080	1113100	1113125	1113150	1113200	1113250	1113300	1113350	1113400

* PS: 16 bar for PN16 valves, 25 bar for PN25 valves.

DN50-150

1117 - Carbon steel - Lug PN16 - Body A216WCB / Disc CF8M

DN	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16
code	1117050	1117065	1117080	1117100	1117125	1117150	1117200	1117250	1117300

DN50-150

1114 - Stainless steel - Wafer - Body CF8M / Disc CF8M

DN	50	65	80	100	125	150	200	250	300	350	400
PS (bar)	25	25	25	25	25	25	25	25	25	25	25
PN25 code	1114050	1114065	1114080	1114100	1114125	1114150	1114200	1114250	1114300	1114350	1114400

Double offset butterfly valves

Between flanges ANSI 150 - Fire safe

1115 - Carbon steel - Wafer - Body A216WCB / Disc CF8M

NPS	2"	2"1/2	3"	4"	5"	6"	8"	10"	12"	14"
PS (bar)	20	20	20	20	20	20	20	20	20	20
code	1115050	1115065	1115080	1115100	1115125	1115150	1115200	1115250	1115300	1115350

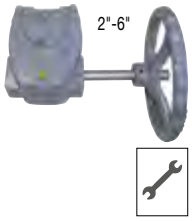
1117 - Carbon steel - Lug - Body A216WCB / Disc CF8M

NPS	2"	2"1/2	3"	4"	5"	6"	8"	10"	12"
PS (bar)	20	20	20	20	20	20	20	20	20
code	1117051	1117066	1117081	1117101	1117126	1117151	1117201	1117251	1117301

1116 - Stainless steel - Wafer - Body CF8M / Disc CF8M

NPS	2"	2"1/2	3"	4"	5"	6"	8"
PS (bar)	20	20	20	20	20	20	20
code	1116050	1116065	1116080	1116100	1116125	1116150	1116200

Options & spare parts



1193 - Spare gearbox with position indicator (only for double offset butterfly valves)

DN	50	65	80	100	125	150	200	250
NPS	2"	2"1/2	3"	4"	5"	6"	8"	10"
code	1193001	1193001	1193002	1193003	1193004	1193004	1193005	1193006
mounting code	WORKGB1	WORKGB1	WORKGB1	WORKGB1	WORKGB1	WORKGB2	WORKGB2	WORKGB2

Spare ductile iron lever (only for double offset butterfly valves)

DN	50	65	80	100	125	150
NPS	2"	2"1/2	3"	4"	5"	6"
code	9831320	9831320	9831321	9831321	9831322	9831322

Manual valves with limit switch box

For manual valves with limit switch box, see page 127.

Double offset butterfly valves

Stainless steel

2014/68/EU Directive - Risk category III / Module H-Fugitive Emissions - ISO 15848-1 - TA LUFT - SIL 2 - NACE MR0175 - CF8M body - CF8M polished disc-PTFE seat-ISO pad - TS: -50°C/+220°C - **Supplied with gearbox above DN125.**

CE 1935 | NACE MR0175 | SIL | FUGITIVE EMISSIONS | CE 0094 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

1119 - Wafer - Double offset

Between flanges PN10/40 up to DN100, PN10/16 above & ANSI150.

Ø	50	65	80	100	125	150	200	250	300
PS	30	30	30	30	20	20	20	20	20
code	1119050	1119065	1119080	1119100	1119125	1119150	1119200	1119250	1119300

1119L - Lug - Double offset

Between flanges PN10/16 – PS 16 bar.

Ø	50	65	80	100	125	150	200	250	300
PS	16	16	16	16	16	16	16	16	16
PN10 code	-	-	-	-	-	-	1119L200	1119L250	1119L300
PN16 code	1119L050	1119L065	1119L080	1119L100	1119L125	1119L150	1119L201	1119L251	1119L301

Carbon steel & stainless steel

STEAM

All our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
All our electric actuated butterfly valves are equipped with a 230V AC actuator as standard - Other voltages on request, please consult.
⚠ **ΔP max.: 20 bar** - Actuators & automation complements, see page 170.

PNEUMATIC

Between flanges PN25

1110 - Wafer - Pneumatic actuated carbon steel double offset butterfly valve

A216WCB body - CF8M disc - PS: 25 bar - TS: -25°C/+210°C.

Ex 10 €/pc

double acting		
DN	actuator	code
50	ADA40	260890015101
65	ADA40	260891015101
80	ADA80	260892015102
100	ADA80	260893015102
125	ADA200	260894015104
150	ADA300	260895015105
200	ADA300	260896015105
250	ADA500	260897015106
300	ADA500	260898015106

spring return		
DN	actuator	code
50	ASR80	260890016102
65	ASR80	260891016102
80	ASR130	260892016103
100	ASR200	260893016104
125	ASR300	260894016105
150	ASR500	260895016106
200	ASR500	260896016106

double acting		
DN	actuator	code
50	RE76	260890017008R
65	RE76	260891017008R
80	RE76	260892017008R
100	RE86	260893017009R
125	RE101	260894017010R
150	RE116	260895017011R
200	RE126	260896017012R
250	RE126	260897017012R
300	RE146	260898017013R

spring return		
DN	actuator	code
50	RES86	260890017109R
65	RES86	260891017109R
80	RES101	260892017110R
100	RES116	260893017111R
125	RES126	260894017112R
150	RES146	260895017113R
200	RES161	260896017114R
250	RES181	260897017115R
300	RES201	260898017116R

Between flanges PN16/25 - Fire safe

1113 - Wafer - Pneumatic actuated carbon steel double offset butterfly valve

A216WCB body - CF8M disc - PS: 25 bar - TS: -25°C/+210°C.

Ex 10 €/pc

double acting		
DN	actuator	PN25 code
50	ADA40	260950015101
65	ADA40	260951015101
80	ADA80	260952015102
100	ADA80	260953015102
125	ADA200	260954015104
150	ADA300	260955015105
200	ADA300	260956015105
250	ADA500	260957015106
300	ADA500	260958015106

spring return		
DN	actuator	PN25 code
50	ASR80	260950016102
65	ASR80	260951016102
80	ASR130	260952016103
100	ASR200	260953016104
125	ASR300	260954016105
150	ASR500	260955016106
200	ASR500	260956016106

double acting		
DN	actuator	PN25 code
50	RE76	260950017008R
65	RE76	260951017008R
80	RE76	260952017008R
100*	RE86	260953017009R
125*	RE101	260954017010R
150*	RE116	260955017011R
200*	RE126	260956017012R
250*	RE126	260957017012R
300*	RE146	260958017013R

spring return		
DN	actuator	PN25 code
50	RES86	260950017109R
65	RES86	260951017109R
80	RES101	260952017110R
100*	RES116	260953017111R
125*	RES126	260954017112R
150*	RES146	260955017113R
200*	RES161	260956017114R
250*	RES181	260957017115R
300*	RES201	260958017116R

* also available	PN25	PN16
code	26095...	26195...

1117 - Lug PN16 - Pneumatic actuated carbon steel double offset butterfly valve

A216WCB body - CF8M disc - PS: 16 bar - TS: -25°C/+210°C.

10 €/pc

ACTREG

double acting		
DN	actuator	code
50	ADA40	260850015101
65	ADA40	260851015101
80	ADA80	260852015102
100	ADA80	260853015102
125	ADA200	260854015104
150	ADA300	260855015105
200	ADA300	260856015105
250	ADA500	260857015106
300	ADA500	260858015106

ACTREG

spring return		
DN	actuator	code
50	ASR80	260850016102
65	ASR80	260851016102
80	ASR130	260852016103
100	ASR200	260853016104
125	ASR300	260854016105
150	ASR500	260855016106
200	ASR500	260856016106

Alphair

double acting		
DN	actuator	code
50	RE76	260850017008R
65	RE76	260851017008R
80	RE76	260852017008R
100	RE86	260853017009R
125	RE101	260854017010R
150	RE116	260855017011R
200	RE126	260856017012R
250	RE126	260857017012R
300	RE146	260858017013R

Alphair

spring return		
DN	actuator	code
50	RES86	260850017109R
65	RES86	260851017109R
80	RES101	260852017110R
100	RES116	260853017111R
125	RES126	260854017112R
150	RES146	260855017113R
200	RES161	260856017114R
250	RES181	260857017115R
300	RES201	260858017116R

1114 - Wafer - Pneumatic actuated stainless steel double offset butterfly valve

CF8M body & disc - PS: 25 bar - TS: -25°C/+210°C.

10 €/pc

ACTREG

double acting		
DN	actuator	code
50	ADA40	260970015101
65	ADA40	260971015101
80	ADA80	260972015102
100	ADA80	260973015102
125	ADA200	260974015104
150	ADA300	260975015105
200	ADA300	260976015105
250	ADA500	260977015106
300	ADA500	260978015106

ACTREG

spring return		
DN	actuator	code
50	ASR80	260970016102
65	ASR80	260971016102
80	ASR130	260972016103
100	ASR200	260973016104
125	ASR300	260974016105
150	ASR500	260975016106
200	ASR500	260976016106

Alphair

double acting		
DN	actuator	code
50	RE76	260970017008R
65	RE76	260971017008R
80	RE76	260972017008R
100	RE86	260973017009R
125	RE101	260974017010R
150	RE116	260975017011R
200	RE126	260976017012R
250	RE126	260977017012R
300	RE146	260978017013R

Alphair

spring return		
DN	actuator	code
50	RES86	260970017109R
65	RES86	260971017109R
80	RES101	260972017110R
100	RES116	260973017111R
125	RES126	260974017112R
150	RES146	260975017113R
200	RES161	260976017114R
250	RES181	260977017115R
300	RES201	260978017116R

Between flanges ANSI 150 - Fire safe

PNEUMATIC

1115 - Wafer - Pneumatic actuated carbon steel double offset butterfly valve

A216WCB body - CF8M disc - PS: 20 bar - TS: -25°C/+210°C.

10 €/pc

double acting		
NPS	actuator	code
2"	ADA40	260910015101
2"1/2	ADA40	260911015101
3"	ADA80	260912015102
4"	ADA80	260913015102
5"	ADA200	260914015104
6"	ADA300	260915015105
8"	ADA300	260916015105
10"	ADA500	260917015106
12"	ADA500	260918015106

spring return		
NPS	actuator	code
2"	ASR80	260910016102
2"1/2	ASR80	260911016102
3"	ASR130	260912016103
4"	ASR200	260913016104
5"	ASR300	260914016105
6"	ASR500	260915016106
8"	ASR500	260916016106

double acting		
NPS	actuator	code
2"	RE76	260910017008R
2"1/2	RE76	260911017008R
3"	RE76	260912017008R
4"	RE86	260913017009R
5"	RE101	260914017010R
6"	RE116	260915017011R
8"	RE126	260916017012R
10"	RE126	260917017012R
12"	RE146	260918017013R

double acting		
NPS	actuator	code
2"	RES86	260910017109R
2"1/2	RES86	260911017109R
3"	RES101	260912017110R
4"	RES116	260913017111R
5"	RES126	260914017112R
6"	RES146	260915017113R
8"	RES161	260916017114R
10"	RES181	260917017115R
12"	RES201	260918017116R

PNEUMATIC

1117 - Lug - Pneumatic actuated carbon steel double offset butterfly valve

A216WCB body - CF8M disc - PS: 20 bar - TS: -25°C/+210°C.

10 €/pc

double acting		
DN	actuator	code
50	ADA40	260870015101
65	ADA40	260871015101
80	ADA80	260872015102
100	ADA80	260873015102
125	ADA200	260874015104
150	ADA300	260875015105
200	ADA300	260876015105
250	ADA500	260877015106
300	ADA500	260878015106

spring return		
DN	actuator	code
50	ASR80	260870016102
65	ASR80	260871016102
80	ASR130	260872016103
100	ASR200	260873016104
125	ASR300	260874016105
150	ASR500	260875016106
200	ASR500	260876016106

double acting		
DN	actuator	code
50	RE76	260870017008R
65	RE76	260871017008R
80	RE76	260872017008R
100	RE86	260873017009R
125	RE101	260874017010R
150	RE116	260875017011R
200	RE126	260876017012R
250	RE126	260877017012R
300	RE146	260878017013R

spring return		
DN	actuator	code
50	RES86	260870017109R
65	RES86	260871017109R
80	RES101	260872017110R
100	RES116	260873017111R
125	RES126	260874017112R
150	RES146	260875017113R
200	RES161	260876017114R
250	RES181	260877017115R
300	RES201	260878017116R

1116 - Wafer - Pneumatic actuated stainless steel double offset butterfly valve

CF8M body & disc - PS: 20 bar - TS: -25°C/+210°C.

10 €/pc

ACTREG

double acting		
DN	actuator	code
2"	ADA40	260930015101
2"1/2	ADA40	260931015101
3"	ADA80	260932015102
4"	ADA80	260933015102
5"	ADA200	260934015104
6"	ADA300	260935015105
8"	ADA300	260936015105

ACTREG

spring return		
DN	actuator	code
2"	ASR80	260930016102
2"1/2	ASR80	260931016102
3"	ASR130	260932016103
4"	ASR200	260933016104
5"	ASR300	260934016105
6"	ASR500	260935016106
8"	ASR500	260936016106

Alphair

double acting		
DN	actuator	code
2"	RE76	260930017008R
2"1/2	RE76	260931017008R
3"	RE76	260932017008R
4"	RE86	260933017009R
5"	RE101	260934017010R
6"	RE116	260935017011R
8"	RE126	260936017012R

Alphair

spring return		
DN	actuator	code
2"	RES86	260930017109R
2"1/2	RES86	260931017109R
3"	RES101	260932017110R
4"	RES116	260933017111R
5"	RES126	260934017112R
6"	RES146	260935017113R
8"	RES161	260936017114R

PNEUMATIC

Actuated double offset butterfly valves

Between flanges PN10/16/25 & ANSI 150

NEW

1119 - Wafer - Pneumatic actuated stainless steel butterfly valve metal-metal

CF8M body - CF8M polished disc - PS: 30bar up to DN100, 20 bar above - TS:-50°C/+220°C.

10 €/pc

ACTREG

double acting		
DN	actuator	code
50	ADA40	264020015101
65	ADA80	264021015102
80	ADA80	264022015102
100	ADA130	264023015103
125	ADA130	264024015103
150	ADA300	264025015105
200	ADA500	264026015105
250	ADA850	264027015107
300	ADA850	264028015107

ACTREG

spring return		
DN	actuator	code
50	ASR130	264020016103
65	ASR200	264021016104
80	ASR200	264022016104
100	ASR200	264023016104
125	ASR300	264024016105
150	ASR850	264025016107
200	ASR850	264026016107
250	ASR1200	264027016108
200	ASR1750	264028016109

Alphair

double acting		
DN	actuator	code
50	RE76	264020017008R
65	RE76	264021017008R
80	RE76	264022017008R
100	RE86	264023017009R
125	RE86	264024017009R
150	RE116	264025017011R
200	RE146	264026017013R
250	RE161	264027017014R
300	RE181	264028017015R

Alphair

spring return		
DN	actuator	code
50	RES101	264020017110R
65	RES101	264021017110R
80	RES116	264022017111R
100	RES126	264023017112R
125	RES126	264024017112R
150	RES146	264025017113R
200	RES181	264026017115R
250	RES201	264027017116R
300	RES241	264028017118R

PNEUMATIC

ELECTRIC

Between flanges PN25

1110 - Wafer - Electric actuated carbon steel double offset butterfly valve

A216WCB body - CF8M disc - PS: 25 bar - TS: -25°C/+210°C.

NA09

DN	actuator	PN25 code
50	NA06	260890023110
65	NA06	260891023110
80	NA06	260892023110
100*	NA09	260893023120
125*	NA15	260894023130
150	NA28	260895023150
200	NA28	260896023150
250	NA38	260897023160
300	NA38	260898023160

ELECTRIC

Between flanges PN16/25 - Fire safe

1113 - Wafer - Electric actuated carbon steel double offset butterfly valve

A216WCB body - CF8M disc - PS: 25 bar - TS: -25°C/+210°C.

NA09

DN	actuator	PN25 code
50	NA06	260950023110
65	NA06	260951023110
80	NA06	260952023110
100*	NA09	260953023120
125*	NA15	260954023130
150*	NA28	260955023150
200*	NA28	260956023150
250*	NA38	260957023160
300*	NA38	260958023160

* also available	PN25	PN16
code	26095...	26195...

NA09-X

Ex Zones 1 & 2 10 €/pc

DN	actuator	PN25 ATEX code
50	NA06-X	260950023320
65	NA06-X	260951023320
80	NA06-X	260952023320
100*	NA09-X	260953023330
125*	NA15-X	260954023340
150*	NA28-X	260955023360
200*	NA28-X	260956023360
250*	NA38-X	260957023370
300*	NA38-X	260958023370

ELECTRIC

1117 - Lug PN16 - Electric actuated carbon steel double offset butterfly valve

A216WCB body - CF8M disc - PS: 16 bar - TS: -25°C/+210°C.

NA09

DN	actuator	code
50	NA06	260850023110
65	NA06	260851023110
80	NA06	260852023110
100*	NA09	260853023120
125*	NA15	260854023130
150*	NA28	260855023150
200*	NA28	260856023150
250*	NA38	260857023160
300*	NA38	260858023160

NA09-X

Ex Zones 1 & 2 10 €/pc

DN	actuator	ATEX code
50	NA06-X	260850023320
65	NA06-X	260851023320
80	NA06-X	260852023320
100*	NA09-X	260853023330
125*	NA15-X	260854023340
150*	NA28-X	260855023360
200*	NA28-X	260856023360
250*	NA38-X	260857023370
300*	NA38-X	260858023370

ELECTRIC

1114 - Wafer - Electric actuated stainless steel double offset butterfly valve

CF8M body & disc - PS: 25 bar - TS: -25°C/+210°C.

NA09

DN	actuator	code
50	NA06	260970023110
65	NA06	260971023110
80	NA06	260972023110
100	NA09	260973023120
125	NA15	260974023130
150	NA28	260975023150
200	NA28	260976023150
250	NA38	260977023160
300	NA38	260978023160

NA09-X

Ex Zones 1 & 2 10 €/pc

DN	actuator	ATEX code
50	NA06-X	260970023320
65	NA06-X	260971023320
80	NA06-X	260972023320
100	NA09-X	260973023330
125	NA15-X	260974023340
150	NA28-X	260975023360
200	NA28-X	260976023360
250	NA38-X	260977023370
300	NA38-X	260978023370

Between flanges ANSI 150 - Fire safe

1115 - Wafer - Electric actuated carbon steel double offset butterfly valve

A216WCB body - CF8M disc - PS: 20 bar - TS: -25°C/+210°C.

DN	actuator	code
2"	NA06	260910023110
2"1/2	NA06	260911023110
3"	NA06	260912023110
4"	NA09	260913023120
5"	NA15	260914023130
6"	NA28	260915023150
8"	NA28	260916023150
10"	NA38	260917023160
12"	NA38	260918023160

Ex Zones 1 & 2 10 €/pc

DN	actuator	ATEX code
2"	NA06-X	260910023320
2"1/2	NA06-X	260911023320
3"	NA06-X	260912023320
4"	NA09-X	260913023330
5"	NA15-X	260914023340
6"	NA28-X	260915023360
8"	NA28-X	260916023360
10"	NA38-X	260917023370
12"	NA38-X	260918023370

ELECTRIC

1117 - Lug - Electric actuated carbon steel double offset butterfly valve

A216WCB body - CF8M disc - PS: 20 bar - TS: -25°C/+210°C.

DN	actuator	code
2"	NA06	260870023110
2"1/2	NA06	260871023110
3"	NA06	260872023110
4"	NA09	260873023120
5"	NA15	260874023130
6"	NA28	260875023150
8"	NA28	260876023150
10"	NA38	260877023160
12"	NA38	260878023160

Ex Zones 1 & 2 10 €/pc

DN	actuator	ATEX code
2"	NA06-X	260870023320
2"1/2	NA06-X	260871023320
3"	NA06-X	260872023320
4"	NA09-X	260873023330
5"	NA15-X	260874023340
6"	NA28-X	260875023360
8"	NA28-X	260876023360
10"	NA38-X	260877023370
12"	NA38-X	260878023370

ELECTRIC

1116 - Wafer - Electric actuated stainless steel double offset butterfly valve

CF8M body & disc - PS: 20 bar - TS: -25°C/+210°C.

DN	actuator	code
2"	NA06	260930023110
2"1/2	NA06	260931023110
3"	NA06	260932023110
4"	NA09	260933023120
5"	NA15	260934023130
6"	NA28	260935023150
8"	NA28	260936023150
10"	NA38	260937023160
12"	NA38	260938023160

Ex Zones 1 & 2 10 €/pc

DN	actuator	ATEX code
2"	NA06-X	260930023320
2"1/2	NA06-X	260931023320
3"	NA06-X	260932023320
4"	NA09-X	260933023330
5"	NA15-X	260934023340
6"	NA28-X	260935023360
8"	NA28-X	260936023360
10"	NA38-X	260937023370
12"	NA38-X	260938023370

ELECTRIC

Manual valves with limit switch box

Manual valves equiped with SF012 limit switch box IP67 - SPDT 250V-5A (see features page 179).

1113 - Body A216WCB / Disc CF8M + Seat PTFE

DN	code
65	2609510462012R
80	2609520462012
100	2609530462012
125	2609540462012
150	2609550462012

1114 - Body CF8M / Disc CF8M + Seat PTFE

DN	code
65	2609710462012
80	2609720462012
100	2609730462012
125	2609740462012
150	2609750462012

Triple offset butterfly valves

Carbon steel

2014/68/EU Directive N°0035 - Risk category III / module H - Fugitive emissions ISO 15848-1 class C - Fire safe ISO 10497 - SIL 2 (& SIL 3 capable) - A479XM-19 + graphite seats - ISO pad - PS: 40 bar - TS: -39°C/+349°C. ⚠ **Steam up to 30 bar max.**

SIL | FUGITIVE EMISSIONS | FIRE SAFE | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

Face to face according to EN 558 series 109 / ISO pad according to ISO 5211

DN	100	150	200	250	300
face to face "E"	54	61	75	85	94
ISO pad	F10/F07	F10/F07	F12/F10	F14/F12	F16/F14
square drive	17,9	21,9	29,9	37,7	44,7

Lug - Between flanges PN40

1118 - Body **A216WCB /** Disc **CF8M + Stellite® Gr. 6**

DN	100	150	200	250	300
PS (bar)	40	40	40	40	40
bare shaft code	1118100	1118150	1118200	1118250	1118300
NEW gearbox code	1118105	1118155	1118205	1118255	1118305

1191 - Spare gearbox

DN	100	150	200	250	300
code	1191003	1191004	1191005	1191006	1191007
code	WORKGB1	WORKGB2	WORKGB2	WORKGB2	WORKGB2

Actuated triple offset butterfly valves

Carbon steel

All our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
All our electric actuated butterfly valves are equipped with a 230V AC actuator as standard - Other voltages on request, please consult.
⚠ **ΔP max.: 25 bar** - Actuators & automation complements, see page 170.

PNEUMATIC

1118 - Pneumatic actuated carbon steel triple offset butterfly valve

A216WCB body - CF8M disc - PS: 40 bar.

double acting		
DN	actuator	code
100	RE116	260803017011R
150	RE146	260805017013R
200	RE161	260806017014R
250	RE181	260807017015R
300	RE241	260808017018R

Alphair

spring return		
DN	actuator	code
100	RES161	260803017114R
150	RES201	260805017116R
200	RES241	260806017118R
250	RES271	260807017117R
300	RES271	260808017117R

Alphair

ELECTRIC

1118 - Electric actuated carbon steel triple offset butterfly valve

A216WCB body - CF8M disc - PS: 40 bar.

DN	actuator	code
100	NA28	260803023150
150	NA60	260805023180
200	NA60	260806023180
250	NA83	260807023200
300	NA92	260808023210

Ex Zones 1 & 2 10 €/pc

DN	actuator	ATEX code
100	NA28-X	260803023360
150	NA60-X	260805023390
200	NA60-X	260806023390
250	NA100-X	260807023410

Other valves for industry, HVAC & waterworks

- Knife gate valves 130
- Gate valves 141
- Air release valves 145
- Pressure reducing valves 145
- Float valves 146
- Service connection valves 147
- Needle valves 147
- Globe valves 148
- Piston valves 150
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- Check valves 157
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What's new!

Piston & diaphragm pressure reducing valves

p. 145

Ductile iron flanged float valves

p. 146

Screens with 250 µm mesh for Y-strainers

p. 165

Air release valves

p. 145

Unidirectional tightness

Cast iron

Excluded from 2014/68/EU Directive (art. 4, §3) - Unidirectional tightness: specific mounting position - Lug type - Between flanges PN10 - GG25 body - Stainless steel F304 gate - Rising stem, non rising handwheel - Rilsan painted.

3.1 see p. 22

170 - Handwheel operated - NBR seat
TS: -10°C/+90°C.
171 - Handwheel operated - EPDM seat
TS: -15°C/+130°C.
176 - Handwheel operated - Metal seat
TS: -10°C/+90°C - Incomplete tightness: loss factor 1%.

DN	50	65	80	100	125	150	200	250	300	350	400
PS (bar)	10	10	10	10	10	10	10	8	6	4	4
170 code	170050	170065	170080	170100	170125	170150	170200	170250	170300	170350	170400
171 code	171050	171065	171080	171100	171125	171150	171200	171250	171300	171350	171400
176 code	176050	176065	176080	176100	176125	176150	176200	176250	176300	-	-

DN	450	500	600	700
PS (bar)	3	3	3	2
170 code	170450	170500	170600	170700
171 code	171450	171500	171600	-

not on stock, on request.

170 - Handwheel operated with limit switch - NBR seat
TS: -10°C/+90°C - Limit switch for open position.

DN	100	125	150	200	250	300	350	400
PS (bar)	10	10	10	10	8	6	4	4
code	170101	170126	170151	170201	170251	170301	170351	170401

DN	450	500	600	700	800
PS (bar)	3	3	3	2	2
code	170451	170501	170601	170701	170801

170 - Quick opening - Lever operated - NBR seat
TS: -10°C/+90°C.

DN	80	100	125	150	200
PS (bar)	10	10	10	10	10
code	170083	170103	170127	170153	170207

170 ISO - ISO pad for electric actuator - NBR seat
171 ISO - ISO pad for electric actuator - EPDM seat
176 ISO - ISO pad for electric actuator - Metal seat
F10 ISO pad

DN	50	65	80	100	125	150	200	250	300	350	400
stem (Ø x pitch)	20 x 4	20 x 4	20 x 4	20 x 4	20 x 4	20 x 4	25 x 5	25 x 5	25 x 5	35 x 6	35 x 6
stem length (mm)	160	175	180	205	230	265	320	370	420	500	555
nbr. of turns	13	16	20	25	31	38	40	50	60	58	67
torque (Nm)	20	22	25	30	35	40	46	52	60	80	110
170 ISO code	440004ISO	440005ISO	440006ISO	440007ISO	440008ISO	440009ISO	440010ISO	440011ISO	440012ISO	440013ISO	440014ISO
171 ISO code	441004ISO	441005ISO	441006ISO	441007ISO	441008ISO	441009ISO	441010ISO	441011ISO	441012ISO	441013ISO	441014ISO
176 ISO code	446004ISO	446005ISO	446006ISO	446007ISO	446008ISO	446009ISO	446010ISO	446011ISO	446012ISO	-	-

Stainless steel

Excluded from 2014/68/EU Directive (art. 4, §3) - Unidirectional tightness: specific mounting position - Lug type - Between flanges PN10 - CF8M body - Stainless steel F316 gate - Rising stem, non rising handwheel - Rilsan painted.

3.1 see p. 22

172 - Handwheel operated - EPDM seat
TS: -20°C/+130°C.
173 - Handwheel operated - Metal seat
TS: -20°C/+130°C - Incomplete tightness: loss factor 1%.

DN	50	65	80	100	125	150	200	250	300	350	400
PS (bar)	10	10	10	10	10	10	10	8	6	4	4
172 code	172050	172065	172080	172100	172125	172150	172200	172250	172300	172350	172400
173 code	173050	173065	173080	173100	173125	173150	173200	173250	173300	173350	173400

not on stock, on request.

172 ISO - ISO pad for electric actuator - EPDM seat
173 ISO - ISO pad for electric actuator - Metal seat
F10 ISO pad

DN	50	65	80	100	125	150	200	250	300	350	400
stem (Ø x pitch)	20 x 4	20 x 4	20 x 4	20 x 4	20 x 4	20 x 4	25 x 5	25 x 5	25 x 5	35 x 6	35 x 6
stem length (mm)	160	175	180	205	230	265	320	370	420	500	555
nbr. of turns	13	16	20	25	31	38	40	50	60	58	67
torque (Nm)	20	22	25	30	35	40	46	52	60	80	110
172 ISO code	445004ISO	445005ISO	445006ISO	445007ISO	445008ISO	445009ISO	445010ISO	445011ISO	445012ISO	445013ISO	445014ISO
173 ISO code	444004ISO	444005ISO	444006ISO	444007ISO	444008ISO	444009ISO	444010ISO	444011ISO	444012ISO	444013ISO	444014ISO

Bidirectional tightness

Cast iron

Excluded from 2014/68/EU Directive (art. 4, §3) - Bidirectional tightness - Between flanges PN10 - GG25 body - Stainless steel F304 gate - Non rising stem & handwheel.

3.1 see p. 22

178 - Handwheel operated - NBR seat
TS: -10°C/+90°C.
177 - Handwheel operated - EPDM seat
TS: -15°C/+130°C.

DN	50	65	80	100	125	150	200	250	300	350	400	450	500
PS (bar)	10	10	10	10	10	10	10	8	6	4	4	3	3
178 code	178050	178065	178080	178100	178125	178150	178200	178250	178300	178350	178400	178450	178500
177 code	177050	177065	177080	177100	177125	177150	177200	177250	177300	177350	177400	177450	177500

not on stock, on request.

178 - Handwheel operated with limit switch - NBR seat
TS: -10°C/+90°C - Limit switch for open position.

DN	50	65	80	100	125	150	200	250	300	350	400
PS (bar)	10	10	10	10	10	10	10	8	6	4	4
178 code	178051	178066	178081	178101	178126	178151	178201	178251	178301	178351	178401

178 - ISO pad for electric actuator - NBR seat
177 - ISO pad for electric actuator - EPDM seat
F10 ISO pad - ⚠ **Rising stem**

DN	50	65	80	100	125	150	200	250	300	350	400
stem (Ø x pitch)	20 x 4	20 x 4	20 x 4	20 x 4	20 x 4	20 x 4	25 x 5	25 x 5	25 x 5	35 x 6	35 x 6
stem length (mm)	160	175	180	205	230	265	320	370	420	500	555
nbr. of turns	13	16	20	25	31	38	40	50	60	58	67
torque (Nm)	20	22	25	30	35	40	46	52	60	80	110
178 code	448004ISO	448005ISO	448006ISO	448007ISO	448008ISO	448009ISO	448010ISO	448011ISO	448012ISO	448013ISO	448014ISO
177 code	443004ISO	443005ISO	443006ISO	443007ISO	443008ISO	443009ISO	443010ISO	443011ISO	443012ISO	443013ISO	443014ISO

Through conduit - Bidirectional tightness

Cast iron

Excluded from 2014/68/EU Directive (art. 4, §3) - Bidirectional tightness - Between flanges PN10 - GG25 body - Stainless steel F304 gate - Rising stem & non-rising handwheel.

3.1 see p. 22

179 - Handwheel operated - EPDM seat

TS: -15°C/+130°C.

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
PS (bar)	10	10	10	10	10	8	8	6	6	4	4	3	3	3
code	179050	179065	179080	179100	179125	179150	179200	179250	179300	179350	179400	179450	179500	179600

not on stock, on request.

Options & spare parts

For unidirectional valves only

MOUNTING 20 €/pc

Quick opening - Lever set

DN	50	65	80	100	125	150	200	250	300
code	9801780	9801781	9801782	9801783	9801784	9801785	9801786	9801787	9801788

Chain wheel

DN	50 to 150	200 to 300	350 to 600
code	9801790	9801791	9801792

Chain

	per m
code	9801795

Limit switches (set of 2 limit switches)

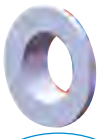
DN	50 to 150	200 to 300
code	9801351	9801352

Spare limit switches (1 piece)

DN	200 to 300
code	9801350

Spare tightness kit for unidirectional valves (mounted on the valve when ordered at the same time)

	DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
NBR	code	9801851	9801852	9801853	9801854	9801855	9801856	9801857	9801858	9801859	9801860	9801861	9801862	9801863	9801864
EPDM	code	9801870	9801871	9801872	9801873	9801874	9801875	9801876	9801877	9801878	9801879	9801880	9801881	9801882	9801883
WHITE EPDM	code	9802170	9802171	9802172	9802173	9802174	9802175	9802176	9802177	9802178	9802179	9802180	9802181	9802182	9802183
FKM	code	-	9801911	9801912	9801913	9801914	9801915	9801916	9801917	9801918	9801919	9801920	-	-	-
SILICONE	code	9801930	9801931	9801932	9801933	9801934	9801935	9801936	9801937	9801938	9801939	9801940	-	-	-



Stainless steel CF8M deflector & deflector set (stainless steel CF8M deflector + universal gasket)

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
deflector code	9801800	9801801	9801802	9801803	9801804	9801805	9801806	9801807	9801808	9801809	9801810	9801811	9801812	9801813
set code	9801820	9801821	9801822	9801823	9801824	9801825	9801826	9801827	9801828	9801829	9801830	9801835	9801836	9801837

Stainless steel lateral bracket

DN	50	65	80	100	125	150	200	250	300	350	400
code	9802001	9802002	9802003	9802004	9802005	9802006	9802007	9802008	9802009	9802010	9802011

For bidirectional valves only (except ref. 179)

Chain wheel

DN	50 to 150	200 to 300	350 to 600
code	9801796	9801797	9801798

Chain

	per m
code	9801795

Unidirectional tightness

Cast iron

Provided with painted steel side covers - Actuator designed for lubricated air supply of 6 bar - Actuators and spare parts, see page 138.

Ex Zones 2/22 on request

170 - Cast iron body - NBR seat
TS: -10°C/+90°C.
171 - Cast iron body - EPDM seat
TS: -10°C/+110°C.
176 - Cast iron body - Metal seat
TS: -10°C/+90°C - ⚠ Incomplete tightness: loss factor 2% of kvs.

double acting				
DN	PS (bar)	170 code	171 code	176 code
50	10	440004035010	441004035010	446004035010
65	10	440005035011	441005035011	446005035011
80	10	440006035012	441006035012	446006035012
100	10	440007035013	441007035013	446007035013
125	10	440008035014	441008035014	446008035014
150	10	440009035015	441009035015	446009035015
200	10	440010035016	441010035016	446010035016
250	8	440011035017	441011035017	446011035017
300	6	440012035018	441012035018	446012035018
350	4	440013035019	-	446013035019
400	4	440014035020	-	446014035020
500	3	440016035022	-	-
600	3	440017035023	-	-

⚠ Mandatory special packaging
for pneumatic actuated knife gate valve from DN250 to DN400 - For DN above, please consult! Packaging complies with NIMP15 standard, certificate available on request.

code
BOXKGVPN

170 - Cast iron body - NBR seat - With manual override
TS: -10°C/+90°C.

double acting		
DN	PS (bar)	code
50	10	440004035050
65	10	440005035051
80	10	440006035052
100	10	440007035053
125	10	440008035054
150	10	440009035055
200	10	440010035056
250	8	440011035057
300	6	440012035058

⚠ Mandatory special packaging
for pneumatic actuated knife gate valve from DN125 to DN200 - For DN above, please consult! Packaging complies with NIMP15 standard, certificate available on request.

code
BOXKGVPN

170 - Cast iron body - NBR seat - Spring return
TS: -10°C/+90°C.
176 - Cast iron body - Metal seat - Spring return
TS: -10°C/+90°C - ⚠ Incomplete tightness: loss factor 2% of kvs.

spring return			
DN	PS (bar)	170 code	176 code
50	10	440004035110	446004035110
65	10	440005035111	446005035111
80	10	440006035112	446006035112
100	10	440007035113	446007035113
125	10	440008035114	446008035114
150	10	440009035115	446009035115
200	10	440010035116	446010035116
250	8	440011035117	446011035117
300	6	440012035118	446012035118

⚠ Mandatory special packaging
for pneumatic actuated knife gate valve from DN125 to DN200 - For DN above, please consult! Packaging complies with NIMP15 standard, certificate available on request.

code
BOXKGVPN

not on stock, on request.
Approx. 4 weeks delivery time.

PNEUMATIC

PNEUMATIC

174 - Cast iron body - NBR seat - With dismantling bottom

TS: -10°C/+90°C.

double acting		
DN	PS (bar)	code
150	10	442009035015
200	10	442010035016
250	8	442011035017
300	6	442012035018

⚠ Mandatory special packaging
for pneumatic actuated knife gate valve from DN200 to DN300 - For DN above, please consult! Packaging complies with NIMP15 standard, certificate available on request.

code
BOXKGVPN

Stainless steel

PNEUMATIC

172 - Stainless steel body - EPDM seat

TS: -10°C/+110°C.

double acting		
DN	PS (bar)	code
50	10	445004035010
65	10	445005035011
80	10	445006035012
100	10	445007035013
125	10	445008035014
150	10	445009035015
200	10	445010035016
250	8	445011035017
300	6	445012035018
350	4	445013035019
400	4	445014035020

⚠ Mandatory special packaging
for pneumatic actuated knife gate valve from DN250 to DN400 - Packaging complies with NIMP15 standard, certificate available on request.

code
BOXKGVPN

PNEUMATIC

172 - Stainless steel body - EPDM seat - With manual override

TS: -10°C/+110°C.

double acting		
DN	PS (bar)	code
50	10	445004035050
65	10	445005035051
80	10	445006035052
100	10	445007035053
125	10	445008035054
150	10	445009035055
200	10	445010035056
250	8	445011035057
300	6	445012035058

⚠ Mandatory special packaging
for pneumatic actuated knife gate valve from DN125 to DN200 - For DN above, please consult! Packaging complies with NIMP15 standard, certificate available on request.

code
BOXKGVPN

172 - Stainless steel body - EPDM seat - Spring return

TS: -10°C/+110°C.

spring return		
DN	PS (bar)	code
50	10	445004035110
65	10	445005035111
80	10	445006035112
100	10	445007035113
125	10	445008035114
150	10	445009035115
200	10	445010035116
250	8	445011035117
300	6	445012035118

not on stock, on request. Approx. 4 weeks delivery time.

⚠ Mandatory special packaging
for pneumatic actuated knife gate valve from DN125 to DN200 - For DN above, please consult! Packaging complies with NIMP15 standard, certificate available on request.

code
BOXKGVPN

PNEUMATIC

Bidirectional tightness

Cast iron

178 - Cast iron body - NBR seat

TS: -10°C/+90°C.

177 - Cast iron body - EPDM seat

TS: -10°C/+110°C.

double acting			
DN	PS (bar)	178 code	177 code
50	10	448004035010	443004035010
65	10	448005035011	443005035011
80	10	448006035012	443006035012
100	10	448007035013	443007035013
125	10	448008035014	443008035014
150	10	448009035015	443009035015
200	10	448010035016	443010035016
250	8	448011035017	443011035017
300	6	448012035018	443012035018
350	4	448013035019	-
400	3	448014035020	-

⚠ Mandatory special packaging
for pneumatic actuated knife gate valve from DN250 to DN400 - Packaging complies with NIMP15 standard, certificate available on request.

code
BOXKGVPN

PNEUMATIC

Through conduit - Bidirectional tightness

179 - Cast iron body - EPDM seat

TS: -10°C/+110°C.

double acting		
DN	PS (bar)	code
50	10	449004035010
65	10	449005035011
80	10	449006035012
100	10	449007035013
125	10	449008035014
150	8	449009035015
200	8	449010035016
250	6	449011035017
300	6	449012035018

not on stock, on request.

⚠ Mandatory special packaging
for pneumatic actuated knife gate valve from DN150 to DN250 - For DN above, please consult! Packaging complies with NIMP15 standard, certificate available on request.

code
BOXKGVPN

PNEUMATIC

Unidirectional tightness

Cast iron

On/off multi-turn Regada actuator 230V - Room temp.: -20°C/+55°C - Manual safety override handwheel - Heating resistance 20W - S4 duty service: 25% of time / 10 cycles/hour - Torque limiter - Painted steel side covers - Electric connection M20 x 1,5 (SO2) & M25 x 1,5 (MO3) to be added - ⚠ **Additional delivery time: 10 days.**

3.1 see p. 22

ELECTRIC

170 - Cast iron body - NBR seat
TS: -10°C/+90°C.
171 - Cast iron body - EPDM seat
TS: -10°C/+110°C.
176 - Cast iron body - Metal seat
TS: -10°C/+90°C - ⚠ Incomplete tightness: loss factor 2% of kvs.

DN	PS (bar)	actuator	170 code	171 code	176 code
50	10	SO2	440004027100	441004027100	446004027100
65	10	SO2	440005027100	441005027100	446005027100
80	10	SO2	440006027100	441006027100	446006027100
100	10	SO2	440007027100	441007027100	446007027100
125	10	SO2	440008027100	441008027100	446008027100
150	10	SO2	440009027100	441009027100	446009027100
200	10	MO3	440010027150	441010027150	446010027150
250	8	MO3	440011027150	441011027150	446011027150
300	6	MO3	440012027150	441012027150	446012027150

⚠ **Mandatory special packaging**
for knife gate valve with Regada actuator from DN250 to DN300 - Packaging complies with NIMP15 standard, certificate available on request.

code
BOXKGVELR

On/off multi-turn Auma actuator 3~400V AC - Room temp.: -25°C/+80°C - Manual safety override handwheel - Heating resistance 20W - S2 duty service (15 mn) - Torque limiter - Painted steel side covers - Electric connection PE M20 x 1,5 to be added - ⚠ **Additional delivery time: 10 days.**

3.1 see p. 22

ELECTRIC

170 - Cast iron body - NBR seat
TS: -10°C/+90°C.
171 - Cast iron body - EPDM seat
TS: -10°C/+110°C.
176 - Cast iron body - Metal seat
TS: -10°C/+90°C - ⚠ Incomplete tightness: loss factor 2% of kvs.

DN	PS (bar)	actuator	170 code	171 code	176 code
50	10	SA07.2	440004027015	441004027015	446004027015
65	10	SA07.2	440005027015	441005027015	446005027015
80	10	SA07.2	440006027015	441006027015	446006027015
100	10	SA07.2	440007027015	441007027015	446007027015
125	10	SA07.6	440008027025	441008027025	446008027025
150	10	SA07.6	440009027025	441009027025	446009027025
200	10	SA07.6	440010027025	441010027025	446010027025
250	8	SA07.6	440011027025	441011027025	446011027025
300	6	SA10.2	440012027035	441012027035	446012027035
350	4	SA10.2	440013027035	441013027035	-
400	4	SA10.2	440014027035	441014027035	-

⚠ **Mandatory special packaging**
for knife gate valve with Auma actuator from DN200 to DN400 - Packaging complies with NIMP15 standard, certificate available on request.

code
BOXKGVELA

Stainless steel

On/off multi-turn Regada actuator 230V - Room temp.: -20°C/+55°C - Manual safety override handwheel - Heating resistance 20W - S4 duty service: 25% of time / 10 cycles/hour - Torque limiter - Painted steel side covers - Electric connection M20 x 1,5 (SO2) & M25 x 1,5 (MO3) to be added - ⚠ **Additional delivery time: 10 days.**

3.1 see p. 22

ELECTRIC

172 - Stainless steel body - EPDM seat
TS: -10°C/+110°C.
173 - Stainless steel body - Metal seat
TS: -20°C/+130°C - ⚠ Incomplete tightness: loss factor 2% of kvs.

DN	PS (bar)	actuator	172 code	173 code
50	10	SO2	445004027100	444004027100
65	10	SO2	445005027100	444005027100
80	10	SO2	445006027100	444006027100
100	10	SO2	445007027100	444007027100
125	10	SO2	445008027100	444008027100
150	10	SO2	445009027100	444009027100
200	10	MO3	445010027150	444010027150
250	8	MO3	445011027150	444011027150
300	6	MO3	445012027150	444012027150

⚠ **Mandatory special packaging**
for knife gate valve with Regada actuator from DN250 to DN300 - Packaging complies with NIMP15 standard, certificate available on request.

code
BOXKGVELR

On/off multi-turn Auma actuator 3~400V AC - Room temp.: -25°C/+80°C - Manual safety override handwheel - Heating resistance 20W - S2 duty service (15 mn) - Torque limiter - Painted steel side covers - Electric connection PE M20 x 1,5 to be added -
⚠ **Additional delivery time: 10 days.**

3.1
see p. 22

172 - Stainless steel body - EPDM seat
TS: -10°C/+110°C.

173 - Stainless steel body - Metal seat
TS: -20°C/+130°C - ⚠ Incomplete tightness: loss factor 2% of kvs.

DN	PS (bar)	actuator	172 code	173 code
50	10	SA07.2	445004027015	444004027015
65	10	SA07.2	445005027015	444005027015
80	10	SA07.2	445006027015	444006027015
100	10	SA07.2	445007027015	444007027015
125	10	SA07.6	445008027025	444008027025
150	10	SA07.6	445009027025	444009027025
200	10	SA07.6	445010027025	444010027025
250	8	SA07.6	445011027025	444011027025
300	6	SA10.2	445012027035	444012027035

⚠ **Mandatory special packaging**
for knife gate valve with Auma actuator from DN200 to DN300 - Packaging complies with NIMP15 standard, certificate available on request.

code
BOXKGVELA

Bidirectional tightness

Cast iron

On/off multi-turn Regada actuator 230V - Room temp.: -20°C/+55°C - Manual safety override handwheel - Heating resistance 20W - S4 duty service: 25% of time / 10 cycles/hour - Torque limiter - Painted steel side covers - Electric connection M20 x 1,5 (SO2) & M25 x 1,5 (MO3) to be added - ⚠ **Additional delivery time: 10 days.**

3.1
see p. 22

177 - Cast iron body - EPDM seat
TS: -10°C/+110°C.

178 - Cast iron body - NBR seat
TS: -10°C/+90°C.

DN	PS (bar)	actuator	177 code	178 code
50	10	SO2	443004027100	448004027100
65	10	SO2	443005027100	448005027100
80	10	SO2	443006027100	448006027100
100	10	SO2	443007027100	448007027100
125	10	SO2	443008027100	448008027100
150	10	SO2	443009027100	448009027100
200	10	MO3	443010027150	448010027150
250	8	MO3	443011027150	448011027150
300	6	MO3	443012027150	448012027150

⚠ **Mandatory special packaging**
for knife gate valve with Regada actuator from DN250 to DN300 - Packaging complies with NIMP15 standard, certificate available on request.

code
BOXKGVELR

On/off multi-turn Auma actuator 3~400V AC - Room temp.: -25°C/+80°C - Manual safety override handwheel - Heating resistance 20W - S2 duty service (15 mn) - Torque limiter - Painted steel side covers - Electric connection PE M20 x 1,5 to be added -
⚠ **Additional delivery time: 10 days.**

3.1
see p. 22

177 - Cast iron body - EPDM seat
TS: -10°C/+110°C.

178 - Cast iron body - NBR seat
TS: -10°C/+90°C.

DN	PS (bar)	actuator	177 code	178 code
50	10	SA07.2	443004027015	448004027015
65	10	SA07.2	443005027015	448005027015
80	10	SA07.2	443006027015	448006027015
100	10	SA07.2	443007027015	448007027015
125	10	SA07.6	443008027025	448008027025
150	10	SA07.6	443009027025	448009027025
200	10	SA07.6	443010027025	448010027025
250	8	SA07.6	443011027025	448011027025
300	6	SA10.2	443012027035	448012027035
350	4	SA10.2	443013027035	448013027035
400	4	SA10.2	443014027035	448014027035

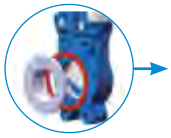
⚠ **Mandatory special packaging**
for knife gate valve with Auma actuator from DN200 to DN400 - Packaging complies with NIMP15 standard, certificate available on request.

code
BOXKGVELA

Options & spare parts for knife gate valves actuation

Spare seat for unidirectional valves (mounted on the valve when ordered at the same time)

	DN	50	65	80	100	125	150	200	250	300	350	400
NBR	code	985500	985501	985502	985503	985504	985505	985506	985507	985508	985509	985510
EPDM	code	985520	985521	985522	985523	985524	985525	985526	985527	985528	985529	985530
FKM	code	985560	985561	985562	985563	985564	985565	985566	985567	985568	985569	985570

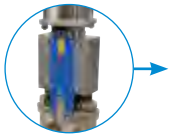


Stainless steel deflector set for unidirectional valves (deflector + universal gasket)

DN	50	65	80	100	125	150	200	250	300	350	400
code	985670	985671	985672	985673	985674	985675	985676	985677	985678	985679	985680

Stainless steel lateral bracket

DN	50	65	80	100	125	150	200	250	300	350	400
code	986121	986122	986123	986124	986125	986126	986127	986128	986129	986130	986131



Stainless steel side covers

DN	50	65	80	100	125	150	200	250	300	350	400
code	986101	986102	986103	986104	986105	986106	986107	986108	986109	986110	986111

Limit switches

type		DN	code
FL551	Set of 2 limit switches for pneumatic actuated knife gate valves	50 to 150 200 to 300	041616N 041617N

Position detectors

type		DN	code
IFS 204	Inductive detector IFM Ø12 10-36V DC PNP NO 3 threads with M12 connector	50 to 150 200 to 400	121147N 121150N
NBB4	Inductive detector P+F Ø12 10-36V DC PNP NO 3 threads with 2 m wire	50 to 150 200 to 400	122141N 122143N
IF 503 A	Inductive detector IFM Ø12 10-36V DC PNP 3 threads with M12 connector - ATEX 3 G/D for areas 2 x 22.	50 to 150 200 to 300	121154N 121155N

Spare pneumatic actuator

DN	code
50	035010
65	035011
80	035012
100	035013
125	035014
150	035015
200	035016
250	035017
300	035018
350	035019
400	035020

Solenoid valve 5/2 monostable - SHAKO BM520

Connection 1/4" inlet and 1/8" outlet - For double acting knife gate valves only - Tubing to actuator not included.

voltage	code
230V AC	042490
24V AC	042491
24V DC	042492

Tubing for solenoid valve

Mounting with rilsan tube & brass fittings.

DN	code
50 to 300	TUBINGVG1BM
350 to 400	TUBINGVG2BM

Unidirectional tightness

Ductile iron

Excluded from 2014/68/EU Directive (art. 4, §3) - Unidirectional tightness: specific mounting position - GGG50 body - F304 gate - GGG50 gland pack - Between flanges PN10 - Rising stem and non-rising handwheel - PS: see table -
⚠ **Mandatory special packaging for all manual and actuated CMO knife gate valves, please consult.**

3.1
40 €/DN

Compatible ATEX ZONE no source of ignition

A1V2HH - Handwheel operated - EPDM seat
TS: - 5°C/+90C°.

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
PS (bar)	10	10	10	10	10	8	7	5	5	4	4	3	3	3
code	A1V2HH050	A1V2HH065	A1V2HH080	A1V2HH100	A1V2HH125	A1V2HH150	A1V2HH200	A1V2HH250	A1V2HH300	A1V2HH350	A1V2HH400	A1V2HH450	A1V2HH500	A1V2HH600

not on stock, on request.

Stainless steel

Excluded from 2014/68/EU Directive (art. 4, §3) - Unidirectional tightness: specific mounting position - CF8M body - 316 gate - CF8M gland pack - Between flanges PN10 - Rising stem and non-rising handwheel - PS: see tables -
⚠ **Mandatory special packaging for all manual and actuated CMO knife gate valves, please consult.**

3.1
40 €/DN

Compatible ATEX ZONE no source of ignition

A1V2I - Handwheel operated - EPDM seat
TS: - 5°C/+90C°.

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
PS (bar)	10	10	10	10	10	8	7	5	5	4	4	3	3	3
code	A1V2I050	A1V2I065	A1V2I080	A1V2I100	A1V2I125	A1V2I150	A1V2I200	A1V2I250	A1V2I300	A1V2I350	A1V2I400	A1V2I450	A1V2I500	A1V2I600

not on stock, on request.

A1V1I - Handwheel operated - Metal seat
TS: 0°C/+250°C.

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
PS (bar)	10	10	10	10	10	8	7	5	5	4	4	3	3	3
code	A1V1I050	A1V1I065	A1V1I080	A1V1I100	A1V1I125	A1V1I150	A1V1I200	A1V1I250	A1V1I300	A1V1I350	A1V1I400	A1V1I450	A1V1I500	A1V1I600

not on stock, on request.

Mining slurry application

Excluded from 2014/68/EU Directive (art. 4, §3) - Bidirectional tightness - Lug type between flanges PN10 - Natural rubber sleeve - Rising stem - Non-rising handwheel up to DN300, gearbox above - PS: see tables.

3.1
40 €/DN

Compatible ATEX ZONE no source of ignition

GL - In-line service
TS: 0°C/+90°C.

DN	50	65	80	100	125	150	200	250	300	350	400
PS (bar)	10	10	10	10	10	10	10	10	10	10	10
F304 gate code	GL04NR050	GL04NR065	GL04NR080	GL04NR100	GL04NR125	GL04NR150	GL04NR200	GL04NR250	GL04NR300	GL04NR350	GL04NR400
F316 gate code	GL16NR050	GL16NR065	GL16NR080	GL16NR100	GL16NR125	GL16NR150	GL16NR200	GL16NR250	GL16NR300	GL16NR350	GL16NR400

Other materials & pressure ratings on request

Available up to DN1200 on request

not on stock, on request.

GA - End-of-line service
TS: 0°C/+90°C.

DN	50	65	80	100	125	150	200	250	300	350	400
PS (bar)	10	10	10	10	10	10	10	10	10	10	10
F304 gate code	GA04NR050	GA04NR065	GA04NR080	GA04NR100	GA04NR125	GA04NR150	GA04NR200	GA04NR250	GA04NR300	GA04NR350	GA04NR400
F316 gate code	GA16NR050	GA16NR065	GA16NR080	GA16NR100	GA16NR125	GA16NR150	GA16NR200	GA16NR250	GA16NR300	GA16NR350	GA16NR400

Other materials & pressure ratings on request

Available up to DN1200 on request

not on stock, on request.

Unidirectional tightness

PNEUMATIC

A1N2HH - Pneumatic actuated knife gate valve - EPDM seat

TS: - 5°C/+90C°.

double acting		
DN	PS (bar)	code
50	10	A1N2HH050
65	10	A1N2HH065
80	10	A1N2HH080
100	10	A1N2HH100
125	10	A1N2HH125
150	8	A1N2HH150
200	7	A1N2HH200
250	5	A1N2HH250
300	5	A1N2HH300

double acting		
DN	PS (bar)	code
350	4	A1N2HH350
400	4	A1N2HH400
450	3	A1N2HH450
500	3	A1N2HH500
600	3	A1N2HH600
700	2	A1N2HH700
800	2	A1N2HH800
900	2	A1N2HH900
1000	2	A1N2HH1000

not on stock, on request.

PNEUMATIC

A1N2I - Pneumatic actuated knife gate valve - EPDM seat

TS: - 5°C/+90C°.

double acting		
DN	PS (bar)	code
50	10	A1N2I050
65	10	A1N2I065
80	10	A1N2I080
100	10	A1N2I100
125	10	A1N2I125
150	8	A1N2I150
200	7	A1N2I200
250	5	A1N2I250
300	5	A1N2I300

double acting		
DN	PS (bar)	code
350	4	A1N2I350
400	4	A1N2I400
450	3	A1N2I450
500	3	A1N2I500
600	3	A1N2I600
700	2	A1N2I700
800	2	A1N2I800
900	2	A1N2I900
1000	2	A1N2I1000

not on stock, on request.

Mining slurry application

PNEUMATIC

GL - Pneumatic actuated ductile Iron - Natural Rubber

F304 gate - TS: - 5°C/+90C°.

double acting		
DN	PS (bar)	code
80	10	GLPNDA04NR080
100	10	GLPNDA04NR100
125	10	GLPNDA04NR125
150	10	GLPNDA04NR150
200	10	GLPNDA04NR200
250	10	GLPNDA04NR250
300	10	GLPNDA04NR300
350	10	GLPNDA04NR350
400	10	GLPNDA04NR400
450	6	GLPNDA04NR450
500	6	GLPNDA04NR500
600	4	GLPNDA04NR600

not on stock, on request.

GL - Pneumatic actuated ductile Iron - Natural Rubber

F316 gate - TS: - 5°C/+90C°.

double acting		
DN	PS (bar)	code
80	10	GLPNDA16NR080
100	10	GLPNDA16NR100
125	10	GLPNDA16NR125
150	10	GLPNDA16NR150
200	10	GLPNDA16NR200
250	10	GLPNDA16NR250
300	10	GLPNDA16NR300
350	10	GLPNDA16NR350
400	10	GLPNDA16NR400
450	6	GLPNDA16NR450
500	6	GLPNDA16NR500
600	4	GLPNDA16NR600

not on stock, on request.

PNEUMATIC

GA - Pneumatic actuated ductile Iron - Natural Rubber

F304 gate - TS: - 5°C/+90C°.

double acting		
DN	PS (bar)	code
80	10	GAPNDA04NR080
100	10	GAPNDA04NR100
125	10	GAPNDA04NR125
150	10	GAPNDA04NR150
200	10	GAPNDA04NR200
250	10	GAPNDA04NR250
300	10	GAPNDA04NR300
350	10	GAPNDA04NR350
400	10	GAPNDA04NR400
450	6	GAPNDA04NR450
500	6	GAPNDA04NR500
600	4	GAPNDA04NR600

not on stock, on request.

GA - Pneumatic actuated ductile Iron - Natural Rubber

F316 gate - TS: - 5°C/+90C°.

double acting		
DN	PS (bar)	code
80	10	GAPNDA16NR080
100	10	GAPNDA16NR100
125	10	GAPNDA16NR125
150	10	GAPNDA16NR150
200	10	GAPNDA16NR200
250	10	GAPNDA16NR250
300	10	GAPNDA16NR300
350	10	GAPNDA16NR350
400	10	GAPNDA16NR400
450	6	GAPNDA16NR450
500	6	GAPNDA16NR500
600	4	GAPNDA16NR600

not on stock, on request.

Metal seated gate valves

Threaded

Excluded from 2014/68/EU Directive (article 4, §3) - EPDM gland pack - Full bore - Non-rising stem - PS: 16 bar - TS: -10°C/+80°C - Incomplete tightness: loss factor 0,5%.

102 - Brass BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	102002	102003	102004	102005	102006	102007	102008	102009	102010	102011	102012
	18,30	**18,30**	**20,08**	**27,38**	**36,33**	**53,50**	**67,18**	**102,13**	**150,80**	**186,93**	**341,63**

Excluded from 2014/68/EU Directive (article 4, §3) - Bronze body - Brass gate & inner parts - EPDM gland pack - Full bore - Non-rising stem - PS: 16 bar - TS: -10°C/+80°C - Incomplete tightness: loss factor 0,5%.

146 - Bronze BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	146002	146003	146004	146005	146006	146007	146008	146009	146010	146011	146012

Excluded from 2014/68/EU Directive (article 4, §3) - Bronze body - CW617N brass gate & bonnet - PTFE stem gasket - Full bore - Quick closing - PS: 16 bar up to 2", 10 bar above - TS: -10°C/+110°C - Incomplete tightness.

140 - Bronze - Quick closing BSP

AIRAGA

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	140003	140004	140005	140006	140007	140008	140009	140010	140011	140012

2014/68/EU Directive N°0036 - Risk category II / module A2 - CF8M body & gate - Metal seats - Full bore - Non rising stem - PS: 16 bar - TS: -20°C/+180°C.

CE 0036

RO - Stainless steel - S-First BSP

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	RO15	RO20	RO25	RO32	RO40	RO50

2014/68/EU Directive N°0343 - Risk category III / module H - CF8M body & gate - Metal seats - Full bore - Non rising stem - PS: 16 bar - TS: -20°C/+180°C.

CE 0343 | 3.1 see p. 22

106 - Stainless steel BSP

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	106004	106005	106006	106007	106008	106009

Flanged

Excluded from 2014/68/EU Directive (article 4, §3) - Flanged RF PN10 - EN 558 series 14 - GG25 body & gate - Brass seats - Non rising stem & handwheel - PS: 10 bar - TS: -10°C/+90°C.
⚠ **Leakage rate B according to EN 12266-1. Please consult specific values on the datasheet.**

3.1 see p. 22

150 - Cast iron

DN	40	50	65	80	100	125	150	200	250	300
face to face	140	150	170	180	190	200	210	230	250	270
code	150040	150050	150065	150080	150100	150125	150150	150200	150250	150300

Excluded from 2014/68/EU Directive (article 4, §3) - Flanged RF PN16 - EN 558 series 14 (DIN3202 F4)- GGG50 body & gate - Rising stem - Non rising handwheel - PS: 16 bar - TS: -10°C/+120°C.
⚠ **Leakage rate B according to EN 12266-1. Please consult specific values on the datasheet.**

3.1 see p. 22

156 - Ductile iron - Brass seats

DN	40	50	65	80	100	125	150	200	250	300
face to face	140	150	170	180	190	200	210	230	250	270
code	156040SF	156050SF	156065	156080	156100SF	156125SF	156150SF	156200	156250SF	156300SF

Flanged

Excluded from 2014/68/EU Directive (article 4, §3) - Flanged RF PN16 - EN 558 series 14 (DIN3202 F4)- GGG50 body & gate - Rising stem - Non rising handwheel - PS: 16 bar - TS: -10°C/+180°C.
⚠ **Leakage rate B according to EN 12266-1. Please consult specific values on the datasheet.**

3.1 see p. 22

159 - Ductile iron - Stainless steel seats - DIN

DN	40	50	65	80	100	125	150	200	250	300
face to face	140	150	170	180	190	200	210	230	250	270
code	159040	159050	159065	159080	159100	159125	159150	159200	159250	159300

2014/68/EU Directive N°0343 - Risk category III / module H - Flanged RF PN10/16 - EN 558 series 29 (NF 29323) - GGG50 body & gate up to DN300, GGG45 above - Rising stem - Non rising handwheel - PS: 10 bar for PN10 valves, 16 bar for PN16 valves - TS: -10°C/+180°C.
⚠ **Leakage rate B according to EN 12266-1. Please consult specific values on the datasheet.**

CE 0343 | 3.1 see p. 22

158 - Ductile iron - Stainless steel seats - NF

DN	40	50	65	80	100	125	150	200	250	300	350	400	500	600
face to face	136	142	154	160	172	186	200	228	255	285	315	340	380	425
PN10 code	-	-	-	-	-	-	-	158201	158251	158301SF	158351	158401	158501	158601
PN16 code	158040	158050	158065	158080	158100	158125	158150	158200	158250	158300	158350	158400	158500	158600

2014/68/EU Directive N°0036 - Risk category III / module H - Flanged RF PN16 - EN 558 series 15 (DIN 3202 series F5) - A216WCB cast steel body & bonnet - TRIM 8 - Bolted bonnet & gland pack - Rising, non rotating stem & non rising handwheel up to DN350, with gearbox above - PS: 16 bar - TS: -29°C/+425°C.

CE 0036 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

147 - Carbon steel - RF PN16

A216WCB + 13Cr gate - F6a stem - A105 + Stellite® Gr.6 seat.

NEW NEW

DN	50	65	80	100	125	150	200	250	300	350	400
face to face	250	270	280	300	325	350	400	450	500	550	600
code	147050	147065	147080	147100	147125	147150	147200	147250	147300	147350	147400

2014/68/EU Directive N°0036 - Risk category III / module H - Flanged RF ANSI 150 - A216WCB cast steel body & bonnet - TRIM 8 - Bolted bonnet & gland pack - Rising, non rotating stem & non rising handwheel up to 14'', with gearbox above - PS: 20 bar - TS: -29°C/+425°C.

NACE MR0175 | CE 0036 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

143 - Carbon steel - RF ANSI 150

A216WCB + 13Cr gate - F6a stem - A105 + Stellite® Gr.6 seat.

NPS	2"	2"1/2	3"	4"	5"	6"	8"	10"	12"	14"
face to face	178	191	203	229	254	267	292	330	356	381
code	143050	143065	143080	143100	143125	143150	143200	143250	143300	143350

NPS	16"	18"	20"	24"
face to face	406	432	457	508
code	143400	143450	143500	143600

2014/68/EU Directive N°0036 - Risk category III / module H - Flanged RF PN16 - EN 558 series 14 (DIN 3202 series F4) - CF8M cast stainless steel body & bonnet - TRIM 10 - Bolted bonnet & gland pack - Rising, non rotating stem & non rising handwheel - PS: 16 bar - TS: -29°C/+538°C.

CE 0036 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

148 - Stainless steel

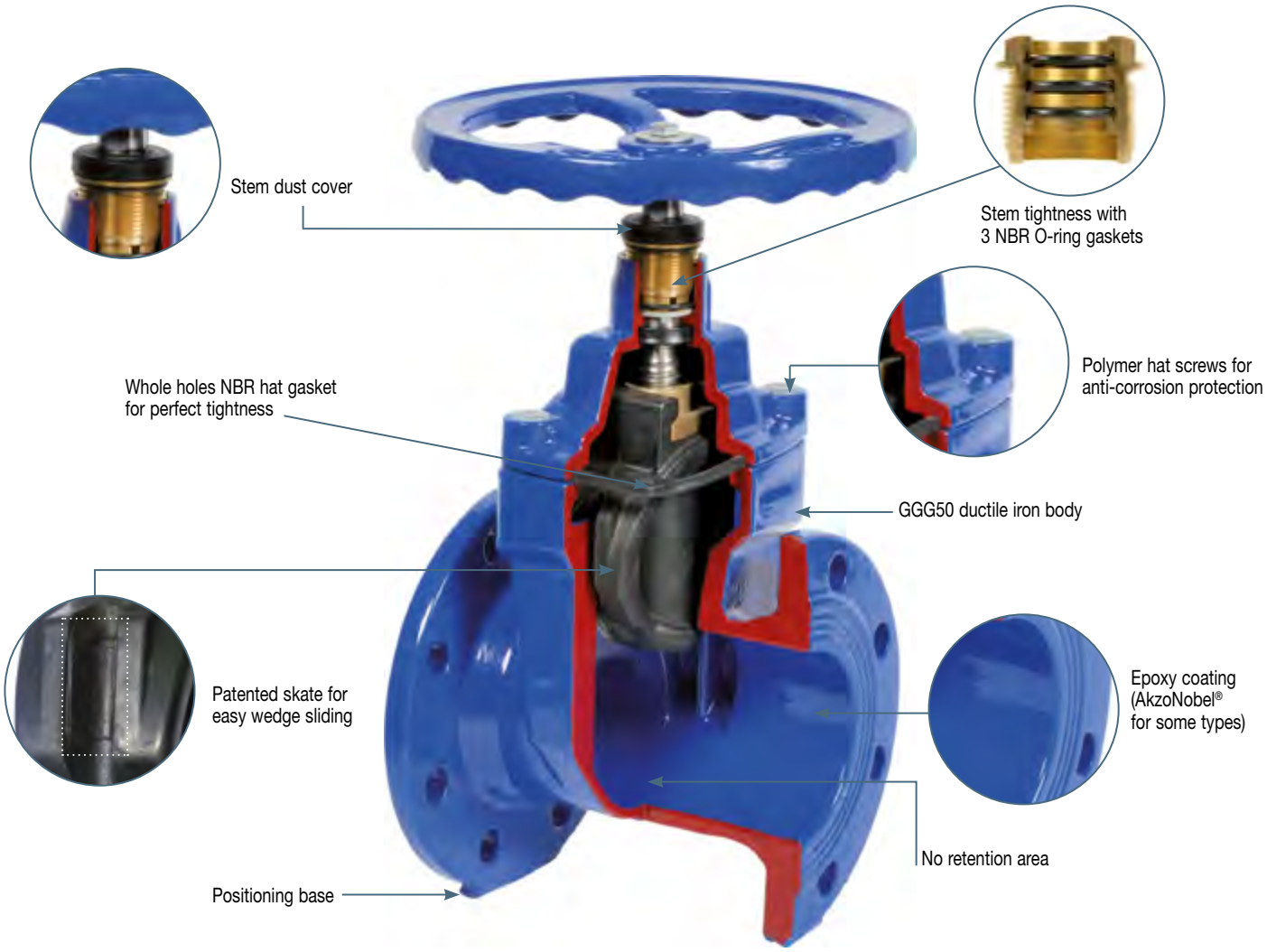
CF8M - F316 stem - CF8M seat.

DN	50	65	80	100	125	150	200	250	300
face to face	150	170	180	190	200	210	230	250	270
code	148050	148065	148080	148100	148125	148150	148200	148250	148300

Resilient seated gate valves

Excluded from 2014/68/EU Directive (article 4, §3) up to DN300, risk category I / module A above - Construction acc. to EN 1074-2 - Flanged RF PN10/16 up to DN150, PN10 or PN16 above - GGG50 body - A420 stem - Full bore - Non rising stem - ↻ clockwise closing - Epoxy coated - PS: 10 bar for PN10 valves, 16 bar for PN16 valves - TS: -10°C/+70°C.

CE 3.1 see p. 22



180 - EPDM wedge - EN 558 series 14 (DIN 3202 F4) - With handwheel ↻

DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500
face to face	140	150	170	180	190	200	210	230	250	270	290	310	330	350
PN10 code	-	-	-	-	-	-	-	180200	180250	180300	180350	180400	180450	180500
PN16 code	180040	180050	180065	180080	180100	180125	180150	180201	180251	180301	180351	180401	-	-

180 - EPDM wedge - EN 558 series 14 (DIN 3202 F4) - With gearbox ↻

DN	600	700	800
face to face	390	430	470
PN10 code	180600	180700	180800
PN16 code			

184 - EPDM wedge - EN 558 series 15 (DIN 3202 F5) - With square drive nut ↻

DN	40	50	65	80	100	125	150	200	250	300	350	400
face to face	240	250	270	280	300	325	350	400	450	500	550	600
PN10 code	-	-	-	-	-	-	-	184200	184250	184300	184350	184400
PN16 code	184040	184050	184065	184080	184100	184125	184150	184201	184251	184301	184351	184401

Excluded from 2014/68/EU Directive (article 4, §3) up to DN300, risk category I / module A above - Construction acc. to EN 1074-2 - Flanged RF PN10/16 up to DN150, PN10 or PN16 above - GGG50 body - F304 stainless steel stem & bolts - Full bore - Non rising stem - GSK certified AkzoNobel® special epoxy coating for ACS - PS: 10 bar for PN10 valves, 16 bar for PN16 valves - TS: -10°C/+70°C.

3.1 see p. 22

181 - EPDM wedge - EN 558 series 14 (DIN 3202 F4) - With handwheel ↻

↻ clockwise closing.

DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500
face to face	140	150	170	181	190	200	210	230	250	270	290	310	330	350
PN10 code	-	-	-	-	-	-	-	181200	181250	181300	181350	181400	181450	181500
PN16 code	181040	181050	181065	181080	181100	181125	181150	181201	181251	181301	181351	181401	-	-

185 - EPDM wedge - EN 558 series 15 (DIN 3202 F5) - With square drive nut ↺

↺ anticlockwise closing.

DN	40	50	65	80	100	125	150	200	250	300	350	400
face to face	240	250	270	280	300	325	350	400	450	500	550	600
PN10 code	-	-	-	-	-	-	-	185200	185250	185300	185350	185400
PN16 code	185040	185050	185065	185080	185100	185125	185150	185201	185251	185301	185351	185401

Excluded from 2014/68/EU Directive (article 4, §3) - Construction acc. to EN 1074-2 - Flanged RF PN10/16 up to DN150, PN10 or PN16 above - GGG50 body - A420 stem - Full bore - Non rising stem - ↻ clockwise closing - Epoxy coated - PS: 10 bar for PN10 valves, 16 bar for PN16 valves - TS: -10°C/+70°C.

3.1 see p. 22

182 - NBR wedge - EN 558 series 14 (DIN 3202 F4) - With handwheel ↻

DN	40	50	65	80	100	125	150	200	250	300
face to face	140	150	170	180	190	200	210	230	250	270
PN10 code	-	-	-	-	-	-	-	182200	182250	182300
PN16 code	182040	182050	182065	182080	182100	182125	182150	182201	182251	182301

Spare parts

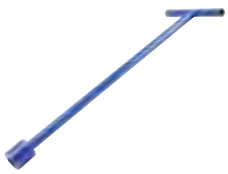
Spare square drive nut (for 180-181-182)

DN	40	50	65	80	100	125	150	200	250	300	350	400
code	9801831	9801831	9801831	9801832	9801832	9801833	9801833	9801833	9801834	9801834	9801838	9801838

Spare handwheel

↻ clockwise closing handwheel for 180-181-182-184 / ↺ anticlockwise closing handwheel for 185.

DN	40	50	65	80	100	125	150	200	250	300	350	400
↻ code	9801594	9801594	9801594	9801595	9801595	9801596	9801596	9801596	9801597	9801597	9801598	9801598
↺ code	9801590	9801590	9801590	9801591	9801591	9801592	9801592	9801592	9801593	9801593	9801599	9801599



Tee keys (for 35mm square drive nut).

DN	50-300	50-300
length	1m	1,8m
code	9802080	9802081

Spare stem extensions

To be connected on a square drive nut.

DN	50 to 300	350-400
1 m code	9802020	9802029
1,25 m code	9802031	9802040
1,50 m code	9802042	9802051

Spare telescopic stem extension

To be connected on a square drive nut.

DN	40 to 300
1,3 m to 1,8 m code	9802060
2 m to 2,5 m code	9802070

Air release valves

Simple effect - Degassing function

NEW

Excluded from 2014/68/EU Directive (article 1, §2.b) - Construction acc. to EN 1074-4 - BSP female thread acc. to ISO 7-1 - GGG45 body - F304 float - NBR gasket - PS: 40 bar - TS: 0°C/+60°C - Can be mounted with ball valve 1'' & flange DN40/50/60/65.

31100 - GGG45 body - Stainless steel float BSP

Ø	1"
code	3110006

Triple effect - High flow

NEW

Excluded from 2014/68/EU Directive (article 1, §2.b) - Construction acc. to EN 1074-4 - BSP male thread acc. to ISO 7-1 - Glass fiber reinforced polypropylene body - Polypropylene float - EPDM gasket - PS: 16 bar - TS: 0°C/+60°C - Can be mounted with ball valve 1'' & flange DN40/50/60/65.

31300 - Polypropylene body & float BSP

Ø	1"	2"
code	3130006	3130009

NEW

Excluded from 2014/68/EU Directive (article 1, §2.b) - Construction acc. to EN 1074-4 - PN10/16 connection or BSP female thread acc. to ISO 7-1 - GGG45 body - Polypropylene float - NBR gasket - PS: 16 bar - TS: 0°C/+60°C.

31310 - GGG45 body - Full bore BSP

Ø	1"	2"
code	3131006	3131009

31310 - GGG45 body - Full bore - PN10/16

PN10/16 up to DN150, PN16 above.

DN	50	80	100	150	200
code	3131050	3131080	3131100	3131150	3131200

31320 - GGG45 body - Reduced bore BSP

Ø	2"
code	3132009

31320 - GGG45 body - Reduced bore - PN10/16

PN10/16 up to DN150, PN16 above.

DN	50	80	100	150	200
code	3132050	3132080	3132100	3132150	3132200

Pressure reducing valves

NEW

Excluded from 2014/68/EU Directive (article 4, §3) - Construction acc. to EN 1074-4 - EN 558 series 1 - GGG45 body - NBR tightness - F304 seat - For clean fluids - Downstream setting range: 1.5 to 6 bar - TS: -0/+60°C - Supplied without pressure gauge.

495 - Piston pressure reducing valve

F303 piston - PS : 16 bar

DN	50	65	80	100
code	495050	495065	495080	495100

496 - Diaphragm pressure reducing valve

Nylon reinforced EPDM diaphragm - PS : 16 bar.

DN	50	65	80	100
code	496050	496065	496080	496100

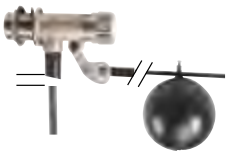
Excluded from 2014/68/EU Directive (article 4, §3).

RF1 - PVC-U BSP

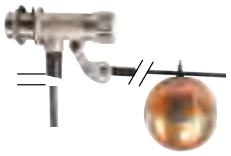
PVC-U body - EDPM gasket - Stainless steel lever - PE float - PS: 10 bar up to 1"1/4, 5 bar above - TS: 0°C/+60°C.

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
EPDM gaskets code	6200RT015	6200RT020	6200RT025	6200RT032	6200RT040	6200RT050	6200RT065	6200RT080

490 - Brass body - PE float BSP



491 - Brass body - Copper float BSP



Stainless steel inner mechanism - EPDM gasket - TS fig. 490: 0°C/+60°C; TS fig. 491: 0°C/+80°C - ACS certification for ref. 491 only.

Ø male	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Ø float	120	150	180	220	220	300
PS (bar)	10	8	8	5	5	10
490 code	490004	490005	490006	490007	490008	490009
491 code	491004	491005	491006	491007	491008	491009

494 - Full stainless steel BSP

F304 body & inner mechanism - F316 float - FKM gasket - TS: -5°C/+90°C.

Ø male	3/4"	3/4"
PS (bar)	6	8
code	494005	494105

e-float - Full stainless steel BSP

F304 body, mechanism & float - EPDM gasket - PS: 10 bar -TS: -10°C/+80°C.

Ø male	1/2"	3/4"	1"	1"1/2	2"
Ø float	100	100	100	150	150
code	292002	292003	292004	292006	292007

Spare float

Ø float	100	150
code	981860	981861

NEW

Excluded from 2014/68/EU Directive (article 1, §2.b) - Construction acc. to EN 1074-5 - EN 558 series 1 - PN10/16 up to DN150, PN16 above - GGG45 body - Epoxy coated - Bronze & stainless steel inner parts - F304 float - NBR gasket - PS: 16 bar - TS: 0°C/+60°C.

492 - Ductile iron - Stainless steel float

DN	50	65	80	100	150	200	250	300
code	492050	492065	492080	492100	492150	492200	492250	492300

Excluded from 2014/68/EU Directive (article 4, §3) - Flanged RF PN16 - GG25 body - Epoxy coated - Brass & bronze inner parts - NBR seat - Min. ΔP: 0,3 bar - PS: 16 bar - TS: -10°C/+80°C - **Actuated by an e-float valve (included),** to be connected by pipes (not included) - BSP connection 1/2".

BFF - Coaxial cast iron valve

DN	50	65	80	100	125	150	200
face to face	190	210	225	255	285	315	420
code	292050	292065	292080	292100	292125	292150	292200

e-float included

Service connection valves

Excluded from 2014/68/EU Directive (article 1, §2.b) - Inlet threaded connection (D2) acc. to ISO 965 & outlet compression fitting for PE pipes (D1) - Bronze or CW602N brass body - GG20 or GGG50 cap - Brass ball - Plain PTFE seats - NBR stem tightness - Epoxy coated 30x30 square drive - anticlockwise closing - PS: 16 bar - TS: +4°C/+40°C.

Service cock valves

29110 - Straight with o-ring gasket

Bronze or CW602N brass body
GG20 cap.

DN	20	25	30	40
outlet Ø (D1)	25	32	40	50
inlet thread (D2)	40x300	40x300	55x300	55x300
bore (mm)	25*	25	40	40
bronze code	2911020	2911025	2911030	2911040
brass code	2911021	-	-	-

29130 - Universal straight/angle with large gasket

CW602N brass body - GGG50 cap.

DN	20	30	40
outlet Ø (D1)	25	40	50
inlet thread (D2)	40x300	55x300	55x300
bore (mm)	21	40	40
code	2913020	2913030	2913040

Shut-off valve

29180 - Straight with o-ring gaskets

Bronze body - GG20 cap.

DN	20	25	30	40
bore	21	25	40	40
ext. pipe Ø	25	32	40	50
code	2918020	2918025	2918030	2918040

F304 tightning wrench for universal service valves

code	2913010

HDPE centering ring for service valves

valve type	29110	29180	29130
code	2994000	2994000	2913001

Ball valve w/ free nut

Brass body.

Ø	25-3/4"	25-1"	32-3/4"	32-1"
code	490254	490264	490354	490364
	36,43	**48,18**	**44,55**	**52,45**

Ball valve w/ free nut & drain outlet

Brass body.

Ø	25-3/4"
code	491254
	50,55

Tapping bridges for service cock valves

2950 - Small thread M40x300

2951 - Large thread M55x300

Threaded connection acc. to ISO 965 - Forged steel body - Double tightness EPDM gasket - PS: 16 bar - TS: +4°C/+40°C. Suitable for rigid pipes, such as cast iron, steel, PVC, asbestos cement.

DN	40	50	60	80	100	125	150	175	200	225	250	275	300
pipe Ø (mm)	50-62	63-74	75-89	90-109	110-135	136-159	160-175	175-211	212-233	234-269	270-290	291-310	311-325
2950 code	2950040	2950050	2950060	2950080	2950100	2950125	2950150	2950175	2950200	2950225	2950250	2950275	2950300
2951 code	-	2951050	2951060	2951080	2951100	2951125	2951150	2951175	2951200	2951225	2951250	2951275	2951300

Needle valves

Excluded from 2014/68/EU Directive (article 4, §3) - B62 Bronze body - Brass hat, needle & seat - PS: 25 bar - TS: -10°C/+180°C.

482 - Threaded BSP

Ø	1/4"	3/8"	1/2"	3/4"
code	482002	482003	482004	482005

Excluded from 2014/68/EU Directive (article 4, §3) - A105N carbon steel body - A410 needle - Graphite gland pack - Rising stem - PS: 200 bar - TS: -29°C/+250°C.

3.1 see p. 22

Compatible ATEX ZONE no source of ignition

486 - Welding SW

484 - Threaded NPT

483 - Threaded BSP

NPS	1/4"	3/8"	1/2"	3/4"	1"
486 code	486008	486010	486015	486020	486025
484 code	484002	484003	484004	484005	484006
483 code	483002	483003	483004	483005	483006

Needle valves

HIGH PRESSURE

2014/68/EU Directive N°0948 - Risk category III / module B+C2 - A105 body - A410 needle - Rising rotating stem - PS: 200 bar - TS: 0°C/+180°C.

CE 0948

489 - Female/Female BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	489002	489003	489004	489005	489006	489007	489008	489009

HIGH PRESSURE

Excluded from 2014/68/EU Directive (article 4, §3) - CF8M body - F304 needle - PTFE gland pack - PS: 400 bar - TS: -20°C/+180°C.

3.1 see p. 22

Compatible ATEX ZONE no source of ignition

481 - Female/female BSP

487 - Female/female NPT

488 - Male/female BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"
481 code	481002	481003	481004	481005	481006
487 code	487002	487003	487004	487005	487006
488 code	488002	488003	488004	488005	488006

Globe valves

Threaded

2014/68/EU Directive N°0497 - Risk category III / module H - For fluids of group 2 - B62 Bronze body - Brass globe & bonnet - PTFE gland pack - PS: 16 bar - TS: -10°C/+110°C.

CE 0497

460 - Bronze - Metal-metal tightness BSP

462 - Bronze - PTFE tightness BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
460 code	460002	460003	460004	460005	460006	460007	460008	460009
462 code	462002	462003	462004	462005	462006	462007	462008	462009

2014/68/EU Directive N°0497 - Risk category III / module H - For fluids from group 2 - B62 Bronze body - Brass union bonnet - F316L seat - PS: 25 bar - TS: -10°C/+180°C.

CE 0497

451 - Bronze - Metal-metal tightness BSP

454 - Bronze - PTFE tightness BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
451 code	451002	451003	451004	451005	451006	451007	451008	451009
454 code	454002	454003	454004	454005	454006	454007	454008	454009

FOOD

2014/68/EU Directive N°0343 - Risk category I / module A - CF8M body - F316 globe - Metal seat - PS: 16 bar - TS: -20°C/+180°C - ⚠ **Not suitable for steam.**

CE 1935 CE 0343 3.1 see p. 22

485 - Stainless steel BSP

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	485004	485005	485006	485007	485008	485009

Flanged RF PN16

Excluded from 2014/68/EU Directive (article 4, §3) - Flanged RF PN16 - EN 558 series 1 - GG25 body & globe - Stainless steel stem & seat - Rising stem - PS: 16 bar up to DN150, 14 bar for DN200, 9 bar above - TS: -10°C/+120°C - ⚠ **Not suitable for steam.**

3.1 see p. 22

470 - Cast iron

NEW

DN	15	20	25	32	40	50	65	80	100	125	150	200	250
face to face	130	150	160	180	200	230	290	310	350	400	480	600	730
code	470015	470020	470025	470032	470040	470050	470065	470080	470100	470125	470150	470200	470250

Flanged RF PN16

STEAM

2014/68/EU Directive N°0062 - Risk category III / module H - Flanged RF PN16 - EN 558 series 1 (DIN 3202 F1) - GG25 body - Stainless steel stem, globe & seat - Rising stem & handwheel - PS: 16 bar - TS: -10°C/+300°C - ⚠ **Steam up to 10 bar max.**

CE 0062 | 3.1 see p. 22

479 - Cast iron

ZETKAMA

DN	15	20	25	32	40	50	65	80	100	125	150	200
face to face	130	150	160	180	200	230	290	310	350	400	480	600
code	479015	479020	479025	479032	479040	479050	479065	479080	479100	479125	479150	479200

STEAM

2014/68/EU Directive N°0035 - Risk category III / module H - Flanged RF PN25/16 - EN 558 series 1 (DIN 3202 F1) - GGG40 body - Stainless steel stem, globe & seat - Bolted bonnet & gland pack - Non rising stem - PS: 25 bar up to DN50, 16 bar above - TS: -10°C/+350°C - ⚠ **Steam up to 10 bar max.**

CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

476 - Ductile iron - With stainless steel bellow

DN	15	20	25	32	40	50	65	80	100	125	150	200
face to face	130	150	160	180	200	230	290	310	350	400	480	600
code	476015	476020	476025	476032	476040	476050	476065	476080	476100	476125	476150	476200

Flanged RF PN40

STEAM

2014/68/EU Directive N°0035 - Risk category III / module H - Flanged RF PN40 - EN 558 series 1 (DIN 3202 F1) - A216WCB body - Stainless steel stem, globe & seat - Bolted bonnet & gland pack - PS: 40 bar - TS: -20°C/+400°C.

CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

471 - Carbon steel

Rising stem and handwheel

DN	15	20	25	32	40	50	65	80	100	125	150	200
face to face	130	150	160	180	200	230	290	310	350	400	480	600
code	471015	471020	471025	471032	471040	471050	471065	471080	471100	471125	471150	471200

475 - Carbon steel - With stainless steel bellow

Non-rising stem & handwheel

DN	15	20	25	32	40	50	65	80	100	125	150	200
face to face	130	150	160	180	200	230	290	310	350	400	480	600
code	475015	475020	475025	475032	475040	475050	475065	475080	475100	475125	475150	475200

STEAM

2014/68/EU Directive N°0035 - Risk category III / module H - Flanged RF PN40/16 - EN 558 series 1 (DIN 3202 F1) - CF8M body - F316 stem, globe & bellow - Bolted bonnet - Screwed gland pack - PS: 40 bar up to DN50, 16 bar above - TS: -50°C/+400°C.

CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

472 - Stainless steel - With stainless steel bellow

Non-rising stem & handwheel

DN	15	20	25	32	40	50	65	80	100
face to face	130	150	160	180	200	230	290	310	350
code	472015	472020SF	472025	472032	472040	472050	472065	472080	472100

FOOD

2014/68/EU Directive N°0035- Risk category III / module H - Flanged RF PN40/16 - EN 558 series 1 (DIN 3202 F1) - CF8M body - F316 stem & bellow - F316 globe + PTFE plug - Bolted bonnet - Screwed gland pack - PS: 40 bar up to DN50, 16 bar above - TS: -50°C/+200°C.

CE 1935 | CE 0035 | 3.1 see p. 22

472T - Stainless steel - With stainless steel bellow & PTFE globe

Non-rising stem & handwheel

DN	15	20	25	32	40	50	65	80	100
face to face	130	150	160	180	200	230	290	310	350
code	472T015	472T020	472T025	472T032	472T040	472T050	472T065	472T080	472T100

Flanged RF PN16

STEAM

2014/68/EU Directive N°2580 - Risk category III / module H - Flanged RF PN16 - EN 558 series 1 - GG25 body - F316 bonnet up to DN20, GG25 above - Phosphated GG20 lantern - YX-GT graphite packing rings - Belleville washer - PS: 16 bar - TS: -10°C/+300°C.

CE 2580 | 3.1 see p. 22

YVN-3 - Cast iron

1.4021 piston.

DN	15	20	25	32	40	50
face to face	130	150	160	180	200	230
code	YVN3015	YVN3020	YVN3025	YVN3032	YVN3040	YVN3050

YVNB-2 - Cast iron - With balancing piston box

1.4086 piston - 1.4301 piston box.

DN	65	80	100	125	150	200
face to face	290	310	350	400	480	600
code	YVNB2065	YVNB2080	YVNB2100	YVNB2125	YVNB2150	YVNB2200

Flanged RF PN40

STEAM

2014/68/EU Directive N°2580 - Risk category III / module H - Fire safe acc. to ISO 10497 & API 6FA:2008 - Flanged RF PN40 - EN 558 series 1 - A216WCB body - F316 bonnet up to DN20, A216WCB above - Phosphated GG20 lantern - YX-GT graphite packing rings - Belleville washer - PS: 40 bar - TS: -10°C/+400°C.

FIRE SAFE | CE 2580 | 3.1 see p. 22

YVN-8 - Cast steel

1.4021 piston.

DN	15	20	25	32	40	50
face to face	130	150	160	180	200	230
code	YVN8015	YVN8020	YVN8025	YVN8032	YVN8040	YVN8050

YVNB-8 - Cast steel - With balancing piston box

1.4086 piston - 1.4301 piston box.

DN	65	80	100	125	150	200
face to face	290	310	350	400	480	600
code	YVNB8065	YVNB8080	YVNB8100	YVNB8125	YVNB8150	YVNB8200

STEAM

2014/68/EU Directive N°2580 - Risk category III / module H - Flanged RF PN40 - EN 558 series 1 - A216WCB body & bonnet - 1.4021 piston & lantern - YX-GT graphite packing rings - Belleville washer - PS: 40 bar - TS: -10°C/+220°C.

CE 2580 | 3.1 see p. 22

AKV - Boiler blow down valves

DN	32	40	50
code	AKV032	AKV040	AKV050

Carbon steel A105N - TRIM 8

2014/68/EU Directive N°0036 - Risk category III / module H - API Spec Q1 & API 6D-0286 (except globe valves) - A105N carbon steel body & bonnet - TRIM 8 - A410 + Stellite® Gr.6 seat - Bolted bonnet & gland pack - Rising stem for gate & globe valves - TS: -29°C/+425°C.

0286 | 0036 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

Gate valves - 800 lbs

112 - Welding **113 - Threaded** **114 - Threaded**

F6 gate - A410 stem - Standard port - PS: 136 bar.

NPS	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
112 code	112010	112015	112020	112025	112032	112040	112050
113 code	113003	113004	113005	113006	113007	113008	113009
114 code	114003	114004	114005	114006	114007	114008	114009

Globe valves - 800 lbs

412 - Welding **413 - Threaded** **414 - Threaded**

A410 globe - A410 stem - Standard port - PS: 136 bar.

NPS	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
412 code	412010	412015	412020	412025	412032	412040	412050
413 code	413003	413004	413005	413006	413007	413008	413009
414 code	414003	414004	414005	414006	414007	414008	414009

Globe valves with stainless steel bellow - 600 lbs

402 - Welding **403 - Threaded** **404 - Threaded**

A410 globe - A410 stem - A321 bellow - Standard port - PS: 100 bar.

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"
402 code	402015	402020	402025	402032	402040	402050
403 code	403004	403005	403006	403007	403008	403009
404 code	404004	404005	404006	404007	404008	404009

Piston check valves - 800 lbs

312 - Welding **313 - Threaded** **314 - Threaded**

A410 piston - With A302 spring - Horizontal mounting - Standard port - PS: 136 bar.

NPS	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
312 code	312010	312015	312020	312025	312032	312040	312050
313 code	313003	313004	313005	313006	313007	313008	313009
314 code	314003	314004	314005	314006	314007	314008	314009

Ball check valves - 800 lbs

318 - Welding **319 - Threaded**

A410 ball - With A302 spring - Horizontal mounting - Standard port - PS: 136 bar.

NPS	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
318 code	318010	318015	318020	318025	318032	318040	318050
319 code	319003	319004	319005	319006	319007	319008	319009

Carbon steel A105N - TRIM 5

2014/68/EU Directive N°0036 - Risk category III / module H - API Spec Q1 & API 6D-0286 (except globe valves) - A105N carbon steel body & bonnet - TRIM 5 - A410 + Stellite® Gr.6 seat - Rising stem for gate & globe valves - TS: -29°C/+425°C.

0286 | 0036 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

Gate valve - 150 lbs

130 - RF ANSI 150

F6 + Stellite® Gr.6 gate - A410 stem - Bolted bonnet - Standard port - PS: 20 bar.

NPS	1/2"	3/4"	1"	1"1/2	2"
code	130015	130020	130025	130040	130050

Globe valve - 150 lbs

440 - RF ANSI 150

F6 + Stellite® Gr.6 globe - A410 stem - Bolted bonnet - Standard port - PS: 20 bar.

NPS	1/2"	3/4"	1"	1"1/2	2"
code	440015	440020	440025	440040SF	440050SF

Gate valve - 300 lbs

131 - RF ANSI 300

F6 + Stellite® Gr.6 gate - A410 stem - Bolted bonnet - Standard port - PS: 50 bar.

NPS	1/2"	3/4"	1"	1"1/2	2"
code	131015	131020SF	131025SF	131040SF	131050SF

Globe valve - 300 lbs

441 - RF ANSI 300

F6 + Stellite® Gr.6 globe - A410 stem - Bolted bonnet - Standard port - PS: 50 bar.

NPS	1/2"	3/4"	1"	1"1/2	2"
code	441015	441020	441025	441040	441050

Gate valves - 800 lbs

117 - Welding SW **116 - Threaded** NPT

F6 + Stellite® Gr.6 gate - A410 stem - Welded bonnet - Standard port - PS: 136 bar.

NPS	1/2"	3/4"	1"	1"1/2	2"
117 code	117015	117020	117025	117040	117050
116 code	116004	116005	116006	116008	116009

Globe valves - 800 lbs

417 - Welding SW **416 - Threaded** NPT

Stellite® Gr.6 globe - A410 stem - Welded bonnet - Standard port - PS: 136 bar.

NPS	1/2"	3/4"	1"	1"1/2	2"
417 code	417015	417020	417025	417040	417050
416 code	416004	416005	416006SF	416008	416009

Y-pattern globe valve - 1500 lbs

405 - Welding SW

A410 + Stellite® Gr.6 globe - A410 stem - Welded bonnet - Full port - PS: 255 bar.

NPS	1/2"	3/4"	1"	1"1/2	2"
code	405015	405020	405025	405040	405050

Carbon steel A105N - TRIM 16

2014/68/EU Directive N°0036 - Risk category III / module H - API Spec Q1 & API 6D-0286 - NACE MR0175 - A105N carbon steel body & bonnet - TRIM 16 - F316 + Stellite® Gr.6 seat - Bolted bonnet & gland pack - Rising stem - TS: -29°C/+425°C.

Gate valves - 800 lbs

111 - Welding **115 - Threaded**

F316 + Stellite® Gr.6 gate - F316 stem - Standard port - PS: 136 bar.

NPS	3/8"	1/2"	3/4"	1"	1"1/2	2"
111 code	111010	111015	111020	111025	111040	111050
115 code	115003	115004	115005	115006	115008	115009

Carbon steel A350LF2 - TRIM 12

2014/68/EU Directive N°0036 - Risk category III / module H - API Spec Q1 & API 6D-0286 (except globe valves) - A350LF2 carbon steel body & bonnet -TRIM 12 - F316 + Stellite® Gr.6 seat - Bolted bonnet & gland pack - Rising stem for gate & globe valves - TS: -46°C/+425°C - Impact test included in the 3.1 certificate.

Gate valves - 800 lbs

119 - Welding **118 - Threaded**

F316 gate - F316 stem - Full port - PS: 136 bar.

NPS	1/2"	3/4"	1"	1"1/2	2"
119 code	119015	119020	119025	119040	119050
118 code	118004	118005	118006	118008	118009

Globe valves - 800 lbs

419 - Welding **418 - Threaded**

F316 globe - F316 stem - Full port - PS: 136 bar.

NPS	1/2"	3/4"	1"	1"1/2	2"
419 code	419015	419020	419025	419040	419050
418 code	418004	418005	418006	418008	418009

Gate valves - 1500 lbs

121 - Welding **120 - Threaded**

F316 gate - F316 stem - Standard port - PS: 255 bar.

NPS	1/2"	3/4"	1"	1"1/2	2"
121 code	121015	121020	121025	121040	121050
120 code	120004	120005	120006	120008	120009

Globe valves - 1500 lbs

421 - Welding **420 - Threaded**

F316 globe - F316 stem - Standard port - PS: 255 bar.

NPS	1/2"	3/4"	1"	1"1/2	2"
421 code	421015	421020SF	421025	421040	421050
420 code	420004	420005	420006	420008	420009

Carbon steel A182F11 - TRIM 5

2014/68/EU Directive N°0036 - Risk category III / module H - API Spec Q1 & API 6D-0286 - A182F11 carbon steel body & bonnet - TRIM 5 - A410 + Stellite® Gr.6 seat - Rising stem - TS: -29°C/+540°C.

Q1 | 6D 0286 | CE 0036 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

Gate valves - 800 lbs

122 - Welding (SW) **123 - Threaded** (NPT)

F6 + Stellite® Gr.6 gate - A410 stem - Welded bonnet - Standard port - PS: 138 bar.

NPS	1/2"	3/4"	1"	1"1/2	2"
122 code	122015	122020	122025	122040	122050
123 code	123004	123005	123006	123008	123009

Carbon steel A182F22 - TRIM 5

2014/68/EU Directive N°0036 - Risk category III / module H - A182F22 carbon steel body & bonnet - TRIM 5 - A410 + Stellite® Gr.6 seat - Rising stem - TS: -29°C/+540°C.

CE 0036 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

Y-pattern globe valve - 1500 lbs

406 - Welding (SW)

A410 + Stellite® Gr.6 globe - F304 stem - Welded bonnet - Full port - PS: 258 bar.

NPS	1/2"	3/4"	1"	1"1/2	2"
code	406015	406020	406025	406040	406050

Stainless steel F316 - TRIM 10

2014/68/EU Directive N°0036 - Risk category III / module H - API Spec Q1 & API 6D-0286 (except globe valves) - F316 stainless steel body & inner parts - TRIM 10 - F316, standard 316 seat and stem - Bolted bonnet & gland pack - Rising stem for gate & globe valves - PS: 132 bar - TS: -49°C/+538°C.

Q1 | 6D 0286 | CE 0036 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

Gate valves - 800 lbs

152 - Welding (SW) **153 - Threaded** (NPT)

F316 gate - Standard port.

NPS	3/8"	1/2"	3/4"	1"	1"1/2	2"
152 code	152010	152015	152020	152025	152040	152050
153 code	153003	153004SF	153005SF	153006SF	153008	153009

Globe valves - 800 lbs

452 - Welding (SW) **453 - Threaded** (NPT)

F316 globe - Standard port.

NPS	3/8"	1/2"	3/4"	1"	1"1/2	2"
452 code	452010	452015	452020	452025	452040	452050
453 code	453003	453004	453005	453006	453008	453009

Ball check valves - 800 lbs

358 - Welding (SW) **359 - Threaded** (NPT)

F316 ball - With inconel spring - Standard port.

NPS	3/8"	1/2"	3/4"	1"	1"1/2	2"
358 code	358010	358015	358020	358025	358040	358050
359 code	359003	359004	359005	359006	359008	359009

Ball valves - Carbon steel A105N

2014/68/EU Directive N°0036 - Risk category III / module H - API Spec Q1 & API 6D-0286 - Fire safe API 607 - A105N carbon steel body - F316 ball - F316 stem - RTFE seats - Full bore - Anti-blowout stem - Antistatic device - ISO pad - PS: 136 bar - TS: -29°C/+200°C.

0286 | FIRE SAFE | 0036 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

Ball valves - 800 lbs

7451 - Welding (SW) **7450 - Threaded** (NPT)

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"
7451 code	745115	745120	745125	745132	745140	745150
7450 code	745004	745005	745006	745007	745008	745009

Other forged valves

Excluded from 2014/68/EU Directive (article 4, §3) - A105N carbon steel body - A410 needle - Graphite gland pack - Rising stem - PS: 200 bar - TS: -29°C/+250°C.

3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

Needle valves - 3000 psi

486 - Welding (SW) **484 - Threaded** (NPT) **483 - Threaded** (BSP)

NPS	1/4"	3/8"	1/2"	3/4"	1"
486 code	486008	486010	486015	486020	486025
484 code	484002	484003	484004	484005	484006
483 code	483002	483003	483004	483005	483006

Y-strainers - 800 lbs

2014/68/EU Directive N°1115 - Risk category III / module H - A105N carbon steel body - F316 screen - Mesh 0,8 mm - With draining cap - PS: 136 bar - TS: -29°C/+425°C.

1115 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

232 - Welding (SW) **234 - Threaded** (NPT) **231 - Threaded** (BSP)

NPS	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
232 code	232008	232010	232015	232020	232025	232032	232040	232050
234 code	234002	234003	234004	234005	234006	234007	234008	234009
231 code	231002	231003	231004	231005	231006	231007	231008	231009

Excluded from 2014/68/EU Directive (article 4, §3) - F316 stainless steel body - Mesh 0,8 mm - With draining cap - PS: 132 bar - TS -49°C/+538°C.

3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

239 - Threaded (NPT)

NPS	1/4"	3/8"	1/2"	3/4"	1"
code	239002	239003	239004	239005	239006

Carbon steel A216WCB - Trim 8

2014/68/EU Directive N°0036 - Risk category III / module H - API Spec Q1 & API 6D-0398 (except globe valves and Y-strainers) - A216WCB cast steel body & bonnet - TRIM 8 - Bolted bonnet & gland pack - PS: 20 bar (ANSI 150), 50 bar (ANSI 300) - TS: -29°C/+425°C -
⚠ **Impact test available acc. to delivery.**

Q1 | 6D 0398 | NACE MR0175 | CE 0036 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

Gate valves

143 - Flanged RF ANSI 150

A216WCB + 13Cr gate - F6a stem - A105 + Stellite® Gr.6 seat - Rising stem & non rising handwheel up to 14", with gearbox above.

FIRE SAFE

NPS	2"	2"1/2	3"	4"	5"	6"	8"	10"	12"	14"
face to face	178	191	203	229	254	267	292	330	356	381
code	143050	143065	143080	143100	143125	143150	143200	143250	143300	143350

NPS	16"	18"	20"	24"
face to face	406	432	457	508
code	143400	143450	143500	143600

144 - Flanged RF ANSI 300

A216WCB + 13Cr gate - F6a stem - A105 + Stellite® Gr.6 seat - Rising stem & non rising handwheel up to 14", with gearbox above.

FIRE SAFE

NPS	2"	3"	4"	6"	8"	10"	12"	14"	16"
face to face	216	283	305	403	419	457	502	762	838
code	144050	144080	144100	144150	144200	144250	144300	144350	144400

not on stock, on request.

Globe valves

443 - Flanged RF ANSI 150

A105 + 13Cr globe - F6a stem - A216WCB + Stellite® Gr.6 seat - Rising stem & handwheel.

NPS	2"	3"	4"	6"	8"	10"	12"
face to face	203	241	292	406	495	622	698
code	443050	443080	443100	443150	443200	443250	443300

444 - Flanged RF ANSI 300

A105 + 13Cr globe - F6a stem - A216WCB + Stellite® Gr.6 seat - Rising stem & handwheel.

NPS	2"	3"	4"	6"	8"	10"	12"
face to face	267	318	356	444	559	622	711
code	444050	444080	444100	444150	444200	444250	444300

Swing check valves

373 - Flanged RF ANSI 150

A216WCB + 13Cr swing plate - A105 + Stellite® Gr.6 seat.

NPS	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"
face to face	203	241	292	330	356	495	622	698	787	864
code	373050	373080	373100	373125	373150	373200	373250	373300	373350	373400

374 - Flanged RF ANSI 300

A216WCB + 13Cr swing plate - A105 + Stellite® Gr.6 seat.

NPS	2"	3"	4"	6"	8"	10"	12"	14"	16"
face to face	267	318	356	444	533	622	711	838	864
code	374050	374080	374100	374150	374200	374250	374300	374350	374400

not on stock, on request.

Cast steel valves

Y-strainer

243 - Flanged RF ANSI 150

F304 screen - Mesh 1,5 mm (except 2": 1 mm).

NPS	2"	3"	4"	6"	8"	10"	12"	14"	16"
face to face	203	241	292	406	495	622	699	787	914
code	243050	243080	243100	243150	243200	243250	243300	243350	243400

244 - Flanged RF ANSI 300

F304 screen - Mesh 1,5 mm (except 2": 1 mm).

NPS	2"	3"	4"	6"	8"	10"	12"	14"	16"
face to face	267	318	356	444	559	622	711	838	864
code	244050	244080	244100	244150	244200	244250	244300	244350	244400

not on stock, on request.

Carbon steel A216WCB - TRIM 5

2014/68/EU Directive N°0036 - Risk category III / module H - API Spec Q1 & API 6D-0398 (except globe valves) - Fire safe API 6FA - A216WCB cast steel body & bonnet - TRIM 5 - Bolted bonnet & gland pack - PS: 20 bar (ANSI 150), 50 bar (ANSI 300) - TS: -29°C/+425°C -
⚠ **Impact test available acc. to delivery.**

FIRE SAFE · 6D 0398 · NACE MR0175 · CE 0036 · 3.1 see p. 22 · Compatible ATEX ZONE no source of ignition

Gate valve

145 - Flanged RF ANSI 150

A216WCB + Stellite® Gr.6 gate - F6a stem - A105 + Stellite® Gr.6 seat - Rising stem & non-rising handwheel up to 14", with gearbox above.

NPS	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
face to face	178	203	229	267	292	330	356	381	406	432	457
code	145050	145080	145100	145150	145200	145250	145300	145350	145400	145450	145500

149 - Flanged RF ANSI 300

A216WCB + Stellite® Gr.6 gate - F6a stem - A105 + Stellite® Gr.6 seat - Rising stem & non-rising handwheel up to 14", with gearbox above.

NPS	2"	3"	4"	6"	8"	10"	12"
face to face	216	283	305	403	419	457	502
code	149050	149080	149100	149150	149200	149250	149300

not on stock, on request.

Check valves

Piston

2014/68/EU Directive N°0497 - Risk category III / module H - B62 Bronze body - CW614N Brass union cap - F316L seat - PS: 25 bar - TS: -10°C/+180°C.

CE 0497

350 - Bronze - Metal-metal tightness BSP

354 - Bronze - PTFE tightness BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
350 code	350002	350003	350004	350005	350006	350007	350008	350009
354 code	354002	354003	354004	354005	354006	354007	354008	354009

2014/68/EU Directive N°0035 - Risk category II / module H - CF8M body & piston - PTFE seat - PS: 50 bar - TS: -20°C/+200°C.

CE 1935 · CE 0035 · 3.1 see p. 22 · Compatible ATEX ZONE no source of ignition

FOOD

325 - Stainless steel BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
face to face	57	57	61	70	86	100	111	138	170	195
code	325002	325003	325004	325005	325006	325007	325008	325009	325010	325011

ZETKAMA

Additional delivery time 3-5 days

2014/68/EU Directive N°0062 - Risk category III / module H - Flanged RF PN16 - EN 558 series 27 - GG25 body - Stainless steel disc - PS: 16 bar - TS: -10°C/+300°C.

CE 0062 | 3.1 see p. 22

STEAM

6116X - Cast iron

Ø	15	20	25	32	40	50	65	80	100	125	150	200
face to face	130	150	160	180	200	230	290	310	350	400	480	600
code	6116X015	6116X020	6116X025	6116X032	6116X040	6116X050	6116X065	6116X080	6116X100	6116X125	6116X150	6116X200

Anti-pollution - Water

BAYARD

Excluded from 2014/68/EU directive (article 1, §2.b) - Flanged RF PN10/16 - EN 558 series 1 - Ductile iron body & cap - Epoxy coated - Bronze inner part - EPDM gasket - Includes 2 tapping valves 1/2" - PS: 16 bar - TS: -10°C/+60°C.

NF ANTI-POLLUTION | ACS Drinking water

346 - Ductile iron

DN	40/50	60/65	80	100
face to face	230	290	310	350
code	346050	346065	346080	346100

Spring - All positions

Excluded from 2014/68/EU Directive (article 4, §3) - Stainless steel body & disc - FKM seat - PS: 16 bar - TS: -10°C/+150°C.

327 - Full stainless steel F304 BSP
326 - Full stainless steel F316 BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
face to face	66	66	66	72	83	105	115	125	145	162,5	189,5
327 code	327002	327003	327004	327005	327006	327007	327008	327009	327010	327011	327012
326 code	326002	326003	326004	326005	326006	326007	326008	326009	326010	326011	326012

2017/68/EU Directive N°0035 - Risk category II / module H - CF8M body & disc - RTFE seat - TS: -20°C/+200°C - PS: see table.
⚠ **Steam up to 14 bar max.**

CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

329 - Stainless steel BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	63	63	63	63	63	63	63	40
code	329002	329003	329004	329005	329006	329007	329008	329009

FOOD

2014/68/EU Directive N°0035 - Risk category II / module H - CF8M body - F316 disc - Metal-metal tightness - PTFE body seats - ACS up to 2" - PS: 63 bar - TS: -20°C/+200°C.

ACS Drinking water | CE 1935 | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

380 - 3 piece body BSP
384 - 3 piece body NPT
381 - 3 piece body BW
382 - 3 piece body TSW
381 ISO - 3 piece body BW ISO

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
380 code	380002	380003	380004	380005	380006	380007	380008	380009	380010	380011	380012
384 code	384002	384003	384004	384005	384006	384007	384008	384009	-	-	-
381 code	381008	381010	381015	381020	381025	381032	381040	381050	381065	381080	381100
382 code	382008	382010	382015	382020	382025	382032	382040	382050	382065	382080	382100
381 ISO code	381ISO008	381ISO010	381ISO015	381ISO020	381ISO025	381ISO032	381ISO040	381ISO050	381ISO065	381ISO080	-

383 - Foot valve - With F316 strainer basket BSP

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	383003	383004	383005	383006	383007	383008	383009	383010	383011	383012

Wafer spring - All positions

2014/23/EU Directive N°0036 - Risk category II / module A2 - EN 558 series 49 - CF8M body - F316 disc - Metal-metal tightness - PS: 40 bar - TS: -20°C/+200°C.

CE 0036 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

390 - Stainless steel - S-First

Between flanges PN10/16/25/40 & ANSI 150 & 300

DN	15	20	25	32	40	50	65	80	100
face to face	16	19	21	27	31	40	46	50	60
code	390015	390020	390025	390032	390040	390050	390065	390080	390100

FOOD

2014/68/EU Directive N°0035 up to DN100, N°0062 above - Risk category III / module H - CF8M body - F316 disc - Metal-metal tightness - PS: 40 bar - TS: -20°C/+200°C. ⚠ **Steam up to 14 bar max.**

CE1935 | CE | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

386 - Stainless steel

Between flanges PN10/16/25/40 up to DN100, PN40 above.

DN	15	20	25	32	40	50	65	80	100	125	150	200
face to face	16	19	22	28	31,5	40	46	49	60	90	106	140
code	386015	386020	386025	386032	386040	386050	386065	386080	386100	386125	386150	386200

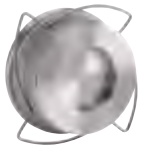
FOOD

2014/68/EU Directive N°0408 - Risk category II / modules A2+C2 - F316 body & disc - Metal-metal tightness - PS: 40 bar - TS: -60°C/+300°C.

CE1935 | CE 0408 | 3.1 see p. 22

387 - Stainless steel - High temperature

Between flanges PN40



DN	15	20	25	32	40	50	65	80	100
face to face	16,5	20	22	28	32	40	46	50	60
code	387015	387020	387025	387032	387040	387050	387065	387080	387100

Swing

2014/68/EU Directive N°0036 - Risk category II / module A2 - CF8M body & plate - Metal-metal tightness - PS: 16 bar - TS: -25°C/+180°C - ⚠ **Not suitable for pulsatory pace - Max. speed 3m/sec.**

CE 0036 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

320 - Stainless steel BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	320002	320003	320004	320005	320006	320007	320008	320009

Excluded from 2014/68/EU Directive (article 4, §3) - GG25 body & plate - Flanged RF PN16 - DIN 3202 F6 - PS: 16 bar - ⚠ **Not suitable for pulsatory pace - Max. speed 3m/sec.**

3.1 see p. 22

360 - Cast iron - Metal seat

TS: -10°C/+120°C.

362 - Cast iron - EPDM seat

TS: -10°C/+80°C.

DN	40	50	65	80	100	125	150	200	250	300
face to face	180	200	240	260	300	350	400	500	600	700
360 code	360040	360050	360065	360080	360100	360125	360150	360200	360250	360300
362 code	362040	362050	362065	362080	362100	362125	362150	362200	362250	362300

Wafer swing - Single plate

Excluded from 2014/68/EU Directive (article 4, §3) - Between flanges PN16 and ANSI 150 from DN100 to DN400 -
PS: 16 bar up to DN200, 10 bar above - ⚠ **Not suitable for pulsatory pace - Max. speed 3m/sec.**

3.1 see p. 22

364 - Carbon steel - EPDM gasket

TS: -10°C/+110°C.

DN	40	50	65	80	100	125	150	200	250	300
face to face	14	14	14	14	18	18	20	22	26	32
code	364040	364050	364065	364080	364100	364125	364150	364200	364250	364300

DN	350	400	450	500	600
face to face	38	44	50	56	62
code	364350	364400	364450	364500	364600

351 - Carbon steel - NBR gasket

TS: -10°C/+80°C.

DN	40	50	65	80	100	125	150	200	250	300
face to face	14	14	14	14	18	18	20	22	26	32
code	351040	351050	351065	351080	351100	351125	351150	351200	351250	351300

2014/68/EU Directive N°0035 - Risk category III / module H - Between flanges PN16 and ANSI 150 from DN100 to DN400 -
PS: 16 bar up to DN200, 10 bar above - ⚠ **Not suitable for pulsatory pace - Max. speed 3m/sec.**

CE 0035 — 3.1 see p. 22

365 - Stainless steel CF8M - FKM gasket

TS: -10°C/+180°C.

DN	40	50	65	80	100	125	150	200	250	300
face to face	14	14	14	14	18	18	20	22	26	32
code	365040	365050	365065	365080	365100	365125	365150	365200	365250	365300

DN	350	400	450	500	600
face to face	38	44	50	56	62
code	365350	365400	365450	365500	365600

Wafer swing - Dual plate

2014/68/EU Directive N°0035 - Risk category III / module H - Lloyd's Register Type Approval for marine applications - Between flanges PN10/16 and ANSI 150 - EN 558 series 50 - GG25 body - PS: 16 bar up to DN300, 10 bar above -
⚠ **Not suitable for pulsatory pace.**

LR — CE 0035 — 3.1 see p. 22

370 - NBR gasket - GGG40 plates

TS: -10°C/+80°C.

DN	40	50	65	80	100	125	150	200	250	300
face to face	43	54	54	57	64	70	76	95	108	143
code	370040	370050	370065	370080	370100	370125	370150	370200	370250	370300

DN	350	400	450	500	600
face to face	184	191	203	213	222
code	370350	370400	370450	370500	370600

371 - EPDM gasket - CF8M plates

TS: -10°C/+110°C.

DN		50	65	80	100	125	150	200	250	300
face to face		54	54	57	64	70	76	95	108	143
code	-	371050	371065	371080	371100	371125	371150	371200	371250	371300

DN	350	400	450	500	600
face to face	184	191	203	213	222
code	371350	371400	371450	371500	371600

2014/68/EU Directive N°0035 - Risk category III / module H - Lloyd's Register Type Approval for marine applications - Between flanges PN10/16 and ANSI 150. - EN 558 series 50 - GG25 body - PS: 16 bar -
⚠ **Not suitable for pulsatory pace.**

0035 | 3.1 see p. 22

375 - EPDM gasket - CF8M plates

TS: -10°C/+110°C.

DN	50	65	80	100	125	150	200	250	300
face to face	54	54	57	64	70	76	95	108	143
code	375050	375065	375080	375100	375125	375150	375200	375250	375300

2014/68/EU Directive N°0035 - Risk category III / module H - Lloyd's Register Type Approval for marine applications - Between flanges PN10/16 and ANSI 150. - EN 558 series 50 - GGG40 body - PS: 16 bar -
⚠ **Not suitable for pulsatory pace.**

0035 | 3.1 see p. 22

379 - NBR gasket - Aluminium bronze plates

TS: -10°C/+80°C.

DN	50	65	80	100	125	150	200	250	300	350
face to face	54	54	57	64	70	76	95	108	144	184
code	379050	379065	379080	379100	379125	379150	379200	379250	379300	379350

2014/68/EU Directive N°0035 - Risk category III / module H - Between flanges PN10/16 or PN25 and ANSI 150 - EN 558 series 50 - CF8M body - PS: 16 bar up to DN300, 10 bar above - ⚠ **Not suitable for pulsatory pace.**

0035 | 3.1 see p. 22

372 - FKM gasket - CF8M plates

TS: -10°C/+180°C.

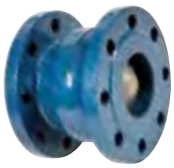
DN	50	65	80	100	125	150	200	250	300
face to face	54	54	57	64	70	76	95	108	143
code	372050	372065	372080	372100	372125	372150	372200	372250	372300

DN	350	400	450	500	600
face to face	184	191	203	213	222
code	372350	372400	372450	372500	372600

Nozzles - Cast iron

Excluded from 2014/68/EU Directive (article 1, §2.b & article 4, §3) - GG25 body - Epoxy coated - EPDM gasket - All positions - PS: 16 bar (except for 366: 16 bar up to DN300, 10 bar above).

3.1 see p. 22



369 - Flanged PN16

F304 disc - TS: -10°C/+110°C.

DN	50	65	80	100	125	150	200	250	300
face to face	100	120	135	165	200	231	288	354	395
code	369050	369065	369080	369100	369125	369150	369200	369250	369300

366 - Flanged PN16 - For drinking water

GGG40 disc - TS: -10°C/+120°C.

DN	50	65	80	100	125	150	200	250	300
face to face	100	120	140	165	195	230	290	355	400
code	366050	366065	366080	366100	366125	366150	366200	366250	366300

Up to DN600 on request

Ball - Stainless steel

Excluded from 2014/68/EU (article 4, §3) - Full F316 & parts - FKM coated aluminium ball - PS: 16 bar.

339 - Threaded BSP

TS: 0°C/+150°C.

DN	1"1/4	1"1/2	2"
face to face	175	190	210
code	339007	339008	339009

Ball - Ductile iron

Excluded from 2014/68/EU (article 4, §3) – GGG40 epoxy-coated body – PS: 10 bar.

3.1
see p. 22

331 - Threaded BSP

TS: -10°C/+90°C.
NBR ball up to 1"1/2, NBR coated aluminium ball above.

Ø	1"	1"1/4	1"1/2	2"	2"1/2	3"
face to face	141	141	150	175	214	248
code	331006	331007	331008	331009	331010	331011

335 - Threaded BSP

TS: -10°C/+70°C.
NBR coated aluminium ball - According to EN 12050-4 for lifting stations.

Ø	1"	1"1/4	1"1/2	2"	2"1/2	3"
face to face	141	141	150	175	214	248
code	335006	335007	335008	335009	335010	335011

332 - Flanged RF PN10 - DIN 3202 F6

TS: -10°C/+90°C.
NBR ball for DN40, NBR coated aluminium ball up to DN80, NBR coated steel ball above.

DN	40	50	65	80	100	125	150	200	250	300
face to face	178	200	240	260	300	350	400	500	600	700
code	332040	332050	332065	332080	332100	332125	332150	332200	332250	332300

336 - Flanged RF PN10 - DIN 3202 F6

TS: -10°C/+70°C.
NBR coated aluminium ball up to DN200, NBR coated ductile iron ball above - According to EN 12050-4 for lifting stations.

DN	40	50	65	80	100	125	150	200	250	300	350	400
face to face	180	200	240	260	300	350	400	500	600	700	800	900
code	336040	336050	336065	336080	336100	336125	336150	336200	336250	336300	336350	336400

Foot valves

Excluded from 2014/68/EU Directive (article 1, §2.b & article 4, §3) - GG25 body - Epoxy coated - Carbon steel strainer - All positions.

368 - Flanged PN16 - Check valve 369 with strainer basket

TS: -10°C/+110°C.

DN	50	65	80	100	125	150	200	250
code	368050	368065	368080	368100	368125	368150	368200	368250

363 - Flanged PN16 - Check valve 366 with strainer basket

TS: -10°C/+120°C.

DN	50	65	80	100	125	150	200	250	300
code	363050	363065	363080	363100	363125	363150	363200	363250	363300

Strainer baskets

391 - Full stainless steel F316 BSP

TS: 0°C/+200°C.

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
mesh (mm)	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,6	1,6	1,6
391 code	391003	391004	391005	391006	391007	391008	391009	391010	391011	391012

367 - Flanged PN10/16 - Galvanized carbon steel

TS: -20°C/+200°C - Mesh 6 mm.

376 - Flanged PN10/16 - Stainless steel F304

TS: -20°C/+200°C - Mesh 6 mm.

DN	50	65	80	100	125	150	200	250	300
367 code	367050	367065	367080	367100	367125	367150	367200	367250	367300
376 code	376050	376065	376080	376100	376125	376150	376200	376250	376300

Threaded

2014/68/EU Directive N°1115 - Risk category III / module H - A105N carbon steel body - F316 screen - Mesh 0,8 mm - With draining cap - PS: 136 bar - TS: -29°C/+425°C.

CE 1115 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

232 - Carbon steel (SW) 234 - Carbon steel (NPT) 231 - Carbon steel (BSP)

NPS	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
232 code	232008	232010	232015	232020	232025	232032	232040	232050
234 code	234002	234003	234004	234005	234006	234007	234008	234009
231 code	231002	231003	231004	231005	231006	231007	231008	231009

FOOD

2014/68/EU Directive N°0036 - Risk category II / module A2 - CF8M body - F316 screen - Mesh 1 mm - With draining cap - PS: 16 bar - TS: -50°C/+200°C.

CE 1935 | CE 0036 | 3.1 see p. 22

230 - Stainless steel (BSP)

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	230002	230003	230004	230005	230006	230007	230008	230009

Excluded from 2014/68/EU Directive (article 4, §3) - F316 stainless steel body - Mesh 0,8 mm - With draining cap - PS: 132 bar - TS -49°C/+538°C.

3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

239 - Stainless steel (NPT)

Ø	1/4"	3/8"	1/2"	3/4"	1"
code	239002	239003	239004	239005	239006

Flanged

Excluded from 2014/68/EU Directive (article 4, §3) - Flanged RF PN10/16 up to DN150, PN10 or PN16 above - EN 558 series 1 - Stainless steel screen - With draining cap - PS: 10 bar for PN10 strainers, 16 bar for PN16 strainers (except for 220 DN250 and DN300, PS: 10 bar).

3.1 see p. 22

221 - Cast iron

F304 screen - Blue epoxy paint - TS: -10°C/+120°C.

DN	15	20	25	32	40	50	65	80	100	125	150
mesh (mm)	1	1	1	1	1	1	1	1	1,3	1,3	1,3
face to face	130	150	160	180	200	230	290	310	350	400	480
PN16 code	221015	221020	221025	221032	221040	221050	221065	221080	221100	221125	221150

DN	200	250	300
mesh (mm)	1,6	1,6	1,6
face to face	600	730	850
PN10 code	221201	221251	221301
PN16 code	221200	221250	221300

220 - GGG50 ductile iron body (DN50 to DN300) - GG25 cast iron body (others)

F304 screen - Grey epoxy paint - TS: -10°C/+120°C.

DN	15	20	25	32	40	50	65	80	100	125	150
mesh (mm)	1,2	1,2	1,2	1,2	1,2	1,5	1,5	1,5	1,5	1,5	2
face to face	130	150	160	180	200	230	290	310	350	400	480
PN16 code	220015	220020	220025	220032	220040	220050	220065	220080	220100	220125	220150

DN	200	250	300	350	400	450	500	600
mesh (mm)	2,5	3	3	1,5	1,5	5	5	5
face to face	600	730	850	980	1100	1200	1250	1450
PN10 code	220201	220250	220300	220350	220400	220450	220500	220600
PN16 code*	220200	220251	220301	-	-	-	-	-

*220251 and 220301 are flanged PN16, but withstand a pressure of 10 bar.

233 - GG25 cast iron (up to DN300), GGG50 ductile iron above - Water use

F304 screen & draining cap - Blue epoxy paint - TS: -10°C/+80°C.

DN	40	50	65	80	100	125	150	.../10: flanges PN10 200/10	.../16: flanges PN16 200/16	NEW 250/10	NEW 250/16	300/10	300/16	350/10	400/10
mesh (mm)	1,5	1,5	1,5	1,5	2	2	2	2	2	2	2	2	2	3	3
face to face	200	230	290	310	350	400	480	600	600	730	730	850	850	980	1100
code	233040	233050	233065	233080	233100	233125	233150	233200	233201	233250	233251	233300	233301	233350	233400
code with draining valve *	233043	233053	233063	233083	233103	233123	233153	233203	233204	233253	233254	233303	233304	-	-

* Draining valve delivered separately.

STEAM

2014/68/EU Directive N°0062 - Risk category III / module H - Flanged PN16 - DIN 3202 F1 - GG25 body - F304 screen - With draining cap - PS: 16 bar - TS: -10°C/+300°C - ⚠ **Steam up to 10 bar max.**

CE 0062 | 3.1 see p. 22

236 - Cast iron - High temperature

ZETKAMA

DN	15	20	25	32	40	50	65	80	100	125	150	200
mesh (mm)	1	1	1	1	1	1	1,25	1,25	1,6	1,6	1,6	1,6
face to face	130	150	160	180	200	230	290	310	350	400	480	600
code	236015	236020	236025	236032	236040	236050	236065	236080	236100	236125	236150	236200

2014/68/EU Directive N°0036 - Risk category III / module H - Flanged RF PN40 - EN 558 series 1 - A216WCB body - F304 screen - PS: 40 bar - TS: -29°C/+425°C.

CE 0036 | 3.1 see p. 22

235 - Carbon steel - High temperature

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
mesh (mm)	1	1	1	1	1	1	1,25	1,25	1,6	1,6	1,6	1,6	4	4
face to face	130	150	160	180	200	230	290	310	350	400	480	600	730	650
code	235015	235020	235025	235032	235040	235050	235065	235080	235100	235125	235150	235200	235250	235300

GAS

2014/68/EU Directive N°0062 - Risk category III - Flanged RF PN16 - EN 558 series 1 - Carbon steel P265 GH body - F304 screen - PS: 16 bar - TS: -20°C/+400°C.

CE 0062 | 3.1 see p. 22

821F - Carbon steel - Gas service

ZETKAMA

DN	50	65	80	100	125	150	200
mesh (mm)	0,15	0,15	0,15	0,15	0,15	0,15	0,15
face to face	230	290	310	350	400	480	600
code	418307	418308	418309	418310	418311	418312	418313

FOOD

2014/68/EU Directive N°0035 - Risk category II / module H - Bureau Veritas Marine recognition MODE II - Flanged RF PN16 - EN 558 series 1 - CF8M body - F304 screen - PS: 16 bar - TS: -20°C/+200°C.

CE1935 | MODE II | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

240 - Stainless steel

DN	15	20	25	32	40	50	65	80	100	125	150	200
mesh (mm)	0,8	0,8	0,8	0,8	0,8	0,8	1	1	3	3	3	3
face to face	130	150	160	180	200	230	290	310	350	400	480	600
code	240015	240020	240025	240032	240040	240050	240065	240080	240100	240125	240150	240200

2014/68/EU Directive N°0035 - Risk category II / module H - Bureau Veritas Marine recognition MODE II - Flanged RF PN16 - EN 558 series 1 - CF8M body - F316 screen - TFM 4215 gasket - PS: 16 bar - TS: -40°C/+200°C.

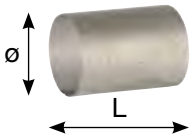
MODE II | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

240L - Stainless steel - Low temperature

DN	15	20	25	32	40	50	65	80	100	125	150	200
mesh (mm)	0,8	0,8	0,8	0,8	0,8	0,8	1	1	3	3	3	3
face to face	130	150	160	180	200	230	290	310	350	400	480	600
240L code	240L015	240L020	240L025	240L032	240L040	240L050	240L065	240L080	240L100	240L125	240L150	240L200

Stainless steel screens for Y-strainers

For threaded Y-strainers



98014 - Screens for stainless steel Y-strainer fig. 230 - Mesh 1 mm, see page 163.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"
Ø x L	19 x 29	19 x 29	19 x 29	23,5 x 40,5	33 x 49	36 x 54	44 x 64	54 x 76
code	9801410	9801410	9801410	9801411	9801412	9801413	9801415	9801417

Please note: for strainers bought before 2022, please consult for codes and prices.

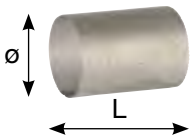
NEW

98014 - Screens for stainless steel Y-strainer fig. 230 - Mesh 250 µm, see page 163.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"
Ø x L	19 x 29	19 x 29	19 x 29	23,5 x 40,5	33 x 49	36 x 54	44 x 64	54 x 76
code	9801419	9801419	9801419	9801420	9801421	9801422	9801423	9801424

Not suitable for strainers bought before 2022.

For flanged Y-strainers



98014/98030 - Screens for cast iron Y-strainer fig. 220, see page 163.

DN	15	20	25	32	40	50	65	80	100	125	150	200
Ø x L	16 x 46	22 x 60	28 x 72	35 x 86	41 x 101	54 x 79	69 x 100	85 x 119	105 x 152	132 x 179	159 x 202	212 x 265
code	9801460	9801461	9801462	9801463	9801464	9803040	9803041	9803042	9803043	9803044	9803045	9803046

DN	250	300	350	400	500	600
Ø x L	258 x 344	307 x 420	353 x 540	403 x 650	510 x 683	610 x 779
code	9803047	9803048	9803049	9803050	9803052	9803053

98027 - Screens for cast iron Y-strainer fig. 233, see page 164.

DN	40	50	65	80	100	125	150	200	250	300
Ø x L	47 x 83	57 x 97	76 x 119	91 x 139	112 x 157	137 x 194	163 x 234	218 x 311	263 x 359	317 x 409
code	9802700	9802701	9802702	9802703	9802704	9802705	9802706	9802707	9802708	9802709

98024 Screens for carbon steel Y-strainer fig. 235, see page 164.

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
Ø x L	48 x 22	59 x 22	75 x 29	85 x 35	97 x 42	105 x 52	121 x 58	150 x 75	175 x 104	205 x 124	240 x 150	310 x 190	243 x 390	295 x 458
code	9802430	9802431	9802432	9802433	9802434	9802435	9802436	9802437	9802438	9802439	9802440	9802441	9802442	9802443

98011 - Screens for carbon steel Y-strainer fig. 236, see page 164.

DN	15	20	25	32	40	50	65	80	100	125	150	200
Ø x L	23x56	28x68	36x82	42x98	50x114	61,5x119	78,5x134	89,5x14	109x169	137,5x199	160x224	210x284
code	9801130	9801131	9801132	9801133	9801134	9801135	9801136	9801137	9801138	9801139	9801140	9801141

98044 - Screens for stainless steel Y-strainer fig. 240 - Mesh 0,8 to 3 mm, see page 164.

DN	15	20	25	32	40	50	65	80	100	125	150	200
Ø x L	19 x 57	24 x 55	27 x 87	40 x 82	43 x 99,5	54 x 102	65 x 135	85 x 150	103 x 160	128 x 221	154 x 250	208 x 300
code	9804400	9804401	9804402	9804403	9804404	9804405	9804406	9804407	9804408	9804409	9804410	9804411

NEW

98049 - Screens for stainless steel Y-strainer fig. 240 - Mesh 250 µm, see page 164.

DN	15	20	25	32	40	50	65	80	100	125	150	200
Ø x L	19 x 57	24 x 55	27 x 87	40 x 82	43 x 99,5	54 x 102	65 x 135	85 x 150	103 x 160	128 x 221	154 x 250	208 x 300
code	9804900	9804901	9804902	9804903	9804904	9804905	9804906	9804907	9804408	9804909	9804910	9804911

Rubber expansion joints for HVAC & water distribution

Threaded

Excluded from 2014/68/EU Directive (article 4, §3) - Lloyd's Register Type Approval for marine applications - Galvanized cast iron union fittings - Nylon reinforced liner - PS: 16 bar - TS: -10°C/+100°C.

1504 - EPDM double wave BSP

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
length (mm)	200	200	200	200	200	200	240	240
code	1504004	1504005	1504006	1504007	1504008	1504009	1504010	1504011

Flanged

Excluded from 2014/68/EU Directive (article 4, §3) - Lloyd's Register Type Approval for marine applications - Swiveling flanges - Galvanized steel flanges - Nylon reinforced liner - PS: 16 bar for PN16 expansion joints, 10 bar for PN10 expansion joints - TS: -10°C/+100°C.

1501 - EPDM - Flanged PN10/16 up to DN150, PN10 above
1502 - EPDM - Flanged PN16

DN	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
length (mm)	95	95	105	115	130	135	170	180	205	240	260	266	266	200	200	250
1501 code	1501032	1501040	1501050	1501065	1501080	1501100	1501125	1501150	1501200	1501250	1501300	1501350	1501400	1501450	1501500	1501600
1502 code	-	-	-	-	-	-	-	-	1502200	1502250	1502300	-	-	-	-	-

1505 - EPDM - Flanged PN10/16 up to DN150, PN10 above

Length 130 mm.

DN	32	40	50	65	80	100	125	150	200	250	300
length (mm)	130	130	130	130	130	130	130	130	130	130	130
code	1505032	1505040	1505050	1505065	1505080	1505100	1505125	1505150	1505200	1505250	1505300

Excluded from 2014/68/EU Directive (article 4, §3) - Swiveling flanges - Galvanized steel flanges - Nylon reinforced liner - PS: 16 bar for PN16 expansion joints, 10 bar for PN10 expansion joints - TS: -10°C/+80°C.

1503 - NBR - Flanged PN10/16 up to DN150, PN10 above

DN	32	40	50	65	80	100	125	150	200
length (mm)	95	95	105	115	130	135	170	180	205
code	1503032	1503040	1503050	1503065	1503080	1503100	1503125	1503150	1503200

1506 - NBR - Flanged PN10/16 up to DN150, PN10 above

Length 130 mm.

DN	32	40	50	65	80	100	125	150	200
length (mm)	130	130	130	130	130	130	130	130	130
code	1506032	1506040	1506050	1506065	1506080	1506100	1506125	1506150	1506200

Option

Steel expansion limiter - Flanged PN10 & PN16

For 1501&1503 – supplied with 2 tie rods & 4 plates up to DN300 or 4 tie rods & 8 plates above.
For 1502 – supplied with 2 tie rods & 4 plates. For 1505 &1506, see page 168. ⚠ **Expansion joint & flanges not included.**

DN	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
PN10 codes for 1501&1503	9860407	9860408	9860409	9860410	9860411	9860412	9860413	9860414	9860415	9860416	9860417	9860418	9860419	9860420	9860421	9860422
PN16 codes for 1502	-	-	-	-	-	-	-	-	9860315	9860316	9860317	-	-	-	-	-

Rubber expansion joints for industry - Teguflex®

2014/68/EU Directive N°0056 - Risk category III / module H - ABS, DNV-GL Type Approval for marine applications available depending on figure - Flanged PN10/16 up to DN150, PN10 above - Swiveling flanges - Dichromate zinc plated steel flanges (except 1560 & 1565: see description) - Integrated sealing surface with steel wire core - Synthetic fiber reinforcement - Standard length: 130 mm - Axial allowable movement: -30mm/+20mm - Lateral allowable movement: -/+20mm - PS: 16 bar up to DN150; 10 bar above (except 1567).

CE 0056

1560 - EPDM liner

EPDM external cover - TS: -35°C/+90°C.
Main applications: **Water** / Hot water, cooling water with salt solutions, chlorine solutions, esters and ketones.

DN	32	40	50	65	80	100	125	150	200	250	300
steel flanges code	1560032	1560040	1560050	1560065	1560080	1560100	1560125	1560150	1560200	1560250	1560300
F316 flanges code	-	1560041	1560051	1560066	1560081	1560101	1560126	1560151	1560201	-	-

1561 - ACS EPDM liner

EPDM external cover - TS: -25°C/+90°C.
Main applications: **Drinkable water.**

DN	32	40	50	65	80	100	125	150	200	250	300
code	1561032	1561040	1561050	1561065	1561080	1561100	1561125	1561150	1561200	1561250	1561300

1562 - High temperature EPDM liner

EPDM external cover - TS: -35°C/+130°C.
Main applications: **Steam** / Steam and hot air up to 130°C, hot water, cooling/heating water.

DN	32	40	50	65	80	100	125	150	200	250	300
code	1562032	1562040	1562050	1562065	1562080	1562100	1562125	1562150	1562200	1562250	1562300

1563 - ECO / Epichlorhydrin liner

ECO external cover - TS: -25°C/+90°C.
Main applications: **Oil** / Water, saline solutions, alkalis, mineral oil, vegetable, oils aerosols, propane & butane gas.

DN	32	40	50	65	80	100	125	150	200	250	300
code	1563032	1563040	1563050	1563065	1563080	1563100	1563125	1563150	1563200	1563250	1563300

1564 - CSM / Chlorosulphonated Polyethylene liner

CR external cover - TS: -25°C/+90°C.
Main applications: **Chemicals** / Strong and concentrated acids, compressed air that bears oil aerosols.

DN	32	40	50	65	80	100	125	150	200	250	300
code	1564032	1564040	1564050	1564065	1564080	1564100	1564125	1564150	1564200	1564250	1564300

1566 - SBR / Styrene Butadiene Rubber liner

CR external cover - TS: -35°C/+90°C.
Main applications: **Abrasion** / Hydraulic abrasive materials, suspended stones, mud, calcium.

DN	50	65	80	100	125	150	200	250	300
code	1566050	1566065	1566080	1566100	1566125	1566150	1566200	1566250	1566300

1568 - HNBR liner

Hydrogenated nitrile external cover - Dichromate zinc plated steel swiveling flanges PN10/16 up to DN150, PN10 above - TS: -25°C/+110°C. Main applications: **Oils**, mixed water/oil, mixed compressed air/oil.

DN	32	40	50	65	80	100	125	150	200	250	300
1568	1568032	1568040	1568050	1568065	1568080	1568100	1568125	1568150	1568200	1568250	1568300

not on stock, on request. Approx. 3 weeks delivery time.

FOOD

1565 - White NBR liner

ECO external cover - Dichromate zinc plated steel flanges or F316 flanges - TS: -25°C/+90°C.
Main applications: **Food** / Food and beverage including fats and oils.

DN	50	65	80	100	125	150	200	250	300
steel flanges code	1565051	1565066	1565081	1565101	1565126	1565151	1565201	1565251	1565301
F316 flanges code	1565050	1565065	1565080	1565100	1565125	1565150	1565200	1565250	1565300

not on stock, on request. Approx. 3 weeks delivery time.

Expansion joints

1567 - FKM liner

FKM external cover - TS: -20°C/+150°C - PS: 16 bar up to DN150, 8 bar above.
Main applications: **Chemical high temperature** / Chemical fluids highly aggressive with high temp. up to 150°C.

DN	50	65	80	100	125	150	200	250	300
code	1567050	1567065	1567080	1567100	1567125	1567150	1567200	1567250	1567300

not on stock, on request. Approx. 6 weeks delivery time.

1560T - EPDM liner - Teflon® inner lining

EPDM external cover - ⚠ **Available movement reduced by 50%** - PS: 6 bar.

DN	40	50	65	80	100	125	150	200
code	1560042	1560052	1560067	1560082	1560102SF	1560127	1560152	1560202

Option

For Teguflex® range, 1505 & 1506 - Steel expansion limiter - Flanged PN10 & PN16

Supplied with 2 tie rods & 4 plates - ⚠ **Expansion joint & flanges not included.**

DN	32	40	50	65	80	100	125	150	200	250	300
PN10 code	9860607	9860608	9860609	9860610	9860611	9860612	9860613	9860614	9860615	9860616	9860617

Stainless steel vacuum support ring

DN	50	65	80	100	125	150	200	250	300
code	9815050	9815065	9815080	9815100	9815125	9815150	9815200	9815250	9815300

Metal expansion joints

AYVAZ

2014/68/EU Directive N°0408 - Risk category II / module A2+C2 - PS: 16 bar - TS: -20°C/+300°C.

CE 0408

1551 - Threaded - With external & internal liner BSP

Aluminium external liner - Steel internal liner - Stainless steel 316 bellow.

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	255	240	265	300	300	300
code	1551004	1551005	1551006	1551007	1551008	1551009

1511 - Welding BW

Steel welding ends - Stainless steel 321 bellow & internal liner.

DN	25	32	40	50	65	80	100	125	150	200	250
length (mm)	185	185	200	270	260	275	310	310	350	330	360
code	1511025	1511032	1511040	1511050	1511065	1511080	1511100	1511125	1511150	1511200	1511250

1521 - Flanged RF PN16

Steel flanges - Stainless steel 321 bellow & internal liner. Painting withstands temperature up to +100°C.

DN	25	32	40	50	65	80	100	125	150	200	250
face to face	105	105	120	150	140	155	220	190	270	275	285
code	1521025	1521032	1521040	1521050	1521065	1521080	1521100	1521125	1521150	1521200	1521250

Rubber-metal pipe connector

Excluded from 2014/68/EU Directive (article 4, §3) - Plain EPDM body - Steel insert flanges - Supplied with screws - PS: 10 bar - TS: -10°C/+100°C.

1509 - EPDM - Between flanges PN10

DN	32	40	50	65	80	100	125	150	200
length (mm)	71	71	71	71	71	71	71	71	71
code	1509032	1509040	1509050	1509065	1509080	1509100	1509125	1509150	1509200

Automation

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ATEX Positioner

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Plastic limit switch boxes

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Actuation set AS-Interface for position detector

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2014/68/EU Directive N°1115 - Risk category II - Face to face DIN 3202-4 M8 - CB491K body - PA66 actuator - PTFE-stainless steel seat - Air supply connections 1/8" - Max. air supply: 8 bar - PS: 16 bar - TS: -10°C/+180°C.

CE 1115 — Ex Zones 1 & 2 on request

ZEUS® - Bronze actuated angle seat valves BSP

1420 - Normally closed
Flow entry above the seat

1422 - Normally closed
Flow entry below the seat

Ø	control head	Kv (m³/h)	face to face	For compressible fluids - Min. air supply 2,5 bar		For liquids - Min. air supply 4,2 bar	
				ΔP max. (bar)	code	ΔP max. (bar)	code
3/8"	40	4,5	65	16	1420203	16	1422203
1/2"	40	5,3	65	16	1420204	16	1422204
1/2"	50	5,7	65	16	1420304	16	1422304
3/4"	50	10,5	75	16	1420305	10	1422305
3/4"	63	10,8	75		-	16	1422405
1"	63	20	90	16	1420406	11	1422406
1"	90	20	90		-	16	1422506
1"1/4	90	29	110	16	1420507	14	1422507
1"1/2	90	46	120	16	1420508	11	1422508
2"	90	59	150	16	1420509		-
2"	110	67	150	16	1420609	10	1422609

1424 - Normally open
Flow entry below the seat

Ø	control head	Kv (m³/h)	face to face	Min. air supply 2 bar	
				ΔP max. (bar)	code
1/2"	50	5,7	65	16	1424304
3/4"	50	10,5	75	16	1424305
1"	63	20	90	16	1424406
1"1/4	63	28,5	110	16	1424407
1"1/2	90	46	120	16	1424508
2"	110	67	150	16	1424609

2014/68/EU Directive N°1115 - Risk category II - Face to face DIN 3202-4 M4 - CF8M body - PA66 actuator - PTFE-stainless steel seat - Air supply connections 1/8" - Max. air supply: 8 bar - PS: 25 bar - TS: -10°C/+180°C.

CE 1115 — Ex Zones 1 & 2 on request

ARÈS® - Stainless steel actuated angle seat valves BSP

1450 - Normally closed
Flow entry above the seat

1454 - Normally closed
Flow entry below the seat

Ø	control head	Kv (m³/h)	face to face	For compressible fluids - Min. air supply 2,5 bar		For liquids - Min. air supply 4,2 bar	
				ΔP max. (bar)	code	ΔP max. (bar)	code
1/2"	50	5,7	85	16	1450304	16	1454304
3/4"	50	10,5	95	16	1450305	10	1454305
3/4"	63	10,5	95		-	16	1454405
1"	63	20	105	16	1450406	11	1454406
1"	90	29	105		-	16	1454506
1"1/4	90	29	120	16	1450507	14	1454507
1"1/2	90	46	130	16	1450508	11	1454508
NEW 2"	110	67	150		-	10	1454609

1452 - Normally open
Flow entry below the seat

Ø	control head	Kv (m³/h)	face to face	Min. air supply 2 bar	
				ΔP max. (bar)	code
1/2"	50	5,7	85	16	1452304
3/4"	50	10,5	95	16	1452305
1"	63	20	105	16	1452406
NEW 1"1/4	63	29	120	16	1452407
NEW 2"	110	67	150	16	1452609

2 mechanical limit switch box for OMAL valves

control head	code
50	985008
63	985009
90	985010
110	985011

NAMUR pad adapter for ZEUS® & ARES® valves

code
985020N

Solenoid pilot MH,
see page 182

2014/68/EU Directive N°1115 - Risk category II - CF8M body - PA66 actuator - PTFE-stainless steel seat - Air supply connections 1/8" - Max. air supply: 8 bar - PS: 25 bar (except 1470: PS: 16 bar) - TS: -10°C/+180°C.

CE 1115 — Ex Zones 1 & 2 on request

ARÈS® - Stainless steel actuated angle seat valve

1470 - Normally closed - Flanged RF PN16
Flow entry below the seat

DN	control head	Kv (m³/h)	face to face	For liquids - Min. air supply 2,5 bar	
				ΔP max. (bar)	code
15	50	5,7	130	16	1470304
20	50	10,5	150	10	1470305
25	63	20	160	11	1470406
32	63	29	180	14	1470507
40	90	46	200	11	1470508
50	110	67	230	10	1470609

1460 - Normally closed
Flow entry below the seat

BW

Ø	control head	Kv (m³/h)	face to face	For liquids - Min. air supply 2,5 bar	
				ΔP max. (bar)	code
1/2"	50	5,7	100	16	1460304
3/4"	50	10,5	115	10	1460305
1"	63	20	130	11	1460406
1"1/4	90	29	145	14	1460507
1"1/2	90	46	160	11	1460508
2"	110	59	175	10	1460609

not on stock, on request.

1480 - Normally closed
Flow entry below the seat

CLAMP

Ø	Ø ferrule	control head	Kv (m³/h)	face to face	For liquids - Min. air supply 2,5 bar	
					ΔP max. (bar)	code
15	25,2	50	3,4	88,9	16	1480304
20	25,2	50	5,7	101,6	16	1480305
25	50,5	63	10,5	114,3	16	1480406
40	50,5	90	29	139,7	14	1480508
50	64	110	46,5	158,8	16	1480609

not on stock, on request.

CF8M body & actuator - PTFE-stainless steel seat - PTFE-FKM gland pack - Orientable head - Air supply connection 1/8" - Max. air supply: 10 bar - Not for gas of group 1 - PS: 16 bar - TS: -10°C/+180°C.

CE

HF - Full stainless steel actuated angle seat valve

BSP

1430 - Normally closed
Flow entry above the seat

1434 - Normally closed
Flow entry below the seat

Ø	Kv (m³/h)	face to face (mm)	For compressible fluids			For liquids		
			max. ΔP (bar)	min. supply (bar)	code	max. ΔP (bar)	min. supply (bar)	code
1/2"	4,7	68	16	3	1430304	16	4,5	1434304
3/4"	9,5	75	16	4	1430305	12	4,5	1434305
1"	18,1	90	16	5,5	1430306	10	4,5	1434406
1"1/4	23,1	112	16	5	1430407A	6	4,5	1434407A
1"1/2	32,9	126	16	6	1430408A	10	4	1434508A
2"	52,8	146	16	6,6	1430509A	6	4	1434509A

CF8M body & actuator - PTFE-stainless steel seat - NBR o-ring - EPDM gland pack - Orientable head - Air supply connection 1/8" - PS: 16 bar - TS: -10°C/+100°C.

HF 32 - Full stainless steel actuated angle seat valve

BSP

1436 - Normally closed
Flow entry below the seat

Ø	Kv (m³/h)	face to face (mm)	For liquids		
			max. ΔP (bar)	min. supply (bar)	code
3/8"	4,7	74	6	5	1436303A
1/2"	4,7	74	6	5	1436304A
3/4"	5,4	84	4	5	1436305A

Solenoid pilot MH,
see page 182

Brass solenoid valves

2014/68/EU Directive - Risk category I - 2014/35/EU Directive - 2/2 way - CW617N brass body - Stainless steel inner parts - NBR membrane / EPDM KTW for ACS valves - Coil insulation class F - T30 connector (except ESM85) - Max. room temp.: +90°C/+60°C (except for VSO 84: +80°C) - PS: 10 bar - TS: -5°C/+80°C (except for ESM 85: +5°C/+80°C), TS for ACS valves: +110°C.

IP 65 CE

ESM 85 - Servo-assisted BSP

Normally closed (opening under tension) - T22 connector - Min. ΔP: 0,3 bar. NEW

Ø	bore (mm)	Kv (m³/h)	230V 50Hz code	24V 50Hz code	24V DC code
3/8"	10	1,86	085001	085011	085051
1/2"	12	2,2	085002	085012	085052
3/4"	20	5,7	085003	085013	085053
1"	25	9,6	085004	085014	085054SE

ESM 86 - Servo-assisted BSP

Normally closed (opening under tension) - Min. ΔP: 0,3 bar.

Ø	bore (mm)	Kv (m³/h)	230V 50Hz code	24V 50Hz code	48V 50Hz code	12V DC code	24V DC code	ACS certified 230V 50Hz code	ACS certified 24V 50Hz code
3/8"	10	1,86	086001	086011	086031	086041	086051	-	-
1/2"	12	2,1	086002	086012	086032	086042	086052	086502	086512
3/4"	20	5,7	086003	086013	086033	086043	086053	086503	086513
1"	25	9,6	086004	086014	086034	086044	086054	086504	086514
1"1/4	32	22	086005	086015	086035	086045	086055	-	-
1"1/2	39	27	086006	086016	086036	086046	086056	-	-
2"	51	35	086007	086017	086037	086047	086057	-	-
2"1/2	65	63	086008	086018	086038	086048	086058	-	-
3"	75	83	086009	086019	086039	086049	086059	-	-

ESM 87 - Servo-assisted BSP

Normally open (closing under tension) - Min. ΔP: 0,3 bar.

Ø	bore (mm)	Kv (m³/h)	230V 50Hz code	24V 50Hz code	48V 50Hz code	12V DC code	24V DC code	ACS certified 230V 50Hz code	ACS certified 24V 50Hz code
3/8"	10	1,86	087001	087011	087031	087041	087051	-	-
1/2"	12	2,1	087002	087012	087032	087042	087052	087502	087512
3/4"	20	5,7	087003	087013	087033	087043	087053	087503	087513
1"	25	9,6	087004	087014	087034	087044	087054	087504	087514
1"1/4	32	22	087005	087015	087035	087045	087055	-	-
1"1/2	39	27	087006	087016	087036	087046	087056	-	-
2"	51	35	087007	087017	087037	087047	087057	-	-
2"1/2	65	63	087008	087018	087038	087048	087058	-	-
3"	75	83	087009	087019	087039	087049	087059	-	-

VSO 84 - Direct acting BSP

Normally closed (opening under tension) - NoΔP required - Horizontal mounting, coil on the top.

Ø	bore (mm)	Kv (m³/h)	230V 50Hz code	24V 50Hz code	48V 50Hz code	12V DC code	24V DC code	ACS certified 230V 50Hz code	ACS certified 24V 50Hz code
3/8"	12	2,2	084001	084011	084031	084041	084051	-	-
1/2"	12	2,2	084002	084012	084032	084042	084052	-	-
3/4"	20	5,5	084003	084013	084033	084043	084053	084503	084513
1"	25	7,5	084004	084014	084034	084044	084054	084504	084514
1"1/4	36	17,5	084005	084015	084035	084045	084055	-	-
1"1/2	39	19,0	084006	084016	084036	084046	084056	-	-
2"	51	32,4	084007	084017	084037	084047	084057	-	-

⚠ **Please check max. ΔP on datasheet.**

STEAM

Excluded from 2014/68/UE Directive (article 4, §3) - 2014/35/EU Directive - 2/2 way - Nickel-plated CW617N brass body - Stainless steel inner parts - PTFE + graphite plug - Coil insulation class F - B12 coil - T30 connector - Room temp.: -10°C/+80°C - PS (AC): 10 bar, PS (DC): 5 bar - TS: 0°C/+180°C.

IP 65 CE

ESV 90 - Servo-assisted BSP

Normally closed (opening under tension) - Min. ΔP: 1 bar - Horizontal mounting, coil on the top above 1".

Ø	bore (mm)	Kv (m³/h)	230V 50Hz code	24V 50Hz code	48V 50Hz code	24V DC code
1/2"	8	1,1	088002	088012	088032	088052
3/4"	21	6,3	088003	088013	088033	088053
1"	21	6,3	088004	088014	088034	088054
1"1/4	38	20,4	088005	088015	088035	088055
1"1/2	38	20,4	088006	088016	088036	088056
2"	50	34,8	088007	088017	088037	088057

2014/35/EU Directive - 2/2 way - CW617N brass body - Stainless steel inner parts - FKM membrane - B6 coil - Max. room temp.: +80°C - TS: -10°C/+150°C.

IP 65 CE

EV 66 – Mini solenoid valve 2/2

Normally closed (opening under tension) - No ΔP required.

Ø	bore (mm)	Kv (m³/h)	PS (bar)	230V AC code	24V AC code	PS (bar)	24V DC code	12V DC code
1/8"	3	0,17	9	083694N	083695N	5	083696N	083697N
1/4"	4	0,25	6	083700N	083701N	4	083705N	083706N

2014/35/EU Directive - 3/2 way - CW617N brass body - Stainless steel inner parts - FKM membrane - 1/4" F/F - 1/8" decompression outlet - Bore 2 mm - PS (AC): 10 bar, PS (DC): 7 bar - Max. room temp.: +80°C - TS: +150°C.

IP 65 CE

EBB 62 - Normally closed BSP

No ΔP required.

voltage	code
230V AC	041800N
24V AC	041801N
48V AC	041802N
110V AC	041803N
12V DC	041806N
24V DC	041807N
48V DC	041808N

EBB 61 - Normally open BSP

No ΔP required.

voltage	code
230V AC	041850N
24V AC	041851N
48V AC	041853N
110V AC	041852N
12V DC	041856N
24V DC	041857N

COMPRESSED AIR

2014/35/EU Directive - 2/2 way - CW617N brass body - Stainless steel inner parts - FKM membrane - Coil insulation class H - B12 coil - T30 connector - PS: 20 bar - Max. room temp.: +60°C - TS: +150°C.

IP 65 CE

83-20 - Servo-assisted BSP

Normally closed (opening under tension) - Min. ΔP: 0,1 bar.

Ø	bore (mm)	Kv (m³/h)	230V 50Hz code	24V 50Hz code	110V 50Hz code	48V 50Hz code	12V DC code	24V DC code
1/4"	11	1,4	083000	083010	083020	083030	083040	083050
3/8"	11	1,5	083001	083011	083021	083031	083041	083051
1/2"	11	1,6	083002	083012	083022	083032	083042	083052

FUEL

2014/35/EU Directive - 2/2 way - CW617N brass body - Stainless steel inner parts - FKM membrane - Coil insulation class H - B12 coil - T30 connector - Max. room temp.: +80°C - TS: +150°C.

IP 65 CE

EST 93 - Direct acting BSP

Normally closed (opening under tension) - No ΔP required.

Ø	bore (mm)	Kv (m³/h)	PS (bar) for AC coils	230V 50Hz code	24V 50Hz code	110V 50Hz code	48V 50Hz code	PS (bar) for DC coils	12V DC code	24V DC code
1/4"	3,5	0,27	15	088100	088110	088120	088130	7	088140	088150
3/8"	3,5	0,30	15	088101	088111	088121	088131	7	088141	088151
1/2"	5	0,48	5	088102	088112	088122	088132	3	088142	088152

ECM 93 - Direct acting with manual override BSP

Normally closed (opening under tension) - No ΔP required.

Ø	bore (mm)	Kv (m³/h)	PS (bar)	230V 50Hz code	24V 50Hz code	PS (bar)	24V DC code
1/2"	5,7	0,48	2,5	088502	088512	1,5	088552

Plastic solenoid valve

2014/35/EU Directive - Food grade materials with NSF approval - Push fit fast connection for 8 mm hose - 2/2 way - PPA Thermoplastic body - Stainless steel inner parts - FKM membrane - Coil insulation class H - B4 coil - T22 connector - Max. room temp.: +65°C - TS: +5°C/+65°C.

NSF IP 65 CE

EV 791 - Direct acting with push fit connection

Normally closed (opening under tension) - No ΔP required.

Ø	bore (mm)	Kv (m³/h)	PS (bar)	230V 50Hz code	24V 50Hz code	PS (bar)	24V DC code
6	2,5	0,12	8	079002N	079012N	6	079052N
8	2,5	0,12	8	079003N	079013N	6	079053N

Accessories & spare parts for Ceme solenoid valves

Electronic timer

Under tension timing control: 0,5-10 sec - Frequency control: 0,5-45 mn - Installation between coil & T30 connector - Not suitable for ESM 85 or NAMUR solenoid valves - Tensions: 24V to 230V AC/DC.

type	power (W)	solenoid valves	code
T U	12	ESM, EST, ESV - VSO up to 1"	980692
T 60	60	VSO 1"1/4 to 2"	980693

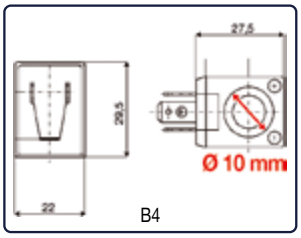
Spare coils & connectors for CEME solenoid valves

NEW NEW

type	solenoid valve	230V 50Hz code	24V 50Hz code	48V 0Hz code	110V 50Hz code	12V DC code	24V DC code	48V DC code	110V DC code	230V 60Hz code	24V 60Hz code
B4	ESM 85 - EV 791	980300	980301	-	-	-	980302	-	-	-	-
B6	EBB 62 - ESM 86 - EV 66 - EVB 82 (up to DN150)	980310	980311	980313	980314	980315	980316	980317	980318	983320	980321
B6S	EBB 61 - ESM 87	980330	980331	980333	980334	980335	980336	-	-	-	-
B12	VSO 84 (3/8" to 1") ESV 90 - EST 93 - ECM 93 - 83-20	980410	980411	980413	980414	980415	980416	-	-	980420	980421
B60	VSO 84 (1"1/4 to 2")	980510	980511	980513	980514	980515	980516	-	-	-	-

Spare connectors

type	code
T 22	980232
T 30	980696
T 30	980696
T 30	980696
T 30	980696



KER - Reinforced tightness set

type	solenoid valves	code
B6	ESM 86, EV 66, EVB 82	980690
B12	VSO 84 3/8"-1" - EST 93 - ESV 90 - 83-20	980691

Spare membranes for ESM 86 & ESM 87

Ø	membrane (mm)	NBR / 80°C code	EPDM / 110°C code	ACS EPDM/ 90°C code	FKM / 150°C code
3/8" - 1/2"	34	980604	980614	980661	980624
3/4"	50	980632	980642	980662	980652
1"	60	980605	980615	980663	980625
1"1/4	80	980634	980644	-	980654
1"1/2	90	980606	980616	-	980626
2"	112	980607	980617	-	980627
2"1/2 - 3"	149	980608	-	-	-

Spare spring

code
980670
980671
-
980673
980674
980675
980676

Spare membranes for VSO 84

Ø	membrane (mm)	NBR / 80°C code	EPDM / 110°C code	ACS EPDM/ 90°C code	FKM / 150°C code
3/8" - 1/2"	33	980600	980610	-	-
3/4" - 1"	60	980601	980611	980660	980621
1"1/4 - 1"1/2	90	980602	980612	-	980622
2"1/2 - 3"	110	980603	980613	-	980623

Spare spring

code
980677
980678
980679
980679

Solenoid valves for fuel

2014/35/EU Directive - According to EN 264 - For fuel burners automatic shut off - Brass & stainless steel inner parts - NBR membrane - Normally closed (opening under tension) - Max. viscosity: 8°E - TS: -5°C/+60°C.

IP 65 CE

FUEL

MN 28 BSP

Aluminium body - PS: 8 bar.

Ø	bore (mm)	230V AC code	24V AC code
3/4"	24	088203	088213
1"	24	088204	088214

not on stock, on request.

Spare coils for MN 28 solenoid valves

Voltage	code
230V AC	980980
24V AC	980981

High pressure solenoid valves

2014/35/EU Directive - 2/2 way - Brass body - Brass and stainless steel inner parts - Normally closed (opening under tension) - Max. room temp. +60°C - Min. ΔP: 0,5 bar - TS : -10°C/ +90°C.

IP 65 | CE

PU 225-H

PS: 25 bar - NBR membrane.

Ø	bore (mm)	230V 50Hz code	24V 50Hz code
1/2"	8	081502	081512
3/4"	13	081503	081513
1"	13	081504	081514

Spare coils & connector for PU

Voltage	code
230V AC	980550
24V AC	980551

PU 225-X

PS: 50 bar - PTFE plug.

Ø	bore (mm)	230V 50Hz code	24V 50Hz code
1/2"	13	081602	081612
3/4"	25	081603	081613
1"	25	081604	081614

Spare coils & connector for PU-X

Voltage	code
230V AC	980540
24V AC	980541

Filter cleaning solenoid valves

mecair

For dust collector application, especially reverse pulse jet filter cleaning - Fast opening - High flow - Cast aluminium body - Stainless steel inner parts - NBR membrane - Room temperature: -20°C/+60°C - PS: 7,5 bar - TS: -20°C/+120°C.

IP 65

VNP - Servo-assisted BSP

Normally closed (opening under tension) - Min. ΔP: 0,5 bar.

Ø	type	Kv (m³/h)	230V 50/60Hz code	24V 50/60Hz code
3/4"	VNP 206	10	089303	089313
1"	VNP 208	21	089304	089314
1"1/2	VNP 212	37	089305	089315
1"1/2	VNP 214	44	089306	-

not on stock, on request.

Spare membranes for VNP

Ø	code
3/4"	980190
1"	980191
1"1/2	980192

VEM - Operated by solenoid valve BSP

Normally closed (opening under tension) - Min. ΔP: 0,5 bar.

Ø	type	Kv (m³/h)	code
3/4"	VEM 206	10	0894206
1"	VEM 208	21	0894208
1"1/2	VEM 212	37	0894212
1"1/2	VEM 214	44	0894214
2"	VEM 216	78	0894216
2"1/2	VEM 220	86	0894220

not on stock, on request.

Spare coils & connector for VNP

230V 50/60Hz code	24V 50/60Hz code	24V DC code
980564	980565	980566

Cast iron solenoid valve

2014/68/EU Directive - Risk category I - 2014/35/EU Directive - Flanged RF PN16 - GG25 body - Epoxy coated - Brass & bronze inner parts - NBR membrane - Manual safety override - Coil insulation class F - T30 connector - Max. room temp. +60°C - Min. ΔP: 0,3 bar - PS: 16 bar - TS: -10°C/+80°C - ⚠ **Only for liquids.**

IP 65 | CE

EVB 82 - High flow

DN	face to face (mm)	Kv (m³/h)	Normally closed 230V AC code	Normally closed 24V AC code	Normally open 230V AC code	Normally open 24V AC code
50	190	64	082007	082017	082007NO	082017NO
65*	210	89	082008	082018	082008NO	082018NO
80	225	119	082009	082019	082009NO	082019NO
100	255	222	082010	082020	082010NO	082020NO
125	285	333	082011	082021	082011NO	082021NO
150	315	470	082012	082022	082012NO	082022NO
200	420	854	082013	082023	082013NO	082023NO

* 4 hole flanges

Stainless steel solenoid valves

Excluded from 2014/68/UE Directive (article 4, §3) - 2014/35/EU Directive - CF8M body - Stainless steel inner parts - FKM membrane - Coil insulation class F - T30 connector - PS: 8 bar - TS: -10°C/+90°C.

IP 65 CE

SPUY 220 - Direct acting BSP

Normally closed (opening under tension) - No ΔP required.

Ø	bore (mm)	Kv (m³/h)	230V AC code	24V DC code
1/2"	9,5	1,3	081202	081212

2014/68/EU Directive - Risk category I / module A - 2014/35/EU Directive - CF8M body - Stainless steel inner parts - FKM membrane (EPDM membrane for SPU 225 & SPU 225-X on request) - Coil insulation class F - T30 connector - Horizontal mounting, coil on top - Normally closed (opening under tension) - TS: -10°C/+90°C.

IP 65 CE

SPU 220 - Direct acting BSP

No ΔP required - Room temp.: -20°C/+60°C.

Ø	bore (mm)	Kv (m³/h)	PS (bar)	230V 50/60Hz code	24V 50/60Hz code	PS (bar)	24V DC code
1/2"	13	3,2	7	081002	081012	6	081052
3/4"	20	6,9	7	081003	081013	5	081053

SPU 220-X - Direct acting - ATEX BSP

No ΔP required - Room temp.: -10°C/+50°C - CE Ex II 2G/D Ex c II T4 for areas 1, 21, 2 & 22 - Supplied with 3 m overmoulded wire.

Ø	bore (mm)	Kv (m³/h)	PS (bar)	230V 50/60Hz code	24V 50/60Hz code	PS (bar)	24V DC code
1/2"	13	3,2	7	081102	081112	6	081152
3/4"	20	6,9	7	081103	081113	5	081153

SPU 225 - Servo-assisted BSP

Min. ΔP: 0,5 bar - Room temp.: -20°C/+60°C.

Ø	bore (mm)	Kv (m³/h)	PS (bar)	230V 50/60Hz code	24V 50/60Hz code	24V DC code
3/8"	13	3,4	10	080001	080011	080051
1/2"	13	3,4	10	080002	080012	080052
3/4"	25	8,9	10	080003	080013	080053
1"	25	8,9	10	080004	080014	080054
1"1/4	38	15,8	10	080005	080015	080055
1"1/2	38	21,3	10	080006	080016	080056
2"	50	34,1	10	080007	080017	080057

SPU 225-X - Servo-assisted BSP

Min. ΔP: 0,5 bar - Room temp.: -10°C/+50°C - CE Ex II 2G/D Ex c II T4 for areas 1, 21, 2 & 22 - Supplied with 3 m overmoulded wire.

Ø	bore (mm)	Kv (m³/h)	PS (bar)	230V 50/60Hz code	24V 50/60Hz code	24V DC code
3/8"	13	3,4	10	080101	080111	080151
1/2"	13	3,4	10	080102	080112	080152
3/4"	25	8,9	10	080103	080113	080153
1"	25	8,9	10	080104	080114	080154
1"1/4	38	15,8	10	080105	080115	080155
1"1/2	38	21,3	10	080106	080116	080156
2"	50	34,1	10	080107	080117	080157

Spare coils for SPU and SPU-X solenoid valves

type	230V 50Hz code	24V 50Hz code	48V 50Hz code	110V 50Hz code	12V DC code	24V DC code
SPU	980550	980551	980553	980554	980556	980552
SPU-X*	980540	980541	-	-	-	980542

* CE Ex II 2G/D Ex m II T4.

Spare connector

type	code
T 30	980696

Spare membranes for SPU 225 and SPU 225-X solenoid valves

Ø	FKM code	EPDM code
3/8"	980570	980585
1/2"	980570	980585
3/4"	980571	980586
1"	980571	980586
1"1/4	980572	980587
1"1/2	980573	980588
2"	980574	980589

Spare membranes for SPU 220 and SPU 220-X

Ø	code
1/2"	980580
3/4"	980581

Compact electric actuated ball valves

Ball valves equipped with compact actuator - 90° operating angle - Plastic enclosure - Steel reducing gears - Position indicator - 2 thread wiring - 1,5 m wire - Full bore - Room temp.: -10°C/+55°C - PS: 10 bar up to 1'', 6 bar above - TS: 0°C/+90°C.

IP 67

Lyva 2 NC - Brass ball valve - Normally closed BSP

CW617N body - F304 ball - PTFE seats - Stem tightness: EPDM.

	Ø	power	code
	1/2"	24V AC/DC	89221C0232
	3/4"	24V AC/DC	89221C0233
	1"	24V AC/DC	89221C0234
NEW	1"1/4	24V AC/DC	89221C0332
NEW	1"1/2	24V AC/DC	89221C0333
NEW	2"	24V AC/DC	89221C0334

	Ø	power	code
	1/2"	230V AC	89221C0252
	3/4"	230V AC	89221C0253
	1"	230V AC	89221C0254
NEW	1"1/4	230V AC	89221C0352
NEW	1"1/2	230V AC	89221C0353
NEW	2"	230V AC	89221C0354

Lyva 2 NO - Brass ball valve - Normally open BSP

CW617N body - F304 ball - PTFE seats - Stem tightness: EPDM.

Ø	power	code
1/2"	24V AC/DC	89222C0232
3/4"	24V AC/DC	89222C0233
1"	24V AC/DC	89222C0234

Ø	power	code
1/2"	230V AC	89222C0252
3/4"	230V AC	89222C0253
1"	230V AC	89222C0254

Lyva 3 NC - Stainless steel ball valve - Normally closed BSP

CF8M body & ball - PTFE seats - Stem tightness: EPDM.

	Ø	power	code
NEW	1/4"	24V AC/DC	89321C0132
NEW	3/8"	24V AC/DC	89321C0133
	1/2"	24V AC/DC	89321C0232
	3/4"	24V AC/DC	89321C0233
	1"	24V AC/DC	89321C0234
NEW	1"1/4	24V AC/DC	89321C0332
NEW	1"1/2	24V AC/DC	89321C0333
NEW	2"	24V AC/DC	89321C0334

	Ø	power	code
NEW	1/4"	230V AC	89321C0152
NEW	3/8"	230V AC	89321C0153
	1/2"	230V AC	89321C0252
	3/4"	230V AC	89321C0253
	1"	230V AC	89321C0254
NEW	1"1/4	230V AC	89321C0352
NEW	1"1/2	230V AC	89321C0353
NEW	2"	230V AC	89321C0354

Lyva 3 NC - Stainless steel ball valve - Normally closed with manual override BSP

CF8M body & ball - PTFE seats - Stem tightness: EPDM.

Ø	power	code
1/2"	24V AC/DC	89321C0262
3/4"	24V AC/DC	89321C0263
1"	24V AC/DC	89321C0264

Lyva 3 NO - Stainless steel ball valve - Normally open BSP

CF8M body & ball - PTFE seats - Stem tightness: EPDM.

	Ø	power	code
NEW	1/4"	24V AC/DC	89322C0132
NEW	3/8"	24V AC/DC	89322C0133
	1/2"	24V AC/DC	89322C0232
	3/4"	24V AC/DC	89322C0233
	1"	24V AC/DC	89322C0234

	Ø	power	code
NEW	1/4"	230V AC	89322C0152
NEW	3/8"	230V AC	89322C0153
	1/2"	230V AC	89322C0252
	3/4"	230V AC	89322C0253
	1"	230V AC	89322C0254

Aluminium actuators

Valve mounting acc. to ISO 5211 - CE Ex II 2G h for areas 1 & 2 - Solenoid pilot valve connection acc. to NAMUR VDI/VDE 3845 - Rack and pinion actuator - 90° operating angle (adjustable limit screws ±5°) - Aluminium body & caps - Aluminium piston - Position indicator - Environment working temp.: -20°C/+80°C - Max. air supply: 8 bar - Air supply connection 1/4".

NKD - Double acting

type	avail. torque (Nm) at air supply 6 bar	ISO	⬡	VDI/VDE	code
NKD052	24	F03/F05	11	NAMUR 1	010002
NKD063	44	F05/F07	14	NAMUR 1	010003
NKD083	94	F05/F07	17	NAMUR 1	010005

NKS - Spring return

type	avail. torque (Nm) at air supply 6 bar		ISO	⬡	VDI/VDE	code
	air opening	spring closing				
NKS052	14	10	F03/F05	11	NAMUR 1	010102
NKS063	27	16	F05/F07	14	NAMUR 1	010103
NKS083	56	38	F05/F07	17	NAMUR 1	010105
NKS092	79	56	F05/F07	17	NAMUR 1	010106
NKS105	122	76	F07/F10	22	NAMUR 1	010107SE

Design acc. to EN 15714-3 - CE Ex II 2G/D c for areas 1, 2, 21 & 22 - SIL 2 (& SIL 3 capable) - Valve mounting acc. to ISO 5211 - Limit switch box bracket connection & solenoid pilot valve connection acc. to NAMUR VDI/VDE 3845 - Rack and pinion actuator - 90° operating angle (adjustable limit screws ±5°) - Anodized aluminum body - Epoxy coated aluminium caps - Position indicator - Environment working temp.: -30°C/+100°C - Max. air supply: 8 bar - Air supply connection 1/4".

ACTREG

ADA - Double acting

type	avail. torque (Nm) at air supply 6 bar	ISO pad	⬡	VDI/VDE	code	Standard gaskets set code
ADA20	19	F05	14	NAMUR 2	015100B	041150B
ADA40	41	F05	14	NAMUR 2	015101B	041151B
ADA80	77	F05/F07	17	NAMUR 2	015102B	041152B
ADA130	118	F05/F07	17	NAMUR 2	015103B	041153B
ADA200	175	F07/F10	17	NAMUR 2	015104B	041154B
ADA300	291	F07/F10	22	NAMUR 2	015105B	041155B
ADA500	433	F10	22	NAMUR 2	015106B	041156B
ADA850	718	F10/F12	27	NAMUR 2	015107B	041157B
ADA1200	1038	F10/F14	36	NAMUR 2	015108B	041158B
ADA1750	1413	F14	36	NAMUR 2	-	041159B

not on stock, on request.

ASR - Spring return

type	avail. torque (Nm) at air supply 6 bar		ISO pad	⬡	VDI/VDE	code	Standard gaskets set code
	air opening	spring closing					
ASR20	12	9	F05	14	NAMUR 2	016100B	041150B
ASR40	26	17	F05	14	NAMUR 2	016101B	041151B
ASR80	51	30	F05/F07	17	NAMUR 2	016102B	041152B
ASR130	80	45	F05/F07	17	NAMUR 2	016103B	041153B
ASR200	113	73	F07/F10	17	NAMUR 2	016104B	041154B
ASR300	190	119	F07/F10	22	NAMUR 2	016105B	041155B
ASR500	283	177	F10	22	NAMUR 2	016106B	041156B
ASR850	488	371	F10/F12	27	NAMUR 2	016107B	041157B
ASR1200	698	400	F10/F14	36	NAMUR 2	016108B	041158B
ASR1750	877	631	F14	36	NAMUR 2	016109B	041159B

not on stock, on request.

Design acc. to EN 15714-3 - CE Ex II 2G/D c for areas 1, 2, 21 & 22 - SIL 2 (& SIL 3 capable) - Valve mounting acc. to ISO 5211 - Limit switch box bracket connection & solenoid pilot valve connection acc. to NAMUR VDI/VDE 3845 - Rack and pinion actuator - 90° operating angle (adjustable limit screws ±5°) - Anodized aluminum body - Epoxy coated aluminium caps - Position indicator - Environment working temp.: -20°C/+80°C - Max. air supply: 8 bar - Air supply connection 1/4".

Alphair

RE - Double acting

type	avail. torque (Nm) at air supply 6 bar	ISO	⬡	VDI/VDE	code	Standard gaskets set code
RE43	13	F03/F05	11	NAMUR 1	017004RE	041243
RE51	20,1	F03/F05	11	NAMUR 1	017006RE	041244
RE64	35,5	F05	14	NAMUR 1	017007RE	041245
RE76	70,6	F05/F07	17	NAMUR 1	017008RE	041246
RE86	103,4	F05/F07	17	NAMUR 1	017009RE	041247
RE101	164,8	F07/F10	17	NAMUR 1	017010RE	041248
RE116	262,3	F07/F10	22	NAMUR 3	017011RE	041249
RE126	339,8	F07/F10	22	NAMUR 3	017012RE	041250
RE146	530,1	F10/F12	27	NAMUR 3	017013RE	041251
RE161	689,2	F12	27	NAMUR 4	017014RE	041252
RE181	939,4	F14	36	NAMUR 4	017015RE	041253
RE201	1292,0	F14	36	NAMUR 4	017016RE	041254
RE241	2235,0	F14	36	NAMUR 4	017018RE	041255
RE271	3235,0	F16	36	NAMUR 4	017017RE	041256

not on stock, on request.

RES - Spring return

type	avail. torque (Nm) at air supply 6 bar: air opening	avail. torque (Nm) at air supply 6 bar: spring closing	ISO	⬡	VDI/VDE	code	Standard gaskets set code
RES43	8,1	5	F03/F05	11	NAMUR 1	017104RE	041243
RES51	11,6	8,5	F03/F05	11	NAMUR 1	017106RE	041244
RES64	21,4	14,1	F05	14	NAMUR 1	017107RE	041245
RES76	42,1	28,5	F05/F07	17	NAMUR 1	017108RE	041246
RES86	67,7	35,7	F05/F07	17	NAMUR 1	017109RE	041247
RES101	100,2	64,6	F07/F10	17	NAMUR 1	017110RE	041248
RES116	161,4	100,9	F07/F10	22	NAMUR 3	017111RE	041249
RES126	210	129,8	F07/F10	22	NAMUR 3	017112RE	041250
RES146	324,9	205,2	F10/F12	27	NAMUR 3	017113RE	041251
RES161	405,3	283,8	F12	27	NAMUR 4	017114RE	041252
RES181	561,1	376,3	F14	36	NAMUR 4	017115RE	041253
RES201	772,3	519,6	F14	36	NAMUR 4	017116RE	041254

Same features as RE / RES pneumatic actuator except:
- RE PTFE / RES PTFE: PTFE coated aluminium caps and stainless steel shaft - C5M protection acc. to ISO 12944.
- APINOX: full stainless steel body - 90° operating angle, no adjustable limit screws.

Alphair

RE PTFE - Double acting

type	avail. torque (Nm) at air supply 6 bar	ISO	⬡	VDI/VDE	code
RE43 PTFE	13	F03/F05	11	NAMUR 1	017034
RE51 PTFE	20,1	F03/F05	11	NAMUR 1	017036
RE64 PTFE	35,5	F05	14	NAMUR 1	017037
RE76 PTFE	70,6	F05/F07	17	NAMUR 1	017038

RES PTFE - Spring return

type	avail. torque (Nm) at air supply 6 bar: air opening	avail. torque (Nm) at air supply 6 bar: spring closing	ISO	⬡	VDI/VDE	code
RESR51 PTFE	11,6	8,5	F03/F05	11	NAMUR 1	017136
RESR64 PTFE	21,4	14,1	F05	14	NAMUR 1	017137
RESR76 PTFE	42,1	28,5	F05/F07	17	NAMUR 1	017138
RESR86 PTFE	67,7	35,7	F05/F07	17	NAMUR 1	017139

Other type on request

APX - 180° double acting

APINOX - Full stainless steel

double acting	ISO	⬡	code
AP42	F03/F05	11	017204
AP50	F03/F05	11	017206
AP63	F05	14	017207
AP75	F05/F07	17	017208
AP85	F05/F07	17	017209
AP100	F07/F10	22	017210
AP115	F07/F10	22	017211
AP125	F07/F10	22	017212

spring return	ISO	⬡	code
APS42	F03/F05	11	017304
APS50	F03/F05	11	017306
APS63	F05	14	017307
APS75	F05/F07	17	017308
APS85	F05/F07	17	017309
APS100	F07/F10	22	017310

not on stock, on request.

SECTORIEL

Additional delivery time 3-5 days

CE Ex II 2G/D - SIL 2 (& SIL 3 capable) - Valve mounting acc. to ISO 5211 - Limit switch box bracket connection & solenoid pilot valve connection acc. to NAMUR VDI/VDE 3845 - Rack & pinion actuator - 90° operating angle (adjustable limit screws -5°/+10° & +80°/+95° for types 0025 to 0600, and from -3°/+10° & +80°/+93° for types 0950 to 4000) - Chrome-plated & polyurethane coated aluminium body & caps - Position indicator - Environment working temp. -20°C/+80°C - Max. air supply: 8 bar - Air supply connection: 1/4".

SIL CE Ex

ELMatic™

PD - Double acting

type	avail. torque (Nm) at air supply 6 bar	ISO pad	□	VDI/VDE	code
PD0012	14,6	F04	9	31x41	PD0012
PD0025	27	F05/F03	11	30x80	PD0025
PD0040	51	F05/F07	14	30x80	PD0040
PD0065	77	F05/F07	14	30x80	PD0065
PD0100	115	F07/F05	17	30x80	PD0100
PD0150	183	F07/F10	17	30x80	PD0150
PD0200	251	F10/F07	22	30x80	PD0200
PD0350	436	F10/F07	22	30x80	PD0350
PD0600	741	F12/F10	27	30x130	PD0600
PD0950	1124	F14/F10	36	30x130	PD0950
PD1600	1883	F16	46	30x130	PD1600
PD2500	2918	F16	46	30x130	PD2500
PD4000	4736	F25	55	30x130	PD4000

PE - Spring return

type	avail. torque (Nm) at air supply 6 bar		ISO pad	□	VDI/VDE	springs/ combination	code
	air opening	air closing					
PE0012	10	7	F04	9	31x41	2/N20	PE0012
PE0025	16	8	F05/F03	11	30x80	10/N50	PE0025
PE0040	30	16	F05/F07	14	30x80	10/N50	PE0040
PE0065	45	23	F05/F07	14	30x80	10/N50	PE0065
PE0100	68	36	F07/F05	17	30x80	10/N50	PE0100
PE0150	109	59	F07/F10	17	30x80	10/N50	PE0150
PE0200	148	78	F10/F07	22	30x80	10/N50	PE0200
PE0350	260	141	F10/F07	22	30x80	10/N50	PE0350
PE0600	439	235	F12/F10	27	30x130	10/N50	PE0600
PE0950	683	410	F14/F10	36	30x130	5/N50	PE0950
PE1600	1149	658	F16	46	30x130	5/N50	PE1600
PE2500	1900	1187	F16	46	30x130	5/N50	PE2500
PE4000	3047	1961	F25	55	30x130	5/N50	PE4000

⚠ **Please consult for other spring combinations.**

Plastic actuators

CE Ex II 2 GD c T6 - SIL 2 (& SIL 3 capable) - Valve mounting acc. to ISO 5211- Limit switch box bracket connection acc. to NAMUR 1 - Solenoid pilot connection acc. to NAMUR VDI/VDE 3845 - Rack and pinion actuator - 90° operating angle - Reinforced fiberglass polyamide body - Position indicator - TS: -32°C/+90°C - Max. air supply: 8 bar - Air supply connection 1/4".

SIL CE Ex

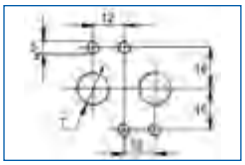
Prisma

PP - Double acting

type	avail. torque (Nm) at air supply 6 bar	ISO	⬡	VDI/VDE	code	Standard gaskets set code
PPW	17	F04	11	NAMUR 1	012100	041110
PP00	25	F05	14	NAMUR 1	012103	041111
PP10	71	F05/F07	17	NAMUR 1	012106	041112
PP20	165	F07	22	NAMUR 1	012109	041113

PPS - Spring return

type	avail. torque (Nm) at air supply 6 bar		ISO	⬡	VDI/VDE	code	Standard gaskets set code
	air opening	spring closing					
PPWS	10,6	6,5	F04	11	NAMUR 1	012120	041110
PP00S	13,7	11,3	F05	14	NAMUR 1	012123	041111
PP10S	40,2	30,8	F05/F07	17	NAMUR 1	012126	041112
PP20S	101,3	64,2	F07	22	NAMUR 1	012129	041113



Namur solenoid pilot valves

Namur interface - Anodized aluminium body - NBR sealing - 3/2-5/2 ways / solenoid operated / Spring return (except ref. 4220: 5/2 ways - dual solenoids operated) - Operating pressure: 2 bar to 10 bar (except CY: 1,5 bar to 8 bar) - SIL 2 (& SIL 3 capable) - IP65 coil.

IP 65 | SIL | CE

CY - Monostable SHAKO 3/2-5/2

Flowrate: 500 l/min - Operating pressure: 1,5 to 8 bar - 1/4" inlet & outlet ports - Manual override - TS: -10°C/+50°C.

voltage	code
230V AC	042190
24V DC	042191

Spare coil + connector

For CY solenoid pilot valves

voltage	code
230V AC	980260
24V AC	980263
24V DC	980261

551 - Monostable ASCO 551 3/2-5/2

1/4" inlet & 1/8" outlet ports - TS: -25°C/+60°C.

voltage	code
230V AC	041640
24V AC	041641
110V AC	041642
24V DC	041644

Spare coil + connector

For 551 solenoid pilot valves

voltage	code
230V AC	980200
24V AC	980201
24V DC	980205
12V DC	980204

4212 - Monostable LUCIFER 341N05 3/2-5/2

1/4" inlet & outlet ports - TS: -20°C/+50°C.

voltage	code
230V AC	042120
24V AC	042121
48V AC	042122
110V AC	042123
24V DC	042125

4221 - Bistable LUCIFER 347N03 5/2

1/4" inlet & outlet ports - TS: -20°C/+50°C.

voltage	code
230V AC	042210
24V AC	042211
48V AC	042212
110V AC	042213
24V DC	042215

Namur interface - ATEX protection - SIL 2 (& SIL 3 capable) - Anodized aluminium body - NBR sealing - 3/2-5/2 ways / solenoid operated / Spring return - Operating pressure: 2 bar to 10 bar - 1/4" inlet port & 1/8" outlet port. TS ASCO: -25°C/+60°C ; TS LUCIFER: -20°C/+50°C (except 4240: -25°C/+80°C).

SIL | CE | Ex

4280 - Monostable ASCO 551-LPKF

CE Ex II 2 G Ex d IIB+H2 / CE Ex II 2 D Ex tb IIIC Db IP67 for areas 1-21 & 2-22.

voltage	code
230V AC	042800
24V AC	042801
24V DC	042805

4282 - Monostable ASCO 551-PV

CE Ex II 2 G Ex mb IIC T4 Gb / CE Ex II 2 D Ex mb IIIC T100°C Db IP67 - For areas 1-21 & 2-22 - With 2 m overmoulded wire.

voltage	code
230V AC	042820
24V AC	042821
24V DC	042825

4283 - Monostable ASCO 551-LISC

CE Ex II 1 G Ex ia IIC T6 Ga / CE Ex II 2 D Ex ib IIIC T85°C Db IP67 for area 0-20, 1-21 & 2-22.

voltage	code
24V DC	042835

4281 - Monostable ASCO 551-WBLP

CE Ex II 2 G Ex e mb IIC / CE Ex II 2 D Ex tb IIIC IP67 for areas 2-22.

voltage	code
230V AC	042810
24V AC	042811
24V DC	042815

4231 - Monostable LUCIFER 341N35

CE Ex II 2 GD Ex me II T4 IP66/IP67 for areas 1-21 & 2-22.

voltage	code
230V AC	042310
24V AC	042311
24V DC	042312

4251 - Monostable LUCIFER 341N35

CE Ex II 2 GD Ex md IIC T4 IP66/IP67 for areas 1-21 & 2-22.

voltage	code
230V AC	042510
48V AC	042513

4240 - Monostable LUCIFER 341N3190

CE Ex II 1 GD Ex ia IIC T6 IP67 for areas 0-20.

voltage	code
24V DC	042403

4271 - Monostable LUCIFER 341N05

CE Ex II 3 GD Ex nAC IIC T5 IP65 for areas 2-22.

voltage	code
230V AC	042710
24V AC	042711
110V AC	042713
24V DC	042712

Accessories for Namur solenoid pilot valves

NAMUR quick exhaust

For spring return actuator

type	code
NX1	041503B

NAMUR flow regulator

type	actuator	code
NF2	double acting	041506N
NF3	spring return	041507N

NAMUR adapter

type	code
2x 1/4" NPT	041508
ISO T1	041200

Brass silencer BSP

Ø	code
1/8"	041192
1/4"	041193
3/8"	041198
1/2"	041300

Brass quick exhaust BSP

PS: 12 bar - TS: +80°C.

Ø	code
1/4"	21661022
1/2"	21661024

Brass throttle valve BSP

Ø	code
1/8"	041196
1/4"	041195

Stainless steel silencer BSP

Ø	code
1/8"	041191
1/4"	041197
3/8"	041189
1/2"	041190
3/4"	041188

Stainless steel quick exhaust BSP

PS: 2-10 bar - TS: -20°C/+80°C.

Ø	code
1/4"	041510
3/8"	041511

Brass NPT/BSP adapter NPT / BSP

Ø	code
1/4"	21300202

Solenoid pilot valves 3/2

EBB 62 - Normally closed BSP

EBB 61 - Normally open BSP

CEME

CW617N brass body - 1/4" F/F - 1/8" decompression outlet - Bore 2 mm - PS (AC): 10 bar, PS (DC): 7 bar - TS: +150°C.

voltage	NC code	NO code
230V AC	041800N	041850N
24V AC	041801N	041851N
48V AC	041802N	041853N
110V AC	041803N	041852N
12V DC	041806N	041856N
24V DC	041807N	041857N
48V DC	041808N	-

MH - 3/2 function BSP

Anodised aluminium body - 1/8" M/F - Bore 1,2 mm - Manual setting & adjustable fitting - PS: 10 bar - TS: -10°C/+50°C.

voltage	code
230V AC	041901B
24V AC	041902B
24V DC	041903B
coil 230V AC	980222B
coil 24V AC	980223B
coil 24V DC	980224B
fitting M1/4"-F1/8"	21040201

Positioners

R 99 - Positioner for 1/4 turn valves

IP 54

Aluminium body - Polycarbonate enclosure - IP 54 (IP 65 on request) - Max. air supply: 10 bar - Air supply connection 1/4" NPT - Pneumatic signal 3-15 psi or electric signal 4-20 mA (0-10V on request) - PG9 connection - Position indicator - Includes pressure gauges box & Universal bracket Namur 1, 2 & 3.

type		amb. temp.	code
R99P	Pneumatic DA / SR	-20°C/+70°C	3260210M
R99E	Electropneumatic DA / SR 4-20 mA	-20°C/+70°C	3260220M
NEW PVP11BE.1	Electropneumatic DA/SR ATEX Eex ia IIC T6 areas 2-22	-20°C/+70°C	3260225M

⚠ Mounting & tubing not included, see below.

not on stock, on request.

PTL7 - Limit switch box

IP 65

Aluminium body - IP65 - Mounting on NAMUR actuator & R 99 positionner - Position indicator - PG9 connection - Universal bracket NAMUR 1, 2 & 3 included.

type		amb. temp.	code
PTL7 T	Position transmitter 4-20 mA	-20°C/+70°C	3260240
PTL7 E	2 electric switches	-20°C/+70°C	3260244

YT 3300 - Smart positioner for 1/4 turn valves

IP 66

Aluminium body and enclosure - IP66 - Air supply between 1,4bar & 7 bar. Air supply connection 1/4" NPT - Electric signal 4-20 mA - PID control - Position indicator - Local control unit - LCD sreen - Self-calibration function - Includes pressure gauges box & Universal bracket Namur 1, 2 & 3.

type		amb. temp.	code
YT 3300R	Electropneumatic 4-20mA	-30°C/+85°C	3267001

⚠ Mounting & tubing not included, see below.

Mounting & tubing for R99 & YT 3300 positioners

Rilsan tubing, brass fittings.

Actreg actuators	Alphair actuators		code
-	RE51	AP42-AP50	999TUBPOSI1
All	RE64-RE201	AP63-AP200	999TUBPOSI2
-	-	AP240-AP330	999TUBPOSI3

Limit switch boxes

Plastic limit switch boxes

NEW

BE40 - Universal plastic limit switch box IP65

PA66 compact box reinforced with 50% glass fiber - Anti UV polycarbonate cover with 3D position indicator - Includes universal adjustable bracket VDI/VDE 3845 for NAMUR 1, 2 & 3 – Includes M20 x 1.5 gland pack - TS: -20°C/+80°C

type	switches	code
BE40-1	2 SPDT silver plated mechanical switches 250V AC - 3A	0460005N
BE40-2	2 inductive detectors 3 threads PNP 10-30V DC P+F NBB2 V3 E2	0460007N

Aluminium limit switch boxes

APL 210 - Limit switch box IP67 for Actreg & NK actuators

IP 67

Epoxy coated aluminium housing - 3D position indicator - Without gland pack & cap - Includes stainless steel bracket.

type	switches	code
APL 210	2 SPDT mechanical actuators	0460000N
APL 210	2 SPDT mechanical actuators	0460001N

SF - Limit switch box IP67

SIL IP 67

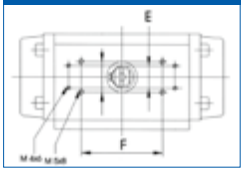
Polyester coated aluminium box & cover - Stainless steel stem - Adjustable 3D position indicator - 2 wire inlets M20 x 1,5 - F05 ISO pad - Stem VDI/VDE 3845 - **Without gland pack, cap & bracket.** SIL 2 (& SIL 3 capable).

type	switches	amb. temp.	code
SF 01200	2 SPDT silver plated mechanical switches 250V AC - 5A	-20°C/+80°C	0462012
SF 73200	2 inductive detectors 3 threads PNP 10-30V DC P+F NBB2 V3 E2	-20°C/+70°C	0462732
SF 75200	2 inductive detectors 2 threads NO/NC 5-36V DC IFM IS 5026	-20°C/+80°C	0462752
SF 83200	2 inductive detectors 2 threads NO 5-60V DC P+F NBB3 V3 Z4	-20°C/+80°C	0462832
	Indicator for 3 way L valves		980186
	Indicator for 3 way T valves		980187

500 - Stainless steel mounting set for SF limit switch boxes

Includes bracket VDI/VDE 3845, gland pack & cap M20.

VDI / VDE 3845



type	length F (mm)	width E (mm)	height (mm)	stem height (mm)	code
Kit NAMUR 0	50	25	46	20	050210
Kit NAMUR 1	80	30	45	20	050072
Kit NAMUR 2	80	30	55	30	050061
Kit NAMUR 3	130	30	55	30	050073
Kit NAMUR 4	130	30	75	50	050081

Spare gland pack & cap

Polyamide - TS: -30°C/+100°C.

For wires Ø 3,5-8 mm	code
Gland pack M20 x 1,5	980181
Cap M20 x 1,5	980182

ATEX limit switch boxes

SF-3GD - Limit switch box IP65 ATEX Ex "n"

SIL IP 65 Ex Zones 2, 22

Polyester coated polyester aluminium box & cover - Stainless steel stem - Adjustable 3D position indicator - 2 wire inlets M20 x 1,5 - F05 ISO pad - Stem VDI/VDE 3845 - **Without gland pack, cap & bracket.**
3F3G 01200: CE Ex II 3D Ex tD A22 IP65 T85°C - 3F3G 6H200: CE Ex II 3G Ex nA IIC T6 & CE Ex II 3D Ex tD A22 IP65 T80°C. SIL 2 (& SIL 3 capable).

type	switches	zones	Amb. temp.	code
SF3G 01200	2 SPDT silver plated mechanical switches 250V AC - 5A	22	-20°C/+60°C	0476012
SF3G 6H200	2 inductive detectors 3 threads PNP 10-30V DC P+F NBB2 V3 E2	2 & 22	-20°C/+41°C	0476010

SIB - Limit switch box IP67 ATEX Ex "ia"

SIL IP 67 Ex Zones 1, 21, 2, 22

ATEX certification for complete box & switches - Aluminium box - Anti-UV polycarbonate cover - Adjustable 3D position indicator - **Without gland pack, cap & bracket.**
CE Ex II 2G Ex ia IIC T6 Gb & CE Ex II 2D Ex ia IIIb T44°C Db IP65-67. SIL 2 (& SIL 3 capable).

type	switches	Amb. temp.	code
SIB 70221-2	2 inductive detectors NAMUR P+F NJ2 V3N / N - NO	-20°C/+80°C	04747022

SK - Limit switch box IP67 anti-explosion IIC

SIL IP 67 Ex Zones 1, 21, 2, 22

Polyester coated aluminium box & cover - Stainless steel stem - Adjustable 3D position indicator - 2 wire inlets 1/2" NPT - Universal adjustable bracket VDI/VDE 3845 for NAMUR 1, 2, 3 & 4 - **Without gland pack & cap.** CE Ex II 2G Ex d IIC T6/T5/T4 & CE Ex II 2D Ex tb IIIC T85°/100°C/135°C Db IP66-67. SIL 2 (& SIL 3 capable).

type	switches	amb. temp	code
SK 01200	2 SPDT silver plated mechanical switches 250V AC - 5A / 24V DC-3A	-20°C/+80°C	0477012

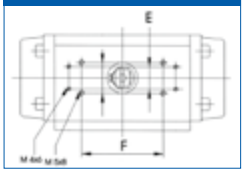
SY - Limit switch box IP68 anti-explosion IIC

Coated polyester aluminium box & cover - Stainless steel stem - Adjustable 3D position indicator - 2 inlets M25 x 1,5 - F05 ISO pad - Stem VDI/VDE 3845 - **Without gland pack, cap & bracket.**
CE Ex II 2G Ex d IIC T6/T5/T4 & CE Ex II 2D Ex tb IIIC T110°/110°C/140°C Db IP68. SIL 2 (& SIL 3 capable).

SIL | IP 68 | Ex Zones 1, 21, 2, 22

type	switches	amb. temp.	code
SY 01200-8	2 SPDT silver plated mechanical switches 250V AC - 5A	-20°C/+80°C	0475012
	Indicator for 3 way L valves		980186
	Indicator for 3 way T valves		980187

VDI / VDE



615 - Stainless steel bracket VDI/VDE 3845 for SF, SIB & SY limit switch boxes

type	length F (mm)	width E (mm)	stem heigth (mm)	heigth (mm)	code
NAMUR 1	80	30	45	20	061659N
NAMUR 2	80	30	55	30	061615N
NAMUR 3	130	30	55	30	061660N
NAMUR 4	130	30	75	50	061662N

Spare gland packs & caps

For wires Ø 3,2-8,7 mm	code
polyamide & glass fiber	
Gland pack ATEX SI M20 x 1,5	980185
Cap M20 x 1,5	980182
chrome-plated brass	
Gland pack ATEX ADF 1/2" NPT	980176
Cap ATEX ADF 1/2" NPT	980178
Gland pack ATEX ADF M20 x 1,5	980179
Cap ATEX ADF M20 x 1,5	980169
Gland pack ATEX ADF M25 x 1,5	980165
Cap ATEX ADF M25 x 1,5	980164

Position detectors

Inductive position detector IFM

NEW

type	switches	amb. temp.	code
IN 5227	Dual detector - IP 67 - 10-36V DC - 2 NO outlets - With base for M12 connector	-25°C/+80°C	121152N
EVC 811	M12 connector for IN 5225		121148
IN 0108	Dual detector - IP 67 - 20-250V AC/DC - 2 NO outlets - With base for M18 connector	-25°C/+80°C	121134N
E 10013	M18 connector for IN 0108		121137
	ATEX inductive position detector IFM		
NN 5013	Dual detecto - ATEX EX ia IIC T6 - IP67 - 8V DC - 2 NC outlets - With base for M18 connector	-20°C/+70°C	121135N
E 1003A	M18 angle connector for NN 5013 - ATEX EX ia IIC T6		121145
NN 5008	Dual detector - ATEX EX ia IIC T6 - IP67 - 8V DC - 2 NC outlets - With base for M12 connector	-20°C/+70°C	121146N
ENC 04A	M12 angle connector for NN 5008 - ATEX EX ia IIC T6		121140
	Detector cam for inductive position detector IFM		
E12517 Ø53	Detector cam for ADA/ASR (Actreg) actuators		121272
E12517 + E12526 Ø53	Detector cam for RE43 to RE101 (Alphair) actuators		121271N
E17328 Ø102	Detector cam for RE116 to RE201 (Alphair) actuators		121274

not on stock, on request.

NEW

Actuation set AS-Interface

Dual detector AC2316 AS-Interface with connection set - Norgren Herion solenoid valve (24V DC) - Insulation displacement connector - detector cam (suitable for RE43 to RE101 & ADA/ASR) - 2 silencers.

type	code
AC0021	121285

Inductive position detector P+F

type	switches	amb. temp.	code
NBN3-F31-Z8-V1	Dual detector – IP 67 – 6-60V DC– 2 NO outlets - With base for M12 connector	-25°C/+70°C	121131
	Inductive position detector P+F with terminal chamber		
NBN3-F31K-E8-K	Dual detector - IP 67 - 10-30V DC - 2 PNP inlets & solenoid pilot valve outlet - With base for M12 + M20 gland pack - ⚠ Not for ADA/ASR (Actreg) actuators	-25°C/+70°C	122133
	ATEX inductive position detector P+F		
NCN3-F31K-N4-K	Dual detector - ATEX EX ia IIC T6 - IP 67 - 8V DC - 2 NC outlets - With base for M12 + M20 gland pack		122136
	Detector cam for inductive position detector P+F		
BT65A	Cam P+F Namur 1 & 2		122131
BT115A	Cam P+F Namur 3 & 4		122132

Quarter-turn actuators - HVAC - IP67

Specifications: Compact type - 90° operating angle (±2°) - ISO 5211 pad, star connection - ABS plastic enclosure - Steel reducing box - Room temp.: -15°C/+50°C - S4 duty service: 30% of time.
Standard equipment: adjustable limit switches + 2 auxiliary limit switches - Thermal protection - 3D position indicator - Manual override by hex key - Parallel connection possible.

IP 67 CE

T15 - Electric actuator - 15 Nm

2-wire connection - Electric connection: M12 gland pack with 1,5 m cable.

type	fonction	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	⬡	voltage	code
T15	On-off	15	12	30	F03/F05	11	110 - 230V AC	022500
T15	On-off	15	12	20	F03/F05	11	12 - 24V DC & 24V AC	022501

Specifications: Compact type - 90° operating angle (±2°) - ISO 5211 pad, star connection - ABS plastic enclosure - Steel reducing box - Room temp.: -20°C/+60°C - S4 duty service: 50% of time (except for TCR20 & TCR40: S3 duty service: 85% of time).
Standard equipment: adjustable limit switches + 2 auxiliary limit switches - Thermal protection - 3D position indicator - Manual override by hex key - Parallel connection possible.

IP 67 CE

Standard

Wireless

Clever, regulation, timer

TCR02 - Electric actuator - 20 Nm

Electric connection: M10 gland pack with 1,5 m cable.

type	fonction	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	⬡	voltage	code
			On-off actuators					
TCR02N	On-off	20	10	15	F03/F05	11	95-265V AC/DC	024110
TCR02N	On-off	20	10	15	F03/F05	11	24V AC/DC	024111
TCR02N	On-off	15	15	15	F03/F05	11	12V DC	024112
TCR02NH	Quick-acting	15	6	25	F03/F05	11	95-265V AC/DC	024130
TCR02NH	Quick-acting	15	6	25	F03/F05	11	24V AC/DC	024131
TCR02NKT32	Capacitor return	15	15	10	F03/F05	11	95-265V AC/DC	024120
TCR02NKT32	Capacitor return	15	15	36	F03/F05	11	24V AC/DC	024121
TCR02D	Timer	20	10	15	F03/F05	11	95-265V AC/DC	024160
TCR02D	Timer	20	10	15	F03/F05	11	24V AC/DC	024161
			Regulating actuators					
TCR02C	Clever	20	10	15	F03/F05	11	95-265V AC/DC	024140
TCR02C	Clever	20	10	15	F03/F05	11	24V AC/DC	024141
NEW TCR02C	Clever/3 positions	20	10	15	F03/F05	11	95-265V AC/DC	024154
NEW TCR02C	Clever/3 positions	20	10	15	F03/F05	11	24V AC/DC	024155
TCR02T	Regulation 4-20 mA	20	10	10	F03/F05	11	95-265V AC/DC	024150
TCR02T	Regulation 4-20 mA	20	10	10	F03/F05	11	24V AC/DC	024151
NEW TCR02T	Regulation 0-10 V	20	10	10	F03/F05	11	95-265V AC/DC	024152
NEW TCR02T	Regulation 0-10 V	20	10	10	F03/F05	11	24V AC/DC	024153
TCR02TKT32	Regulation 4-20 mA + Capacitor return	15	15	36	F03/F05	11	95-265V AC/DC	024190
TCR02TKT32	Regulation 4-20 mA + Capacitor return	15	15	36	F03/F05	11	24V AC/DC	024191

TCR05 - Electric actuator - 50 Nm

Electric conncection: M20 gland pack with 1,5 m cable.

type	fonction	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	⬡	voltage	code
			On-off actuators					
TCR05N	On-off	50	12	25	F05/F07	14	95-265V AC/DC	024310
TCR05N	On-off	50	12	25	F05/F07	14	24V AC/DC	024311
TCR05N	On-off	50	12	25	F05/F07	14	12V DC	024312
TCR05NH	Quick-acting	50	5	40	F05/F07	14	95-265V AC/DC	024330
TCR05NH	Quick-acting	50	5	40	F05/F07	14	24V AC/DC	024331
TCR05NKT32	Capacitor return	50	12	40	F05/F07	14	95-265V AC/DC	024320
TCR05NKT32	Capacitor return	50	12	40	F05/F07	14	24V AC/DC	024321
NEW TCR05D	Timer	50	12	25	F05/F07	14	95-265V AC/DC	024360
			Regulating actuators					
TCR05T	Regulation 4-20 mA	50	12	25	F05/F07	14	95-265V AC/DC	024350
TCR05T	Regulation 4-20 mA	50	12	25	F05/F07	14	24V AC/DC	024351
TCR05TKT32	Regulation 4-20 mA + Capacitor return	50	12	40	F05/F07	14	95-265V AC/DC	024390
TCR05TKT32	Regulation 4-20 mA + Capacitor return	50	12	40	F05/F07	14	24V AC/DC	024391

Standard

Capacitor return

Clever, regulation

TCR11 - Electric actuator - 100 Nm

Electric connection: 2x M14 gland pack with 1,5 m cable.

type	fonction	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	⌀	voltage	code
			On-off actuators					
TCR11N	On-off	110	10	100	F05/F07	17	95-265V AC/DC	024610
TCR11N	On-off	110	10	100	F05/F07	17	24V AC/DC	024611
TCR11NH	Quick-acting	110	5	100	F05/F07	17	95-265V AC/DC	024630
TCR11NH	Quick-acting	110	5	100	F05/F07	17	24V AC/DC	024631
TCR11NKT32	Capacitor return	90	10	100	F05/F07	17	95-265V AC/DC	024620
TCR11NKT32	Capacitor return	90	10	100	F05/F07	17	24V AC/DC	024621
			Regulating actuators					
TCR11C	Clever	90	10	100	F05/F07	17	95-265V AC/DC	024640
TCR11C	Clever	90	10	100	F05/F07	17	24V AC/DC	024641
NEW TCR11C	Clever/3 positions	90	10	100	F05/F07	17	95-265V AC/DC	024654
NEW TCR11C	Clever/3 positions	90	10	100	F05/F07	17	24V AC/DC	024655
TCR11T	Regulation 4-20 mA	110	10	100	F05/F07	17	95-265V AC/DC	024650
TCR11T	Regulation 4-20 mA	110	10	100	F05/F07	17	24V AC/DC	024651
TCR11TKT32	Regulation 4-20 mA + Capacitor return	90	10	100	F05/F07	17	95-265V AC/DC	024690
TCR11TKT32	Regulation 4-20 mA + Capacitor return	90	10	100	F05/F07	17	24V AC/DC	024691

TCR20 - Electric actuator - 200 Nm

Electric connection: 2 x M20 gland pack with 1,5m cable.

type	fonction	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	⌀	voltage	code
			On-off actuators					
TCR20N	On-off	200	25	50	F07/F10	22	95-265V AC/DC	024700
TCR20N	On-off	200	25	50	F07/F10	22	24V AC/DC	024701
TCR20NKT32	Capacitor return	200	25	50	F07/F10	22	95-265V AC/DC	024710
TCR20NKT32	Capacitor return	200	25	50	F07/F10	22	24V AC/DC	024711
			Regulating actuators					
NEW TCR20T	Regulation 4-20 mA	200	25	50	F07/F10	22	95-265V AC/DC	024750
NEW TCR20T	Regulation 4-20 mA	200	25	50	F07/F10	22	24V AC/DC	024751

TCR40 - Electric actuator - 400 Nm

Electric connection: 2 x M20 gland pack with 1,5m cable.

type	fonction	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	⌀	voltage	code
			On-off actuators					
TCR40N	On-off	400	25	80	F07/F10	22	95-265V AC/DC	024720
TCR40N	On-off	400	25	80	F07/F10	22	24V AC/DC	024721
			Regulating actuators					
NEW TCR40T	Regulation 4-20 mA	400	25	80	F07/F10	22	95-265V AC/DC	024760
NEW TCR40T	Regulation 4-20 mA	400	25	80	F07/F10	22	24V AC/DC	024761

Quarter-turn actuators - Industry - IP67

Specifications: Compact type - 90° operating angle (±5°) - Comply with EN 15714-2 standard - ISO 5211 pad, star connection - Epoxy coated aluminium enclosure - Steel reducing box - Room temp.: -20°C/+70°C (except SA05-X: -20°C/+55°C).
Standard equipment: 2 adjustable limit switches + 2 auxiliary limit switches - Thermal protection - Position indicator with led - Supplied electrical connection: gland pack 2 x M20 x 1,5 (except SA05-X).

IP 67 CE

SA03 - Electric actuator - 30 Nm

Resistance heater 3W - Duty service: S2-15 min / S4: 50% of time - Declutchable manual override by key (included).

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	⌀	voltage	code
SA03	30	12	18	F03/F05	11	230V AC	023000
SA03	30	9/7	18	F03/F05	11	24V AC/DC	023001

SA05 - Electric actuator - 50 Nm

Resistance heater 5W - Duty service: S2-15 min / S4: 50% of time - Manual override by key (included), except SA05-S.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	⌀	voltage	code
SA05	50	17	6	F03/F05/F07	14	230V AC	023010
SA05	50	10	15	F03/F05/F07	14	24V AC/DC	023011
SA05	50	11	6	F03/F05/F07	14	12V DC	023012
special execution: slow closing							
SA05-S	50	100	6	F03/F05/F07	14	230V AC	023020
SA05-S	50	100	6	F03/F05/F07	14	24V AC/DC	023021

SA05-X - ATEX electric actuator - 50 Nm

Resistance heater 5W - Manual override by key (included) - Duty service: S2-15 min / S4: 50% of time - CE Ex II 2G Ex d IIB T4, areas 1 & 2.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	⌀	voltage	code
SA05-X	50	17	6	F03/F05/F07	14	230V AC	023310
SA05-X	50	10	15	F03/F05/F07	14	24V AC/DC	023311

type	code
Gland-pack ATEX 1/2" M20 x 1,5	980179
Cap ATEX 1/2" M20 x 1,5	980169

SA05-PCU - 4-20 mA / Proportional control unit electric actuator - 50 Nm

Includes control card 4-20 mA, 2-20 mA, 0-10 V, 2-10 V and potentiometer 4-20 mA - Duty service: S2: 70% of time.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	⌀	voltage	code
SA05-PCU	50	17	6	F03/F05/F07	14	230V AC	023050
SA05-PCU	50	17	15	F03/F05/F07	14	24V AC/DC	023051

SA05-SCP - Fail safe / Safety electric actuator - 50 Nm

Back to original position if lack of current - Built-in security super capacitor - Duty service: S2: 70% of time.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	⌀	voltage	code
SA05-SCP	50	8	120	F03/F05/F07	14	230V AC	023065
SA05-SCP	50	8	60	F03/F05/F07	14	24V DC	023066

Specifications: Positive safety with spring return - Compact type - 90° operating angle (±5°) - ISO 5211 pad, star connection - Epoxy coated aluminium enclosure - Steel reducing box - Room temp.: -20°C/+55°C.
Standard equipment: 2 adjustable limit switches + 2 auxiliary limit switches - Thermal protection - Position indicator with led - Supplied electrical connection: gland pack 2 x M20 x 1,5.

IP 67 CE

SR03-PCU - Spring return electric actuator - 30 Nm

Resistance heater 5W - Duty service: S4: 100% of time - Manual override by key (included).

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	⌀	voltage	code
SR03-PCU	30	10-35	40	F03/F04/F05	11	230V AC	023070
SR03-PCU	30	10-35	40	F03/F04/F05	11	24V AC/DC	023071

Specifications: Compact type - 90° operating angle (±5°) - ISO 5211 pad, star connection - Epoxy coated aluminium enclosure - Steel reducing box - Room temp.: -20°C/+70°C (except NA-X: -20°C / +55°C) - Torque limiter (except NA06 & NA09) - S2 duty service: 70% of time.
Standard equipment: 2 adjustable limit switches - 2 dry auxiliary limit switches 250V 16A - Thermal protection - Resistance heater 20W - Position indicator - Manual override by handwheel - Supplied electrical connection: gland packing 2 x M20 x 1,5 (except NA-X).

IP 67 CE

NA - Electric actuator

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO	⬡	230V AC code	3~400V AC code	24V AC code	24V DC code
NA06	60	17	15	F07	17	023110	023113	023111	023114
NA09	90	17	25	F07	17	023120	023123	023121	023124
NA15	150	20	40	F07/F10	17	023130	023133	023131	023134
NA28	280	24	40	F10/F12	22	023150	023153	023151	023154
NA38	380	24	60	F10/F12	27	023160	023163	-	-
NA60	600	29	90	F12/F14	27	023180	023183	-	-
NA100	1000	29	180	F12/F14	27	023200	023203	-	-
NA150	1500	87	98	F14/F16	36	023210	023213	-	-
NA200	2000	87	180	F14/F16	36	023220	023223	-	-
NA250	2500	87	180	F14/F16	46	023230	023233	-	-

NA-X - ATEX electric actuator

Specifications and equipment: same as NA actuator, except: CE Ex II 2 G Ex d II B T4, areas 1 & 2.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO	⬡	230V AC code
NA06-X	60	17	15	F07	17	023320
NA09-X	90	17	25	F07	17	023330
NA15-X	150	20	40	F07/F10	17	023340
NA28-X	280	24	40	F10/F12	22	023360
NA38-X	380	24	60	F10/F12	27	023370
NA60-X	600	29	90	F12/F14	27	023390

type	code
Gland-pack ATEX 1/2" M20 x 1,5	980179
Cap ATEX 1/2" M20 x 1,5	980169

NA-PCU - 4-20 mA / Proportional control unit electric actuator

Specifications and equipment: same as NA - Includes control card & potentiometer 4-20 mA.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO	⬡	230V AC code
NA09-PCU	90	17	25	F07	17	023550
NA15-PCU	150	20	40	F07/F10	17	023560
NA28-PCU	280	24	40	F10/F12	22	023580

NA-RBP - Fail safe / Security electric actuator

Specifications and equipment: same as NA - Back to original position if lack of current - Built-in rechargeable security battery.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO	⬡	230V AC code
NA09-RBP	90	17	25	F07	17	023720
NA15-RBP	150	20	40	F07/F10	17	023730

Specfications: Positive safety with spring return - 90° operating angle (±5°) - ISO 5211 pad, star connection - Epoxy coated aluminium enclosure - Room temp.: -20°C/+55°C - S2 duty service: 15 min.
Standard equipment: Resistance heater 20W - Manual override by handwheel - Supplied electrical connection: gland packing 2 x M20 x 1,5 (except SR-X).

IP 67 CE

SR - Spring return electric actuator

type	torque (Nm)	operating time 90° (s)	spring closing (s)	electrical power (W)	ISO	⬡	230V AC code
SR05	50	16/14	1	40	F07	14	023080
SR10	100	20/19	1	60	F07/F10	17	023090
SR30	300	89/82	2	60	F10/F12	22	023106

SR-X - ATEX spring return electric actuator

Specifications and equipment: same as SR actuator, except: CE Ex II 2 G Ex d II B T4, areas 1 & 2.

type	torque (Nm)	operating time 90° (s)	spring closing (s)	electrical power (W)	ISO	⬡	230V AC code
SR05-X	50	16/14	1	40	F07	14	023450
SR10-X	100	20/19	1	60	F07/F10	17	023460
SR30-X	300	89/82	2	60	F10/F12	22	023470

Quarter-turn Bernard actuators – IP68

2014/108/EU Directive - 2014/35/EU Directive.
Specifications: Compact type - 90° operating angle - On-off class A actuator acc. to EN 15714-2 - Protection C4 acc. to ISO 12944 - ISO 5211 pad, star connection - Epoxy coated aluminium enclosure - Lifetime lubrication - Room temp.: -20°C/+60°C - S4 duty service: 30% of time, up to 120 start/h at peak.
Standard equipment: 2 SPDT adjustable limit switches - 2 dry auxiliary limit switches - 3D position indicator - Manual override by hexagonal key 10mm - Electrical connection: 2 entries M20 (gland packing not included).

IP 68 CE BERNARD CONTROLS

AQL - Electric actuator

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO	⌀	230V AC + 24V DC code
AQ3L	30	15	20	F03/F04/F05	14	028410
AQ7L	70	15	20	F05/F07	22	028430

2014/108/EU Directive - 2014/35/EU Directive.
Specifications: Compact type - 90° operating angle - On-off class A actuator acc. to EN 15714-2 - Protection C4 acc. to ISO 12944 - ISO 5211 pad, star connection - Epoxy coated aluminium enclosure - Lifetime lubrication - Room temp.: -20°C/+60°C - S4 duty service: 30% of time, up to 360 start/h at peak.
Standard equipment: 2 SPDT adjustable limit switches - 2 dry auxiliary limit switches - 3D position indicator - Resistance heater - Torque limiter from AQ-25 to AQ-50 - Manual override by handwheel - Electrical connection: gland packing M20 (not included).

IP 68 CE BERNARD CONTROLS

AQ SWITCH - Electric actuator

type	torque (Nm)	operating time 90° (s)	electrical power (W) 230V AC	electrical power (W) 3~400V AC	ISO	⌀	230V AC code	3~400V AC code	24V DC code
AQ5	50	16	15	30	F05/F07	14	028440	028445	028441
AQ10	100	25	15	30	F05/F07	17	028450	028455	028451
AQ15	150	25	30	30	F05/F07	17	028460	028465	028461
AQ25	250	30	40	40	F07/F10	22	028470	028475	028471
AQ30	300	35	40	40	F07/F10	27	028480	028485	-
AQ50	500	35	60	70	F07/F10	27	028490	028495	-

not on stock, on request.

Multi-turn Regada actuators - IP67

Specifications: On/off multi-turn actuators - ISO 5211 pad - S4 duty service: 25% of time / 10 cycles/hour.
Standard equipment: Resistance heater 20W - Torque limiter - Manual override by handwheel - Electrical connection: not included.

IP 67 CE REGADA

SO2 - Multi-turn electric actuator for rotating non-rising stem linear valves

Room temperature range: -10°C/+55°C.

type	torque (Nm)	speed (rpm)	electrical power (W)	ISO	stem (Ø x pitch)	230V AC code	3~400V AC code
SO2	61	12,5	300	F10	20 x 4	027101	-
SO2	76	10	300	F10	20 x 4	027102	-
SO2	68	12,5	240	F10	20 x 4	-	027103
SO2	85	10	240	F10	20 x 4	-	027104

SO2-MO3 - Multi-turn electric actuator for rotating rising stem linear valves

Room temperature range: -25°C/+55°C.

type	torque (Nm)	speed (rpm)	electrical power (W)	ISO	stem (Ø x pitch)	230V AC code
SO2	38	20	300	F10	20 x 4	027100
MO3	60	40	500	F10	25 x 5	027150

Multi-turn Auma actuators - IP68

Specifications: On/off multi-turn actuators - ISO 5211 pad - Room temp.: -25°C/+80°C - S2 intermittent duty service: 15 min.
Standard equipment: Resistance heater 20W - Torque limiter - Manual override by handwheel - Electrical connection: M20, M25 & M32 x 1,5.

IP 68 CE auma

SA - Multi-turn electric actuator for rotating non-rising stem linear valves

Coupling type: B3 - Machined steel drive nut for splined shafts.

type	torque (Nm)	speed (rpm)	electrical power (W)	ISO	⧄	3~400V AC code
SA07.6	60	45	200	F10	20	027026
SA10.2	120	45	400	F10	20	027036
SA14.2	250	45	750	F10	30	027046

SA - Multi-turn electric actuator for rotating rising stem linear valves

Coupling type: A - Non-machined brass drive nut.

type	torque (Nm)	speed (rpm)	electrical power (W)	ISO	Ø stem max. (mm)	3~400V AC code
SA07.2	30	45	100	F10	34	027015
SA07.6	60	45	200	F10	34	027025
SA10.2	120	45	400	F10	40	027035

Accessories for actuated valves

Stem extension for actuated valves

RH 100 - Stainless steel stem extension

Height 100 mm - ISO pad base F04/F05 - ISO pad top F05/F07.

valves type	Ø	code	Ø	code
715 XS	1/2" to 1"1/2	RHVM01	2"	RHVM02
780 XS – 781 XS	1/2" to 1"1/2	RHVM01	2"	RHVM02
747 XS	1/2" to 1"1/4	RHVM01	1"1/2 to 2"	RHVM02
736 XS – 746 XS	1/2" to 1"1/4	RHVM01	1"1/2 to 2"	RHVM02
710 – 711	1/2" to 1"1/4	RHVM01	1"1/2 to 2"	RHVM02
765 XS	1/2" to 1"1/4	RHVM01	1"1/2 to 2"	RHVM02

Stem extension for all purposes

RHV-XS - Stainless steel stem extension

valves type	Ø	ISO pad	height (mm)	code
702 XS - 703 XS	1/2" to 3/4"	F03/F04	61	RHVXS03
715 XS - 736 XS	1" to 1"1/4	F04/F05	67	RHVXS05
746 XS	1" to 1"1/4	F04/F05	67	RHVXS05
747 XS - 765 XS	1"1/2 to 2"	F05/F07	86	RHVXS07
771 XS - 780 XS	1"1/2 to 2"	F05/F07	86	RHVXS07

Declutchable gearbox

RMD - Declutchable gearbox

Cast iron GG25 body - Steel wheel - To select a gearbox, add the valve torque & the actuator torque (compressed springs).

	valve		actuator			
type	ISO	⧄F	ISO	⧄M	torque (Nm)	code
RMD 0A	F05	17	F05	14	125	041480
RMD 0A-17	F05	17	F05	17	125	041480M17
RMD 1A	F07/F10	22	F07	17	270	041481
RMD 1A-22	F07/F10	22	F07	22	270	041481M22
RMD 2A	F10/F12	27	F10/F12	22	800	041482
RMD 2A-27	F10/F12	27	F10/F12	27	800	041482M27
RMD 2A-36	F10/F12	27	F10/F12	36	800	041482M36
RMD 3A	F12	27	F12	27	1150	041483
RMD 4A	F14	36	F14	36	2500	041484

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Bronze

2014/68/EU Directive N°0036 - Risk category I / module A - CC499K body - EPDM tightness - Stainless steel strainer - Stainless steel seat up to 1"1/4, bronze seat above - For clean fluids - Downstream setting range: 1 to 8 bar - PS: 25 bar for threaded female & male union; PS: 16 bar for flanged PN16 - TS: -10°C/+95°C - Supplied with pressure gauge(s) - Not for gas of group 1.

CE 0036 | 3.1 | 40 €/pc | on request

681 / 682

Threaded female BSP

Ø	face to face (mm)	weight (kg)	code
1/2"	85	1,20	246842
3/4"	95	1,30	246843
1"	105	2,40	246844

Male union BSP

Ø	face to face (mm)	face to face with fittings (mm)	weight (kg)	code
1/2"	80	142	1,20	246812
3/4"	90	158	1,30	246813
1"	100	180	2,40	246814
1"1/4	105	193	2,60	246815
1"1/2	130	226	5,50	246816
2"	140	252	6,00	246817

Flanged PN16

DN	face to face (mm)	weight (kg)	max. flow (m³/h)	code
20	150	4,2	10	246823
25	160	4,7	16	246824
32	180	5,9	18	246825
40	200	8,6	20	246826
50	230	10,5	27	246827
65*	290	20	60	246828
80	310	22	68	246829
100	350	40	102	246830

* 4 hole flanges.

not on stock, on request.

2014/68/EU Directive N°0036 - Risk category II - CC499K body - FKM tightness - Brass inner parts - PS: 60 bar - TS: -10°C/+120°C - Downstream setting range: 0,5 to 15 bar with membrane; 5 to 30 & 10 to 50 bar with piston - Supplied with pressure gauge - For all compatible fluids.

CE 0036 | 3.1 | 40 €/pc | on request

HIGH PRESSURE

684 - High pressure BSP

Ø	face to face (mm)	weight (kg)	Downstream pressure 0,5 - 15 bar code	Downstream pressure 5 - 30 bar code	Downstream pressure 10 - 50 bar code
1/4"	68	1,2	246900	246920	246940
3/8"	68	1,2	246901	246921	246941
1/2"	68	1,2	246902	246922	246942
3/4"	78	2,8	246903	246923	246943
1"	102	15,3	246904	246924	246944
1"1/2	136	9,4	246905	246925	246945
2"	136	10,2	246906	246926	246946

not on stock, on request.

Cast iron

Exluded from 2014/68/EU Directive (article 4, §3) - Epoxy-coated cast iron body - Brass & bronze inner parts - NBR tightness - Flanged RF PN16 - PS: 16 bar - TS: -10°C/+80°C - Downstream pressure adjustable with screw - Supplied with pressure gauge - For clear water and other liquids from group 2.

2420 - BFR - Coaxial

DN	Kv (m³/h)	face to face (mm)	weight (kg)	Downstream pressure 1 - 7 bar code	Downstream pressure 4 - 12 bar code
50	64	190	12	2420050SE	2421050SE
65*	89	210	14	2420065SE	2421065SE
80	119	225	19	2420080SE	2421080SE
100	222	255	26	2420100SE	2421100SE
125	333	285	37	2420125	2421125
150	470	315	50	2420150	2421150
200	854	420	94	2420200	2421200SE
250	1367	470	152	2420250	2421250SE
300	1880	530	202	2420300	2421300SE

* 4 hole flanges.

not on stock, on request.

■ Stainless steel

2014/68/EU Directive n°0035 - Risk category II / module D1 - CF8M body -
Supplied with stainless steel pressure gauge indicating the dowstream pressure.

CE 0035 | 3.1 see p. 22

2430 - LPRV - Low pressure

FKM seat - PS: 10 bar - TS: -15°C/+80°C - For all compatible clean fluids.

Threaded BSP — Downstream pressure

Ø	face to face (mm)	weight (kg)	0,2 - 1,5 bar code
1/2"	70	0,80	243001
3/4"	85	1,00	243011
1"	90	1,05	243021
1"1/2	115	2,30	243031
2"	120	2,50	243041

on request

2441 - PRV-W

EPDM seat - PS: 16 bar - TS: -15°C/+80°C - For potable water.

CE 1935 | ACS Drinking water

Threaded BSP — Downstream pressure

Ø	face to face (mm)	weight (kg)	1 - 6 bar code
1/2"	70	0,80	244101
3/4"	85	1,00	244111
1"	90	1,05	244121

2440 - PRV

FKM seat - PS: 16 bar - TS: -15°C/+100°C - For all compatible clean fluids.

on request

Threaded BSP — Downstream pressure

Ø	face to face (mm)	weight (kg)	1 - 6 bar code	4 - 10 bar code
1/2"	70	0,80	244001	244002
3/4"	85	1,00	244011	244012
1"	90	1,05	244021	244022
1"1/2	115	2,30	244031	244032
2"	120	2,50	244041	244042

Flanged PN16 — Downstream pressure

DN	face to face (mm)	weight (kg)	1 - 6 bar code	4 - 10 bar code
15	155	2	245001	245002
20	155	3	245011	245012
25	155	5	245021	245022
40	192	8	245031	245032
50	195	12	245041	245042
65	210	16	245051	245052
80	225	18	245061	245062
100	250	25	245071	245072

not on stock, on request.

2442 - PRV

FKM seat - PS: 16 bar - TS: -15°C/+100°C - For all compatible clean fluids.

on request

Threaded NPT — Downstream pressure

Ø	face to face (mm)	weight (kg)	1 - 6 bar code
1/2"	70	0,80	244201
3/4"	85	1,00	244211
1"	90	1,05	244221

F316 body - Supplied with upstream & dowstream pressure gauges.

3.1 see p. 22

HIGH PRESSURE

PRU - 240 bar NPT

PFA gasket - Max. upstream pressure: 3500 psi / 240 bar -
TS: -40°C/+175°C - For gas.

Ø	downstream pressure	Kv (m^3/h)	code
1/4"	1 - 50 psi 0,07 - 3,4 bar	0,051	2420001
1/4"	3 - 250 psi 0,2 - 17 bar	0,051	2420002
1/4"	5 - 500 psi 0,35 - 34 bar	0,051	2420003
1/2"	2 - 150 psi 0,15 - 10 bar	0,85	2420011
1/2"	3 - 250 psi 0,2 - 17 bar	0,85	2420012
1/2"	5 - 500 psi 0,35 - 34 bar	0,85	2420013

PRU - 400 bar NPT

PEEK gasket for 1/4", PCTFE seat for 1/2" -
Max. upstream pressure: 6000 psi / 400 bar -
TS: -25°C/+75°C - For liquids.

Ø	downstream pressure	Kv (m^3/h)	code
1/4"	0 - 2500 psi 0 - 170 bar	0,05	2420022
1/2"	0 - 2500 psi 0 - 170 bar	0,17	2420032SE

Threaded

2014/68/EU Directive N°0036 - Risk category IV / module H1 - Testing device - D type: all common fluids / F type: compressed air / G type: gas & liquids - Min. setting pressure: 0,3 bar - Standard settings 0,5 to 12 bar (every 0,5 bar): on stock -
Mandatory certificate **5 €/pc additional will be invoiced**.
⚠ **For settings above 12 bar please consult for price & delivery time.**

on request | CE 0036 | 3.1 15 E/DN on request | Ex Zones 1, 2, 21, 22 on request

COMPRESSED AIR

2800 - Brass - Free outlet BSP

CW614N body (stainless steel on request) - FKM seat -
TS: -20°C/+200°C.

inlet Ø	ref.	max. setting pressure (bar)	code
1/4"	D7	60	28000
3/8"	D10	60	28001
1/2"	D10	60	28002
3/4"	D14	30	28003
1"	F18	21	28004
1"1/4	F25	30	28005
1"1/2	F32	14	28006
2"	F40	30	28007

2810 - Brass - Free outlet BSP

CW614N body - PTFE seat.
TS: -20°C/+190°C.

inlet Ø	ref.	max. setting pressure (bar)	code
3/8"	E10/S	100	28101
1/2"	E10/S	100	28102
3/4"	E10/S	100	28103
1"	E14/S	100	28104

281X - Stainless Steel - Free outlet BSP

2812 - F316 body - NBR seat - TS:-10°C/+100°C.
2813 - F316 body - FKM seat - TS:-20°C/+200°C.
2815 - F316 body - PTFE seat - TS: -196°C/+250°C.

inlet Ø	ref.	max. setting pressure (bar)	NBR code	FKM code	PTFE code
1/4''	D7	60	28120	28130	28150
3/8''	D10	60	28121	28131	28151
1/2''	D10	60	28122	28132	28152
3/4''	D14	30	28123	28133	28153
1''	B20	60	28124	28134	28154
1''1/4	F25	30	28125	28135	28155
1''1/2	F32	14	28126	28136	28156
2''	F40	30	28127	28137	28157

LIQUIDS

2871 - Brass - Pipe outlet BSP

CW614N body - FKM seat -
TS: -20°C/+200°C.

inlet Ø	outlet Ø	ref.	max. setting pressure (bar)	code
1/4"	1/2"	D7/C	60	28710
3/8"	3/4"	D10/C	60	28711
1/2"	3/4"	D10/C	60	28712
3/4"	1"	G14	60	28713
1"	1"	G14	60	28714
1"1/4	1"1/4	G20	60	28715
1"1/2	1"1/2	G25	60	28716
2"	1"1/2	G32	14	28717

not on stock, on request.

STEAM

285X - Brass - Pipe outlet & lever BSP

Standard settings 0,5 to 15 bar (every 0,5 bar): on stock.
2851 - CN614N body - FKM+PTFE seat- TS: 165°C saturated steam.
2858 - CN614N body - KALREZ seat - TS: 200°C saturated steam.

inlet Ø	outlet Ø	ref.	max. setting pressure (bar)	2851 up to 6 bar code	2858 6,5 - 15 bar code
1/2"	1"	G10/L	30	28512	28582
3/4"	1"	G14/L	60	28513	28583
1"	1"1/4	G20/L	60	28514	28584
1"1/4	1"1/4	G20/L	60	28515	28585
1"1/2	1"1/2	G25/L	60	28516	28586
2"	2"	G40/L	14	28517	28587

not on stock, on request.

PROCESS
FOOD

2885 - Stainless steel - Pipe outlet BSP

CE 1935

F316 body - PTFE seat (other seats on request) - EC 1935/2004 - TS: -196°C/+250°C.

inlet Ø	outlet Ø	ref.	max. setting pressure (bar)	code
3/8"	3/4"	D10/C	60	28851
1/2"	3/4"	D10/C	60	28852
3/4"	1"	G10	30	28853
1"	1"	G14	60	28854
1"1/4	1"1/4	G20	60	28855
1"1/2	1"1/2	G25	60	28856
2"	1"1/2	G32	14	28857

not on stock, on request.

286X - Stainless Steel - Pipe outlet & lever

Standard settings 0,5 to 15 bar (every 0,5 bar): on stock.
2863 - F316 body – PTFE seat - TS: 180°C saturated steam.
2868 - F316 body - KALREZ seat - TS: 200°C saturated steam.

inlet Ø	outlet Ø	ref.	max. setting pressure (bar)	2863 up to 10 bar code	2868 up to 15 bar code
1/2"	1"	G10/L	30	28632	28682
3/4"	1"	G14/L	60	28633	28683
1"	1"1/4	G20/L	60	28634	28684
1"1/4	1"1/4	G20/L	60	28635	28685
1"1/2	1"1/2	G25/L	60	28636	28686
2"	2"	G40/L	14	28637	28687

not on stock, on request.

2863 CL - Stainless Steel - Clamp

F316 body - outlet Ra 0,4.

inlet DN	Ø flange (mm)	outlet DN	Ø flange (mm)	ref.	code
20	25	25	50,5	G10/L	2863CL1
25	50,5	25	50,5	G10/L	2863CL2
20	25	40	50,5	G14/L	2863CL3
25	50,5	40	50,5	G14/L	2863CL4
40	50,5	40	50,5	G20/L	2863CL5
40	50,5	40	50,5	G25/L	2863CL6
50	64	50	64	G40/L	2863CL7

not on stock, on request.

Vacuum & pressure valve

S98 - Stainless steel BSP

Excluded from 2014/68/EU Directive (article 4, §3) - F316L body - FKM seat -TS: 0°C/+150°C.

Ø	vacuum setting (bar)	pressure setting (bar)	code
1"	-0,05	+0,34	28904005

Safety valves

Flanged

2014/68/EU Directive N°0045 - Risk category IV / module B+D - Bureau Veritas Type approval certificate - Full lift - Stainless steel trim - Hardened seat & superfinished disc- Closed bonnet - Watertight cap - Testing lever - For steam, gas & liquids - Min. setting pressure: 0,5 bar - Mandatory certificate **14 €/pc additional will be invoiced**. ⚠ **Additional delivery time for setting.**

CE 0045 | 3.1 15 E/pc

6301 - Cast iron - Flanged PN16

TÜV SV 96.894 approval - Flange connections: inlet RF PN16 / outlet RF PN10/16 - GG25 body - TS: -10°C/+300°C.

inlet DN	outlet DN	max. setting pressure (bar)	code
20	32	16	250120
25	40	16	250125
32	50	16	250132
40	65	16	250140
50	80	16	250150
65*	100	16	250165
80	125	16	250180
100	150	16	250190
125	200	12,5	250191
150	250	10	250192

* 4 hole flanges. *not on stock, on request.*

6301 S - Ductile iron - Flanged PN40

UDT certification - Flange connections: inlet RF PN40 / outlet PN10/16 - GGG40 body - TS: -10°C/+350°C.

inlet DN	outlet DN	max. setting pressure (bar)	code
20	32	40	250220
25	40	40	250225
32	50	40	250232
40	65	32	250240
50	80	32	250250
65	100	32	250265
80	125	25	250280
100	150	20	250290

6301 W - Cast iron - Flanged PN16

WATER

Same as 6301, except: EPDM tightness & TS: -10°C/+120°C.

inlet DN	outlet DN	max. setting pressure (bar)	code
20	32	10	250420
25	40	10	250425
32	50	10	250432
40	65	10	250440
50	80	10	250450
65	100	10	250465

not on stock, on request.

6302 - Carbon steel - Flanged PN40

TÜV SV 96.894 approval - Flange connections: inlet RF PN40 / outlet PN10/16 - 1.0619 carbon steel body - TS: -40°C/+250°C.

inlet DN	outlet DN	max. setting pressure (bar)	code
20	32	40	250520
25	40	40	250525
32	50	40	250532
40	65	32	250540
50	80	32	250550
65	100	32	250565

Overflow valves

2014/68/EU Directive N°0036 - Risk category III - Products excluded from 2014/68/EU Directive risk category IV (not a safety device) - Pre-set pressure: 12 **E**/pc - Proportional opening - Adjustable pressure setting - Tight setting screw - PS: 20 bar.

CE 0036 | 3.1 40 E/pc | Ex on request

GOETZE

Angle

617 N - Bronze - NBR seat BSP

CC499K body - TS: -30°C/+130°C.

inlet Ø	Upstream pressure 0,2 - 0,8 bar code	0,5 - 2,5 bar code	2 - 12 bar code
3/8"	289231	289201	289211
1/2"	289232	289202	289212
3/4"	289233	289203	289213
1"	289234	289204	289214
1"1/4	289235	289205	289215
1"1/2	289236	289206	289216
2"	289237	289207	289217

not on stock, on request.

617 P - Bronze - PTFE seat BSP

CC499K body - TS: -60°C/+225°C.

inlet Ø	Upstream pressure 0,5 - 2,5 bar code	2 - 12 bar code	12 - 20 bar code
3/8"	289251	289261	289271
1/2"	289252	289262	289272
3/4"	289253	289263	289273
1"	289254	289264	289274
1"1/4	289255	289265	289275
1"1/2	289256	289266	289276
2"	289257	289267	289277

417 F - Stainless steel - FKM seat BSP

CF8M body (PTFE seat on request) - TS: -20°C/+200°C.

Ø	Upstream pressure 0,5 - 2,5 bar code	2 - 12 bar code
3/8"	289301	289311
1/2"	289302	289312
3/4"	289303	289313
1"	289304	289314
1"1/4	289305	289315
1"1/2	289306	289316
2"	289307	289317

417 P - Stainless steel - PTFE seat BSP

CF8M body - TS: -60°C/+225°C.

DN	Upstream pressure 0,5 - 2,5 bar code	2 - 12 bar code	12 - 20 bar code
3/8"	289351	289361	289371
1/2"	289352	289362	289372
3/4"	289353	289363	289373
1"	289354	289364	289374
1"1/4	289355	289365	289375
1"1/2	289356	289366	289376
2"	289357	289367	289377

not on stock, on request.

Straight

617 YN - Bronze - NBR seat BSP

CC499K body - TS: -30°C/+130°C.

Ø	Upstream pressure 0,5 - 2,5 bar code	Upstream pressure 2 - 12 bar code
3/8''	289401	289411
1/2''	289402	289412
3/4''	289403	289413
1''	289404	289414
1''1/4	289405	289415

617 YP - Bronze - PTFE seat BSP

CC499K body - TS: -30°C/+130°C.

Ø	Upstream pressure 0,5 - 2,5 bar code	Upstream pressure 2 - 12 bar code
3/8''	289451	289461
1/2''	289452	289462
3/4''	289453	289463
1''	289454	289464
1''1/4	289455	289465

417 YF - Stainless Steel - FKM seat BSP

CF8M body - TS: -20°C/+220°C.

Ø	Upstream pressure 0,5 - 2,5 bar code	Upstream pressure 2 - 12 bar code
3/8''	289701	289711
1/2''	289702	289712
3/4''	289703	289713
1''	289704	289714

417 YP - Stainless Steel - PTFE seat BSP

CF8M body - TS: -60°C/+225°C.

Ø	Upstream pressure 0,5 - 2,5 bar code	Upstream pressure 2 - 12 bar code
3/8''	289751	289761
1/2''	289752	289762
3/4''	289753	289763
1''	289754	289764

not on stock, on request.

2014/68/EU Directive N°0035 - Risk category II / module D1 - Pre-set pressure: 12 **E**/pc - CF8M body - FKM seat - For clean fluids - Supplied with a pressure gauge indicating the upstream pressure - Horizontal mounting.

CE 0035 | 3.1 see p. 22 | Ex on request

Stainless steel

2480 / 2490 - BPV

PS: 16 bar - TS: -15°C/+100°C.

Threaded BSP

Ø	face to face (mm)	weight (kg)	Upstream pressure 1 - 5 bar code	Upstream pressure 4 - 10 bar code
1/2"	70	0,80	248001	248002
3/4"	85	1,00	248011	248012
1"	90	1,05	248021	248022
1"1/2	115	2,30	248031	248032
2"	120	2,50	248041	248042

Flanged PN16

DN	face to face (mm)	weight (kg)	Upstream pressure 1 - 5 bar code	Upstream pressure 4 - 10 bar code
15	155	2	249001	249002
20	155	3	249011	249012
25	155	5	249021	249022
40	190	8	249031	249032
50	195	12	249041	249042
65*	210	16	249051	249052
80	225	18	249061	249062
100	250	25	249071	249072

* 4 hole flanges.

not on stock, on request.

2481 - LBPV - Low pressure

PS: 10 bar - TS: -15°C/+80°C.

Threaded BSP

Ø	face to face (mm)	weight (kg)	Upstream pressure 0,2 - 1,5 bar code
1/2"	70	0,80	248100
3/4"	85	1,00	248110
1"	90	1,05	248120
1"1/2	115	2,30	248130
2"	120	2,50	248140

Exluded from 2014/68/EU Directive (article 4, §3) - Flanged RF PN16 - Epoxy coated cast iron body - Brass & bronze inner parts - NBR tightness - For clear water and other liquids from group 2 - PS: 16 bar - TS: -10°C/+80°C - Upstream pressure adjustable with screw - Supplied with pressure gauge - Horizontal mounting preferred - ⚠ **Prohibited use for gas from group 1.**

3.1 see p. 22

Cast iron

DN	Kv (m^3/h))	face to face (mm)	weight (kg)	Upstream pressure range 0,3 - 4 bar code	Upstream pressure range 2 - 8 bar code
50	64	190	12	2470050	2471050
65*	89	210	14	2470065	2471065
80	119	225	19	2470080	2471080
100	222	255	26	2470100	2471100
125	333	285	37	2470125	2471125
150	470	315	50	2470150	2471150
200	854	420	94	2470200	2471200
250	1367	470	152	2470250	2471250
300	1880	530	202	2470300	2471300

* 4 hole flanges.

not on stock, on request.

Excluded from 2014/68/EU Directive (article 4, §3) - Not compatible with gases from group 1 - NBR membrane - Pressurizing valve - Setting pressure 2,5 bar - Peak pressure up to 21 bar - Horizontal or vertical mounting - TS: -15°C/+80°C.

4510 - AIT - Bronze BSP

Bronze body - PS: 10 bar.

Ø	volume (cm³)	code
1/2"	17	451002SE
3/4"	30	451003SE
1"	65	451004SE
1"1/2	250	451006SE
2"	650	451007SE

4515 - AIT - Stainless steel BSP

CF8 body - PS: 12 bar.

Ø	volume (cm³)	code
1/2"	17	451502
3/4"	30	451503
1"	65	451504
1"1/2	250	451506
2"	650	451507

4520 - AIF - Cast iron - Flanged PN16

GG25 body - With pressure gauge - PS: 12 bar.

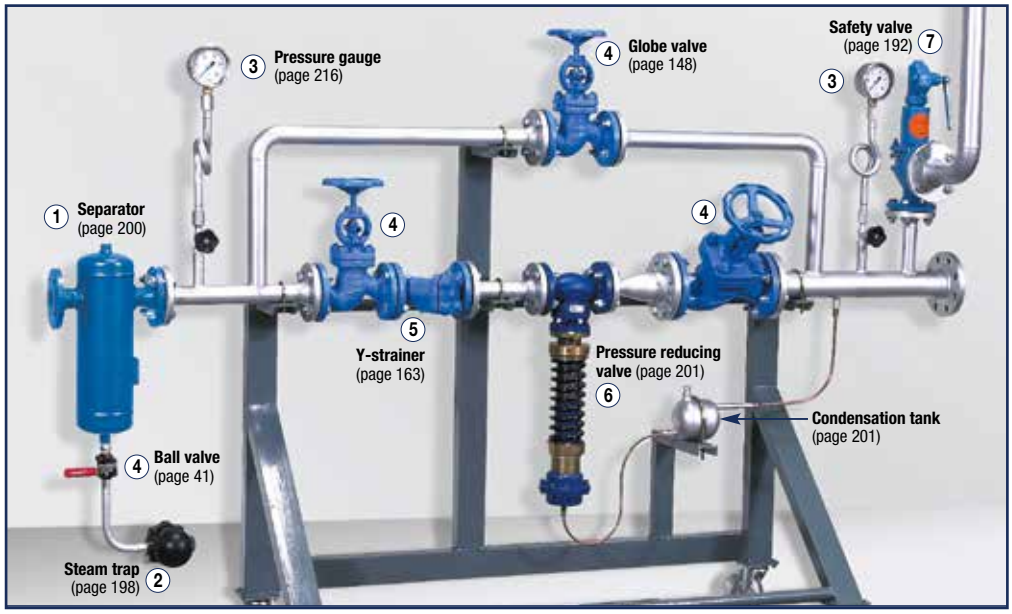
DN	volume (cm³)	code
80	2465	452008
100	5535	452009

Spare pressure gauge for 4520 BSP

Stainless steel case - 1/8".

code
981680

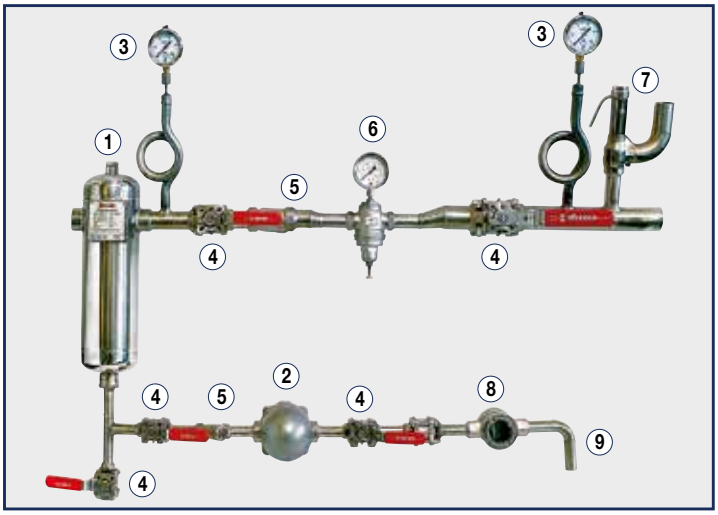
The pressure reducing station



1. The **Separator** drains continuously the condensate from the steam pipes upstream the pressure reducing station.
2. The **Steam Trap** eliminates the condensate drained by the separator.
3. The **Pressure Gauges**, mounted over coil siphons, measure the pressure upstream and downstream. They allow the right setting of the pressure reduction process.
4. The isolating valves (**Ball Valves** or **Globe Valves**) allow the isolation and the bypass of the pressure reducing valve.
5. The **Y-Strainers** protect the pressurereducing valves and the stream traps from the damages produced by solid particles.
6. The **Pressure Reducing Valve** (PRV) allows regulating and stabilizing the downstream pressure of the steam.
7. The **Safety Valve** protects from hazardous situations due to overpressure.
8. The **Check Valve** prevents the backflow of the condensate.
9. The **Sight Glass** helps checking that the steam trap works properly.

Stainless steel pressure reducing station

1. **Separator SPR 25 inox** (page 200)
2. **Steam trap SK 61** (page 198)
3. **Pressure gauges** (page 216)
4. **Ball valves 747 XS** (page 41)
5. **Y-strainer 230** (page 163)
6. **Pressure reducing valve PRV-S** (page 201)
7. **Safety valve 2863** (page 192)
8. **Spring check valve 380** (page 158)
9. **Sight glass SKT 9** (page 207)



STEAM Steam traps

3.1
see p. 22

Float

SK 51 - Ductile iron - PN16

Excluded from 2014/68/EU Directive (article 4, §3) - GGG40.3 body - Stainless steel mechanism - PS: 16 bar - TS: +250°C - Built-in thermostatic air eliminator - Horizontal mounting on stock - Vertical mounting on request (25 €/pc).

Threaded BSP

Ø	face to face (mm)	Δp 4,5 bar code	Δp 10 bar code	Δp 14 bar code
1/2"	122	151040	151041	151042
3/4"	122	151050	151051	151052
1"	145	151060	151061	151062

Flanged RF PN16

DN	face to face (mm)	Δp 4,5 bar code	Δp 10 bar code	Δp 14 bar code
15	150	150915	150916	150917
20	150	150920	150921	150922
25	160	150925	150926	150927

SK 55 - Ductile iron - PN16 - Tempered sight glass

CE 0408

2014/68/EU Directive n°0408 - Risk category I - GGG40.3 body - Stainless steel mechanism - Tempered borosilicate sight glass - PS: 16 bar - TS: +250°C - Built-in thermostatic air eliminator - Horizontal mounting on stock - Vertical mounting on request (25 €/pc).

Flanged RF PN16

DN	face to face (mm)	Δp 4,5 bar code	Δp 10 bar code	Δp 14 bar code
32	230	151840	151841	151842
40	230	151850	151851	151852
50	230	151860	151861	151862

SK 70 - Carbon steel - PN25

Excluded from 2014/68/EU Directive (article 4, §3) - A216WCB body - Stainless steel mechanism - PS: 25 bar - TS: +250°C - Built-in thermostatic air eliminator - Horizontal mounting on stock - Vertical mounting on request (25 €/pc).

Threaded BSP

Ø	face to face (mm)	Δp 4,5 bar code	Δp 10 bar code	Δp 14 bar code
1/2"	122	151460SE	151461	151462
3/4"	122	151465	151466	151467
1"	145	151470SE	151471	151472

Flanged RF PN25

DN	face to face (mm)	Δp 4,5 bar code	Δp 10 bar code	Δp 14 bar code
15	150	151480SE	151481	151482
20	150	151485SE	151486	151487
25	160	151490SE	151491	151492

SK 61 - Stainless steel - PN25

Excluded from 2014/68/EU Directive (article 4, §3) - CF8M body - Stainless steel mechanism - PS: 25 bar - TS: +250°C - Built-in air eliminator - Horizontal mounting on stock - Vertical mounting on request (25 €/pc).

Threaded BSP

Ø	face to face (mm)	Δp 4,5 bar code	Δp 10 bar code	Δp 14 bar code
1/2"	122	151315	151316	151317
3/4"	122	151320	151321	151322
1"	145	151325	151326	151327

Flanged RF PN25

DN	face to face (mm)	Δp 4,5 bar code	Δp 10 bar code	Δp 14 bar code
15	150	151332	151333	151334
20	150	151340	151341	151342
25	160	151350	151351	151352

Closed free float

SFK 40 - Ductile iron - PN16

Excluded from 2014/68/EU Directive (article 4, §3) - GGG40.3 body - Stainless steel mechanism - PS: 16 bar - TS: +220°C - Built-in filter & thermostatic air eliminator - Horizontal mounting.

Threaded BSP

Ø	face to face (mm)	Δp 4,5 bar code	Δp 10 bar code	Δp 14 bar code
1/2"	120	150204	150208	150209
3/4"	120	150214	150218	150219
1"	120	150225	150228	150229

Flanged PN16

DN	face to face (mm)	Δp 4,5 bar code	Δp 10 bar code	Δp 14 bar code
15	150	150244	150248	150249
20	150	150254	150258	150259
25	160	150264	150268	150269

SFK 61 - Stainless steel - PN 25

Excluded from 2014/68/EU Directive (article 4, §3) - CF8M body - Stainless steel mechanism - PS: 25 bar - TS: +220°C.

Threaded BSP

Ø	face to face (mm)	Δp 4,5 bar code	Δp 10 bar code	Δp 14 bar code
1/2"	120	150304	150308	150309
3/4"	120	150314	150318	150319
1"	120	150324	150328	150329

Flanged PN16

DN	face to face (mm)	Δp 4,5 bar code	Δp 10 bar code	Δp 14 bar code
15	150	150344	150348	150349
20	150	150354	150358	150359
25	160	150364	150368	150369

Reversed open float

BT 16 - Ductile iron - PN16

Excluded from 2014/68/EU Directive (article 4, §3) - GGG40.3 body - Stainless steel mechanism - PS: 16 bar - TS: +220°C - Built-in filter - Horizontal mounting.

Threaded BSP

Ø	face to face (mm)	Δp 5,4 bar code	Δp 8,5 bar code	Δp 15,5 bar code
1/2"	127	150504	150508	150512
3/4"	127	150514	150518	150522
1"	127	150524	150528	150532

Option for float steam traps

MISK - Float steam trap insulation jacket

Threaded

Ø	1/2"	3/4"	1"
code	181001	181002	181003

Flanged

DN	15	20	25	32	40	50
code	181004	181005	181006	181007	181008	181009

Thermostatic

TKK 2Y - Carbon steel

A105 body - Stainless steel mechanism - Built-in strainer - Thermostatic capsule in hastelloy and stainless steel - PS: 32 bar - Max. ΔP: 22 bar - TS: +250°C - Horizontal mounting.

Threaded BSP

Ø	face to face (mm)	code
1/2"	95	151504
3/4"	95	151505
1"	95	151506

Flanged RF PN40

DN	face to face (mm)	code
15	150	151615
20	150	151620
25	160	151625

TKK 42 - Stainless steel

F304 body - Built-in strainer -
PS: 32 bar - Max. ΔP: 21 bar - TS: +240°C.

Threaded BSP

Ø	face to face (mm)	code
1/4"	65	152202
3/8"	65	152203
1/2"	65	152204
3/4"	65	152205
1"	65	152206

HTT 6 - Stainless steel

316L body - Clamp 304.
Thermostatic capsule in Hastelloy.
PS: 10 bar - TS: 165°C - Vertical mounting.

DN	face to face (mm)	code
50,5	61	152306

TKK 11 - Brass - Angle

CW617N body - Stainless steel mechanism - Built-in strainer - PS: 10 bar - TS: +200°C.

Threaded BSP

Ø	code
1/2"	152504

TKK 61 - Brass - Straight

CW617N body - Stainless steel mechanism - Built-in strainer - PS: 10 bar - TS: +200°C.

Threaded BSP

Ø	face to face (mm)	code
1/2"	76	152604

STEAM Vacuum breakers

VK 70 - Brass - PN16 BSP

TS: +260°C - Air intake 1/8".

Ø	code
1/2"	981405

VK 71 - Stainless steel - PN25 BSP

TS: +400°C - Air intake 1/8".

Ø	code
1/2"	981400

Bi-metallic

TK 1 - Carbon steel

A105 body - Stainless steel mechanism - Built-in strainer and check valve - Possible adjustment of discharge capacity and condensate temperature - PS: 32 bar - Max. ΔP: 22 bar - TS: +250°C - Horizontal or vertical mounting.

Threaded BSP

Ø	face to face (mm)	code
1/2"	95	153604
3/4"	95	153605
1"	95	153606

Flanged RF PN40

DN	face to face (mm)	code
15	150	154015
NEW 15	170	154215
20	150	154020
NEW 20	170	154220
25	160	154025

Thermodynamic

TDK 45 - Carbon steel

A105 body - Stainless steel mechanism - Built-in Y-strainer - Downstream max. back pressure: 80% of the upstream pressure - PS: 32 bar - TS: +400°C - Horizontal mounting.

Threaded BSP

Ø	face to face (mm)	code
1/2"	95	153004
3/4"	95	153005
1"	95	153006

Flanged RF PN40

DN	face to face (mm)	code
15	150	153115
20	150	153120
25	160	153125

TDK 71 - Stainless steel

A743 body - Built-in Y-strainer - Downstream max. back pressure: 80% of the upstream pressure - PS: 42 bar - TS: +400°C - Horizontal mounting.

Threaded BSP

Ø	face to face (mm)	code
1/2"	78	153304
3/4"	90	153305
1"	95	153306

STEAM Separators

3.1 see p. 22

SPR 25 - Threaded BSP

Excluded from 2014/68/EU (article 4, §3) - For steam & compressed air - F304 or carbon steel body - PS: 20 bar - TS: +250°C.

Ø	face to face (mm)	Ø event	Ø drainer	stainless steel code	carbon steel code
1/2"	120	1/2"	1/2"	1560002	1560102
3/4"	150	1/2"	1/2"	1560003	1560103
1"	160	1/2"	1/2"	1560004	1560104

SPR 40 - Flanged PN40

2014/68/EU Directive N°0408 - Risk Category I / module A - For steam & compressed air - Carbon steel body - Steam, PS: 32 bar / TS: +250°C - Compressed air, PS: 40 bar / TS: +20°C.

DN	face to face (mm)	Risk category	volume (l)	Ø event	Ø drainer	code
15	180	art. 4, §3	1,5	1/2"	1/2"	1560A015
20	230	art. 4, §3	2,9	1"	1/2"	1560A020
25	230	art. 4, §3	3,1	1"	1/2"	1560A025
32	250	art. 4, §3	5,2	1"	1/2"	1560A032
40	300	I	8,9	1"	1/2"	1560A040
50	310	I	9,7	1"	1/2"	1560A050
65	400	I	19,4	1"1/2	3/4"	1560A065
80	450	I	34,3	1"1/2	3/4"	1560A080
100	500	I	57,8	2"	1"	1560A100

CE

STEAM Air vents

PF 20 - Cast iron BSP

PS: 10 bar - TS: +120°C.

Ø	code
3/4"	PF20

HA 51 - Ductile iron BSP

GGG40 body - Stainless steel mechanism - Horizontal mounting - Face to face: 122 mm - PS: 16 bar - TS: 250°C.

Ø	code
1/2"	154604
3/4"	154605

HA 62 - Stainless steel BSP

CF8M body - Stainless steel mechanism - PS: 14 bar - TS: -10°C/+200°C.

Ø	code
3/4"	154810

HA 52 - Ductile iron BSP

GGG40 body - Stainless steel mechanism - Vertical mounting - PS: 14 bar - TS: -10°C/+200°C.

Ø	code
3/4"	154805

STEAM Pressure reducing valves

3.1 see p. 22

BDV 25 - Ductile iron

For steam, compressed air & other gas - GGG40.3 body PN25 - Stainless steel mechanism -
Built-in strainer - Locking device - PS: 19 bar - TS: +210°C - Max. flow ratio: 10/1 - Horizontal mounting.

Threaded BSP

Downstream pressure range

Ø	face to face (mm)	0,14 - 1,7 bar code	1,4 - 4 bar code	3,5 - 8,6 bar code
1/2"	83	158041A	158042A	158043A
3/4"	96	158051A	158052A	158053A
1"	108	158061A	158062A	158063A

PRV-S - Stainless steel

CF8M body - FKM/PTFE tightness - PS: 9 bar - TS: +180°C -
Supplied with Ø 63 dry pressure gauge indicating the downstream pressure.

3.1 see p. 22 on request

Threaded BSP

Downstream pressure range

Ø	face to face (mm)	weight (kg)	1 - 6 bar code	4 - 9 bar code
1/2"	70	0,80	158101	158102
3/4"	85	1,00	158111	158112
1"	92	1,05	158121	158122

Flanged PN16

Downstream pressure range

DN	face to face (mm)	weight (kg)	1 - 6 bar code	4 - 9 bar code
15	155	2	158301	158302
20	155	3	158311	158312
25	155	5	158321	158322

RD10 – Ductile Iron – Flanged RF PN16

2014/68/EU Directive N°0036 - Risk Category I - For steam, air, water & all compatible fluids - Flanged RF PN16 -
EN 558 series 1 (DIN 3202 F1) - GGG40.3 body - F304 mechanism & bellow - EPDM membrane.

⚠ **Not suitable for gas from group 1 - Saturated steam use: PS: 16 bar / TS: +200°C.**

⚠ **Sizing and actuating depend on actual working conditions** (medium, temperature, pressure, flow).
Please, consult for an appropriate offer.

CE 0036 SIL 3 on request

DN	face to face (mm)	Kv (m^3/h)	Downsteam pressure range AR265 0,4 - 1 bar code	AR205 0,9 - 1,8 bar code	AR150 1,7 - 3 bar code
15	130	5	159015009	159015018	159015030
20	150	6,5	159020009	159020018	159020030
25	160	11	159025009	159025018	159025030
32	180	14,5	159032009	159032018	159032030
40	200	30	159040009	159040018	159040030
50	230	40	159050009	159050018	159050030
				0,9 - 2 bar	1,9 - 5 bar
65	290	58	159065009	159065018	159065030
80	310	78	159080009	159080018	159080030
				0,9 - 2,6 bar	2,5 - 8,5 bar
100	350	128	159091009	159091018	159091030

DN	face to face (mm)	Kv (m^3/h)	Downsteam pressure range AR120 2,8 - 5 bar code	AR100 4,8 - 7 bar code	AR085 6,8 - 15 bar code
15	130	5	159015050	159015070	159015140
20	150	6,5	159020050	159020070	159020140
25	160	11	159025050	159025070	159025140
32	180	14,5	159032050	159032070	159032140
40	200	30	159040050	159040070	159040140
50	230	40	159050050	159050070	
			4,8 - 8,5 bar	8 - 15 bar	
65	290	58	159065050	159065070	
			4,5 - 11 bar	11 - 15 bar	
80	310	78	159080050	159080070	
			8 - 15 bar		
100	350	128	159091050		

Condensation tank

Supplied with 3/8" connection for 10 mm pipes.

DN	code
1/4"	159001

Automatic solenoid valves

GAS

Excluded from 2014/68/EU Directive (article 1, §1) - 2016/426 Regulation - For natural gas & lpg - Normally closed - Aluminium body - Closing time < 1 s - IP65 coil - PS: 360 mbar - TS: -20°C/+60°C.

SIL 2 | CE 0051 | Ex on request

EVP - 500 mbar - 360 mbar

Built-in filter cartridge 50 µm for DN65 to 100 - Construction acc. to EN 161.

DN	face to face (mm)	PS (mbar)	230V AC power VA	230V AC code	24V AC power VA	24V AC code
BSP						
1/2"	70	500	30/9	092402C	27/7	092412C
3/4"	70	500	30/9	092403C	27/7	092413C
1"	70	500	55/16	092404C	45/11	092414C
1"1/4	160	360	55/16	092405B	47/13	092415B
1"1/2	160	360	55/16	092406B	47/13	092416B
2"	160	360	55/16	092407B	47/13	092417B
Flanged RF PN16						
50	230	360	55/16	092302M	47/13	092312M
65*	290	360	290/75	092303M	185/50	092313M
80	310	360	290/75	092304M	185/50	092314M
100	350	360	270/70	092305M	130/40	092315M

* 4 hole flanges.

EVPT - 360 mbar - Slow opening

Adjustable opening time: 0,5 to 30 s.

DN	face to face (mm)	230V AC power VA	230V AC code
BSP			
1/2"	70	54/18	092602M
3/4"	70	54/18	092603M
1"	70	54/18	092604B

Spare coils for EVP solenoid valves

DN	230V AC code	24V AC code	24V DC code
1/2"-1"	980920	980921	980922
1"1/4-2"	980882	980981	980982
65-80	980949M	980954M	980964M
100	980950M	980955M	980965M

not on stock, on request.

GAS

2014/68/EU Directive N°0051 - 2016/426 Regulation - For methane, natural gas, lpg - Aluminium body - Closing time < 1 s - IP65 coil - PS: 6 bar - TS: -20°C/+60°C.

SIL 2 | CE 0051

EV-6 - 6 bar

Normally closed - Construction acc. to EN 161.

DN	face to face (mm)	power VA	230V AC code
BSP			
1/2"	70	30/9	092502M
3/4"	70	30/9	092503M
1"	70	30/9	092504M
1"1/4	160	55/15	092505M
1"1/2	160	55/15	092506M
2"	160	55/15	092507M
Flanged RF PN16			
65*	290	105/29	092508M
80	310	105/29	092509M
100	350	124/36	092510M

* 4 hole flanges.

EVA-6 - 6 bar

Normally open.

Ø	face to face (mm)	230V AC code	24V AC code	24V DC code
BSP				
1/2"	70	092652	092662	092672
3/4"	70	092653	092663	092673
1"	70	092654	092664	092674
1"1/4	160	092655	092665	092675
1"1/2	160	092656	092666	092676
2"	160	092657	092667	092677

Solenoid valves with manual resetting

GAS

2014/68/EU Directive N°0497 - Risk category II / module D1 - 2016/426 Regulation - Construction acc. to EN 161 - Gas flow shut-off in case of lack of current - Manual reset - Normally closed - Aluminium body (except brass body for 1/2" to 1" for working pressure 6 bar) - TS: -20°C/+60°C - Built-in filter cartridge 50 µm for DN65 to 200 - IP 65 coil - Horizontal mounting solenoid coil on the top - Closing time < 1 s - Built-in short anti-disconnection device.

CE 0497 | Ex on request

M14/RM / M16/RM - Gas (natural gas & lpg)

DN	face to face (mm)	Working pressure 500 mbar 230V AC power VA	230V AC code	24V AC power VA	24V AC code	Working pressure 6 bar 230V AC power VA	230V AC code	24V AC power VA	24V AC code
BSP									
1/2"	70	9	092802M	8	092812M	9	092102M	8	092122M
3/4"	70	9	092803M	8	092813M	9	092103M	8	092123M
1"	90	9	092804B	8	092814M	9	092104M	8	092124M
1"1/4	160	9	092805M	8	092815M	9	092105M	8	092125M
1"1/2	160	9	092806M	8	092816M	9	092106M	8	092126M
2"	160	9	092807M	8	092817M	9	092107M	8	092127M
Flanged RF PN16									
50	230	9	092902M	8	092912M	9	092108M	8	092128M
65*	290	18	092903M	20	092913M	18	092109M	20	092129M
80	310	18	092904M	20	092914M	18	092110M	20	092130M
100	350	18	092905M	20	092915M	18	092111M	20	092131M
125	480	18	092906M	20	092916M	18	092112M	20	092132M
150	480	18	092907M	20	092917M	18	092113M	20	092133M
200	600	18	092908M	20	092918M	18	092114M	20	092134M

* 4 hole flanges.

■ Pressure reducing valves with built-in filter

GAS

2014/68/EU Directive N°0497 - Risk category II / module D1 - 2016/426 Regulation - According to EN 88-2 - ATEX cat. II 2G/D for zones 1, 2, 21 & 22 - Aluminium body - Upstream built-in filter 50 µm - Built-in pressure connections.

CE 0497 | Ex on request

FRG 2MC - 1 bar

For non agressive gases - PS: 1 bar - TS: -15°C/+60°C.

DN	face to face (mm)	max. flow (Nm³/h)	downstream pressure setting range (mbar)									
			range	code	range	code	range	code	range	code	range	code
BSP												
1/2"	120	19	9-28	094004M	18-40	094014M	40-110	094024M	110-150	094034M	150-200	094044M
3/4"	120	34	9-28	094005M	18-40	094015M	40-110	094025M	110-150	094035M	150-200	094045M
1"	120	53	9-28	094006M	18-40	094016M	40-110	094026M	110-150	094036M	150-200	094046M
1"1/4	160	87	13-23	094007M	20-36	094017M	55-100	094027M	90-190	094037M	190-400	094047M
1"1/2	160	136	13-23	094008M	20-36	094018M	55-100	094028M	90-190	094038M	190-400	094048M
2"	160	212	13-23	094009M	20-36	094019M	55-100	094029M	90-190	094039M	190-400	094049M
Flanged RF PN16												
65	290	358	13-27	094010M	22-58	094020M	50-130	094030M	110-200	094040M	200-600	094050M
80	310	543	13-27	094011M	22-58	094021M	50-130	094031M	110-200	094041M	200-600	094051M
100	350	848	15-27	094012M	27-55	094022M	50-130	094032M	130-200	094042M	200-600	094052M

not on stock, on request.

FRG 2MCS - 5 bar BSP

For non agressive gases - Shut-off in case of upstream over-pressure or pressure drop - With air vent - PS: 5 bar - TS: -20°C/+60°C.

Ø	face to face (mm)	max. flow (Nm³/h)	downstream pressure setting range (mbar)	code
1/2"	120	90	20-30	094104M
3/4"	120	90	20-30	094105M
1"	120	90	20-30	094106M

■ Filters

GAS

2014/68/EU Directive N°0497 - Risk category II / module D1 - 2016/426 Regulation - According to EN 126 - Impurities filtering - 50 µm filtering for 1/2" to DN100, 10 µm above - Aluminium body - Upstream pressure connection - PS: 2 bar or 6 bar - TS: -40°C/+70°C.

CE 0497

FM - Gas filter

DN	face to face (mm)	PS 2 bar	PS 6 bar
		code	code
BSP			
1/2"	120	095004M	095104M
3/4"	120	095005M	095105M
1"	120	095006M	095106M
1"1/4	160	095007M	095107M
1"1/2	160	095008M	095108M
2"	160	095009M	095109M
Flanged RF PN16			
50	160	095505M	095515M
65*	290	095506M	095516M
80	310	095507M	095517M
100	350	095508M	095518M
125	480	095509B	095519B
150	480	095510B	095520B
200	600	095511M	095521M
300	737	095512M	095522M

* 4 hole flanges.

not on stock, on request.

■ Accessories

PGRF - Pressure switch

Aluminium body - Transparent plastic cover IP54 - Setting knob - Switch-off power 250V AC / 6A - 1/4" BSP threaded - Includes electric connector T30 - PS: 690 mbar - TS: 0°C/+85°C.

type	max. Δp (mbar)	code
5-150 mbar	≤ 5	436002N
100-500 mbar	≤ 15	436003N

CP - Stop punch

Solenoid shutt-off valve - 3A-240V shutt-off - IP67.

code
098301

COMPRESSED AIR Air treatment

Aluminium alloy body & bowl - Pressure range: 0,5-10 bar - Regulator accuracy: 0,2 bar - Standard filtration: 5 µm -
Max. flow: 2080 l/min for 1/4", 2100 l/min for 3/8", 2600 l/min for 1/2". PS: 10 bar - TS: -10°C/+60°C (except for 1735: 0°C/+50°C).

1730 - Filter regulator NUFR + Lubricator NUL
With pressure gauge & bracket.

Ø	code
1/4"	173012
3/8"	173013
1/2"	173014

1732 - Filter NUF + Regulator NUR + Lubricator NUL
With pressure gauge & bracket.

Ø	code
1/4"	173212
3/8"	173213
1/2"	173214

1731 - Filter regulator NUFR
With pressure gauge & bracket.

Ø	code
1/4"	173112
3/8"	173113
1/2"	173114

1733 - Regulator NUR
With pressure gauge & bracket.

Ø	code
1/4"	173302
3/8"	173303
1/2"	173304

1734 - Filter NUF

Ø	code
1/4"	172412
3/8"	172413
1/2"	172414

1735 - Lubricator NUL

Ø	code
1/4"	172612
3/8"	172613
1/2"	172614

Aluminium body - Polycarbonate bowl - Bowl protection: reinforced fiberglass nylon - Standard filtration: 5 µm -
Regulator accuracy: 0,2 bar - PS: 0,5 to 10 bar for 1/4", 0,5 to 12 bar from 3/4" to 1" - TS: 0°C/+60°C.

1700 - Filter regulator UFR + Lubricator UL
With pressure gauge & bracket.

Ø	code
3/4"	170005
1"	170006

1705 - Filter UF + Regulator UR + Lubricator UL
With pressure gauge & bracket.

Ø	code
3/4"	170505
1"	170506

1720 - Filter regulator UFR
With pressure gauge & bracket.

Ø	code
3/4"	172005
1"	172006

1721 - Filter UF 40 µm
With bracket.

Ø	code
3/4"	172105
1"	172106

1725 - Regulator UR
With pressure gauge & bracket.

Ø	code
3/4"	172505
1"	172506

1726 - Lubricator UL
With bracket.

Ø	code
3/4"	172605
1"	172606

1760 - Filter regulator FR 500
40 µm filtration - With pressure gauge & bracket.

DN	code
1/4"	176002

1740 - Filter regulator FR 500 + Lubricator L 600
With pressure gauge & bracket.

DN	code
1/4"	174002

1762 - Regulator R200
With pressure gauge Ø 40 - PS: 0,5 to 8 bar.

Ø	code
1/4"	176202

1727 - Condensate automatic drain with float AD 940

Ø	code
1/2"	172704

For compressed air or nitrogen - Low sensitivity to upstream pressure variations - Regulator accuracy: ±0,5% -
Supplied with pressure gauge & bracket - PS: 10 bar - TS: -5°C/+60°C.

1764 - Precision regulator UR-P

Ø	pressure gauge	code
1/4"	0,1 - 4 bar	176402
1/4"	0,05 - 2 bar	176412

COMPRESSED AIR Filtration

Epoxy-coated aluminium body - Interior anti-corrosion treatment - Threaded connections - Clogging indicator pressure gauge - Automatic air vent with float - PS: 16 bar - TS: +5°C/+50°C.

S-AIR - Filter with cartridge

filtration		pre-filtration grade X3 3 µm	micronic filtration grade X1 1 µm	submicronic filtration grade XA 0,01 µm	active carbon filtration grade XAC 0,003 mg/m³
air quality acc. to ISO 8573.1		Class 3	Class 2	Class 1	Class 1
filtration medium			borosilicate microfibers		active carbon
initial head loss		0,03 bar	0,05 bar	0,09 bar	0,1 bar
Ø	flow at 7 bar (m³/h)	code	code	code	code
1/2"	82	178X302	178X102	178XA02	178XAC02
3/4"	127	178X303	178X103	178XA03	178XAC03
1"	212	178X304	178X104	178XA04	178XAC04
1"1/2	549	178X306	178X106	178XA06	178XAC06
2"	828	178X307	178X107	178XA07	178XAC07
2"	1070	178X308	178X108	178XA08	178XAC08

not on stock, on request.

CAR - Cartridge for S-AIR

filtration		pre-filtration grade X3 3 µm	micronic filtration grade X1 1 µm	submicronic filtration grade XA 0,01 µm	active carbon filtration grade XAC 0,003 mg/m³
Ø	flow at 7 bar (m³/h)	code	code	code	code
1/2"	82	178E12X3	178E12X1	178E12XA	178E12XAC
3/4"	127	178E18X3	178E18X1	178E18XA	178E18XAC
1"	212	178E30X3	178E30X1	178E30XA	178E30XAC
1"1/2	549	178E80X3	178E80X1	178E80XA	178E80XAC
2"	828	178E105X3	178E105X1	178E105XA	178E105XAC
2"	1070	178E150X3	178E150X1	178E150XA	178E150XAC

not on stock, on request.

COMPRESSED AIR Drain valves

T-DRAIN - Programmable drain BSP

Built-in upstream filter - Opening frequency from 1 to 60 mn - Opening time: 2,4 or 6 s - Max. condensate flow: 40 l/h - Electric supply 230V AC - Supplied with connector - Upstream connection: 1/2" M - Downstream connection: 3/8" M & hose Ø10 - Test function - Horizontal or vertical mounting - PS: 16 bar - TS: +60°C.

max. flow (m³/h)			
compressor	dryer	filter	code
3600	7200	36000	420050

T20 - Temporised drain BSP

Electric supply 230V AC - 2 m wire - Opening frequency: 0,5 to 45 mn - Opening time: 0,5 to 10 s - Upstream connection: 1/2" M - Downstream connection: 1/4" F - Built-in ball valves - Cleanable upstream filter - PS: 16 bar - TS: +90°C.

code
421020

LD100 - Compact capacitive drain BSP

Built-in tank with electronic float - Built-in filter - Electric supply 230V AC - Connector PG9 - Test function - Horizontal mounting - PS: 0,2-16 bar - TS: +60°C.

max. flow (m³/h)					
compressor	dryer	filter	upstream connection	downstream connection	code
180	180	1800	1/2"-3/4"M	3/8"M	420010

maintenance set
code
980250

LOGI-DRAIN - Capacitive drain BSP

Built-in tank with electronic float - Built-in filter - Electric supplied LED - Drain LED - Dysfunction alarm - Electric supply 230V AC - Connector PG9 - Test function - Horizontal mounting only - PS: 0,2-16 bar - TS: +60°C.

max. flow (m³/h)					
compressor	dryer	filter	upstream connection	downstream connection	code
378	756	3780	1/2"-3/4"M	3/8"M	420012
450	900	4500	1/2"-3/4"M	3/8"M	420011
900	1800	9000	1/2"-3/4"M	3/8"M	420020
1800	3600	18000	1/2"-3/4"M	3/8"M	420022
9500	19000	95000	1/2"-3/4"M	3/8"M	420023

maintenance set
code
-
980250
980251
980251
980252

not on stock, on request.

Sight glasses

2205 - NAC - Brass BSP

Brass body - Brosilicate glass - FKM gasket - All positions - PS: 10 bar - TS: +5°C/+70°C.

Ø	face to face (mm)	code
1/4"	70	220500SE
3/8"	70	220501
1/2"	80	220502

2210 - C 156 - Brass - With fins BSP

CB754S body - Unidirectional use - Polycarbonate dome - Plastic fins - For polycarbonate compatible clear fluids - PS: 6 bar - TS: +10°C/+70°C.

Ø	face to face (mm)	code
1/2"	80	221004

2211 - C 158 - Brass - With ball BSP

CB754S body - Moplen ball - Tempered glass - One-way horizontal use only - PS: 16 bar - TS: +5°C/+80°C.

Ø	face to face (mm)	code
1/2"	97	221104
3/4"	100	221105
1"	103	221106

2215 - C 161 - Brass - Double glass with ball BSP

CE 1115

CB754S body (1/2" to 1") - Bronze CC491K body (1"1/4 to 2") - Moplen ball - Double tempered glass - Horizontal mounting - PS: 16 bar - TS: +5°C/+80°C.

Ø	face to face (mm)	code
1/2"	95	221504
3/4"	100	221505
1"	107	221506
1"1/4	126	221507
1"1/2	137	221508
2"	170	221509

2220 - SKT 6 - Cast iron - With flapper BSP

CE 0035

GGG40 body - F304 flapper - Double tempered glass - PS: 16 bar - TS: -10°C/+180°C.

Ø	face to face (mm)	code
1/2"	75	222004
3/4"	90	222005
1"	90	222006
1"1/4	120	222007
1"1/2	120	222008
2"	140	222009

2225 - C 164 - Cast iron - With steady baffles - Flanged PN16

CE 1115

GG25 body - Double tempered glass - PS: 16 bar - TS: +5°C/+180°C.

DN	face to face (mm)	code
15	130	2225015
20	150	2225020
25	160	2225025
32	180	2225032
40	200	2225040
50	230	2225050
65*	290	2225065
80	310	2225080
100	350	2225091

* 4 hole flanges.

2230 - USV - Carbon steel - With steady baffles BSP

STEAM

A105 body & baffle - Double borosilicate glass - PS: 40 bar up to 3/4", 20 bar above - TS: -25°C/+300°C.

Ø	face to face (mm)	code
1/2"	90	223004
3/4"	90	223005
1"	100	223006

2235 - USV - Carbon steel - With steady baffles - Flanged PN40

STEAM

CE 1115

A105 body - Double borosilicate glass - PS: 40 bar up to DN20, 20 bar above - TS: -25°C/+300°C.

DN	face to face (mm)	code
15	130	2235015
20	150	2235020
25	160	2235025
32	180	2235032
40	200	2235040

2240 - SKT 9 - Stainless steel - With flapper BSP

CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

CF8M body & flapper - Double tempered glass - One-way use only - Not for downward-flow - PS: 16 bar - TS: -20°C /+180°C.

Ø	face to face (mm)	code
1/2"	105	224004A
3/4"	105	224005A
1"	110	224006A
1"1/4	125	224007A
1"1/2	135	224008A
2"	170	224009A

2245 - SKB 2 - Stainless steel - With flapper - Flanged PN16

CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

CF8M body & flapper - Double tempered glass - One-way use only - Not for downward-flow - PS: 16 bar - TS: -20°C/+180°C.

DN	face to face (mm)	code
15	130	2245015A
20	150	2245020A
25	160	2245025A
32	180	2245032A
40	200	2245040A
50	230	2245050A
65*	290	2245065A
80	310	2245080A
100	350	2245100A
125	400	2245101A
150	480	2245102A

* 4 hole flanges.

2238 - SKT 9 NPT - Stainless steel - With flapper NPT

CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

CF8M body & flapper - Double tempered glass - One-way use only - Not for downward-flow - PS: 16 bar - TS: -20°C /+180°C.

Ø	face to face (mm)	code
1/2"	105	223804
3/4"	105	223805
1"	110	223806
1"1/2	135	223808
2"	170	223809

2246 - SKB 2 ANSI - Stainless steel - With flapper - Flanged ANSI 150

CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

CF8M body & flapper - Double tempered glass - One-way use only - Not for downward-flow - PS: 16 bar - TS: -20°C/+180°C.

DN	face to face (mm)	code
15	130	2246015
20	130	2246020
25	170	2246025
40	200	2246040
50	220	2246050
80	270	2246080
100	320	2246100
150	420	2246102

2241 - NAW 2 - Stainless steel - With rotor BSP

CF8M body - Tempered glass dome - PP rotor - PS: 16 bar - TS: -5°C/+80°C.

Ø	face to face (mm)	code
1/4"	76	224100
3/8"	76	224101
1/2"	76	224102
3/4"	89	224103
1"	89	224104

2242 - NAM - Stainless steel - With rotor BSP

CF8M body - Tempered glass pipe - POM rotor - PS: 16 bar - TS: -5°C/+100°C.

Ø	face to face (mm)	code
1/4"	73	224200
3/8"	73	224201
1/2"	106	224202
3/4"	106	224203
1"	106	224204

2243 - FW12 - Stainless steel - With rotor BSP

CE 1128 | 3.1 see p. 22

CF8M body - Double tempered glass - White ABS rotor - PS: 10 bar - TS: -10°C/+70°C - Not suitable for gas from group 1.

Ø	face to face (mm)	code
1/2"	100	224304
3/4"	100	224305
1"	109	224306
1"1/4	109	224307
1"1/2	150	224308
2"	150	224309

FOOD 4SMSIC - Stainless steel BW SMS BW

F316L body - Silicone seat - PS: 10 bar - TS: -30°C/+200°C - For food industry.

DN	face to face (mm)	code
25	150	4SMSIC25
38	158	4SMSIC38
51	162	4SMSIC51
63	162	4SMSIC63
76	164	4SMSIC76
104	170	4SMSIC104

Clamp sight glass, see p. 306

Level gauges

L 138 - Brass set BSP

CW614N body - Silicone tightness - PS: 10 bar - TS: +90°C.
⚠ **Does not include pipe.**

Ø	pipe ø	code
3/8"	13	2310313
1/2"	16	2310416

L 135 - Brass set with valves BSP

CW614N brass body - Needle valves - Silicone gaskets - PS: 10 bar - TS: +90°C - Pipe length: centre distance minus 15 mm.
⚠ **Does not include pipe.**

Ø	pipe ø	code
3/8"	13	2311313
1/2"	13	2311413
1/2"	16	2311416
3/4"	20	2311520

151 - Fitting for L135 or T154 BSP

Ø	pipe ø	code
1/2"	13	2317413
1/2"	16	2317416
3/4"	18	2317518
3/4"	20	2317520

2312 - Stainless steel set BSP

F316 body - Needle valve & drainer cap - FKM & PTFE gaskets - Sleek pipe - PS: 16 bar - TS: -50°C/+200°C. - Pipe length: centre distance minus 28 mm for Ø14 and Ø16, center distance minus 70 mm for Ø24, center distance minus 36 mm for Ø20.
⚠ **Does not include pipe.**

Ø	pipe ø	code
3/8"	14	23125314N
1/2"	14	23125414N
1/2"	16	23125416N
1/2"	24	23125424N
1"	20	23125620N

not on stock, on request.

MG 33 - Stainless steel magnetic Flanged PN16

Stainless steel body & float - Aluminium scale - Plexiglas glass - Stainless steel bottom flanged drain cap - Min. fluid density: 1 +/- 5% - PS: 10 bar - TS: +160°C.

DN	length (mm)	code
20	800	23201080
20	1 000	23201100
20	1 200	23201120
20	1 500	23201150
20	2 000	23201200

not on stock, on request.

L 146 - Level gauge BSP

CW614N brass body - Plexiglass pipe - PS: 10 bar - TS: +90°C.

Ø	height (mm)	code
1/4"	100	2309210
3/8"	150	2309315
1/2"	200	2309420
1/2"	300	2309430

T 154 - Plexiglass pipe

1000 mm length - PS: 10 bar - TS: +90°C.

pipe ø	code
13	23181310
16	23181610
20	23182010

2319 - Brass U protection pipe

1000 mm length.

pipe ø	code
13	23191310
16	23191610
20	23192010

2314 - Glass pipe

Pyrex® glass - 1500 mm length - PS: 10 bar - TS: +500°C.

pipe ø	thickness (mm)	code
13	2,2	23141315
14	2,2	23141415
15	2,5	23141515
16	2,5	23141615
20	2,5	23142015
24	2,5	23142415

Glass pipe cutting

code
99DECTUB

Special packaging

code
EMBTUB

Bistable switch

To be mounted on lateral rail gauge.

code
2328001

Spare float

code
981200

2315 - NX - Carbon steel valves

Flanged PN40 - A105 body - Set of upper/lower valves & drainage valve - Plug valve - Graphite tightness - For level gauge box with Ø 16 pipes - PS: 40 bar - TS: -25°C/+425°C.

DN	code
15	2315SUPINFBR15
20	2315SUPINFBR20
25	2315SUPINFBR25

Spare Ø16 sleek pipes

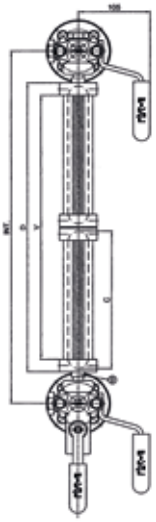
for RBF & TMF level gauges (1 piece).
Mounting: 15€/level gauge (2 pieces).

length (mm)	code
35	986052
57,5	986053
72	986054
100	986055

2320 - RBF - Reflex - Carbon steel

Carbon steel body - Borosilicate reflex glass type B (DIN 7081) - Width: 34 mm - Wired graphite glass gasket & support gasket - Connection to NX valves with Ø 16 sleek pipes - Length: 60 mm - PS: 40 bar - TS: +239°C.

size	INT. min. (mm)	C (mm)	D (mm)	V (mm)	code
T3	285	165	178	141	2320REFLB1T3
T4	310	190	203	166	2320REFLB1T4
T5	340	220	233	196	2320REFLB1T5
T6	370	250	263	226	2320REFLB1T6
T7	400	280	293	256	2320REFLB1T7
T8	440	320	333	296	2320REFLB1T8
T9	460	340	353	313	2320REFLB1T9



size	INT. min. (mm)	C (mm)	D (mm)	V (mm)	code
2xT4	515	190	406	367	2320REFLA2T4
2xT5	575	220	466	427	2320REFLA2T5
2xT6	635	250	526	489	2320REFLA2T6
2xT7	695	280	586	549	2320REFLA2T7
2xT8	775	320	666	628	2320REFLA2T8
2xT9	815	340	706	668	2320REFLA2T9
3xT6	900	250	789	751	2320REFLA3T6
3xT7	990	280	879	841	2320REFLA3T7
3xT8	1110	320	999	961	2320REFLA3T8
3xT9	1170	340	59	1021	2320REFLA3T9
4xT7	1285	280	1172	1134	2320REFLA4T7
4xT8	1445	320	1332	1294	2320REFLA4T8
4xT9	1525	340	1412	1374	2320REFLA4T9
5xT7	1580	280	1465	1427	2320REFLA5T7
5xT8	1780	320	1665	1627	2320REFLA5T8
5xT9	1880	340	1765	1727	2320REFLA5T9
6xT8	2115	320	1998	1960	2320REFLA6T8
6xT9	2235	340	2118	2080	2320REFLA6T9
7xT9	2590	340	2471	2433	2320REFLA7T9

not on stock, on request. Approx . 5-6 weeks.

23509 - Borosilicate reflex glasses

According to DIN 7081 - Polyprismatic - Supplied with tightness gaskets - Fiber & graphite - Thickness: 17 mm - PS: 34 bar - TS (steam): +243°C.

length (mm)	34 mm width code	30 mm width code
115	2350901F	2350911F
140	2350902F	2350912F
165	2350903F	2350913F
190	2350904F	2350914F
220	2350905F	2350915F
250	2350906F	2350916F
280	2350907F	2350917F
320	2350908F	2350918F
340	2350909F	2350919F

2330 - TMF - Transparent - Carbon steel

Carbon steel body - Borosilicate transparent glass type A (DIN 7081) - Width: 30 mm - Wired graphite glass gasket & support gasket - Connection to NX valves with Ø 16 pipes - Length: 35 mm - PS: 64 bar - TS: +243°C.

size	INT. min. (mm)	C (mm)	D (mm)	V (mm)	code
T5	340	220	233	196	2330TRANA1T5
T6	370	250	263	226	2330TRANA1T6
T7	400	280	293	256	2330TRANA1T7

23519 - Borosilicate transparent glasses

According to DIN 7081 - Supplied with tightness gaskets - Fiber & graphite - Thickness: 17 mm - PS: 34 bar - TS (steam): +243°C.

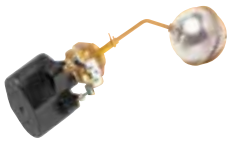
length (mm)	34 mm width code	30 mm width code
115	2351901F	2351911F
140	2351902F	2351912F
165	2351903F	2351913F
190	2351904F	2351914F
220	2351905F	2351915F
250	2351906F	2351916F
280	2351907F	2351917F
320	2351908F	2351918F
340	2351909F	2351919F

2352 - Mica protection for transparent glass

Combined with transparent glasses - According to DIN 7081 - Width: 34 mm - Thickness: 0,15-0,20 mm.

length (mm)	code
115	2352901
140	2352902
165	2352903
190	2352904
220	2352905
250	2352906
280	2352907
320	2352908
340	2352909

Level switches



RL 2100 - Float

Brass body - Stainless steel float Ø 70 mm - 2 adjustable reversing switches - Breaking capacity: 250V - 1,5A - Wire outlet Ø 10 mm - PS: 6 bar - TS: +125°C.

DN	code
1"	101805

LR 201 - Stainless steel

F316 body & float - Min. liquid density: 0,6 - IP65 aluminium junction box - 1/2" BSP gland pack - Contact SPDT 230V AC/DC max. 1 A - PS: 10 bar - TS: -20°C/+150°C.

DN	code
1/2"	290022
3/4"	290023

C4 - Stainless steel magnetic float

F316 body & float - 1 adjustable reversing switch - Breaking capacity: 250V - 1,5A - PS: 6 bar - TS: +135°C.

code
101810

LT 201 - Full stainless steel

F316 body & parts - Min. liquid density: 0,7 - IP65 aluminium junction box - 1/2" NPT gland pack - Contact SPDT 230V AC 3 A - 30V DC 3 A - Ø 40 mm float - PS: 30 bar - TS: -20°C/+150°C.

DN	code
1"1/2	290106N

Electromagnetic flowmeters

2014/68/EU Directive - Risk category I / module A - Flanged RF PN16 - Carbon steel body - Hard rubber coating - Hastelloy electrode - IP67 aluminium control box with LCD screen - Configurable M1000 amplifier - Conductivity >5 µS/cm - Possibility of bidirectional measurements - Min./max. alarm - Accuracy +/- 0,3% - Output signal 4-20mA - Power supply 92-275V AC - PS: 16 bar - TS: 0°C/+80°C.

M1000 - ModMAG® electromagnetic flowmeter

DN	25	32	40	50	65	80	100	125	150
code	M1000DIN25	M1000DIN32	M1000DIN40	M1000DIN50	M1000DIN65	M1000DIN80	M1000DIN100	M1000DIN125	M1000DIN150

DN	200
code	M1000DIN200

not on stock, on request.

M1000 DPT - ModMAG® electromagnetic flowmeter with offset control box

Offset control box with 5m wire.

DN	25	32	40	50	65	80	100	125	150
code	M1000DIN25DPT	M1000DIN32DPT	M1000DIN40DPT	M1000DIN50DPT	M1000DIN65DPT	M1000DIN80DPT	M1000DIN100DPT	M1000DIN125DPT	M1000DIN150DPT

DN	200
code	M1000DIN200DPT

not on stock, on request.

Flow tables

DN		32	40	50	65	80	100	125	150	200
min. flow at 0,03 m/s	m^3/h	0,087	0,138	0,21	0,36	0,54	0,84	1,33	1,9	3,43
	l/min	1,45	2,3	3,5	6	9	14	22,1	31,7	57,18
flow at 2,5 m/s	m^3/h	7,26	11,28	17,7	29,88	45,24	70,68	110	159	283
	l/min	120	190	295	498	754	1178	1833	2650	4717
max. flow at 12 m/s	m^3/h	34,74	54,3	84,84	143,34	217,14	339,3	530	763	1357

Spare earthing rings for M1000 electromagnetic flowmeter

2x 1.4301 stainless steel connecting ring + 2x earthing cables.

DN	25	32	40	50	65	80	100	125	150	200
code	ANNEAUT25	ANNEAUT32	ANNEAUT40	ANNEAUT50	ANNEAUT65	ANNEAUT80	ANNEAUT100	ANNEAUT125	ANNEAUT150	ANNEAUT200

not on stock, on request.

Flowmeters

2281 - DS - Acrylic with float & regulating valve NPT

Acrylic plastic body - Stainless steel fittings - Nickel-plated magnetic float - Stainless steel needle valve - FKM gasket - Vertical position, upward-flow - Accuracy: +/- 5% - PS: 10 bar - TS: -10°C/+50°C.

Ø	fluid	flow	code
1/8"	water	0,6-6 l/h	2280001
1/4"	water	0,4-4 l/min	2281004SE
1/4"	water	0,8-8 l/min	2281005SE
1/4"	air	10-100 l/min	2281006SE
1/4"	air	25-250 l/min	2281007SE
NEW 1/2"	water	1-10 l/min	2281008
NEW 1/2"	air	30 - 300 l/min	2281009

Alarm contact for DS flowmeters

Adjustable on 10-80% of the range.

code
986082

2282 - P - Stainless steel with float BSP

Stainless steel F316L body - Stainless steel float - Glass tube - FKM gasket - ⚠ **l/min scale for liquid** - Vertical position, upward-flow - Accuracy: +/- 2,5% - PS: 6 bar - TS: -5°C/+100°C.

Ø	flow (l/min)	L (mm)	code
3/8"	0,1-1	200	2282001
1/2"	1-10	240	2282002SE
3/4"	2-20	280	2282003SE
1"	5-50	280	2282004SE
1"1/4	10-100	280	2282005SE
1"1/2	20-200	305	2282006SE
2"	40-400	315	2282007SE

2285 - SF - With float, vertical & horizontal BSP

Polycarbonate body - Stainless steel 316 ends, float & spring - FKM gaskets - For water - Vertical position, upward-flow / horizontal position, fluid direction: left to right - Accuracy: +/- 5% - PS: 12 bar - TS: -5°C/+60°C.

Ø	flow (l/min)	face to face (mm)	code
1/2"	5-50	134	22852050
3/4"	10-100	165,5	22853100F
1"	15-150	165,5	22854150F
1"1/4	20-200	175	22855200F
1"1/2	25-250	175	22856250F

Alarm contact for SF flowmeters

Ø	code
1/2"	986080
3/4"	986081

2284 - MF200E - Magnetic BSP

Stainless steel 316 body & float - IP65 - ⚠ **l/h scale for liquid** - Accuracy: +/- 2% - Vertical position, upstream flow - PS: 10 bar - TS: -40°C/+180°C.

Ø	flow (l/h)	code
1/2"	15-150	2284001
1/2"	40-400	2284002
1/2"	60-600	2284003
3/4"	75-750	2284004
1"	100-1000	2284005
1"1/2	200-2000	2284006
1"1/2	400-4000	2284007

2286 - BR250S - Magnetic - Flanged PN16

Stainless steel 316 body, float & spring - Aluminium case IP66 - ⚠ **l/h scale for liquid** - Accuracy: +/- 2,5% - Supplied with alarm contact 250V AC - 5A & 30V DC - Horizontal position, fluid direction: left to right - PS: 16 bar - TS: -50°C/+200°C.

DN	flow (l/h)	face to face (mm)	code
25	400-4000	250	228602504
40	1000-10000	250	228604010
50	2000-20000	250	228605020
65	3000-30000	250	228606530
80	4000-40000	250	228608040
100	6000-60000	250	228610060

Flow switch

CE

FS 20 - Stainless steel BSP

For liquids - Stainless steel 316 body - Micro switch contact SPDT 250V AC - 3A or 30V DC - 3A - Electrical connection with connector DIN 43650 PG9 IP65 - PS: 70 bar - TS: -20°C/+150°C.

Ø	flow for activation	flow for de-activation	code
1/2"	380-460	150-210	228701
3/4"	550-610	140-240	228702
1"	930-1010	750-780	228703

Water meters

■ High flow - Woltman

Use: water distribution - Acc. to MID 2014/32/EU - Cast iron body - Flanged RF PN10/16 - Magnetic transmission - Axial helicoid - Tight dial - 1 pulse every 100l up to DN150, 1000l above - PS: 16 bar - Cold water: 0°C/+30°C - Hot water: +30°C/+90°C.

Cold water - MID R100

Hot water - MID R100

DN	length (mm)	nominal flow (m^3/h)	max. flow (m^3/h)	cold water code	hot water code
50	200	40	50	1738050	1739050
65	200	63	78,7	1738065	1739065
80	225	100	125	1738080	1739080
100	250	160	200	1738100	1739100
125	300	160	200	1738125	1739125
150	300	250	312,5	1738150	1739150
200	350	400	500	1738200	1739200

Programmable static pulse head

code
1749063

M-Bus clip-on pulser

code
1749064

M-Bus micromaster
Primary address setting.

code
1749016

■ High flow - Woltman - Pulse transmitter

Use: water distribution - Cast iron body - Flanged RF PN10/16 - Interchangeable mechanism - Axial helicoid - Horizontal mounting or vertical mounting with vertical dial.
Cold water: pre-equipped for pulse transmitter 1 pulse every 100l for DN50 to DN125, 1000l above - Max. temperature: 50°C - MID100 acc. to EN ISO 4064 & MID MI001 2014/32/EU - Q3/Q1: horizontal dial H = 100; vertical dial V = 100 - IP68.
Hot water: pre-equipped for pulse transmitter 1 pulse every 10l or 1000l for DN50 to DN125, 100l or 10000l above - Max. temperature: 90°C - Non MID - Q3/Q1: horizontal dial H = 80; vertical dial V = 50.

Cold water - MID R100

Hot water

DN	length (mm)	Cold water Q4 (m^3/h)	Cold water Q3 (m^3/h)	Cold water code	Hot water Q4 (m^3/h)	Hot water Q3 (m^3/h)	Hot water code
50	200	50	40	2738050	31,25	25	2739050
65	200	78,8	63	2738065	50	40	2739065
80	225	125	100	2738080	78,75	63	2739080
100	250	200	160	2738100	125	100	2739100
125	250	200	160	2738125	200	160	2739125
150	300	312,5	250	2738150	312	250	2739150
200	350	500	400	2738200	500	400	2739200

REED switch pulser

code
9821017

M-Bus pulser (for cold water)

code
2749061

Static pulser (for cold water)

code
2749062

■ Irrigation

Use: irrigation - Cast iron body - Flanged RF PN10/16 - Magnetic transmission - Tangential helicoid - Dry dial - Class A - Horizontal or vertical mounting - Pre-equipped or REED contact for pulse transmitter - TS: +0°C/+50°C.

Cold water - Class A

Cold water - Class A - Pulse transmitter

DN	length (mm)	nominal flow (m^3/h)	max. flow (m^3/h)	Cold water code 1 x 100 l	Cold water code 1 x 1000 l	Cold water - Pulse transmitter code 1 x 100 l	Cold water - Pulse transmitter code 1 x 1000 l
50	200	35	70	1720050	-	1724050	-
65	200	50	100	1720065	-	1724065	-
80	225	75	150	1720080	-	1724080	-
100	250	125	250	1720100	-	1724100	-
125	250	175	350	-	1720125	-	1724125
150	300	250	500	-	1720150	-	1724150
200	350	450	900	-	1720200	-	1724200

Pulse transmitter

code
9811017

Thermal energy meters, please consult

Thermometers

■ Bi-metallic - Stainless steel BSP

Excluded from 2014/68/EU (article 4, §3) - Class 2 - IP54 - For gases & liquids - Inside use only - Instrumentation glass - Stainless steel F304 case mechanism & fitting 1/2" - Duralium dial & needle - Plunger Ø 8 mm - Tight welded pipe - PS: 40 bar - TS: -30°C/+200°C.

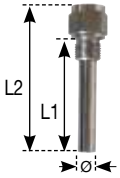
1680 / 1681 - Radial - Ø 100

scale	plunger L (mm)	code
-30°C/+50°C	77	1680001
0/+120°C	77	1680002
0/+160°C	77	1680003
0/+200°C	77	1680004
-30°C/+50°C	100	1681001
0/+120°C	100	1681002
0/+160°C	100	1681003
0/+200°C	100	1681004

1685 / 1686 - Axial - Ø 100

scale	plunger L (mm)	code
-30°C/+50°C	77	1685001
0/+120°C	77	1685002
0/+160°C	77	1685003
0/+200°C	77	1685004
-30°C/+50°C	100	1686001
0/+120°C	100	1686002
0/+160°C	100	1686003
0/+200°C	100	1686004

Stainless steel thermowells 1/2"



Ø	L1	L2	plunger L (mm)	code
14	65	90	77	9880210
14	86	110	100	9880211

■ Vertical BSP

Excluded from 2014/68/EU (article 4, §3) - For non-corrosive gases & liquids - Brass fitting 1/2" - Aluminium case - Engraved scaled glass - All positions reading - Plunger Ø 10 mm - Solid glass prismatic capillary - PS: 16 bar - TS: -30°C/+300°C.

1670 / 1672 - Straight - 150 mm height

scale	plunger L (mm)	code
0°C/+120°C	63	1670001
-30°C/+50°C	63	1670002
0°C/+120°C	100	1672001
-30°C/+50°C	100	1672002

1675 / 1677 - Angle - 150 mm height

scale	plunger L (mm)	code
0°C/+120°C	63	1675001
-30°C/+50°C	63	1675002
0°C/+120°C	100	1677001
-30°C/+50°C	100	1677002

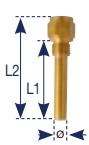
1671 / 1673 - Straight - 200 mm height

scale	plunger L (mm)	code
0°C/+120°C	63	1671001
-30°C/+50°C	63	1671002
0°C/+200°C	63	1671003
0°C/+120°C	100	1673001
-30°C/+50°C	100	1673002
0°C/+200°C	100	1673003

1676 / 1678 - Angle - 200 mm height

scale	plunger L (mm)	code
0°C/+120°C	63	1676001
-30°C/+50°C	63	1676002
0°C/+200°C	63	1676003
0°C/+300°C	63	1676004
0°C/+120°C	100	1678001
-30°C/+50°C	100	1678002
0°C/+200°C	100	1678003
0°C/+300°C	100	1678004

Brass thermowells 1/2"



Ø	L1	L2	plunger L (mm)	code
14	50	75	63	9880220
14	86	110	100	9880221

Pressure switches

ELT - Control pressure switch

For all compatible fluids, except propane - TS: -10°C/+120°C - Silver plated SPDT contacts - Shut-off 0,2A-230V AC - IP40 - Room temperature: -35°C/+60°C - According to EN 60947-1-5.

Ø	pressure setting	differential	code
F 1/4"	-0,2 - 8 bar	0,6 - 3 bar	132001SE
F 1/4"	5 - 16 bar	1 - 3,5 bar	132002SE
M 1/4"	5 - 28 bar	2 - 10 bar	132003

MDR - Process pressure switch

Stainless steel 303 inner mechanism & fitting - Stainless steel 316 Ti membrane - Aluminium support - Polycarbonate housing - IP65 - 2 SPDT contacts - Breaking capacity: resistive 10A@240VAC, inductive 4A@240VAC, 0,1A@240VDC - PS: 10 bar - TS: 0°C/+200°C - Ambient T: -20°C/+70°C - Gland pack M20 electric connection.

Ø	pressure setting	differential	code
1/4"	1 - 12 bar	0,5 - 0,8 bar	1320501

Pressure gauges

ABS plastic case - Dry

Excluded from 2014/68/EU Directive (article 4, §3) - Accuracy class according to EN837-1 - For non-viscous, non-crystallizing & non-aggressive fluids - Black ABS case - Brass Bourdon tube and mechanism - Brass connection - Clear Plexiglas window - White ABS dial - Duralumin pointer - TS: 0°C/+60°C.

1640 - Axial - Ø 40

Class 2,5 - Connection 1/8".

scale (bar)	code
0/4	1640004
0/6	1640005
0/10	1640006
0/16	1640007

1643 - Radial - Ø 63

Class 1,6 - Connection 1/4".

scale (bar)	range (psi)	code
0/4	0/60	1643004
0/6	0/90	1643005
0/10	0/150	1643006
0/16	0/230	1643007
0/25	0/350	1643008
0/40	0/600	1643009

1644 - Radial - Ø 80

Class 1,6 - Connection 1/2".

scale (bar)	range (psi)	code
0/4	0/60	1644004
0/6	0/90	1644005
0/10	0/150	1644006
0/16	0/230	1644007
0/25	0/350	1644008
0/40	0/600	1644009

1645 - Radial - Ø 100

Class 1,6 - Connection 1/2".

scale (bar)	code
0/4	1645004
0/6	1645005
0/10	1645006
0/16	1645007
0/25	1645008
0/40	1645009

Carbon steel case - Brazed brass - Dry

Excluded from 2014/68/EU Directive (article 4, §3) - Accuracy class according to EN837-1 - For non-viscous, non-crystallizing & non-aggressive fluids - Black painted steel case - Brass Bourdon tube and mechanism, tin welded - Brass connection - Flat instrument glass window - Duralumin dial - Steel pointer - TS: 0°C/+150°C (steam up to 100°C).

1619 - Radial - Ø 100

Class 1,6 - Connection 1/2".

scale (bar)	code
-1/+1	1619001
0/1,6	1619002
0/2,5	1619003
0/4	1619004
0/6	1619005
0/10	1619006
0/16	1619007
0/25	1619008
0/40	1619009

Stainless steel case - Glycerine filled BSP

Excluded from 2014/68/EU Directive (article 4, §3) - Accuracy class according to EN837-1 - IP65 - For non-viscous, non-crystallizing & non-aggressive fluids - F304 stainless steel case - Brass Bourdon tube and mechanism, tin welded - Brass connection - Polycarbonate window - Duralumin dial - Steel pointer (duralumin pointer for Ø100) - TS: 0°C/+60°C.

1612 - Radial - Ø 50

Class 2,5 - Connection 1/4".

scale (bar)	code
-1/+1	1612001
0/1,6	1612002
0/2,5	1612003
0/4	1612004
0/6	1612005
0/10	1612006
0/16	1612007
0/25	1612008
0/40	1612009
0/60	1612010

1613 - Radial - Ø 63

Class 1,6 - Connection 1/4".

scale (bar)	range (psi)	code
-1/+1	-15/+15	1613001
0/1,6	0/23	1613002
0/2,5	0/35	1613003
0/4	0/60	1613004
0/6	0/90	1613005
0/10	0/150	1613006
0/16	0/230	1613007
0/25	0/350	1613008
0/40	0/600	1613009
0/60	0/900	1613010
0/100	0/1500	1613011
0/160	0/2300	1613012
0/250	0/3500	1613013
0/400	0/6000	1613014
0/600	0/9000	1613015

1615 - Radial - Ø 100

Class 1 - Connection 1/2".

scale (bar)	code
-1/+1	1615001
0/1,6	1615002
0/2,5	1615003
0/4	1615004
0/6	1615005
0/10	1615006
0/16	1615007
0/25	1615008
0/40	1615009
0/60	1615010
0/100	1615011
0/160	1615012
0/250	1615013
0/400	1615014
0/600	1615015

1622 - Axial - Ø 50

Class 2,5 - Connection 1/4".

scale (bar)	code
-1/+1	1622001
0/1,6	1622002
0/2,5	1622003
0/4	1622004
0/6	1622005
0/10	1622006
0/16	1622007
0/25	1622008
0/40	1622009
0/60	1622010

1623 - Axial - Ø 63

Class 1,6 - Connection 1/4".

scale (bar)	range (psi)	code
-1/+1	-15/+15	1623001
0/1,6	0/23	1623002
0/2,5	0/35	1623003
0/4	0/60	1623004
0/6	0/90	1623005
0/10	0/150	1623006
0/16	0/230	1623007
0/25	0/350	1623008
0/40	0/600	1623009
0/60	0/900	1623010
0/100	0/1500	1623011
0/160	0/2300	1623012
0/250	0/3500	1623013
0/400	0/6000	1623014
0/600	0/9000	1623015

1625 - Axial - Ø 100

Class 1 - Connection 1/2".

scale (bar)	code
-1/+1	1625001
0/1,6	1625002
0/2,5	1625003
0/4	1625004
0/6	1625005
0/10	1625006
0/16	1625007

Stainless steel case - Dry - Gas capsule BSP

Excluded from 2014/68/EU Directive (article 4, §3) - Accuracy class according to EN837-3 - IP31 - For dry & non-aggressive gases - F304 stainless steel case - Brass capsule and mechanism - Brass connection - Acrylic window for 1633 / Polycarbonate window for 1635 - Duralumin dial & pointer - TS: 0°C/+60°C.

1633 - Dry - Radial - Ø 63

Class 2,5 - Connection 1/4".

scale (mbar)	code
0/60	1633001
0/100	1633002
0/250	1633003
0/400	1633004
0/600	1633005

1635 - Dry - Radial - Ø 100

Class 1,6 - Connection 1/2".

scale (mbar)	code
0/60	1635001
0/100	1635002
0/250	1635003
0/400	1635004
0/600	1635005

Push-button valve

PS: 4 bar.

Ø	code
1/4"	9880302
1/2"	9880304

■ Full stainless steel - Dry BSP

Excluded from 2014/68/EU Directive (article 4, §3) - Accuracy class according to EN837-1 - IP65 - For non-viscous & non-crystallizing aggressive fluids - F304 stainless steel case - F316 Bourdon tube and mechanism - F316 connection - Securit glass window - Aluminium dial & pointer - TS: 0°C/+100°C except fig. 1618 & 1628: 0°C/+60°C.

1616 - Dry - Radial - Ø 63

Class 1,6 - Connection 1/4".

scale (bar)	code
-1/+1	1616001
0/1,6	1616002
0/2,5	1616003
0/4	1616004
0/6	1616005
0/10	1616006
0/16	1616007
0/25	1616008
0/40	1616009
0/60	1616010

1617 - Dry - Radial - Ø 100

Class 1 - Connection 1/2".

scale (bar)	code
-1/+1	1617001
0/1,6	1617002
0/2,5	1617003
0/4	1617004
0/6	1617005
0/10	1617006
0/16	1617007
0/25	1617008
0/40	1617009
0/60	1617010

1618 - Glycerine - Radial - Ø 100

Class 1 - Connection 1/2" - Supplied filled.

scale (bar)	code
-1/+1	1618001
0/1,6	1618002
0/2,5	1618003
0/4	1618004
0/6	1618005
0/10	1618006
0/16	1618007
0/25	1618008
0/40	1618009
0/60	1618010

1626 - Dry - Axial - Ø 63

Class 1,6 - Connection 1/4".

scale (bar)	code
-1/+1	1626001
0/1,6	1626002
0/2,5	1626003
0/4	1626004
0/6	1626005
0/10	1626006
0/16	1626007
0/25	1626008
0/40	1626009
0/60	1626010

1628 - Glycerine - Axial - Ø 100

Class 1 - Connection 1/2" - Supplied filled.

scale (bar)	code
-1/+1	1628001
0/1,6	1628002
0/2,5	1628003
0/4	1628004
0/6	1628005
0/10	1628006
0/16	1628007
0/25	1628008
0/40	1628009
0/60	1628010

■ Full stainless steel - Dry to be filled BSP

STEAM

Accuracy class according to EN837-1 - For aggressive fluids - F304 stainless steel case - F316L bourdon tube & connection - IP65 - TS: max. 200°C.
⚠ **Delivered without case filling.** Glycerine filling: 5 €/pc (minimum order 5 pcs).

2385 - Radial - Ø 100

Class 1 - Connection 1/2".

scale (bar)	code	scale (bar)	code	scale (bar)	code	scale (bar)	code
-1/+0,6	2385RV02D	0/0,6	2385RV08D	0/10	2385RV14D	0/160	2385RV20D
-1/+1,5	2385RV03D	0/1	2385RV09D	0/16	2385RV15D	0/250	2385RV21D
-1/+3	2385RV04D	0/1,6	2385RV10D	0/25	2385RV16D	0/400	2385RV23D
-1/+5	2385RV05D	0/2,5	2385RV11D	0/40	2385RV17D	0/600	2385RV24D
-1/+9	2385RV06D	0/4	2385RV12D	0/60	2385RV18D		
-1/+15	2385RV07D	0/6	2385RV13D	0/100	2385RV19D		

Pressure gauges with diaphragm seal

■ Full stainless steel - Mounted & tested - Threaded BSP

Accuracy class according to EN837-1 - For aggressive, hot & corrosive fluids - F304 stainless steel case - F316L bourdon tube & connection - Securit glass window - Safety air vent - Direct mounting diaphragm seal - Wetted parts: membrane & F316L stainless steel lower part - F316L stainless steel upper part - KN59 filling oil - IP65 - PS: 100 bar - TS: max. 200°C (filled: 90°C).

2385/99-01 - Radial - Ø 100 - PS: 100 bar

Class 1 - Connection 1/2".

scale (bar)	code
0/1	2385RV09D10
0/1,6	2385RV10D10
0/2,5	2385RV11D10
0/4	2385RV12D10
0/6	2385RV13D10
0/10	2385RV14D10
0/16	2385RV15D10
0/25	2385RV16D10

2385/99-01 - Axial - Ø 100 - PS: 100 bar

Class 1 - Connection 1/2".

scale (bar)	code
0/1	2385RA09D10
0/1,6	2385RA10D10
0/2,5	2385RA11D10
0/4	2385RA12D10
0/6	2385RA13D10
0/10	2385RA14D10
0/16	2385RA15D10
0/25	2385RA16D10

■ Full stainless steel - Mounted & tested - Welded BSP

Accuracy class according to EN837-1 - For corrosive & contaminated fluids, hot pressure - F304 stainless steel case - F316L bourdon tube & connection - Polycarbonate glass window - Safety air vent - Direct mounting diaphragm seal - Wetted parts: F316L stainless steel - KN59 filling oil - IP65 - TS: +10°C/+200°C.

2383/99-04 - Radial - Ø 63 - PS: 160 bar

Class 1,6 - Connection 1/4".

scale (bar)	code
0/1	2383RV09S342D
0/1,6	2383RV10S342D
0/2,5	2383RV11S342D
0/4	2383RV12S342D
0/6	2383RV13S342D
0/10	2383RV14S342D
0/16	2383RV15S342D
0/25	2383RV16S342D
0/40	2383RV17S342D
0/60	2383RV18S342D

2383/99-04 - Axial - Ø 63 - PS: 160 bar

Class 1,6 - Connection 1/4".

scale (bar)	code
0/1	2383RA09S342D
0/1,6	2383RA10S342D
0/2,5	2383RA11S342D
0/4	2383RA12S342D
0/6	2383RA13S342D
0/10	2383RA14S342D
0/16	2383RA15S342D
0/25	2383RA16S342D
0/40	2383RA17S342D
0/60	2383RA18S342D

Accuracy class according to EN837-1 - For corrosive & contaminated fluids, hot pressure - F304 stainless steel case - F316L bourdon tube & connection - Securit glass window - Safety air vent - Direct mounting diaphragm seal - Wetted parts: F316L stainless steel - KN59 filling oil - IP65 - TS: +10°C/+200°C.

2385/99-04 - Radial - Ø 100 - PS: 60 bar

Class 1 - Connection 1/2".

scale (bar)	code
0/1	2385RV09S343D
0/1,6	2385RV10S343D
0/2,5	2385RV11S343D
0/4	2385RV12S343D
0/6	2385RV13S343D
0/10	2385RV14S343D
0/16	2385RV15S343D
0/25	2385RV16S343D
0/40	2385RV17S343D
0/60	2385RV18S343D

2385/99-04 - Axial - Ø 100 - PS: 60 bar

Class 1 - Connection 1/2".

scale (bar)	code
0/1	2385RA09S343D
0/1,6	2385RA10S343D
0/2,5	2385RA11S343D
0/4	2385RA12S343D
0/6	2385RA13S343D
0/10	2385RA14S343D
0/16	2385RA15S343D
0/25	2385RA16S343D
0/40	2385RA17S343D
0/60	2385RA18S343D

Calibration certificate - 10 points (5 points downwards, 5 points upwards).

code
CERTIF

Accessories for pressure gauges

Brass decompression valves BSP

1305 - Female/female
PS: 16 bar - TS: +90°C.

Ø	length (mm)	code
1/4"	46	1305002
3/8"	50	1305003
1/2"	56	1305004

1306 - Male/female
PS: 16 bar - TS: +90°C.

Ø	length (mm)	code
1/4"	46	1306002
3/8"	50	1306003
1/2"	56	1306004

1307 - Male/female
PS: 16 bar - TS: +90°C.

Ø	length (mm)	code
1/4"	60	1307002
1/2"	68	1307004

High pressure valves with stretcher nut BSP

1390 - Brass - Male/female
PS: 250 bar - TS: -10°C/+120°C.

Ø	length (mm)	full length (mm)	code
1/2"	100	119	1390004

1391 - Brass - Male/female with control flange
PS: 250 bar - TS: -10°C/+120°C.

Ø	length (mm)	full length (mm)	code
1/2"	100	119	1391004

1392 - Carbon steel - Male/female
DIN 16270 type A - PS: 400 bar - TS: -10°C/+200°C.

Ø	pack	length (mm)	full length (mm)	code
1/2"	10	100	119	1392004

1393 - Stainless steel - Male/female
DIN 16270 type A - PS: 400 bar - TS: -20°C/+200°C .

Ø	pack	length (mm)	full length (mm)	code
1/2"	10	100	119	1393004

Coil siphons BSP

Male/female - PN100
DIN 16282 type C - TS: +400°C (+300°C at 80 bar).

Ø	pack	type	code
1/2"	10	carbon steel	9817120
1/2"	5	stainless steel	9817130

Stainless steel - Male/female - PN20

Ø	code
1/4"	9880207
1/2"	9880208

Carbon steel - Male/male - PN25

Ø	code
1/4"	9880200
1/2"	9880201

Copper - Male/female - PN25

Ø	code
1/4"	9880202
1/2"	9880204

Carbon steel - U type - Male/male - PN25

Ø	code
1/4"	9880205
1/2"	9880206

Insulation jackets

STEAM

Pyrogel XT Aspen Aerogels® hydrophobic insulation - Fiber glass fabric with silicone cover - Fabrics sewing by Kevlar® and stainless steel wires - Braided fiber glass ropes - Thermal resistance : 1,5 m^2.k/W - TS: up to 250ºC.

MIFI - Y-strainer insulation jacket

DN	15	20	25	32	40	50	80	100
code	182015SE	182020SE	182025SE	182032SE	182040SE	182050SE	182080SE	182081SE

MISK - Float steam trap insulation jacket

Threaded

Ø	1/2"	3/4"	1"
code	181001	181002	181003

Flanged

DN	15	20	25	32	40	50
code	181004	181005	181006	181007	181008	181009

Connections for industry, HVAC & waterworks

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What's new!

Malleable cast iron threaded fittings - S-First

p. 220

Stainless steel Welding cam-lock couplings BW

p. 278

NEW Malleable cast iron threaded fittings - S-First

Mandatory packing applies

Manufacturing acc. to EN 10242 - Use: cold water, hot water, heating, fire network, sprinklers, hydrocarbons, compressed air, steam - Material acc. to EN 1562: malleable cast iron EN-GJMB-350-10, A design - Coating: black or hot-dipped galvanised - Galvanised coating for drinking water compatibility - BSP thread acc. to ISO 7-1 - PS: 1/8" to 3/4", 25 bar up to 120°C, 20 bar above; 1" and above, 20 bar up to 120°C, 16 bar above - TS: -20°C/+300°C.

1 - 90° long sweep bend male/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	1	1	1	1	1	1
black code	001008N	001012N	001015N	001020N	001026N	-	001040N	001050N	-	-	-
galv. code	001008G	001012G	001015G	001020G	001026G	001033G	001040G	001050G	001066G	001080G	001102G

2 - 90° long sweep bend female/female

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	1	1	1	1	1	1
black code	002015N	002020N	002026N	-	-	-	-	-	-
galv. code	002015G	002020G	002026G	002033G	002040G	002050G	002066G	002080G	002102G

3 - 90° long sweep bend male/male

Ø	1"	1"1/2
pack	10	1
galv. code	003026G	003040G

94 - 90° equal elbow male/male

Ø	1/2"	3/4"
pack	1	1
black code	094015N	094020N

40 - 45° long sweep bend male/female

Ø	2"	2"1/2	3"
pack	1	1	1
black code	-	-	040080N
galv. code	040050G	040066G	-

41 - 45° long sweep bend female/female

Ø	1"1/2	2"1/2
pack	1	1
galv. code	041040G	041066G

90 - 90° equal elbow female/female

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	1	1	1	1	1	1
black code	090012N	090015N	090020N	090026N	090033N	090040N	090050N	-	-	-
galv. code	090012G	090015G	090020G	090026G	090033G	090040G	090050G	090066G	090080G	090102G

92 - 90° equal elbow male/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	1	1	1	1	1	1
black code	092008N	092012N	092015N	092020N	092026N	092033N	092040N	092050N	092066N	092080N	-
galv. code	092008G	092012G	092015G	092020G	092026G	092033G	092040G	092050G	092066G	092080G	092102G

96 - 90° union elbow conical bearing female/female

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	1	1	1
black code	096015N	096020N	096026N	096033N	096040N	096050N
galv. code	096015G	096020G	096026G	096033G	096040G	096050G

98 - 90° union elbow conical bearing male/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	1	1	10	10	10	1	1	1
black code	-	-	098015N	098020N	098026N	098033N	098040N	098050N
galv. code	098008G	098012G	098015G	098020G	098026G	098033G	098040G	098050G

120 - 45° equal elbow female/female

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	1	1	1	1	1	1
galv. code	120015G	120020G	120026G	120033G	120040G	120050G

121 - 45° equal elbow male/female

Ø	2"	3"
pack	1	1
galv. code	121050G	121080G

130 - Equal tee female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	1	1	1	1	1	1
black code	130008N	130012N	130015N	130020N	130026N	130033N	130040N	130050N	-	-	-
galv. code	130008G	130012G	130015G	130020G	130026G	130033G	130040G	130050G	130066G	130080G	130102G

1

2

3

130R - Reducing tee female 1=3>2

Ø	1"-1/2-1"	1"1/4-1/2"-1"1/4	1"1/2-1/2"-1"1/2	1"1/2-1"-1"1/2	2"-1"-2"	2"1/2-1"1/2-2"1/2
pack	1	1	1	1	1	1
black code	130026015026N	130033015033N	130040015040N	130040026040N	130050026050N	-
galv. code	130026015026G	-	130040015040G	130040026040G	-	130066040066G

131 - Equal pitcher tee female

Ø	3/4"
pack	1
galv. code	131020G

180 - Equal cross female

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
pack	1	1	1	1	1	1	1	1
galv. code	180015G	180020G	180026G	180033G	180040G	180050G	180066G	180080G

240 - Reducing socket

Ø	1/4"-1/8"	3/8"-1/4"	1/2"-1/4"	1/2"-3/8"	3/4"-3/8"	3/4"-1/2"	1"-1/2"	1"-3/4"	1"1/4-3/4"
pack	10	10	10	10	10	10	10	10	1
black code	-	240012008N	-	240015012N	240020012N	240020015N	240026015N	240026020N	-
galv. code	240008005G	240012008G	240015008G	240015012G	240020012G	240020015G	240026015G	240026020G	240033020G

Ø	1"1/4-1"	1"1/2-3/4"	1"1/2-1"	1"1/2-1"1/4	2"-1"	2"-1"1/4	2"-1"1/2	2"1/2-1"1/2	2"1/2-2"
pack	1	1	1	1	1	1	1	1	1
black code	240033026N	240040020N	240040026N	240040033N	240050026N	240050033N	240050040N	-	240066050N
galv. code	240033026G	240040020G	240040026G	240040033G	240050026G	240050033G	240050040G	240066040G	240066050G

Ø	3"-1"1/2	3"-2"	3"-2"1/2	4"-2"1/2
pack	1	1	1	1
galv. code	240080040G	240080050G	240080066G	240102066G

241 - Reducing bush

Ø	1/4"-1/8"	3/8"-1/8"	3/8"-1/4"	1/2"-1/8"	1/2"-1/4"	1/2"-3/8"	3/4"-1/4"	3/4"-3/8"	3/4"-1/2"
pack	10	10	10	10	10	10	10	10	10
black code	-	-	241012008N	-	241015008N	241015012N	-	241020012N	241020015N
galv. code	241008005G	241012005G	241012008G	241015005G	241015008G	241015012G	241020008G	241020012G	241020015G

Ø	1"-3/8"	1"-1/2"	1"-3/4"	1"1/4-1/2"	1"1/4-3/4"	1"1/4-1"	1"1/2-3/8"	1"1/2-1/2"	1"1/2-3/4"
pack	10	10	10	1	1	1	1	1	1
black code	241026012N	241026015N	241026020N	241033015N	241033020N	241033026N	241040012N	241040015N	241040020N
galv. code	241026012G	241026015G	241026020G	241033015G	241033020G	241033026G	-	241040015G	241040020G

Ø	1"1/2-1"	1"1/2-1"1/4	2"-1/2"	2"-3/4"	2"-1"	2"-1"1/4	2"-1"1/2	2"1/2-1"	2"1/2-1"1/2
pack	1	1	1	1	1	1	1	1	1
black code	241040026N	241040033N	-	241050020N	241050026N	241050033N	241050040N	-	241066040N
galv. code	241040026G	241040033G	241050015G	241050020G	241050026G	241050033G	241050040G	241066026G	241066040G

Ø	2"1/2-2"	3"-1"1/2	3"-2"	3"-2"1/2	4"-2"1/2	4"-3"
pack	1	1	1	1	1	1
black code	241066050N	-	-	-	-	-
galv. code	241066050G	241080040G	241080050G	241080066G	241102066G	241102080G

245 - Reducing hexagonal nipple male

Ø	3/8"-1/4"	1/2"-1/4"	1/2"-3/8"	3/4"-1/4"	3/4"-3/8"	3/4"-1/2"	1"-1/2"	1"-3/4	1"1/4-1/2"
pack	10	10	10	10	10	10	10	10	1
black code	245012008N	245015008N	245015012N	-	-	245020015N	245026015N	245026020N	-
galv. code	245012008G	245015008G	245015012G	245020008G	245020012G	245020015G	245026015G	245026020G	245033015G

Ø	1"1/4-3/4"	1"1/4-1"	1"1/2-3/4"	1"1/2-1"	1"1/2-1"1/4	2"-1"	2"-1"1/4	2"-1"1/2	2"1/2-1"1/2
pack	1	1	1	1	1	1	1	1	1
black code	245033020N	245033026N	-	245040026N	245040033N	245050026N	245050033N	245050040N	-
galv. code	245033020G	245033026G	245040020G	245040026G	245040033G	245050026G	245050033G	245050040G	245066040G

Ø	2"1/2-2"	3"-2"	3"-2"1/2
pack	1	1	1
galv. code	245066050G	245080050G	245080066G

246 - Reducing socket female>male

Ø	1/2"-1/4"	1/2"-3/8"	3/4"-3/8"	3/4"-1/2"	1"-1/2"	1"-3/4"	1"1/4-1/2"	1"1/4-3/4"	1"1/4-1"
pack	10	10	10	10	10	10	1	1	1
black code	246015008N	246015012N	-	246020015N	246026015N	246026020N	-	246033020N	-
galv. code	246015008G	246015012G	246020012G	246020015G	246026015G	246026020G	246033015G	246033020G	246033026G

Ø	1"1/2-3/4"	1"1/2-1"	1'1/2-1"1/4	2"-1"	2"-1"1/4	2"-1"1/2	2"1/2-2"	3"-2"	3"-2"1/2
pack	1	1	1	1	1	1	1	1	1
black code	-	246040026N	246040033N	-	246050033N	246050040N	-	-	-
galv. code	246040020G	246040026G	246040033G	246050026G	246050033G	246050040G	246066050G	246080050G	246080066G

270 - Equal socket

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	1	1	1	1	1	1
black code	270008N	270012N	270015N	270020N	270026N	270033N	270040N	270050N	-	-	-
galv. code	270008G	270012G	270015G	270020G	270026G	270033G	270040G	270050G	270066G	270080G	270102G

280 - Hexagonal nipple

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	1	1	1	1	1	1
black code	280008N	280012N	280015N	280020N	280026N	280033N	280040N	280050N	280066N	280080N	-
galv. code	280008G	280012G	280015G	280020G	280026G	280033G	280040G	280050G	280066G	280080G	280102G

290 - Beaded square head plug

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	1	1	1	1	1	1
black code	290008N	290012N	290015N	290020N	290026N	290033N	290040N	290050N	-	-	-
galv. code	290008G	290012G	290015G	290020G	290026G	290033G	290040G	290050G	290066G	290080G	290102G

300 - Hexagonal cap

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	10	1	1	1	1	1	1
black code	-	300008N	300012N	300015N	300020N	300026N	300033N	300040N	300050N	300066N	-	-
galv. code	300005G	300008G	300012G	300015G	300020G	300026G	300033G	300040G	300050G	300066G	300080G	300102G

330 - Equal union flat bearing female

Supplied without gasket. See gaskets p. 234.

Ø	1"	1"1/4	1"1/2	2"	2"1/2	3"
pack	10	1	1	1	1	1
galv. code	330026G	330033G	330040G	330050G	330066G	330080G

331 - Equal union flat bearing male/female

Supplied without gasket. See gaskets p. 234.

Ø	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	1	1	1
galv. code	331020G	331026G	331033G	331040G	331050G

529A - Socket male/female

Ø	1"	1"1/4	1"1/2	2"
pack	10	1	1	1
galv. code	529A026G	529A033G	529A040G	529A050G

340 - Equal union conical bearing female

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
pack	10	10	10	10	1	1	1	1	1
black code	340012N	340015N	340020N	340026N	340033N	340040N	340050N	340066N	-
galv. code	340012G	340015G	340020G	340026G	340033G	340040G	340050G	340066G	340080G

341 - Equal union conical bearing male/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	1	1	1	1	1	1
black code	341008N	341012N	341015N	341020N	341026N	341033N	341040N	341050N	341066N	341080N	-
galv. code	-	341012G	341015G	341020G	341026G	341033G	341040G	341050G	341066G	341080G	341102G

Malleable cast iron threaded fittings

Mandatory packing applies

Guarantee 5 Years

Manufacturing acc. to EN 10242 - Use: cold water, hot water, heating, fire network, sprinklers, hydrocarbons, compressed air, steam - Material acc. to EN 1562: malleable cast iron EN-GJMB-350-10 or EN-GJMW-400-5, A design - Coating: black or hot-dipped galvanised - Galvanised coating for drinking water compatibility (DVGW approval on galvanised range) - BSP thread acc. to ISO 7-1 - PS: 1/8" to 3/4", 25 bar up to 120°C, 20 bar above; 1" and above, 20 bar up to 120°C, 16 bar above - TS: -20°C/+300°C.

1 - 90° long sweep bend male/female

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	1	1	1	1	1	1	1	1
black code	SF1N5	SF1N8	SF1N12	SF1N15	SF1N20	SF1N26	SF1N33	SF1N40	SF1N50	SF1N66	SF1N80	SF1N102
galv. code	SF1G5	SF1G8	SF1G12	SF1G15	SF1G20	SF1G26	SF1G33	SF1G40	SF1G50	SF1G66	SF1G80	SF1G102

1A - 90° short bend male/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	1	1	1	1	1	1	1
black code	SF1AN8	SF1AN12	SF1AN15	SF1AN20	SF1AN26	SF1AN33	SF1AN40	SF1AN50	SF1AN66	SF1AN80	SF1AN102
galv. code	SF1AG8	SF1AG12	SF1AG15	SF1AG20	SF1AG26	SF1AG33	SF1AG40	SF1AG50	SF1AG66	SF1AG80	SF1AG102

2 - 90° long sweep bend female/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	5	1	1	1	1	1	1	1
black code	SF2N8	SF2N12	SF2N15	SF2N20	SF2N26	SF2N33	SF2N40	SF2N50	SF2N66	SF2N80	SF2N102
galv. code	SF2G8	SF2G12	SF2G15	SF2G20	SF2G26	SF2G33	SF2G40	SF2G50	SF2G66	SF2G80	SF2G102

2A - 90° short bend female/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	1	1	1	1	1	1	1
black code	SF2AN8	SF2AN12	SF2AN15	SF2AN20	SF2AN26	SF2AN33	SF2AN40	SF2AN50	SF2AN66	SF2AN80	SF2AN102
galv. code	SF2AG8	SF2AG12	SF2AG15	SF2AG20	SF2AG26	SF2AG33	SF2AG40	SF2AG50	SF2AG66	SF2AG80	SF2AG102

3 - 90° long sweep bend male/male

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	5	1	1	1	1	1	1	1
black code	SF3N8	SF3N12	SF3N15	SF3N20	SF3N26	SF3N33	SF3N40	SF3N50	SF3N66	SF3N80	SF3N102
galv. code	SF3G8	SF3G12	SF3G15	SF3G20	SF3G26	SF3G33	SF3G40	SF3G50	SF3G66	SF3G80	SF3G102

40 - 45° long sweep bend male/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	5	1	1	1	1	1	1
black code	SF40N8	SF40N12	SF40N15	SF40N20	SF40N26	SF40N33	SF40N40	SF40N50	SF40N66	SF40N80	SF40N102
galv. code	SF40G8	SF40G12	SF40G15	SF40G20	SF40G26	SF40G33	SF40G40	SF40G50	SF40G66	SF40G80	SF40G102

41 - 45° long sweep bend female/female

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	5	1	1	1	1	1	1
black code	SF41N12	SF41N15	SF41N20	SF41N26	SF41N33	SF41N40	SF41N50	SF41N66	SF41N80	-
galv. code	SF41G12	SF41G15	SF41G20	SF41G26	SF41G33	SF41G40	SF41G50	SF41G66	SF41G80	SF41G102

60 - 180° return bend female/female

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	1	1	1	1	1	1
black code	SF60N15	SF60N20	SF60N26	SF60N33	SF60N40	SF60N50
galv. code	SF60G15	SF60G20	SF60G26	SF60G33	SF60G40	SF60G50

85 - Crossover female/female

Ø	1/2"	1/2-3/4"	3/4"	1"
pack	1	1	1	1
black code	SF85N15	SF85N1520	SF85N20	SF85N26
galv. code	SF85G15	SF85G1520	SF85G20	SF85G26

90 - 90° equal elbow female/female

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	10	1	1	1	1	1	1
black code	SF90N5	SF90N8	SF90N12	SF90N15	SF90N20	SF90N26	SF90N33	SF90N40	SF90N50	SF90N66	SF90N80	SF90N102
galv. code	SF90G5	SF90G8	SF90G12	SF90G15	SF90G20	SF90G26	SF90G33	SF90G40	SF90G50	SF90G66	SF90G80	SF90G102

90R - 90° reducing elbow female/female

Ø	1/4"-1/8"	3/8"-1/4"	1/2"-1/4"	1/2"-3/8"	3/4"-3/8"	3/4"-1/2"	1"-3/8"	1"-1/2"	1"-3/4"	1"1/4-1/2"	1"1/4-3/4"	1"1/4-1"
pack	10	10	10	10	10	10	10	10	10	1	1	1
black code	SF90N85	SF90N128	SF90N158	SF90N1512	SF90N2012	SF90N2015	SF90N2612	SF90N2615	SF90N2620	SF90N3315	SF90N3320	SF90N3326
galv. code	SF90G85	SF90G128	SF90G158	SF90G1512	SF90G2012	SF90G2015	SF90G2612	SF90G2615	SF90G2620	SF90G3315	SF90G3320	SF90G3326

Ø	1"1/2-3/4"	1"1/2-1"	1"1/2-1"1/4	2"-1"	2"-1"1/4	2"-1"1/2	2"1/2-2"
pack	1	1	1	1	1	1	1
black code	SF90N4020	SF90N4026	SF90N4033	SF90N5026	SF90N5033	SF90N5040	SF90N6650
galv. code	SF90G4020	SF90G4026	SF90G4033	SF90G5026	SF90G5033	SF90G5040	SF90G6650

92 - 90° equal street elbow male/female

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	10	1	1	1	1	1	1
black code	SF92N5	SF92N8	SF92N12	SF92N15	SF92N20	SF92N26	SF92N33	SF92N40	SF92N50	SF92N66	SF92N80	SF92N102
galv. code	SF92G5	SF92G8	SF92G12	SF92G15	SF92G20	SF92G26	SF92G33	SF92G40	SF92G50	SF92G66	SF92G80	SF92G102

92R - 90° reducing street elbow female>male

Ø	1/2"-3/8"	3/4"-1/2"	1"-1/2"	1"-3/4"	1"1/4-3/4"	1"1/4-1"	1"1/2-1"	1"1/2-1"1/4
pack	10	10	10	10	1	1	1	1
black code	SF92N1512	SF92N2015	SF92N2615	SF92N2620	-	SF92N3326	SF92N4026	SF92N4033
galv. code	SF92G1512	SF92G2015	SF92G2615	SF92G2620	SF92G3320	SF92G3326	SF92G4026	SF92G4033

92R - 90° reducing street elbow male>female

Ø	3/8"-1/2"	1/2"-3/4"	3/4"-1"
pack	10	10	10
black code	SF92N1215	SF92N1520	SF92N2026
galv. code	SF92G1215	SF92G1520	SF92G2026

94 - 90° equal elbow male/male

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	1	10	10	10	1	1	1
black code	SF94N12	SF94N15	SF94N20	SF94N26	SF94N33	SF94N40	SF94N50
galv. code	SF94G12	SF94G15	SF94G20	SF94G26	SF94G33	SF94G40	SF94G50

95 - 90° union elbow flat bearing female/female

Supplied without gasket. For fiber gaskets, see page 234.

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	1	1	1	1	1	1	1
black code	SF95N12	SF95N15	SF95N20	SF95N26	SF95N33	SF95N40	SF95N50
galv. code	SF95G12	SF95G15	SF95G20	SF95G26	SF95G33	SF95G40	SF95G50

96 - 90° union elbow conical bearing female/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
pack	10	10	10	5	1	1	1	1	1	1
black code	SF96N8	SF96N12	SF96N15	SF96N20	SF96N26	SF96N33	SF96N40	SF96N50	SF96N66	SF96N80
galv. code	SF96G8	SF96G12	SF96G15	SF96G20	SF96G26	SF96G33	SF96G40	SF96G50	SF96G66	SF96G80

97 - 90° union elbow flat bearing male/female

Supplied without gasket. For fiber gaskets, see page 234.

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	1	10	1	1	1	1	1
black code	SF97N12	SF97N15	SF97N20	SF97N26	SF97N33	SF97N40	SF97N50
galv. code	SF97G12	SF97G15	SF97G20	SF97G26	SF97G33	SF97G40	SF97G50

98 - 90° union elbow conical bearing male/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
pack	1	1	5	1	1	1	1	1	1	1
black code	SF98N8	SF98N12	SF98N15	SF98N20	SF98N26	SF98N33	SF98N40	SF98N50	SF98N66	SF98N80
galv. code	SF98G8	SF98G12	SF98G15	SF98G20	SF98G26	SF98G33	SF98G40	SF98G50	SF98G66	SF98G80

120 - 45° equal elbow female/female

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	1	1	1	1	1	1
black code	SF120N12	SF120N15	SF120N20	SF120N26	SF120N33	SF120N40	SF120N50	SF120N66	SF120N80	SF120N102
galv. code	SF120G12	SF120G15	SF120G20	SF120G26	SF120G33	SF120G40	SF120G50	SF120G66	SF120G80	SF120G102

121 - 45° equal elbow male/female

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
pack	10	10	10	10	1	1	1	1	1
black code	SF121N12	SF121N15	SF121N20	SF121N26	SF121N33	SF121N40	SF121N50	SF121N66	SF121N80
galv. code	SF121G12	SF121G15	SF121G20	SF121G26	SF121G33	SF121G40	SF121G50	SF121G66	SF121G80

130 - Equal tee female

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"	6"
pack	10	10	10	10	10	5	1	1	1	1	1	1	1
black code	SF130N5	SF130N8	SF130N12	SF130N15	SF130N20	SF130N26	SF130N33	SF130N40	SF130N50	SF130N66	SF130N80	SF130N102	SF130N150
galv. code	SF130G5	SF130G8	SF130G12	SF130G15	SF130G20	SF130G26	SF130G33	SF130G40	SF130G50	SF130G66	SF130G80	SF130G102	SF130G150

130R - Reducing tee female 1=3<2

Ø	3/8"-1/2"-3/8"	1/2"-3/4"-1/2"	1/2"-1"-1/2"	3/4"-1"-3/4"	1"-1"1/4-1"	1"-1"1/2-1"	1"1/4-1"1/2-1"1/4	1"1/4-2"-1"1/4	1"1/2-2"-1"1/2	2"-2"1/2-2"
pack	10	10	10	10	1	1	1	1	1	1
black code	SF130N121512	SF130N152015	SF130N152615	SF130N202620	SF130N263326	SF130N264026	SF130N334033	SF130N335033	SF130N405040	SF130N506650
galv. code	SF130G121512	SF130G152015	SF130G152615	SF130G202620	SF130G263326	SF130G264026	SF130G334033	SF130G335033	SF130G405040	SF130G506650

130R - Reducing tee female 1=3>2

Ø	3/8 "-1/4"-3/8"	1/2"-1/4"-1/2"	1/2"-3/8"-1/2"	3/4"-1/4"-3/4"	3/4"-3/8"-3/4"	3/4" x1/2"-3/4"	1"-1/4"-1"	1"-3/8"-1"	1"-1/2 "-1"
pack	10	10	10	10	10	10	10	10	10
black code	SF130N128	SF130N158	SF130N1512	SF130N208	SF130N2012	SF130N2015	SF130N268	SF130N2612	SF130N2615
galv. code	SF130G128	SF130G158	SF130G1512	SF130G208	SF130G2012	SF130G2015	SF130G268	SF130G2612	SF130G2615

Ø	1"-3/4"-1"	1"1/4-3/8"-1"1/4	1"1/4-1/2"-1"1/4	1"1/4-3/4"-1"1/4	1"1/4-1"-1"1/4	1"1/2-3/8"-1"1/2	1"1/2-1/2"-1"1/2	1"1/2-3/4"-1"1/2	1"1/2-1"-1"1/2
pack	10	1	1	1	1	1	1	1	1
black code	SF130N2620	SF130N3312	SF130N3315	SF130N3320	SF130N3326	SF130N4012	SF130N4015	SF130N4020	SF130N4026
galv. code	SF130G2620	SF130G3312	SF130G3315	SF130G3320	SF130G3326	SF130G4012	SF130G4015	SF130G4020	SF130G4026

Ø	1"1/2-1"1/4-1"1/2	2"-1/2"-2"	2"-3/4"-2"	2"-1"-2"	2"-1"1/4-2"	2"-1"1/2-2"	2"1/2-1/2"-2"1/2	2"1/2-3/4"-2"1/2	2"1/2-1"-2"1/2
pack	1	1	1	1	1	1	1	1	1
black code	SF130N4033	SF130N5015	SF130N5020	SF130N5026	SF130N5033	SF130N5040	SF130N6615	SF130N6620	SF130N6626
galv. code	SF130G4033	SF130G5015	SF130G5020	SF130G5026	SF130G5033	SF130G5040	SF130G6615	SF130G6620	SF130G6626

Ø	2"1/2-1"1/4-2"1/2	2"1/2-1"1/2-2"1/2	2"1/2-2"-2"1/2	3"-3/4"-3"	3"-1"-3"	3"-1"1/4-3"	3"-1"1/2-3"	3"-2"-3"	3"-2"1/2-3"
pack	1	1	1	1	1	1	1	1	1
black code	SF130N6633	SF130N6640	SF130N6650	SF130N8020	SF130N8026	SF130N8033	SF130N8040	SF130N8050	SF130N8066
galv. code	SF130G6633	SF130G6640	SF130G6650	SF130G8020	SF130G8026	SF130G8033	SF130G8040	SF130G8050	SF130G8066

Ø	4"-1"1/2-4"	4"-2"-4"	4"-2"1/2-4"	4"-3"-4"
pack	1	1	1	1
black code	SF130N10240	SF130N10250	SF130N10266	SF130N10280
galv. code	SF130G10240	SF130G10250	SF130G10266	SF130G10280

130R - Reducing tee female 1>2=3

Ø	1/2"-3/8"-3/8"	3/4"-1/2"-1/2"	1"-1/2"-1/2"	1"-3/4"-3/4"	1"1/4-3/4"-3/4"	1"1/4-1"-1"	1"1/2-1"-1"	1"1/2-1"1/4-1"1/4	2" -1"1/4-1"1/4	2"-1"1/2-1"1/2	2"1/2-2"-2"	3"-2"-2"
pack	10	10	10	10	1	1	1	1	1	1	1	1
black code	SF130N151212	SF130N201515	SF130N261515	SF130N262020	SF130N332020	SF130N332626	SF130N402626	SF130N403333	SF130N503333	SF130N504040	-	-
galv. code	SF130G151212	SF130G201515	SF130G261515	SF130G262020	SF130G332020	SF130G332626	SF130G402626	SF130G403333	SF130G503333	SF130G504040	SF130G665050	SF130G805050

130R - Reducing tee female 1=2>3

Ø	1/2"-1/2"-3/8"	3/4"-3/4"-3/8"	3/4"-3/4"-1/2"	1"-1"-3/8"	1"-1"-1/2"	1"-1"-3/4"	1"1/4-1"1/4-1/2"	1"1/4-1"1/4-3/4"	1"1/4-1"1/4-1"	1"1/2-1"1/2-1/2"
pack	1	10	10	10	1	1	1	1	1	1
black code	SF130N151512	SF130N202012	SF130N202015	SF130N262612	SF130N262615	SF130N262620	SF130N333315	SF130N333320	SF130N333326	SF130N404015
galv. code	SF130G151512	SF130G202012	SF130G202015	SF130G262612	SF130G262615	SF130G262620	SF130G333315	SF130G333320	SF130G333326	SF130G404015

Ø	1"1/2-1"1/2-3/4"	1"1/2-1"1/2-1"	1"1/2-1"1/2-1"1/4	2"-2"-1/2"	2"-2"-3/4"	2"-2"-1"	2"-2"-1"1/4	2"-2"-1"1/2	2"1/2-2"1/2-2"
pack	1	1	1	1	1	1	1	1	1
black code	SF130N404020	SF130N404026	SF130N404033	SF130N505015	SF130N505020	SF130N505026	SF130N505033	SF130N505040	-
galv. code	SF130G404020	SF130G404026	SF130G404033	SF130G505015	SF130G505020	SF130G505026	SF130G505033	SF130G505040	SF130G666650

130R - Reducing tee female 1≠2≠3

Ø	3/4"-3/8"-1/2"	3/4"-1/2"-3/8"	3/4"-1"-1/2"	1"-1/2"-3/4"	1"-3/4"-1/2"	1"-1"1/4-3/4"	1"1/4-1/2"-1"	1"1/4-3/4"-1"	1"1/4-1"-3/4"	1"1/4-1"1/2-1"
pack	10	10	10	10	1	1	1	1	1	1
black code	SF130N201215	SF130N201512	SF130N202615	SF130N261520	SF130N262015	SF130N263320	SF130N331526	SF130N332026	SF130N332620	SF130N334026
galv. code	SF130G201215	SF130G201512	SF130G202615	SF130G261520	SF130G262015	SF130G263320	SF130G331526	SF130G332026	SF130G332620	SF130G334026

Ø	1"1/2-1/2"-1"1/4	1"1/2-3/4"-1"1/4	1"1/2-1"-1"1/4	1"1/2-1"1/4-1"	1"1/2-2"-1"1/4	2"-1/2"-1"1/2	2"-3/4"-1"1/2	2"-1"-1"1/2	2"-1"1/4-1"1/2
pack	1	1	1	1	1	1	1	1	1
black code	SF130N401533	SF130N402033	SF130N402633	SF130N403326	SF130N405033	SF130N501540	SF130N502040	SF130N502640	SF130N503340
galv. code	SF130G401533	SF130G402033	SF130G402633	SF130G403326	SF130G405033	SF130G501540	SF130G502040	SF130G502640	SF130G503340

131 - Equal pitcher tee female

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
pack	10	1	1	1	1	1	1	1
black code	SF131N15	SF131N20	SF131N26	SF131N33	SF131N40	SF131N50	SF131N66	SF131N80
galv. code	SF131G15	SF131G20	SF131G26	SF131G33	SF131G40	SF131G50	SF131G66	SF131G80

132 - Equal twin elbows female

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	1	1	1	1	1
black code	SF132N15	SF132N20	SF132N26	SF132N33	SF132N40	SF132N50
galv. code	SF132G15	SF132G20	SF132G26	SF132G33	SF132G40	SF132G50

133 - Equal tee female/male/female

Ø	3/8"	1/2"	3/4"	1"
pack	10	10	1	1
black code	SF133N12	SF133N15	SF133N20	SF133N26
galv. code	SF133G12	SF133G15	SF133G20	SF133G26

134 - Equal tee male/female/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	10	1	1	1	1
black code	SF134N8	SF134N12	SF134N15	SF134N20	SF134N26	SF134N33	SF134N40	SF134N50
galv. code	SF134G8	SF134G12	SF134G15	SF134G20	SF134G26	SF134G33	SF134G40	SF134G50

134R - Reducing tee male/female/female 1=3>2

Ø	1/2"-1/4"	3/4"-1/2"	1"-1/2"
pack	1	1	1
black code	SF134N158	SF134N2015	SF134N2615
galv. code	SF134G158	SF134G2015	SF134G2615

135 - Equal tee male

Ø	1/2"	3/4"	1"
pack	10	1	1
black code	SF135N15	SF135N20	SF135N26
galv. code	SF135G15	SF135G20	SF135G26

165 - 45° equal tee female

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	1	10	10	5	1	1	1	1	1	1
black code	SF165N12	SF165N15	SF165N20	SF165N26	SF165N33	SF165N40	SF165N50	SF165N66	SF165N80	SF165N102
galv. code	-	SF165G15	SF165G20	SF165G26	SF165G33	SF165G40	SF165G50	SF165G66	SF165G80	SF165G102

180 - Equal cross female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	1	1	1	1	1	1	1
black code	SF180N8	SF180N12	SF180N15	SF180N20	SF180N26	SF180N33	SF180N40	SF180N50	SF180N66	SF180N80	SF180N102
galv. code	SF180G8	SF180G12	SF180G15	SF180G20	SF180G26	SF180G33	SF180G40	SF180G50	SF180G66	SF180G80	SF180G102

180R - Reducing cross female 1=3>2=4

Ø	3/4"-1/2"	1"-1/2"	1"-3/4"	1"1/4-1"	1"1/2-1"	2"-1"
pack	1	1	1	1	1	1
black code	SF180N2015	SF180N2615	SF180N2620	SF180N3326	SF180N4026	SF180N5026
galv. code	SF180G2015	SF180G2615	SF180G2620	SF180G3326	SF180G4026	SF180G5026

221 - Side outlet elbow

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	1	10	10	1	1	1	1
black code	SF221N12	SF221N15	SF221N20	SF221N26	SF221N33	SF221N40	SF221N50
galv. code	SF221G12	SF221G15	SF221G20	SF221G26	SF221G33	SF221G40	SF221G50

223 - Side outlet tee

Ø	1/2"	3/4"	1"
pack	1	1	1
black code	SF223N15	SF223N20	SF223N26
galv. code	SF223G15	SF223G20	SF223G26

220 - Equal Y distributor

Ø	3/8"	1/2"	3/4"	1"
pack	10	10	10	1
black code	SF220N12	SF220N15	SF220N20	SF220N26
galv. code	SF220G12	SF220G15	SF220G20	SF220G26

240 - Reducing socket

Ø	1/4"-1/8"	3/8"-1/8"	3/8"-1/4"	1/2"-1/4"	1/2"-3/8"	3/4"-1/4"	3/4"-3/8"	3/4"-1/2"	1"-3/8"
pack	10	10	10	10	10	10	10	10	10
black code	SF240N85	SF240N125	SF240N128	SF240N158	SF240N1512	SF240N208	SF240N2012	SF240N2015	SF240N2612
galv. code	SF240G85	SF240G125	SF240G128	SF240G158	SF240G1512	SF240G208	SF240G2012	SF240G2015	SF240G2612

Ø	1"-1/2"	1"-3/4"	1"1/4-3/8"	1"1/4-1/2"	1"1/4-3/4"	1"1/4-1"	1"1/2-1/2"	1"1/2-3/4"	1"1/2-1"
pack	10	10	1	10	10	1	1	1	1
black code	SF240N2615	SF240N2620	SF240N3312	SF240N3315	SF240N3320	SF240N3326	SF240N4015	SF240N4020	SF240N4026
galv. code	SF240G2615	SF240G2620	SF240G3312	SF240G3315	SF240G3320	SF240G3326	SF240G4015	SF240G4020	SF240G4026

Ø	1"1/2-1"1/4	2"-1/2"	2"-3/4"	2"-1"	2"-1"1/4	2"-1"1/2	2"1/2-1"	2"1/2-1"1/4	2"1/2-1"1/2
pack	1	1	1	1	1	1	1	1	1
black code	SF240N4033	SF240N5015	SF240N5020	SF240N5026	SF240N5033	SF240N5040	SF240N6626	SF240N6633	SF240N6640
galv. code	SF240G4033	SF240G5015	SF240G5020	SF240G5026	SF240G5033	SF240G5040	SF240G6626	SF240G6633	SF240G6640

Ø	2"1/2-2"	3"-1"1/2	3"-2"	3"-2"1/2	4"-2"	4"-2"1/2	4"-3"
pack	1	1	1	1	1	1	1
black code	SF240N6650	SF240N8040	SF240N8050	SF240N8066	SF240N10250	SF240N10266	SF240N10280
galv. code	SF240G6650	SF240G8040	SF240G8050	SF240G8066	SF240G10250	SF240G10266	SF240G10280

241 - Reducing bush

Ø	1/4"-1/8"	3/8"-1/8"	3/8"-1/4"	1/2"-1/8"	1/2"-1/4"	1/2"-3/8"	3/4"-1/4"	3/4"-3/8"	3/4"-1/2"
pack	10	10	10	10	10	10	10	10	10
black code	SF241N85	SF241N125	SF241N128	SF241N155	SF241N158	SF241N1512	SF241N208	SF241N2012	SF241N2015
galv. code	SF241G85	SF241G125	SF241G128	SF241G155	SF241G158	SF241G1512	SF241G208	SF241G2012	SF241G2015

Ø	1"-1/4"	1"-3/8"	1"-1/2"	1"-3/4"	1"1/4-3/8"	1"1/4-1/2"	1"1/4-3/4"	1"1/4-1"	1"1/2-3/8"
pack	10	10	10	10	10	10	10	10	1
black code	SF241N268	SF241N2612	SF241N2615	SF241N2620	SF241N3312	SF241N3315	SF241N3320	SF241N3326	SF241N4012
galv. code	SF241G268	SF241G2612	SF241G2615	SF241G2620	SF241G3312	SF241G3315	SF241G3320	SF241G3326	SF241G4012

Ø	1"1/2-1/2"	1"1/2-3/4"	1"1/2-1"	1"1/2-1"1/4	2"-1/2"	2"-3/4"	2"-1"	2"-1"1/4	2"-1"1/2
pack	10	10	10	10	1	1	1	1	1
black code	SF241N4015	SF241N4020	SF241N4026	SF241N4033	SF241N5015	SF241N5020	SF241N5026	SF241N5033	SF241N5040
galv. code	SF241G4015	SF241G4020	SF241G4026	SF241G4033	SF241G5015	SF241G5020	SF241G5026	SF241G5033	SF241G5040

Ø	2"1/2-1"	2"1/2-1"1/4	2"1/2-1"1/2	2"1/2-2"	3"-1"	3"-1"1/4	3"-1"1/2	3"-2"	3"-2"1/2
pack	1	1	1	1	1	1	1	1	1
black code	SF241N6626	SF241N6633	SF241N6640	SF241N6650	SF241N8026	SF241N8033	SF241N8040	SF241N8050	SF241N8066
galv. code	SF241G6626	SF241G6633	SF241G6640	SF241G6650	SF241G8026	SF241G8033	SF241G8040	SF241G8050	SF241G8066

Ø	4"-2"	4"-2"1/2	4"-3"
pack	1	1	1
black code	SF241N10250	SF241N10266	SF241N10280
galv. code	SF241G10250	SF241G10266	SF241G10280

245 - Reducing hexagonal nipple male

Ø	1/4"-1/8"	3/8"-1/8"	3/8"-1/4"	1/2"-1/4"	1/2"-3/8"	3/4"-1/4"	3/4"-3/8"	3/4"-1/2"	1"-1/2"
pack	10	10	10	10	10	10	10	10	10
black code	SF245N85	SF245N125	SF245N128	SF245N158	SF245N1512	SF245N208	SF245N2012	SF245N2015	SF245N2615
galv. code	SF245G85	SF245G125	SF245G128	SF245G158	SF245G1512	SF245G208	SF245G2012	SF245G2015	SF245G2615

Ø	1"-3/4"	1"1/4-1/2"	1"1/4-3/4"	1"1/4-1"	1"1/2-3/4"	1"1/2-1"	1"1/2-1"1/4	2"-1"	2"-1"1/4
pack	10	1	5	5	1	1	1	1	1
black code	SF245N2620	SF245N3315	SF245N3320	SF245N3326	SF245N4020	SF245N4026	SF245N4033	SF245N5026	SF245N5033
galv. code	SF245G2620	SF245G3315	SF245G3320	SF245G3326	SF245G4020	SF245G4026	SF245G4033	SF245G5026	SF245G5033

Ø	2"-1"1/2	2"1/2-1"1/2	2"1/2-2"	3"-2"	3"-2"1/2	4"-3"
pack	1	1	1	1	1	1
black code	SF245N5040	SF245N6640	SF245N6650	SF245N8050	SF245N8066	SF245N10280
galv. code	SF245G5040	SF245G6640	SF245G6650	SF245G8050	SF245G8066	SF245G10280

246 - Reducing socket female>male

Ø	1/4"-1/8"	3/8"-1/4"	1/2"-1/4"	1/2"-3/8"	3/4"-3/8"	3/4"-1/2"	1"-1/2"	1"-3/4"	1"1/4-1/2"
pack	10	10	10	10	10	10	10	10	1
black code	SF246N85	SF246N128	SF246N158	SF246N1512	SF246N2012	SF246N2015	SF246N2615	SF246N2620	SF246N3315
galv. code	SF246G85	SF246G128	SF246G158	SF246G1512	SF246G2012	SF246G2015	SF246G2615	SF246G2620	SF246G3315

Ø	1"1/4-3/4"	1"1/4-1"	1"1/2-3/4"	1"1/2-1"	1"1/2-1"1/4	2"-1"	2"-1"1/4	2"-1"1/2	2"1/2-1"1/2
pack	5	5	1	1	1	1	1	1	1
black code	SF246N3320	SF246N3326	SF246N4020	SF246N4026	SF246N4033	SF246N5026	SF246N5033	SF246N5040	SF246N6640
galv. code	SF246G3320	SF246G3326	SF246G4020	SF246G4026	SF246G4033	SF246G5026	SF246G5033	SF246G5040	SF246G6640

Ø	2"1/2-2"	3"-2"	3"-2"1/2
pack	1	1	1
black code	SF246N6650	SF246N8050	SF246N8066
galv. code	SF246G6650	SF246G8050	SF246G8066

270 - Equal socket

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	10	1	1	1	1	1	1
black code	SF270N5	SF270N8	SF270N12	SF270N15	SF270N20	SF270N26	SF270N33	SF270N40	SF270N50	SF270N66	SF270N80	SF270N102
galv. code	SF270G5	SF270G8	SF270G12	SF270G15	SF270G20	SF270G26	SF270G33	SF270G40	SF270G50	SF270G66	SF270G80	SF270G102

271 - Right & left hand thread socket

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	1	1	1	1	1	1	1
black code	SF271N12	SF271N15	SF271N20	SF271N26	SF271N33	SF271N40	SF271N50
galv. code	SF271G12	SF271G15	SF271G20	SF271G26	SF271G33	SF271G40	SF271G50

280 - Hexagonal nipple

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	10	10	1	1	1	1	1
black code	SF280N5	SF280N8	SF280N12	SF280N15	SF280N20	SF280N26	SF280N33	SF280N40	SF280N50	SF280N66	SF280N80	SF280N102
galv. code	SF280G5	SF280G8	SF280G12	SF280G15	SF280G20	SF280G26	SF280G33	SF280G40	SF280G50	SF280G66	SF280G80	SF280G102

281 - Right & left hand thread hexagonal nipple

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	1	10	10	10	1	1	1
black code	-	SF281N15	SF281N20	SF281N26	SF281N33	SF281N40	SF281N50
galv. code	SF281G12	SF281G15	SF281G20	SF281G26	SF281G33	SF281G40	SF281G50

290 - Beaded square head plug

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	10	10	1	1	1	1	1
black code	SF290N5	SF290N8	SF290N12	SF290N15	SF290N20	SF290N26	SF290N33	SF290N40	SF290N50	SF290N66	SF290N80	SF290N102
galv. code	SF290G5	SF290G8	SF290G12	SF290G15	SF290G20	SF290G26	SF290G33	SF290G40	SF290G50	SF290G66	SF290G80	SF290G102

291 - Square head plain plug

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	10	10	10	1	1	1	1
black code	SF291N5	SF291N8	SF291N12	SF291N15	SF291N20	SF291N26	SF291N33	SF291N40	SF291N50	SF291N66	SF291N80	SF291N102
galv. code	SF291G5	SF291G8	SF291G12	SF291G15	SF291G20	SF291G26	SF291G33	SF291G40	SF291G50	SF291G66	SF291G80	SF291G102

300 - Hexagonal cap

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	10	10	1	1	1	1	1
black code	SF300N5	SF300N8	SF300N12	SF300N15	SF300N20	SF300N26	SF300N33	SF300N40	SF300N50	SF300N66	SF300N80	SF300N102
galv. code	SF300G5	SF300G8	SF300G12	SF300G15	SF300G20	SF300G26	SF300G33	SF300G40	SF300G50	SF300G66	SF300G80	SF300G102

312 - Recessed hexagonal backnut

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
pack	10	10	10	10	10	10	1	1	1	1
black code	SF312N8	SF312N12	SF312N15	SF312N20	SF312N26	SF312N33	SF312N40	SF312N50	SF312N66	SF312N80
galv. code	SF312G8	SF312G12	SF312G15	SF312G20	SF312G26	SF312G33	SF312G40	SF312G50	SF312G66	SF312G80

321 - Threaded flange

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	1	1	1	1	1	1
black code	SF321N15	SF321N20	SF321N26	SF321N33	SF321N40	SF321N50
galv. code	SF321G15	SF321G20	SF321G26	SF321G33	SF321G40	SF321G50

326 - Threaded oval flange with holes

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	1	1	1	1	1	1
black code	SF326N15	SF326N20	SF326N26	SF326N33	SF326N40	SF326N50
galv. code	SF326G15	SF326G20	SF326G26	SF326G33	SF326G40	SF326G50

330 - Equal union flat bearing female

Aramid fiber + NBR gasket. ⚠ **Not suitable for gas.** For gas use, see gaskets p. 234.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	5	5	1	1	1	1	1	1
black code	SF330N8	SF330N12	SF330N15	SF330N20	SF330N26	SF330N33	SF330N40	SF330N50	SF330N66	SF330N80	SF330N102
galv. code	SF330G8	SF330G12	SF330G15	SF330G20	SF330G26	SF330G33	SF330G40	SF330G50	SF330G66	SF330G80	SF330G102

331 - Equal union flat bearing male/female

Aramid fiber + NBR gasket. ⚠ **Not suitable for gas.** For gas use, see gaskets p. 234.

Ø	1/4" *	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2 *	3" *
pack	1	10	10	5	1	1	1	1	1	1
black code	SF331N8	SF331N12	SF331N15	SF331N20	SF331N26	SF331N33	SF331N40	SF331N50	SF331N66	SF331N80
galv. code	SF331G8	SF331G12	SF331G15	SF331G20	SF331G26	SF331G33	SF331G40	SF331G50	SF331G66	SF331G80

* Supplied without gasket.

340 - Equal union conical bearing female

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	1	10	10	10	5	5	1	1	1	1	1	1
black code	SF340N5	SF340N8	SF340N12	SF340N15	SF340N20	SF340N26	SF340N33	SF340N40	SF340N50	SF340N66	SF340N80	SF340N102
galv. code	SF340G5	SF340G8	SF340G12	SF340G15	SF340G20	SF340G26	SF340G33	SF340G40	SF340G50	SF340G66	SF340G80	SF340G102

341 - Equal union conical bearing male/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	5	10	10	5	5	1	1	1	1	1	1
black code	SF341N8	SF341N12	SF341N15	SF341N20	SF341N26	SF341N33	SF341N40	SF341N50	SF341N66	SF341N80	SF341N102
galv. code	SF341G8	SF341G12	SF341G15	SF341G20	SF341G26	SF341G33	SF341G40	SF341G50	SF341G66	SF341G80	SF341G102

342 - Equal union with bronze tightness ring female

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	5	5	1	1	1
black code	SF342N15	SF342N20	SF342N26	SF342N33	SF342N40	SF342N50
galv. code	SF342G15	SF342G20	SF342G26	SF342G33	SF342G40	SF342G50

344 - Equal union conical bearing male

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	1	1	1	1	1
black code	SF344N8	SF344N12	SF344N15	SF344N20	SF344N26	SF344N33	SF344N40	SF344N50
galv. code	SF344G8	SF344G12	SF344G15	SF344G20	SF344G26	SF344G33	SF344G40	SF344G50

370 - Female union bush for flat bearing union fitting

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
pack	10	10	10	5	1	1	1
black code	SF370N15	SF370N20	SF370N26	SF370N33	SF370N40	SF370N50	SF370N66
galv. code	SF370G15	SF370G20	SF370G26	SF370G33	SF370G40	SF370G50	SF370G66

371 - Male union end for flat bearing union fitting

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	5	2	1	1
black code	SF371N15	SF371N20	SF371N26	SF371N33	SF371N40	SF371N50
galv. code	SF371G15	SF371G20	SF371G26	SF371G33	SF371G40	SF371G50

372 - Female union end for flat bearing union fitting

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	5	1	1	1
black code	SF372N15	SF372N20	SF372N26	SF372N33	SF372N40	SF372N50
galv. code	SF372G15	SF372G20	SF372G26	SF372G33	SF372G40	SF372G50

471 - 90° bracket elbow female

Ø	3/8"	1/2"	3/4"
pack	1	10	5
galv. code	SF471G12	SF471G15	SF471G20

374 - Union nut

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	1	10	1	10	10	1	1	1	1	1	1
black code	SF374N8	SF374N12	SF374N15	SF374N20	SF374N26	SF374N33	SF374N40	SF374N50	SF374N66	SF374N80	SF374N102
galv. code	SF374G8	SF374G12	SF374G15	SF374G20	SF374G26	SF374G33	SF374G40	SF374G50	SF374G66	SF374G80	SF374G102

529A - Socket male/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	10	10	5	1	1
black code	SF529AN8	SF529AN12	SF529AN15	SF529AN20	SF529AN26	SF529AN33	SF529AN40	SF529AN50
galv. code	SF529AG8	SF529AG12	SF529AG15	SF529AG20	SF529AG26	SF529AG33	SF529AG40	SF529AG50

596 - Square hole plug

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	1	10	10	10	10	10	1	1	1
black code	SF596N5	SF596N8	SF596N12	SF596N15	SF596N20	SF596N26	SF596N33	SF596N40	SF596N50
galv. code	SF596G5	SF596G8	SF596G12	SF596G15	SF596G20	SF596G26	SF596G33	SF596G40	SF596G50

98030 - Fiber gasket for flat bearing union fitting

Thickness 1,5.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	9803074	9803075	9803076	9803077	9803078	9803079	9803080	9803081	9803082	9803083	9803084

Carbon steel pipe nipples & sockets

Welded pipe nipples BSP

Mandatory packing applies

Excluded from 2014/68/EU Directive (art. 4, §3) - Manufacturing acc. to EN 10241 - Use: liquids & compressed air - Material: carbon steel S235 - Coating: black or galvanised - Galvanised coating for drinking water compatibility - BSP thread acc. to ISO 7-1 - PS: 16 bar - TS: -20°C/+300°C.

530AN/530AG - Welding half-nipple length 50 mm BW

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	10	10	10	5	5	5
black code	530AN505	530AN508	530AN5012	530AN5015	530AN5020	530AN5026	530AN5033	530AN5040	530AN5050
galv. code	530AG505	530AG508	530AG5012	530AG5015	530AG5020	530AG5026	530AG5033	530AG5040	530AG5050

530AN/530AG - Welding half-nipple length 100 mm BW

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	1	1	1	1	1	1
black code	530AN1008	530AN10012	530AN10015	530AN10020	530AN10026	530AN10033	530AN10040	530AN10050	530AN10066	530AN10080	530AN100102
galv. code	530AG1008	530AG10012	530AG10015	530AG10020	530AG10026	530AG10033	530AG10040	530AG10050	530AG10066	530AG10080	530AG100102

530N/530G - Barrel nipple length 40 mm

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	10	10	5	5	5
black code	530N408	530N4012	530N4015	530N4020	530N4026	530N4033	530N4040	530N4050
galv. code	530G408	530G4012	530G4015	530G4020	530G4026	530G4033	530G4040	530G4050

530N/530G - Barrel nipple length 50 mm

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	5	5	5
black code	530N5015	530N5020	530N5026	530N5033	530N5040	530N5050
galv. code	530G5015	530G5020	530G5026	530G5033	530G5040	530G5050

530N/530G - Barrel nipple length 60 mm

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	10	10	5	5	5
black code	530N608	530N6012	530N6015	530N6020	530N6026	530N6033	530N6040	530N6050
galv. code	530G608	530G6012	530G6015	530G6020	530G6026	530G6033	530G6040	530G6050

530N/530G - Barrel nipple length 80 mm

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	5	5	5	5	1	1
black code	530N808	530N8012	530N8015	530N8020	530N8026	530N8033	530N8040	530N8050	530N8066	530N8080	530N80102
galv. code	530G808	530G8012	530G8015	530G8020	530G8026	530G8033	530G8040	530G8050	530G8066	530G8080	530G80102

530N/530G - Barrel nipple length 100 mm

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	10	5	5	5	1	1	1
black code	530N1005	530N1008	530N10012	530N10015	530N10020	530N10026	530N10033	530N10040	530N10050	530N10066	530N10080	530N100102
galv. code	530G1005	530G1008	530G10012	530G10015	530G10020	530G10026	530G10033	530G10040	530G10050	530G10066	530G10080	530G100102

530N/530G - Barrel nipple length 120 mm

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	5	5	5	1	6	1	1
black code	530N1205	530N1208	530N12012	530N12015	530N12020	530N12026	530N12033	530N12040	530N12050	530N12066	530N12080	530N120102
galv. code	-	530G1208	530G12012	530G12015	530G12020	530G12026	530G12033	530G12040	530G12050	530G12066	530G12080	530G120102

530N/530G - Barrel nipple length 150 mm

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	10	5	5	1	1	1	1
black code	530N1505	530N1508	530N15012	530N15015	530N15020	530N15026	530N15033	530N15040	530N15050	530N15066	530N15080	530N150102
galv. code	530G1505	530G1508	530G15012	530G15015	530G15020	530G15026	530G15033	530G15040	530G15050	530G15066	530G15080	530G150102

530N/530G - Barrel nipple length 180 mm

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	5	5	5	1	1	1
black code	530N1808	530N18012	530N18015	530N18020	530N18026	530N18033	530N18040	530N18050	530N18066	530N18080	530N180102
galv. code	530G1808	530G18012	530G18015	530G18020	530G18026	530G18033	530G18040	530G18050	530G18066	530G18080	530G180102

530N/530G - Barrel nipple length 200 mm

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	10	5	5	1	1	1	1
black code	530N2005	530N2008	530N20012	530N20015	530N20020	530N20026	530N20033	530N20040	530N20050	530N20066	530N20080	530N200102
galv. code	530G2005	530G2008	530G20012	530G20015	530G20020	530G20026	530G20033	530G20040	530G20050	530G20066	530G20080	530G200102

530N/530G - Barrel nipple length 250 mm

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	5	5	5	1	1	1
black code	530N2508	530N25012	530N25015	530N25020	530N25026	530N25033	530N25040	530N25050	530N25066	530N25080	530N250102
galv. code	530G2508	530G25012	530G25015	530G25020	530G25026	530G25033	530G25040	530G25050	530G25066	530G25080	530G250102

530N/530G - Barrel nipple length 300 mm

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	5	5	1	1	1	1
black code	530N3008	530N30012	530N30015	530N30020	530N30026	530N30033	530N30040	530N30050	530N30066	530N30080	530N300102
galv. code	530G3008	530G30012	530G30015	530G30020	530G30026	530G30033	530G30040	530G30050	530G30066	530G30080	530G300102

530N/530G - Barrel nipple length 400 mm

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
pack	10	8	5	4	5	4	3
black code	530N40015	530N40020	530N40026	530N40033	530N40040	530N40050	530N40066
galv. code	530G40015	530G40020	530G40026	530G40033	530G40040	530G40050	530G40066

530N/530G - Barrel nipple length 500 mm

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
pack	10	8	5	4	5	4	3
black code	530N50015	530N50020	530N50026	530N50033	530N50040	530N50050	530N50066
galv. code	530G50015	530G50020	530G50026	530G50033	530G50040	530G50050	530G50066

530N/530G - Barrel nipple length 600 mm

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
pack	10	8	5	4	5	4	3
black code	530N60015	530N60020	530N60026	530N60033	530N60040	530N60050	530N60066
galv. code	530G60015	530G60020	530G60026	530G60033	530G60040	530G60050	530G60066

530N/530G - Barrel nipple length 700 mm

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
pack	10	8	5	4	5	4	3
black code	530N70015	530N70020	530N70026	530N70033	530N70040	530N70050	530N70066
galv. code	530G70015	530G70020	530G70026	530G70033	530G70040	530G70050	530G70066

530N/530G - Barrel nipple length 1000 mm

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
pack	10	8	5	4	5	4	3
black code	530N100015	530N100020	530N100026	530N100033	530N100040	530N100050	530N100066
galv. code	530G100015	530G100020	530G100026	530G100033	530G100040	530G100050	530G100066

Seamless pipe nipples BSP

530AT3 - Welding half-nipple length 100 mm BW

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
pack	10	10	10	10	5	5	5	2	1
black code	530AT3N10012	530AT3N10015	530AT3N10020	530AT3N10026	530AT3N10033	530AT3N10040	530AT3N10050	530AT3N10066	530AT3N10080

530T3 - Barrel nipple length 100 mm

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
pack	10	10	10	10	5	5	5	2	1
black code	530T3N10012	530T3N10015	530T3N10020	530T3N10026	530T3N10033	530T3N10040	530T3N10050	530T3N10066	530T3N10080

530T3 - Barrel nipple length 150 mm

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	5	10	5	5	5
black code	530T3N15012	530T3N15015	530T3N15020	530T3N15026	530T3N15033	530T3N15040	530T3N15050

530T3 - Barrel nipple length 200 mm

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
pack	10	10	10	10	5	5	1	1	1
black code	530T3N20012	530T3N20015	530T3N20020	530T3N20026	530T3N20033	530T3N20040	530T3N20050	530T3N20066	530T3N20080

Sockets BSP

MADN - Half-socket

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	5	1	1	1	1	1
black code	MADN15	MADN20	MADN26	MADN33	MADN40	MADN50	MADN66	MADN80	MADN102

MAN/MAG - Socket

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	5	5	5	1	1	1
black code	MAN15	MAN20	MAN26	MAN33	MAN40	MAN50	MAN66	MAN80	MAN102
galv. code	MAG15	MAG20	MAG26	MAG33	MAG40	MAG50	MAG66	MAG80	MAG102

Stainless steel pipe nipples

Forged stainless steel nipples - 150 lbs BSP

Mandatory packing applies

Excluded from 2014/68/EC Directive (art. 4, §3) - For all common fluids - Material: F316 body - BSP thread acc. to ISO 7.1 - PS: 20 bar - TS: -25°C/+180°C.

2039 - Standard welding nipple BW

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
length (mm)	22	23	27	33	35	36	41	46	55	70	80
pack	10	10	10	10	5	5	5	5	1	1	1
code	2039002	2039003	2039004	2039005	2039006	2039007	2039008	2039009	2039010	2039011	2039012

2034 - Welding nipple - Length = 50 mm BW

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	10	5	5	5	5
code	2034002	2034003	2034004	2034005	2034006	2034007	2034008	2034009

2042 - Welding nipple - Length = 100 mm BW

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	10	5	5	5	5
code	2042002	2042003	2042004	2042005	2042006	2042007	2042008	2042009

2040 - Standard barrel nipple

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
length (mm)	40	40	60	60	60	80	80	100	100	120	120
pack	10	10	10	10	5	5	5	5	1	1	1
code	2040002	2040003	2040004	2040005	2040006	2040007	2040008	2040009	2040010	2040011	2040012

2038 - Barrel nipple length 100 mm

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	10	5	5	5	5
code	2038002	2038003	2038004	2038005	2038006	2038007	2038008	2038009

2041 - Barrel nipple length 200 mm

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	10	5	5	5	5
code	2041002	2041003	2041004	2041005	2041006	2041007	2041008	2041009

Forged stainless steel nipples - 150 lbs NPT

Individual packing

Excluded from 2014/68/EC Directive (art. 4, §3) - For all common fluids - Material: F316L body - NPT thread acc. to ANSI B1.20.1 - PS: 20 bar - Products can be sourced from several suppliers.

EM - Welding half-nipple BW

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
length	22	22	23	27	33	35	36	41	46	55	60	80
code	EM5B	EM8B	EM12B	EM15B	EM20B	EM25B	EM32B	EM40B	EM50B	EM65B	EM80B	EM100B

EML - Welding half-nipple length 100 mm BW

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	EML8B	EML12B	EML15B	EML20B	EML25B	EML32B	EML40B	EML50B	EML65B	EML80B	EML100B

MC - Barrel nipple

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
length	36	39	42	50	56	58	62	74	80	100	120
code	MC8B	MC12B	MC15B	MC20B	MC25B	MC32B	MC40B	MC50B	MC65B	MC80B	MC100B

MCL - Barrel nipple length 100 mm

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
code	MCL8B	MCL12B	MCL15B	MCL20B	MCL25B	MCL32B	MCL40B	MCL50B	MCL65B	MC80B

Forged hose nozzle fittings BSP

Individual packing

Excluded from 2014/68/EC Directive (art. 4, 3) - For all common fluids - Material: F316L body - BSP thread acc. to ISO 7.1 - PS: 20 bar - Products can be sourced from several suppliers.

AF - Hexagon female/hose

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	28	33	39	44	50	52	59	75	89
code	AF5G	AF8G	AF12G	AF15G	AF20G	AF25G	AF32G	AF40G	AF50G

AM - Male/hose

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
length (mm)	42	42	47	53	57	65	68	74	82	104	130	154
code	AM5G	AM8G	AM12G	AM15G	AM20G	AM25G	AM32G	AM40G	AM50G	AM65G	AM80G	AM100G

AL - Butt welding/hose

DN	5	8	12	15	20	25	32	40	50	65	80	100
length (mm)	30	30	35	40	40	45	55	55	60	80	100	120
code	AL5G	AL8G	AL12G	AL15G	AL20G	AL25G	AL32G	AL40G	AL50G	AL65G	AL80G	AL100G

ALD - Double hose

DN	5	8	12	15	20	25	32	40	50
length (mm)	46	46	55	60	60	75	90	90	96
code	ALD5G	ALD8G	ALD12G	ALD15G	ALD20G	ALD25G	ALD32G	ALD40G	ALD50G

Stainless steel socket welding fittings - S-First

Cast welding fittings - 150 lbs

Individual packing

Excluded from 2014/68/EC Directive (art. 4, §3) - For all common fluids - Material: F316 body except for M: F316L - PS: 20 bar - Products can be sourced from several suppliers.

CFF - 90° welding elbow

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	CFF15SW	CFF20SW	CFF25SW	CFF32SW	CFF40SW	CFF50SW

CFF45 - 45° welding elbow

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	CFF4515SW	CFF4520SW	CFF4525SW	CFF4532SW	CFF4540SW	CFF4550SW

TE - Welding tee

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	TE15SW	TE20SW	TE25SW	TE32SW	TE40SW	TE50SW

M - Welding socket

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	34	36	43	48	48	56
code	M15SW	M20SW	M25SW	M32SW	M40SW	M50SW

Stainless steel threaded fittings - S-First

Cast threaded fittings - 150 lbs

Mandatory packing applies

Excluded from 2014/68/UE Directive (art. 4, §3) - For all common fluids - Material: CF8M body - BSP thread acc. to ISO 7.1 - PS: 20 bar - TS: -25°C/+180°C - Products can be sourced from several suppliers.

2070 - 90° equal elbow female/female

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	5	5	5	5	1	1	1
code	2070001	2070002	2070003	2070004	2070005	2070006	2070007	2070008	2070009	2070010	2070011	2070012

2072 - 90° equal street elbow male/female

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
length (mm)	26	28	30	34	38,5	45	52,5	56	68,5	81,5	92,5
pack	10	10	10	10	10	5	5	5	5	1	1
code	2072001	2072002	2072003	2072004	2072005	2072006	2072007	2072008	2072009	2072010	2072011

2071 - Equal tee female

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
length (mm)	34	38	46	50	55	66	80	86	104	130	150	184
pack	10	10	10	10	10	5	5	5	5	1	1	1
code	2071001	2071002	2071003	2071004	2071005	2071006	2071007	2071008	2071009	2071010	2071011	2071012

2073 - Reducing socket female/female

Ø	1/4"-1/8"	3/8"-1/4"	1/2"-3/8"	3/4"-1/2"	1"-3/4"	1"1/4-1"	1"1/2-1"1/4	2"-1"1/2
length (mm)	25,5	29	31	33,5	38	41	45,5	49
pack	10	10	10	10	10	5	5	5
code	2073002	2073003	2073004	2073005	2073006	2073007	2073008	2073009

2074 - Double reducing socket female/female

Ø	3/8"-1/8"	1/2"-1/4"	3/4"-3/8"	1"-1/2"	1"1/4-3/4"	1"1/2-1"	2"-1"1/4
length (mm)	29	31	33,5	38	41	45,5	49
pack	10	10	10	5	5	5	5
code	2074003	2074004	2074005	2074006	2074007	2074008	2074009

2075 - Reducing bush

Ø	1/4"-1/8"	3/8"-1/4"	1/2"-3/8"	3/4"-1/2"	1"-3/4"	1"1/4-1"	1"1/2-1"1/4	2"-1"1/2
length (mm)	16	16,5	19,5	21	24	27,5	28,5	32
pack	10	10	10	10	5	5	5	5
code	2075002	2075003	2075004	2075005	2075006	2075007	2075008	2075009

Ø	2"1/2-2"	3"-2"1/2	4"-3"
length (mm)	37	42	47
pack	1	1	1
code	RMF6550G	RMF8065G	RMF10080G

2078 - Double/triple reducing bush

Ø	3/8"-1/8"	1/2"-1/4"	3/4"-3/8"	1"-1/2"	1"1/4-3/4"	1"1/2-1"	2"-1"1/4	2"1/2-1"1/4
length (mm)	16,5	19,5	21	24	27,5	28,5	32	37
pack	10	10	10	5	5	5	5	1
code	2078003	2078004	2078005	2078006	2078007	2078008	2078009	RMF6532G

Ø	2"1/2-1"1/2	3"-2"	4"-2"	4"-2"1/2
length (mm)	37	42	47	47
pack	1	1	1	1
code	RMF6540G	RMF8050G	RMF10050G	RMF10065G

2085 - Reducing hexagonal nipple

Ø	1/4"-1/8"	3/8"-1/4"	1/2"-3/8"	3/4"-1/2"	1"-3/4"	1"1/4-1"	1"1/2-1"1/4	2"-1"1/2
length (mm)	22,5	24	30,5	35,5	39,5	45	47,5	52,5
pack	10	10	10	10	5	5	5	5
code	2085002	2085003	2085004	2085005	2085006	2085007	2085008	2085009

2086 - Double reducing hexagonal nipple

Ø	3/8"-1/8"	1/2"-1/4"	3/4"-3/8"	1"-1/2"	1"1/4-3/4"	1"1/2-1"	2"-1"1/4
length (mm)	24	29,5	32	38,5	42,5	45	52,5
pack	10	10	10	5	5	5	5
code	2086003	2086004	2086005	2086006	2086007	2086008	2086009

2087 - Reducing socket female/male

Ø	1/4"-1/8"	3/8"-1/4"	1/2"-3/8"	3/4"-1/2"	1"-3/4"	1"1/4-1"	1"1/2-1"1/4	2"-1"1/2
length (mm)	25	28	32	37	41,5	47	49,5	54
pack	10	10	10	10	10	5	5	5
code	2087002	2087003	2087004	2087005	2087006	2087007	2087008	2087009

2084 - Equal hexagonal nipple

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
length (mm)	20	25	27	34	36,5	42	47,5	47,5	57	74	86
pack	10	10	10	10	10	5	5	5	5	1	1
code	2084001	2084002	2084003	2084004	2084005	2084006	2084007	2084008	2084009	MH65G	MH80G

2088 - Hose nozzle male

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
Ø hose	9	11,5	15	20	27	33	39,5	52	64	76	102
length (mm)	34,5	41	48,5	58	67	70	74	83	-	-	-
pack	10	10	10	10	5	5	5	5	1	1	1
code	2088002	2088003	2088004	2088005	2088006	2088007	2088008	2088009	AH65G	AH80G	AH100G

TC - Bulkhead coupling

Ø int.	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2
Ø ext.	1/2"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	35	35	40	40	45	50	54
pack	1	1	1	1	1	1	1
code	TC8G	TC12G	TC15G	TC20G	TC25G	TC32G	TC40G

2076 - Hexagonal plug

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	19,5	21	24	27	27	32
pack	10	10	5	5	5	5
code	2076004	2076005	2076006	2076007	2076008	2076009

2077 - Plain hexagonal plug

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Heigth (mm)	12	14,5	16	19,5	21	24	27	27	32
pack	10	10	10	10	10	5	5	5	5
code	2077001	2077002	2077003	2077004	2077005	2077006	2077007	2077008	2077009

2090 - Hexagonal cap

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	14	14,5	18,5	19	22	25	25	30
pack	10	10	10	10	5	5	5	5
code	2090002	2090003	2090004	2090005	2090006	2090007	2090008	2090009

2089 - Hexagonal backnut

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	5	6	6	7	7	9	11	11	13
pack	10	10	10	10	10	5	5	5	5
code	2089001	2089002	2089003	2089004	2089005	2089006	2089007	2089008	2089009

Cast 3 piece unions - 150lbs - S-First BSP

Individual packing

Excluded from 2014/68/EU Directive (art. 4, §3) - For all common fluids from Group 2 & liquids from Group 1 - Material: CF8M body - BSP thread acc. to ISO 7.1 - Conical bearing - PS: 20 bar - TS: -25°C/+180°C - Products can be sourced from several suppliers.

MF - Equal union male/female

Ø	1/4''	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
pack	1	1	1	1	1	1	1	1	1	1
code	MF8GM	MF12GM	MF15GM	MF20GM	MF25GM	MF32GM	MF40GM	MF50GM	MF65GM	MF80GM

FF - Equal union female/female

Ø	1/4''	3/8''	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
pack	1	1	1	1	1	1	1	1	1	1
code	FF8GM	FF12GM	FF15GM	FF20GM	FF25GM	FF32GM	FF40GM	FF50GM	FF65GM	FF80GM

Stainless steel threaded fittings

Cast threaded fittings - 150 lbs BSP

Mandatory packing applies

Excluded from 2014/68/EU Directive (art. 4, §3) - For all common fluids from Group 2 & liquids from Group 1 - Material: CF8M body - BSP thread acc. to ISO 7.1 except 2017 & 2015: BSP thread acc. to ISO 228-1 - PS: 20 bar - TS: -25°C/+180°C.

2017 - Half socket

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	10	11	13	16	18	20	22	23	27
pack	10	10	10	10	10	5	5	5	5
code	2017001	2017002	2017003	2017004	2017005	2017006	2017007	2017008	2017009

2015 - Equal socket

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
length (mm)	17	25	26	34	36	43	48	48	56	65	71	83
pack	10	10	10	10	10	5	5	5	5	1	1	1
code	2015001	2015002	2015003	2015004	2015005	2015006	2015007	2015008	2015009	2015010	2015011	2015012

2001 - 90° equal elbow female/female

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	5	5	5	5	1	1	1
code	2001001	2001002	2001003	2001004	2001005	2001006	2001007	2001008	2001009	2001010	2001011	2001012

2010 - 90° equal street elbow male/female

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
pack	10	10	10	10	10	5	5	5	5	1	1
code	2010001	2010002	2010003	2010004	2010005	2010006	2010007	2010008	2010009	2010010	2010011

2003 - Equal tee female

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	10	10	10	5	5	5	5	1	1	1
code	2003001	2003002	2003003	2003004	2003005	2003006	2003007	2003008	2003009	2003010	2003011	2003012

2002 - Equal cross female

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	10	10	10	5	5	5
code	2002001	2002002	2002003	2002004	2002005	2002006	2002007	2002008	2002009

2013 - Reducing socket female/female

Ø	1/4"-1/8"	3/8"-1/4"	1/2"-3/8"	3/4"-1/2"	1"-3/4"	1"1/4-1"	1"1/2-1"1/4	2"-1"1/2
pack	10	10	10	10	10	5	5	5
code	2013002	2013003	2013004	2013005	2013006	2013007	2013008	2013009

2014 - Double reducing socket female/female

Ø	3/8"-1/8"	1/2"-1/4"	3/4"-3/8"	1"-1/2"	1"1/4-3/4"	1"1/2-1"	2"-1"1/4
pack	10	10	10	5	5	5	5
code	2014003	2014004	2014005	2014006	2014007	2014008	2014009

2021 - Reducing bush

Ø	1/4"-1/8"	3/8"-1/4"	1/2"-3/8"	3/4"-1/2"	1"-3/4"	1"1/4-1"	1"1/2-1"1/4	2"-1"1/2
pack	10	10	10	10	5	5	5	5
code	2021002	2021003	2021004	2021005	2021006	2021007	2021008	2021009

2024 - Double reducing bush

Ø	3/8"-1/8"	1/2"-1/4"	3/4"-3/8"	1"-1/2"	1"1/4-3/4"	1"1/2-1"	2"-1"1/4
pack	10	10	10	5	5	5	5
code	2024003	2024004	2024005	2024006	2024007	2024008	2024009

2031 - Reducing hexagonal nipple

Ø	1/4"-1/8"	3/8"-1/4"	1/2"-3/8"	3/4"-1/2"	1"-3/4"	1"1/4-1"	1"1/2-1"1/4	2"-1"1/2
pack	10	10	10	10	5	5	5	5
code	2031002	2031003	2031004	2031005	2031006	2031007	2031008	2031009

2032 - Double reducing hexagonal nipple

Ø	3/8"-1/8"	1/2"-1/4"	3/4"-3/8"	1"-1/2"	1"1/4-3/4	1"1/2-1"	2"-1"1/4
pack	10	10	10	5	5	5	5
code	2032003	2032004	2032005	2032006	2032007	2032008	2032009

2033 - Reducing socket female > male

Ø	1/4"-1/8"	3/8"-1/4"	1/2"-3/8"	3/4"-1/2"	1"-3/4"	1"1/4-1"	1"1/2-1"1/4	2"-1"1/2
pack	10	10	10	10	10	5	5	5
code	2033002	2033003	2033004	2033005	2033006	2033007	2033008	2033009

2030 - Equal hexagonal nipple

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	10	10	5	5	5	5
code	2030001	2030002	2030003	2030004	2030005	2030006	2030007	2030008	2030009

2035 - Hose nozzle male

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
hose	8	10	13	20	25	32	40	52
pack	10	10	10	10	5	5	5	5
code	2035002	2035003	2035004	2035005	2035006	2035007	2035008	2035009

2022 - Hexagonal plug

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	5	5	5	5
code	2022004	2022005	2022006	2022007	2022008	2022009

2023 - Plain hexagonal plug

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	10	10	5	5	5	5
code	2023001	2023002	2023003	2023004	2023005	2023006	2023007	2023008	2023009

2020 - Square head plain plug

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	10	10	10	5	5	5
code	2020001	2020002	2020003	2020004	2020005	2020006	2020007	2020008	2020009

2037 - Hexagonal cap

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	10	5	5	5	5
code	2037002	2037003	2037004	2037005	2037006	2037007	2037008	2037009

2036 - Hexagonal backnut

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	10	10	5	5	5	5
code	2036001	2036002	2036003	2036004	2036005	2036006	2036007	2036008	2036009

Cast 3 piece unions - 150 lbs BSP / BM

Individual packing

Excluded from 2014/68/EU Directive (art. 4, §3) - For all common fluids from Group 2 & liquids from Group 1 - Material: CF8M body - BSP thread acc. to ISO 7.1 - Conical bearing - PS: 20 bar - TS: -25°C/+180°C.

2029 - Equal union butt welding/butt welding

Ø	8	10	15	20	25	32	40	50
length (mm)	34,5	38,5	40	47,5	49,6	54,8	55	57,4
code	2029008	2029010	2029015	2029020	2029025	2029032	2029040	2029050

2027 - Equal union male/butt welding

Ø	1/4"-8	3/8"-10	1/2"-15	3/4"-20	1"-25	1"1/4-32	1"1/2-40	2"-50
length (mm)	46,4	47,7	53	60	66	72	73	77,6
code	2027208	2027310	2027415	2027520	2027625	2027732	2027840	2027950

2028 - Equal union female/butt welding

Ø	1/4"-8	3/8"-10	1/2"-15	3/4"-20	1"-25	1"1/4-32	1"1/2-40	2"-50
length (mm)	35	38	40	45,7	50	56	57	58,6
code	2028208	2028310	2028415	2028520	2028625	2028732	2028840	2028950

2062 - Equal union male/male

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	56	57,5	66,5	73,4	81	89,5	89,3	99
code	2062002	2062003	2062004	2062005	2062006	2062007	2062008	2062009

2026 - Equal union male/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	46	48	52,8	58,6	66,5	73,5	74,5	80,5
code	2026002	2026003	2026004	2026005	2026006	2026007	2026008	2026009

2025 - Equal union female/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	34,5	37,6	38,6	44	51	58	59	61,5
code	2025002	2025003	2025004	2025005	2025006	2025007	2025008	2025009

Stainless steel threaded fittings NPT

Individual packing

Excluded from 2014/68/EC Directive (art. 4, §3) - For all common fluids - Material: F316L or CF8M body - NPT thread acc. to B1.20.1 - PS: 20 bar - Products can be sourced from several suppliers.

EF - Half-socket

F316L body

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length	18	22	25	28	32	36	36	40	40
code	EF5B	EF8B	EF12B	EF15B	EF20B	EF25B	EF32B	EF40B	EF50B

M - Socket

F316L body

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
length	25	28	32	36	42	45	55	55	60	65	72
code	M5B	M8B	M12B	M15B	M20B	M25B	M32B	M40B	M50B	M65B	M80B

CFF - 90° Equal elbow female/female

CF8M body

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	CFF5B	CFF8B	CFF12B	CFF15B	CFF20B	CFF25B	CFF32B	CFF40B	CFF50B

CMF - 90° Equal street elbow male/female

CF8M body

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
code	CMF5B	CMF8B	CMF12B	CMF15B	CMF20B	CMF25B	CMF32B	CMF40B	CMF50B	CMF65B	CMF80B

TE - Equal tee female

CF8M body

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	TE5B	TE8B	TE12B	TE15B	TE20B	TE25B	TE32B	TE40B	TE50B

CX - Equal cross female

CF8M body

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	CX5B	CX8B	CX12B	CX15B	CX20B	CX25B	CX32B	CX40B	CX50B

RFF - Reducing socket female/female

F316L body

Ø	1/4"-1/8"	3/8"-1/4"	1/2"-3/8"	3/4"-1/2"	1"-3/4"	2"-1"1/2
code	RFF85B	RFF128B	RFF1512B	RFF2015B	RFF2520B	RFF5040B

RFF - Double reducing socket female/female

F316L body

Ø	12,9 mm	3/4"-3/8"	1"-1/2"	2"-1"1/4
code	RFF158B	RFF2012B	RFF2515B	RFF5032B

RMF - Reducing bush

F316L body

Ø	1/4"-1/8"	3/8"-1/4"	1/2"-3/8"	3/4"-1/2"	1"-3/4"	1"1/4-1"	1"1/2-1"1/4	2"-1"1/2
code	RMF85B	RMF128B	RMF1512B	RMF2015B	RMF2520B	RMF3225B	RMF4032B	RMF5040B

RMF - Double reducing bush

F316L body

Ø	3/8"-1/8"	1/2"-1/4"	3/4"-3/8"	1"1/4-3/4"	1"1/2-1"
code	RMF125B	RMF158B	RMF2012B	RMF3220B	RMF4025B

RMF - Triple reducing bush

F316L body

Ø	1/2"-1/8"	3/4"-1/4"	1"-1/4"	1"1/2-3/4"
code	RMF155B	RMF208B	RMF258B	RMF4020B

RMM - Reducing hexagonal nipple

F316L body

Ø	1/4"-1/8"	3/8"-1/4"	1/2"-3/8"	3/4"-1/2"	1"-3/4"	1"1/4-1"	2"-1"1/2
code	RMM85B	RMM128B	RMM1512B	RMM2015B	RMM2520B	RMM3225B	RMM5040B

RMM - Double reducing hexagonal nipple

F316L body

Ø	3/8"-1/8"	1/2"-1/8"	1/2"-1/4"	3/4"-3/8"	1"-1/2"
code	RMM125B	RMM155B	RMM158B	RMM2012B	RMM2515B

MH - Equal hexagonal nipple

CF8M body

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	MH5B	MH8B	MH12B	MH15B	MH20B	MH25B	MH32B	MH40B	MH50B

MHS - Weld end hexagonal nipple

F316L body

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	MHS5B	MHS8B	MHS12B	MHS15B	MHS20B	MHS25B	MHS32B	MHS40B	MHS50B

BHC - Square hole plug

F316L body

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"
code	BHC5B	BHC8B	BHC12B	BHC15B	BHC20B	BHC25B

BM - Hexagonal plug

F316L body

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	BM5B	BM8B	BM12B	BM15B	BM20B	BM25B	BM32B	BM40B	BM50B

BF - Hexagonal cap

F316L body

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	BF8B	BF12B	BF15B	BF20B	BF25B	BF32B	BF40B	BF50B

Forged stainless steel union fittings - 1000 psi

Forged 3 piece unions - Conical bearing NPT BSP / BW

Individual packing

Excluded from 2014/68/EC Directive (art. §4, 3) - For all common fluids - Material: F316L body - BSP thread acc. to ISO 7.1 - Conical bearing - PS: 60 bar - TS: -25°C/+180°C.

2069 - Equal union butt welding/butt welding

Ø	8	10	15	20	25	32	40	50
length (mm)	40	45	48	52	55	56	58	62
code	2069008	2069010	2069015	2069020	2069025	2069032	2069040	2069050

2067 - Equal union male/butt welding

Ø	1/4"-8	3/8"-10	1/2"-15	3/4"-20	1"-25	1"1/4-32	1"1/2-40	2"-50
length (mm)	40	47	52	59	64	65	65	73
code	2067208	2067310	2067415	2067520	2067625	2067732	2067840	2067950

2068 - Equal union female/butt welding

Ø	1/4"-8	3/8"-10	1/2"-15	3/4"-20	1"-25	1"1/4-32	1"1/2-40	2"-50
length (mm)	31	35	40	45	50	53	53	61
code	2068208	2068310	2068415	2068520	2068625	2068732	2068840	2068950

2064 - Equal union male/male

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	50	57	66	71	80	82	85	95
code	2064002	2064003	2064004	2064005	2064006	2064007	2064008	2064009

2066 - Equal union male/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	41	45	54	57	66	70	73	83
code	2066002	2066003	2066004	2066005	2066006	2066007	2066008	2066009

2065 - Equal union female/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	29	34	34	38	44	50	53	54
code	2065002	2065003	2065004	2065005	2065006	2065007	2065008	2065009

Forged 3 piece unions - Conical bearing NPT / BW

Individual packing

Excluded from 2014/68/EC Directive (art. 4, §3) - For all common fluids - Material: F316L body - NPT thread acc. to B1.20.1 - Conical bearing - PS: 64 bar up to 2", 40 bar above - TS: -25°C/+180°C - Products can be sourced from several suppliers.

3.1
see p. 22

LL - Equal union buttwelding/buttwelding

Ø	8	12	15	20	25	32	40	50	65	80	100
length (mm)	40	45	48	52	55	56	58	62	81	96	130
code	LL8	LL12	LL15	LL20	LL25	LL32	LL40	LL50	LL65	LL80	LL100

LM - Equal union male/buttwelding

Ø	1/4"-8	3/8"-12	1/2"-15	3/4"-20	1"-25	1"1/4-32	1"1/2-40	2"-50
length (mm)	40	47	52	59	64	65	65	73
code	LM8B	LM12B	LM15B	LM20B	LM25B	LM32B	LM40B	LM50B

LF - Equal union buttwelding/female

Ø	1/4"-8	3/8"-12	1/2"-15	3/4"-20	1"-25	1"1/4-32	1"1/2-40	2"-50
length (mm)	31	35	40	45	50	53	53	61
code	LF8B	LF12B	LF15B	LF20B	LF25B	LF32B	LF40B	LF50B

MM - Equal union male/male

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	46	53	60	71	80	81	82	92
code	MM8B	MM12B	MM15B	MM20B	MM25B	MM32B	MM40B	MM50B

MF - Equal union male/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	38	42	49	57	66	70	71	79
code	MF8B	MF12B	MF15B	MF20B	MF25B	MF32B	MF40B	MF50B

FF - Equal union female/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	29	34	34	38	44	50	53	54
code	FF8B	FF12B	FF15B	FF20B	FF25B	FF32B	FF40B	FF50B

LLR - Reducing union buttwelding>buttwelding

Ø	8-5	12-8	15-12	20-15	25-20	32-25	40-32	50-40
length (mm)	40	45	48	52	55	56	58	62
code	LLR85	LLR128	LLR1512	LLR2015	LLR2520	LLR3225	LLR4032	LLR5040

LFR - Reducing union buttwelding>female

Ø	8-1/8"	12-1/4"	15-3/8"	20-1/2"	25-3/4"	32-1"	40-1"1/4	50-1"1/2
length (mm)	32	36	40	46	46	53	53	56
code	LFR85B	LFR128B	LFR1512B	LFR2015B	LFR2520B	LFR3225B	LFR4032B	LFR5040B

FLR - Reducing union female>buttwelding

Ø	1/4"-5	3/8"-8	1/2"-12	3/4"-15	1"-20	1"1/4-25	1"1/2-32	2"-40
length (mm)	32	36	40	46	46	50	53	56
code	FLR85B	FLR128B	FLR1512B	FLR2015B	FLR2520B	FLR3225B	FLR4032B	FLR5040B

FFR - Reducing union female>female

Ø	3/8"-1/4"	1/2"-3/8"	3/4"-1/2"	1"-3/4"	1"1/4-1"	1"1/2-1"1/4	2"-1"1/2
length (mm)	30	34	37	47	50	53	56
code	FFR128B	FFR1512B	FFR2015B	FFR2520B	FFR3225B	FFR4032B	FFR5040B

Forged 3 piece unions - Flat bearing BSP / BW

Individual packing

Excluded from 2014/68/EU Directive (art. 4.3) - For all common fluids - Material: F316L body - Flat bearing with PTFE gasket as standard - PS: 40 bar - TS: -20°C/+180°C - Products can be sourced from several suppliers.

LLP - Equal union butt welding/butt welding

Ø	8	12	15	20	25	32	40	50	65
length (mm)	40	45	48	52	55	56	58	62	81
code	LLP8	LLP12	LLP15	LLP20	LLP25	LLP32	LLP40	LLP50	LLP65

LMP - Equal union butt welding/male

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
length (mm)	40	47	52	59	64	65	65	73	91
code	LMP8G	LMP12G	LMP15G	LMP20G	LMP25G	LMP32G	LMP40G	LMP50G	LMP65G

LFP - Equal union butt welding/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	31	35	40	45	50	53	53	61
code	LFP8G	LFP12G	LFP15G	LFP20G	LFP25G	LFP32G	LFP40G	LFP50G

MMP - Equal union male/male

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
length (mm)	46	53	60	71	80	81	82	92	108
code	MMP8G	MMP12G	MMP15G	MMP20G	MMP25G	MMP32G	MMP40G	MMP50G	MMP65G

MFP - Equal union male/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
length (mm)	38	42	49	57	66	70	71	79	88
code	MFP8G	MFP12G	MFP15G	MFP20G	MFP25G	MFP32G	MFP40G	MFP50G	MFP65G

FFP - Equal union female/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	29	34	34	38	44	50	53	54
code	FFP8G	FFP12G	FFP15G	FFP20G	FFP25G	FFP32G	FFP40G	FFP50G

LCP - Equal union butt welding/hose end

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	46	52	59	67	75	79	77	88
code	LCP8	LCP12	LCP15	LCP20	LCP25	LCP32	LCP40	LCP50

MCP - Equal union male/hose end

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	46	53	63	74	84	88	84	100
code	MCP8G	MCP12G	MCP15G	MCP20G	MCP25G	MCP32G	MCP40G	MCP50G

FCP - Equal union female/hose end

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	37	41	51	60	70	76	72	87
code	FCP8G	FCP12G	FCP15G	FCP20G	FCP25G	FCP32G	FCP40G	FCP50G

JTRU - Flat gasket

Ø	8	12	15	20	25	32	40	50	65
thickness (mm)	1,5	1,5	2	2	2	2	3	3	2
PTFE code	JTRU8	JTRU12	JTRU15	JTRU20	JTRU25	JTRU32	JTRU40	JTRU50	JTRU65
FKM code	JVRU8	JVRU12	JVRU15	JVRU20	JVRU25	JVRU32	JVRU40	JVRU50	JVRU65

Ring fittings

Single cutting ring fittings

Individual packing

Acc. to ISO 8434-1 / DIN 2353 - Stainless steel 316TI - For fluid power use - 24° cone connectors - PS: see tables - Products can be sourced from several suppliers.

UMS - Male straight union

Ø	6	6	6	6	8	8	8	8	10	10	10	12	12
G	1/8"	1/4"	3/8"	1/2"	1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	3/8"	1/2"
PS (bar)	315	315	315	315	315	315	315	315	315	315	315	315	315
code	UMS65	UMS68	UMS612	UMS615	UMS85	UMS88	UMS812	UMS815	UMS108	UMS1012	UMS1015	UMS1212	UMS1215

Ø	14	14	14	16	16	16	18	20	20	25	25
G	3/8"	1/2"	3/4"	3/8"	1/2"	3/4"	1/2"	1/2"	3/4"	3/4"	1"
PS (bar)	630	630	630	630	630	630	315	630	630	630	630
code	UMS1412	UMS1415	UMS1420	UMS1612	UMS1615	UMS1620	UMS1815	UMS2015	UMS2020	UMS2520	UMS2525

UDS - Double straight union

Ø	6	8	10	12	14	16	18
PS (bar)	315	315	315	315	630	630	315
code	UDS6	UDS8	UDS10	UDS12	UDS14	UDS16	UDS18

EQMS - Male elbow union BSP

Ø	6	8	10	12	14
G	1/8"	1/4"	1/4"	3/8"	1/2"
PS (bar)	315	315	315	315	630
code	EQMS65	EQMS88	EQMS108	EQMS1212	EQMS1415

EQS - Equal elbow union

Ø	6	8	10	12	14	16	18	20	25
PS (bar)	315	315	315	315	630	630	315	630	630
code	EQS6	EQS8	EQS10	EQS12	EQS14	EQS16	EQS18	EQS20	EQS25

TES - Equal tee union

Ø	6	8	10	12	14	16	18
PS (bar)	315	315	315	315	630	630	315
code	TES6	TES8	TES10	TES12	TES14	TES16	TES18

BS - Spare cutting ring

Ø	6	8	10	12	14
PS (bar)	315	315	315	315	630
code	BS6	BS8	BS10	BS12	BS14

ES - Spare nut

Ø	6	8	10	12	14
PS (bar)	315	315	315	315	630
code	ES6	ES8	ES10	ES12	ES14

Double cutting ring fittings

Individual packing

Stainless steel 316L - Products can be sourced from several suppliers.

RBB - Ball valve

DN	6	8	10	12	16
code	RBB6	RBB8	RBB10	RBB12	RBB16

UM - Male straight union BSP

Ø	6	6	6	6	8	8	8	8	10	10	10
G	1/8"	1/4"	3/8"	1/2"	1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"
code	UM65	UM68	UM612	UM615	UM85	UM88	UM812	UM815	UM108	UM1012	UM1015

Ø	12	12	12	13,7	13,7	14	16	21,3	21,3	21,3	26,9
G	1/4"	3/8"	1/2"	1/4"	1/2"	3/8"	1/2"	1/2"	3/4"	1"	3/4"
code	UM128	UM1212	UM1215	UM138	UM1315	UM1412	UM1615	UM2115	UM2120	UM2125	UM2620

UM - Male straight union NPT

Ø	6	6	6	6	8	8	8	8	10	10	10
G	1/8"	1/4"	3/8"	1/2"	1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"
code	UM65B	UM68B	UM612B	UM615B	UM85B	UM88B	UM812B	UM815B	UM108B	UM1012B	UM1015B

Ø	12	12	12	13,7	13,7
G	1/4"	3/8"	1/2"	1/4"	1/2"
code	UM128B	UM1212B	UM1215B	UM138B	UM1315B

UD - Double straight union

Ø	6	8	10	12	13,7	14	16	17,2	21,3	26,9	33,7
code	UD6	UD8	UD10	UD12	UD13	UD14	UD16	UD17	UD21	UD26	UD33

UF - Female straight union

Ø	6	6	6	6	8	8	8	8	10	10	10	12	12	12
G	1/8"	1/4"	3/8"	1/2"	1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"
code	UF65	UF68	UF612	UF615	UF85	UF88	UF812	UF815	UF108	UF1012	UF1015	UF128	UF1212	UF1215

TC - Bulkhead straight union

Ø	6	8	10	12
code	TC6	TC8	TC10	TC12

EQD - Equal elbow

Ø	6	8	10	12	14
code	EQD6	EQD8	EQD10	EQD12	EQD14

TED - Equal tee

Ø	6	8	10	12	14
code	TED6	TED8	TED10	TED12	TED14

EQM - Male elbow

Ø	6	6	6	6	8	8	8	8	10	10	10	12	12	12
G	1/8"	1/4"	3/8"	1/2"	1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"
code	EQM65	EQM68	EQM612	EQM615	EQM85	EQM88	EQM812	EQM815	EQM108	EQM1012	EQM1015	EQM128	EQM1212	EQM1215

BAR - Spare rear cutting ring

Ø	6	8	10	12
code	BAR6	BAR8	BAR10	BAR12

BAV - Spare front cutting ring

Ø	6	8	10	12
code	BAV6	BAV8	BAV10	BAV12

INS - Insert for hoses

Ø	6	8	10	12
code	INS6	INS8	INS10	INS12

Forged stainless steel fittings - 3000 lbs

Individual packing

Main use: oil & gas, chemical, petrochemical industries - Manufactured acc. to ANSI B16.11 - NPT thread acc. to ANSI B1.20.1 - 3000 lbs fitting standard corresponds to schedule 80 pipe standard - Materials: 304L & 316L - PS: 150 bar - Products can be sourced from several suppliers.

3.1 see p. 22

Pipe nipples NPT

4EM - Half nipple schedule 80 SW

NPS	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	36	36	36	36	36	48	48	48
316L code	4EM8	4EM12	4EM15	4EM20	4EM25	4EM32	4EM40	4EM50

4MCL - Barrel nipple length 75 mm

NPS	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
316L code	4MCL758	4MCL7512	4MCL7515	4MCL7520	4MCL7525	4MCL7532	4MCL7540	4MCL7550

4MC - Barrel nipple length 100 mm

NPS	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
316L code	4MC8	4MC12	4MC15	4MC20	4MC25	4MC32	4MC40	4MC50

Threaded fittings NPT

2DM/4DM - Half socket

NPS	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	17,5	19	24	25,5	30	33,5	39,5	43
304L code	2DM8	2DM12	2DM15	2DM20	2DM25	2DM32	2DM40	-
316L code	4DM8	4DM12	4DM15	4DM20	4DM25	4DM32	4DM40	4DM50

2MA/4MA - Equal socket

NPS	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2
length (mm)	35	38	48	51	60	67	79
304L code	2MA8	2MA12	2MA15	2MA20	2MA25	2MA32	-
316L code	-	4MA12	4MA15	4MA20	4MA25	4MA32	4MA40

2CFF/4CFF - 90° equal elbow female/female

NPS	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
304L code	2CFF8	2CFF12	2CFF15	2CFF20	2CFF25	2CFF32	2CFF40	2CFF50
316L code	4CFF8	4CFF12	4CFF15	4CFF20	4CFF25	4CFF32	4CFF40	4CFF50

2CFF45/4CFF45 - 45° equal elbow female/female

NPS	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
304L code	2CFF458	2CFF4512	2CFF4515	2CFF4520	2CFF4525	2CFF4532	-	-
316L code	4CFF458	4CFF4512	4CFF4515	4CFF4520	4CFF4525	4CFF4532	4CFF4540	4CFF4550

2CMF/4CMF - 90° equal street elbow male/female

NPS	1/4"	3/8"	1/2"	3/4"	1"	1"1/4
316L code	4CMF8	4CMF12	4CMF15	4CMF20	4CMF25	4CMF32

2T/4T - Equal tee female

NPS	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
304L code	2T8	2T12	2T15	2T20	2T25	2T32	2T40	2T50
316L code	4T8	4T12	4T15	4T20	4T25	4T32	4T40	4T50

2RFF/4RFF - Reducing socket female/female

NPS	1/4"-1/8"	3/8"-1/4"	1/2"-1/4"	1/2"-3/8"	3/4"-1/4"	3/4"-3/8"	3/4"-1/2"	1"-1/2"
length (mm)	-	38	48	48	51	51	51	60
304L code	2RFF85	2RFF128	2RFF158	2RFF1512	-	2RFF2012	2RFF2015	2RFF2515
316L code	4RFF85	4RFF128	4RFF158	4RFF1512	4RFF208	4RFF2012	4RFF2015	4RFF2515

NPS	1"-3/4"	1"1/4-1"	1"1/2-1"	1"1/2-1"1/4	2"-1"1/2
length (mm)	60	67	79	79	86
304L code	2RFF2520	2RFF3225	-	-	-
316L code	4RFF2520	4RFF3225	4RFF4025	4RFF4032	4RFF5040

2RMF/4RMF - Hexagonal reducing bush

NPS	1/4"-1/8"	3/8"-1/4"	1/2"-1/4"	1/2"-3/8"	3/4"-1/4"	3/4"-3/8"	3/4"-1/2"	1"-3/8"
length (mm)	-	17	20	20	22	22	22	25
304L code	2RMF85	2RMF128	2RMF158	2RMF1512	2RMF208	2RMF2012	2RMF2015	2RMF2512
316L code	4RMF85	4RMF128	4RMF158	4RMF1512	4RMF208	4RMF2012	4RMF2015	4RMF2512

NPS	1"-1/2"	1"-3/4"	1"1/4-1"	1"1/2-1"	1"1/2-1"1/4	2"-1"1/4
length (mm)	25	25	28	29	29	31
304L code	2RMF2515	2RMF2520	2RMF3225	2RMF4025	2RMF4032	2RMF5032
316L code	4RMF2515	4RMF2520	4RMF3225	4RMF4025	4RMF4032	4RMF5032

2RMM/4RMM - Reducing hexagonal nipple

NPS	1/4"-1/8"	3/8"-1/4"	1/2"-1/4"	1/2"-3/8"	3/4"-3/8"	3/4"-1/2"	1"-1/2"	1"-3/4"
length (mm)	31	39	43	44	46	50	55	56
304L code	2RMM85	2RMM128	2RMM158	2RMM1512	2RMM2012	2RMM2015	2RMM2515	2RMM2520
316L code	4RMM85	4RMM128	4RMM158	4RMM1512	4RMM2012	4RMM2015	4RMM2515	4RMM2520

NPS	1"1/4-1"	1"1/2-1"	1"1/2-1"1/4	2"-1"1/2
length (mm)	60	67	62	70
304L code	2RMM3225	2RMM4025	2RMM4032	2RMM5040
316L code	4RMM3225	4RMM4025	4RMM4032	4RMM5040

2BO/4BO - NPT welding couplet

NPS	1/4"-8	3/8"-12	1/2"-15	3/4"-20	1"-25	1"1/4-32	1"1/2-40	2"-50
length (mm)	30,5	30,5	33,5	35	43	48	51	57,5
304L code	2BO8	2BO12	2BO15	2BO20	2BO25	2BO32	2BO40	2BO50
316L code	4BO8	4BO12	4BO15	4BO20	4BO25	4BO32	4BO40	4BO50

2MH/4MH - Equal hexagonal nipple

NPS	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	36	40	48	52	60	64	68	71
304L code	2MH8	2MH12	2MH15	2MH20	2MH25	2MH32	2MH40	2MH50
316L code	4MH8	4MH12	4MH15	4MH20	4MH25	4MH32	4MH40	-

2BM/4BM - Hexagonal plug

NPS	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	17	21	23	26	29	35	37	39
304L code	2BM8	2BM12	2BM15	2BM20	2BM25	2BM32	2BM40	-
316L code	4BM8	4BM12	4BM15	4BM20	4BM25	4BM32	4BM40	4BM50

2BF/4BF - Cap

NPS	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	25	25	32	37	41	44	44	48
304L code	2BF8	2BF12	2BF15	2BF20	2BF25	2BF32	2BF40	2BF50
316L code	4BF8	4BF12	4BF15	4BF20	4BF25	4BF32	4BF40	-

2MF/4MF - Equal union male/female

NPS	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	63	69	77	80	97	101	110	120
304L code	2MF8	2MF12	2MF15	2MF20	2MF25	2MF32	2MF40	2MF50
316L code	4MF8	4MF12	4MF15	4MF20	4MF25	4MF32	4MF40	4MF50

2FF/4FF - Equal union female/female

NPS	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	42,5	47,5	52	57	63	70	78	89
304L code	2FF8	2FF12	2FF15	2FF20	2FF25	2FF32	2FF40	2FF50
316L code	4FF8	4FF12	4FF15	4FF20	4FF25	4FF32	4FF40	4FF50

Welding fittings (SW)

2DMW/4DMW - Half socket

Ø	8	12	15	20	25	32	40	50
length (mm)	27	28	33	36	42	43	45	56
304L code	2DMW8	2DMW12	2DMW15	2DMW20	2DMW25	2DMW32	2DMW40	2DMW50
316L code	4DMW8	4DMW12	4DMW15	4DMW20	4DMW25	4DMW32	4DMW40	4DMW50

2MAW/4MAW - Equal socket

Ø	8	12	15	20	25	32	40	50
length (mm)	26	26	29	34	37	38	38	51
304L code	2MAW8	2MAW12	2MAW15	2MAW20	2MAW25	2MAW32	2MAW40	2MAW50
316L code	4MAW8	4MAW12	4MAW15	4MAW20	4MAW25	4MAW32	4MAW40	4MAW50

2CFFW/4CFFW - 90° equal elbow

Ø	8	12	15	20	25	32	40	50
304L code	2CFFW8	2CFFW12	2CFFW15	2CFFW20	2CFFW25	2CFFW32	2CFFW40	-
316L code	4CFFW8	4CFFW12	4CFFW15	4CFFW20	4CFFW25	4CFFW32	4CFFW40	4CFFW50

2CFFW45/4CFFW45 - 45° equal elbow

Ø	8	12	15	20	25	32	40	50
304L code	2CFFW458	2CFFW4512	2CFFW4515	2CFFW4520	2CFFW4525	2CFFW4532	2CFFW4540	2CFFW4550
316L code	4CFFW458	4CFFW4512	4CFFW4515	4CFFW4520	4CFFW4525	4CFFW4532	4CFFW4540	-

2TW/4TW - Equal tee

Ø	8	12	15	20	25	32	40	50
304L code	2TW8	2TW12	2TW15	2TW20	2TW25	2TW32	2TW40	2TW50
316L code	4TW8	4TW12	4TW15	4TW20	4TW25	4TW32	4TW40	4TW50

2RFFW/4RFFW - Reducing socket

Ø	12-8	15-8	15-12	20-8	20-12	20-15	25-15	25-20
length (mm)	25	29	29	35	35	35	38	38
304L code	2RFFW128	2RFFW158	2RFFW1512	2RFFW208	2RFFW2012	2RFFW2015	2RFFW2515	2RFFW2520
316L code	4RFFW128	4RFFW158	4RFFW1512	4RFFW208	4RFFW2012	4RFFW2015	4RFFW2515	4RFFW2520

Ø	32-20	32-25	40-25	40-32
length (mm)	38	38	38	38
304L code	2RFFW3220	2RFFW3225	2RFFW4025	-
316L code	4RFFW3220	4RFFW3225	4RFFW4025	4RFFW4032

Stainless steel fittings

FGinox

2BOW/4BOW - Couplet

Ø	8	12	15	20	25	32	40	50
length (mm)	30,5	30,5	33,5	35	43	48	51	57,5
304L code	2BOW8	2BOW12	2BOW15	2BOW20	2BOW25	2BOW32	2BOW40	2BOW50
316L code	4BOW8	4BOW12	4BOW15	4BOW20	4BOW25	4BOW32	4BOW40	4BOW50

2BFW/4BFW - Cap

Ø	8	12	15	20	25	32	40	50
length (mm)	15	17	19	23	26	28	30	36
304L code	2BFW8	2BFW12	2BFW15	2BFW20	2BFW25	2BFW32	2BFW40	2BFW50
316L code	4BFW8	4BFW12	4BFW15	4BFW20	4BFW25	4BFW32	4BFW40	4BFW50

2FFW/4FFW - Equal union

Ø	8	12	15	20	25	32	40	50
length (mm)	42,5	47,5	52	57	63	70	78	89
304L code	2FFW8	2FFW12	2FFW15	2FFW20	2FFW25	2FFW32	2FFW40	2FFW50
316L code	4FFW8	4FFW12	4FFW15	4FFW20	4FFW25	4FFW32	4FFW40	4FFW50

Carbon steel pipe fittings

Mandatory packing applies

Manufacturing from seamless pipe acc. to EN 10253-1 or EN 10253-2 - Individual marking - Chamfer for Ø 88.9 and above (Ø 168.3 and above for caps) - General use - Material: carbon steel S235 - Coating: hot-dipped galvanised or electro-galvanised - Galvanised coating for drinking water compatibility - Welding connection - TS: -20°C / +300°C.

C3DN/C3DG - 3D 90° equal elbow (EN 10253-1)

Ø	21.3	26.9	33.7	42.4	48.3	60.3	70	76.1	88.9	101.6	108
thickness (mm)	2.0	2.3	2.6	2.6	2.6	2.9	2.9	2.9	3.2	3.6	3.6
pack	20	20	10	10	10	5	1	1	1	1	1
black code	C3DN21	C3DN26	C3DN33	C3DN42	C3DN48	C3DN60	C3DN70	C3DN76	C3DN88	C3DN101	C3DN108
pack	20	20	10	10	10	5	1	1	1		
galv. code	C3DG21	C3DG26	C3DG33	C3DG42	C3DG48	C3DG60	C3DG70	C3DG76	C3DG88	-	-

Ø	114.3	133	139.7	159	168.3	193.7	219.1	273	323.9	355.6	406.4
thickness (mm)	3.6	4.0	4.0	4.5	4.5	5.6	6.3	6.3	7.1	8.0	8.8
pack	1	1	1	1	1	1	1	1	1	1	1
black code	C3DN114	C3DN133	C3DN139	C3DN159	C3DN168	C3DN193	C3DN219	C3DN273	C3DN323	C3DN355	C3DN406
pack	1	1	1	1	1		1				
galv. code	C3DG114	C3DG133	C3DG139	C3DG159	C3DG168	-	C3DG219	-	-	-	-

C3DN-90° - 3D 90° equal elbow (EN 10253-2)

Ø	21.3	26.9	33.7	42.4	48.3	60.3	70	76.1	88.9	101.6	108
thickness (mm)	2.6	2.6	3.2	3.6	3.6	3.6	2.9	3.6	4	3.6	4
pack	20	20	10	10	10	5	1	1	1	1	1
black code	C3DN21EN2	C3DN26EN2	C3DN33EN2	C3DN42EN2	C3DN48EN2	C3DN60EN2	C3DN70EN2	C3DN76EN2	C3DN88EN2	C3DN101EN2	C3DN108EN2

Ø	114.3	133	139.7	159	168.3
thickness (mm)	4.5	4	4	4.5	4.5
pack	1	1	1	1	1
black code	C3DN114EN2	C3DN133EN2	C3DN139EN2	C3DN159EN2	C3DN168EN2

C3DNR - 3D 180° return bend (EN 10253-1)

Ø	26.9	33.7	42.4	48.3	60.3	76.1	88.9	114.3	139.7	168.3
thickness (mm)	2.3	2.6	2.6	2.6	2.9	2.9	3.2	3.6	4.0	4.5
pack	10	10	10	10	1	1	1	1	1	1
black code	C3DNR26	C3DNR33	C3DNR42	C3DNR48	C3DNR60	C3DNR76	C3DNR88	C3DNR114	C3DNR139	C3DNR168

C5DN - 5D 90° elbow (EN 10253-1)

Ø	21.3	26.9	33.7	42.4	48.3	60.3	76.1	88.9	101.6
thickness (mm)	2.0	2.3	2.6	2.6	2.6	2.9	2.9	3.2	2.9
pack	20	10	10	10	10	5	1	1	1
black code	C5DN21	C5DN26	C5DN33	C5DN42	C5DN48	C5DN60	C5DN76	C5DN88	C5DN101

Ø	108	114.3	133	139.7	159*	168.3	219.1*	273*
thickness (mm)	3.6	3.6	4	4.0	4.5	4.5	6.3	6.3
pack	1	1	1	1	1	1	1	1
black code	C5DN108	C5DN114	C5DN133	C5DN139	C5DN159	C5DN168	C5DN219	C5DN273

*not included in EN 10253-1.

RSN / RSG - Concentric reducer (EN 10253-1)

Ø	26.9-21.3*	33.7-21.3*	33.7-26.9	42.4-21.3*	42.4-26.9	42.4-33.7	48.3-26.9	48.3-33.7	48.3-42.4
height (mm)	38	51	35	51	51	39	67	55	38
pack	10	10	10	1	5	5	5	5	1
black code	RSN2621	RSN3321	RSN3326	RSN4221	RSN4226	RSN4233	RSN4826	RSN4833	RSN4842
galv. code	-	-	-	-	-	-	-	RSG4833	RSG4842

Ø	60.3-33.7	60.3-42.4	60.3-48.3	76.1-42.4	76.1-48.3	76.1-60.3	88.9-48.3	88.9-60.3	88.9-76.1
height (mm)	77	61	50	95	84	63	108	86	56
pack	1	1	1	1	1	1	1	1	1
black code	RSN6033	RSN6042	RSN6048	RSN7642	RSN7648	RSN7660	RSN8848	RSN8860	RSN8876
galv. code	-	RSG6042	RSG6048	-	RSG7648	RSG7660	-	RSG8860	RSG8876

Ø	114.3-60.3	114.3-76.1	114.3-88.9	139.7-76.1	139.7-88.9	139.7-114.3	168.3-88.9	168.3-114.3	168.3-139.7
height (mm)	143	114	90	159	135	88	189	141	94
pack	1	1	1	1	1	1	1	1	1
black code	RSN11460	RSN11476	RSN11488	RSN13976	RSN13988	RSN139114	RSN16888	RSN168114	RSN168139
galv. code	RSG11460	RSG11476	RSG11488	RSG13976	RSG13988	RSG139114	RSG16888	RSG168114	RSG168139

Ø	219.1-114.3	219.1-139.7	219.1-168.3	273.0-139.7	273.0-168.3	273.0-219.1	323.9-219.1
height (mm)	210	170	130	250	220	130	215
pack	1	1	1	1	1	1	1
black code	RSN219114	RSN219139	RSN219168	RSN273139	RSN273168	RSN273219	RSN323219
galv. code	RSG219114	RSG219139	RSG219168	-	-	-	-

*supplied in EN 10253-1 Design 2

RSN - Concentric reducer (EN 10253-2)

Ø	26,9-21,3	33,7-26,9	42,4-33,7	48,3-42,4	60,3-48,3	76,1-60,3	88,9-76,1	114,3-88,9
pack	1	1	1	1	1	1	1	1
black code	RSN2621EN2	RSN3326EN2	RSN4233EN2	RSN4842EN2	RSN6048EN2	RSN7660EN2	RSN8876EN2	RSN11488EN2

RSNE - Eccentric reducer (EN 10253-2)

Ø	33.7-21.3	33.7-26.9	42.4-26.9	42.4-33.7	48.3-26.9	48.3-33.7	48.3-42.4	60.3-33.7	60.3-42.4
height (mm)	51	35	51	39	67	55	38	77	61
pack	1	1	1	1	1	1	1	1	1
black code	RSNE3321	RSNE3326	RSNE4226	RSNE4233	RSNE4826	RSNE4833	RSNE4842	RSNE6033	RSNE6042

Ø	60.3-48.3	76.1-48.3	76.1-60.3	88.9-48.3	88.9-60.3	88.9-76.1	114.3-60.3	114.3-76.1	114.3-88.9
height (mm)	50	84	63	108	86	56	143	114	90
pack	1	1	1	1	1	1	1	1	1
black code	RSNE6048	RSNE7648	RSNE7660	RSNE8848	RSNE8860	RSNE8876	RSNE11460	RSNE11476	RSNE11488

Ø	139.7-76.1	139.7-88.9	139.7-114.3	168.3-88.9	168.3-114.3	168.3-139.7	219.0-114.3	219.1-139.7	219.0-168.3
height (mm)	159	135	88	189	141	94	210	170	130
pack	1	1	1	1	1	1	1	1	1
black code	RSNE13976	RSNE13988	RSNE139114	RSNE16888	RSNE168114	RSNE168139	RSNE219114	RSNE219139	RSNE219168

Ø	273.0-168.3	273.0-219.1
height (mm)	220	130
pack	1	1
black code	RSNE273168	RSNE273219

TASN - Equal tee (EN 10253-1)

Ø	21.3*	26.9	33.7	42.4	48.3	60.3	76.1	88.9	114.3
thickness (mm)	2.0	2.3	2.6	2.6	2.6	2.9	2.9	3.2	3.6
pack	5	5	1	1	1	1	1	1	1
black code	TASN21	TASN26	TASN33	TASN42	TASN48	TASN60	TASN76	TASN88	TASN114

Ø	133.0*	139.7	168.3	219.1	273.0	323.9
thickness (mm)	4.0	4.0	4.5	6.3	6.3	7.1
pack	1	1	1	1	1	1
black code	TASN133	TASN139	TASN168	TASN219	TASN273	TASN323

*Not included in EN 10253-1.

TASN - Equal tee (EN 10253-2)

Ø	21,3	26,9	33,7	42,4	48,3	60,3	76,1	88,9	114,3
thickness (mm)	2,6	2,6	3,2	3,6	3,6	3,6	3,6	4	4,5
pack	1	1	1	1	1	1	1	1	1
black code	TASN21EN2	TASN26EN2	TASN33EN2	TASN42EN2	TASN48EN2	TASN60EN2	TASN76EN2	TASN88EN2	TASN114EN2

FBN/FBG - Cap

Ø	21.3	26.9	33.7	42.4	48.3	60.3	70	76.1	88.9
height (mm)	2.0	2.3	2.6	2.6	2.6	2.9	2.9	2.9	3.2
pack	20	20	20	20	20	20	20	20	1
black code	FBN21	FBN26	FBN33	FBN42	FBN48	FBN60	FBN70	FBN76	FBN88
galv. code	-	FBG26	FBG33	FBG42	FBG48	FBG60	FBG70	FBG76	FBG88

Ø	101.6	108	114.3	133	139.7	159	168.3	193.7	219.1
height (mm)	3.6	3.6	3.6	4.0	4.5	4.5	4.5	5.6	6.3
pack	1	1	1	1	1	1	1	1	1
black code	FBN101	FBN108	FBN114	FBN133	FBN139	FBN159	FBN168	FBN193	FBN219
galv. code	FBG101	FBG108	FBG114	FBG133	FBG139	FBG159	FBG168	FBG193	FBG219

Ø	244.5	273	323.9	355.6	406.4	508
height (mm)	6.3	6.3	7.1	8.0	8.8	8.8
pack	1	1	1	1	1	1
black code	FBN244	FBN273	FBN323	FBN355	FBN406	FBN508

Individual packing

Materials: 304L & 316L - Products can be sourced from several suppliers.

3.1
see p. 22

Metric standard

21DR/41DR - Welded bend 1,5D

Ø	18	20	23	25	28	30	33	38	43	53
thickness (mm)	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5
304L code	21DR181	21DR201	21DR231	21DR251	21DR281	21DR301	21DR331	21DR381	21DR431	21DR531
316L code	41DR181	41DR201	41DR231	41DR251	41DR281	41DR301	41DR331	41DR381	41DR431	41DR531

Ø	54	63,5	70	73	84	104	129	154	204	254
thickness (mm)	2	1,5	2	1,5	2	2	2	2	2	2
304L code	21DR542	21DR631	21DR702	21DR731	21DR842	21DR1042	21DR1292	21DR1542	21DR2042	21DR2542
316L code	41DR542	41DR631	41DR702	41DR731	-	41DR1042	41DR1292	41DR1542	41DR2042	41DR2542

2TSS/4TSS - Welded tee without sleeve

Ø	23	28	33	38	43	54	84	104	129	154	204
thickness (mm)	1,5	1,5	1,5	1,5	1,5	2	2	2	2	2	2
304L code	2TSS231	2TSS281	2TSS331	2TSS381	2TSS431	2TSS542	2TSS842	2TSS1042	2TSS1292	2TSS1542	2TSS2042
316L code	-	4TSS281	4TSS331	4TSS381	4TSS431	4TSS542	4TSS842	4TSS1042	4TSS1292	4TSS1542	-

2R/4R - Welded concentric reducer

Ø	44-24	44-34	54-24	54-34	54-44	64-44	64-54	69-44	69-54	74-44
thickness (mm)	2	2	2	2	2	2	2	2	2	2
304L code	2R4424	2R4434	2R5424	2R5434	2R5444	2R6444	2R6454	2R6944	2R6954	2R7444
316L code	4R4424	4R4434	4R5424	4R5434	4R5444	4R6444	4R6454	4R6944	4R6954	4R7444

Ø	74-54	74-64	84-44	84-54	84-64	84-69	84-74	104-54	104-69	104-74
thickness (mm)	2	2	2	2	2	2	2	2	2	2
304L code	2R7454	2R7464	2R8444	2R8454	2R8464	2R8469	2R8474	2R10454	2R10469	2R10474
316L code	4R7454	4R7464	4R8444	4R8454	4R8464	4R8469	4R8474	4R10454	4R10469	4R10474

Ø	104-84	129-84	129-104	154-84	154-104	154-129	204-104	204-129	204-154	254-154
thickness (mm)	2	2	2	2	2	2	2	2	2	2
304L code	2R10484	2R12984	2R129104	2R15484	2R154104	2R154129	2R204104	2R204129	2R204154	2R254154
316L code	4R10484	4R12984	4R129104	4R15484	4R154104	4R154129	4R204104	4R204129	4R204154	4R254154

2FB/4FB - Cap

Ø	28	34	38	44	51	54	64	69	74
304L code	2FB28	2FB34	2FB38	2FB44	2FB51	2FB54	2FB64	2FB69	2FB74
316L code	4FB28	4FB34	4FB38	4FB44	4FB51	4FB54	4FB64	4FB69	4FB74

Ø	84	104	129	154	204	254	304	354
304L code	2FB84	2FB104	2FB129	2FB154	2FB204	2FB254	2FB304	2FB354
316L code	4FB84	4FB104	4FB129	4FB154	4FB204	4FB254	4FB304	4FB354

2CMM/4CMM - Pressed collar A-type

Ø	18	24	28	38	44	54	64	69	74	84
thickness (mm)	2	2	2	2	2	2	2	2	2	2
304L code	-	2CMM24	2CMM28	2CMM38	2CMM44	2CMM54	2CMM64	2CMM69	2CMM74	2CMM84
316L code	4CMM18	4CMM24	4CMM28	4CMM38	4CMM44	4CMM54	4CMM64	4CMM69	4CMM74	4CMM84

Ø	104	129	154	204	254	304	354
thickness (mm)	2	2	2	2	2	2	2
304L code	2CMM104	2CMM129	2CMM154	2CMM204	2CMM254	2CMM304	-
316L code	4CMM104	4CMM129	4CMM154	4CMM204	4CMM254	4CMM304	4CMM354

ISO standard

23DR/43DR - Welded bend 3D

Ø	13,5	13,5	17,2	17,2	21,3	21,3	21,3	21,3	21,3	21,3
thickness (mm)	1,6	2,3	1,6	2,3	1,6	2	2,6	1,6	2	2,6
304L code	23DR131	23DR13G	23DR171	23DR17G	23DR211	23DR212	23DR21G	23DR21138	23DR21238	23DR21G38
316L code	43DR131	43DR13G	43DR171	43DR17G	43DR211	43DR212	43DR21G	43DR21138	43DR21238	43DR21G38

Ø	26,9	26,9	26,9	33,7	33,7	33,7	42,4	42,4	42,4	48,3
thickness (mm)	1,6	2	2,6	1,6	2	3,2	1,6	2	3,2	1,6
304L code	23DR261	23DR262	23DR26G	23DR331	23DR332	23DR33G	23DR421	23DR422	23DR42G	23DR481
316L code	43DR261	43DR262	43DR26G	43DR331	43DR332	43DR33G	43DR421	43DR422	43DR42G	43DR481

Ø	48,3	48,3	60,3	60,3	60,3	60,3	76,1	76,1	76,1	88,9
thickness (mm)	2	3,2	1,6	2	3	3,6	2	3	3,6	2
304L code	23DR482	23DR48G	23DR601	23DR602	23DR603	23DR60G	23DR762	23DR763	23DR76G	23DR882
316L code	43DR482	43DR48G	43DR601	43DR602	43DR603	43DR60G	43DR762	43DR763	43DR76G	43DR882

Ø	88,9	88,9	101,6	114,3	114,3	139,7	139,7	168,3	168,3	219,1
thickness (mm)	3	4	2	2	3	2	3	2	3	2
304L code	23DR883	23DR88G	23DR1012	23DR1142	23DR1143	23DR1392	23DR1393	23DR1682	23DR1683	23DR2192
316L code	43DR883	43DR88G	-	43DR1142	43DR1143	43DR1392	43DR1393	43DR1682	43DR1683	43DR2192

Ø	219,1	273	273	323,9	323,9	355,6	406,4	457
thickness (mm)	3	2	3	2	3	3	3	3
304L code	23DR2193	23DR2732	23DR2733	23DR3232	23DR3233	23DR3553	23DR4063	23DR4573
316L code	43DR2193	43DR2732	43DR2733	43DR3232	43DR3233	43DR3553	43DR4063	-

23DE/43DE - Seamless bend 3D

Ø	13,5	13,5	17,2	17,2	21,3	21,3	21,3	21,3	21,3	26,9
thickness (mm)	1,6	2,3	1,6	2,3	1,6	2	2,6	1,6	2,6	1,6
304L code	23DE131	23DE13G	23DE171	23DE17G	23DE211	23DE212	23DE21G	23DE21138	23DE21G38	23DE261
316L code	43DE131	43DE13G	43DE171	43DE17G	43DE211	43DE212	43DE21G	43DE21138	43DE21G38	43DE261

23DE/43DE - Seamless bend 3D (continued)

Ø	26,9	26,9	33,7	33,7	33,7	42,4	42,4	42,4	48,3
thickness (mm)	2	2,6	1,6	2	3,2	1,6	2	3,2	1,6
304L code	23DE262	23DE26G	23DE331	23DE332	23DE33G	23DE421	23DE422	23DE42G	23DE481
316L code	43DE262	43DE26G	43DE331	43DE332	43DE33G	43DE421	43DE422	43DE42G	43DE481

Ø	48,3	48,3	60,3	60,3	76,1	76,1	88,9	88,9
thickness (mm)	2	3,2	2	3,6	2	3,6	2	4
304L code	23DE482	23DE48G	23DE602	23DE60G	23DE762	23DE76G	23DE882	23DE88G
316L code	43DE482	43DE48G	43DE602	43DE60G	43DE762	43DE76G	43DE882	43DE88G

2TSS/4TSS - Welded tee without sleeve

Ø	13,5	17,2	21,3	26,9	33,7	42,4	48,3	60,3	76,1
thickness (mm)	1,6	1,6	1,6	1,6	2	2	2	2	2
304L code	2TSS131	2TSS171	2TSS211	2TSS261	2TSS332	2TSS422	2TSS482	2TSS602	2TSS762
316L code	4TSS131	4TSS171	4TSS211	4TSS261	4TSS332	4TSS422	4TSS482	4TSS602	4TSS762

Ø	88,9	114,3	114,3	139,7	168,3	219,1	273
thickness (mm)	2	2	3	2	2	2	2
304L code	2TSS882	2TSS1142	2TSS1143	2TSS1392	2TSS1682	2TSS2192	2TSS2732
316L code	4TSS882	4TSS1142	4TSS1143	4TSS1392	4TSS1682	4TSS2192	4TSS2732

2TS/4TS - Welded tee with sleeve

Ø	17,2	21,3	26,9	33,7	42,4	48,3	60,3	76,1	88,9
thickness (mm)	1,6	1,6	1,6	2	2	2	2	2	2
304L code	2TS171	2TS211	2TS261	2TS332	2TS422	2TS482	2TS602	2TS762	2TS882
316L code	4TS171	4TS211	4TS261	4TS332	4TS422	4TS482	4TS602	4TS762	4TS882

Ø	114,3	139,7	323,9	406,3	457,2	508	609,6
thickness (mm)	2	2	3	3	3	3	3
304L code	2TS1142	2TS1392	2TS3233	2TS4063	2TS4573	2TS5083	2TS6093
316L code	4TS1142	-	4TS3233	4TS4063	4TS4573	4TS5083	4TS6093

2TSS/4TSS - Welded reducing tee without sleeve

Ø	26,9-21,3	26,9-17,2	33,7-26,9	33,7-21,3	42,4-33,7	42,4-26,9	48,3-42,4	48,3-33,7	60,3-48,3
thickness (mm)	2	2	2	2	2	2	2	2	2
304L code	2TSS26212	2TSS26172	2TSS33262	2TSS33212	2TSS42332	2TSS42262	2TSS48422	2TSS48332	2TSS60482
316L code	4TSS26212	4TSS26172	4TSS33262	4TSS33212	4TSS42332	4TSS42262	4TSS48422	4TSS48332	4TSS60482

Ø	60,3-42,4	76,1-60,3	76,1-48,3	88,9-76,1	88,9-60,3	114,3-88,9	114,3-76,1
thickness (mm)	2	2	2	2	2	2	2
304L code	2TSS60422	2TSS76602	2TSS76482	2TSS88762	2TSS88602	-	2TSS114762
316L code	4TSS60422	4TSS76602	4TSS76482	4TSS88762	4TSS88602	4TSS114882	4TSS114762

2R/4R - Welded concentric reducer

Ø	17,2/13,5	21,3/13,5	21,3/17,2	26,9/13,5	26,9/17,2	26,9/21,3	33,7/13,5	33,7/17,2	33,7/21,3	33,7/26,9
thickness (mm)	2	2	2	2	2	2	2	2	2	2
304L code	2R1713	2R2113	2R2117	2R2613	2R2617	2R2621	2R3313	2R3317	2R3321	2R3326
316L code	4R1713	4R2113	4R2117	4R2613	4R2617	4R2621	4R3313	4R3317	4R3321	4R3326

Ø	42,4/13,5	42,4/17,2	42,4/21,3	42,4/26,9	42,4/33,7	48,3/17,2	48,3/21,3	48,3/26,9	48,3/33,7	48,3/42,4
thickness (mm)	2	2	2	2	2	2	2	2	2	2
304L code	2R4213	2R4217	2R4221	2R4226	2R4233	2R4817	2R4821	2R4826	2R4833	2R4842
316L code	4R4213	4R4217	4R4221	4R4226	4R4233	4R4817	4R4821	4R4826	4R4833	4R4842

Ø	60,3/17,2	60,3/21,3	60,3/26,9	60,3/33,7	60,3/42,4	60,3/48,3	76,1/26,9	76,1/33,7	76,1/42,4	76,1/48,3
thickness (mm)	2	2	2	2	2	2	2	2	2	2
304L code	2R6017	2R6021	2R6026	2R6033	2R6042	2R6048	2R7626	2R7633	2R7642	2R7648
316L code	4R6017	4R6021	4R6026	4R6033	4R6042	4R6048	4R7626	4R7633	4R7642	4R7648

Ø	76,1/60,3	88,9/26,9	88,9/33,7	88,9/42,4	88,9/48,3	88,9/60,3	88,9/76,1	114,3/26,9	114,3/33,7	114,3/42,4
thickness (mm)	2	2	2	2	2	2	2	2	2	2
304L code	2R7660	2R8826	2R8833	2R8842	2R8848	2R8860	2R8876	2R11426	2R11433	2R11442
316L code	4R7660	4R8826	4R8833	4R8842	4R8848	4R8860	4R8876	4R11426	4R11433	4R11442

Ø	114,3/48,3	114,3/60,3	114,3/76,1	114,3/76,1	114,3/88,9	114,3/88,9	139,7/60,3	139,7/76,1	139,7/88,9	139,7/114,3
thickness (mm)	2	2	2	3	2	3	2	2	2	2
304L code	2R11448	2R11460	2R11476	2R114763	2R11488	2R114883	2R13960	2R13976	2R13988	2R139114
316L code	4R11448	4R11460	4R11476	4R114763	4R11488	4R114883	4R13960	4R13976	4R13988	4R139114

Ø	139,7/114,3	168,3/60,3	168,3/76,1	168,3/88,9	168,3/114,3	168,3/114,3	168,3/139,7	168,3/139,7	219,1/114,3	219,1/139,7
thickness (mm)	3	2	2	2	2	3	2	3	2	2
304L code	2R1391143	2R16860	2R16876	2R16888	2R168114	2R1681143	2R168139	2R1681393	2R219114	2R219139
316L code	4R1391143	4R16860	4R16876	4R16888	4R168114	4R1681143	4R168139	4R1681393	4R219114	4R219139

Ø	219,1/139,7	219,1/168,3	219,1/168,3	273/168,3	273/168,3	273/219,1	273/219,1	323,9/219,1	323,9/219,1	323,9/273
thickness (mm)	3	2	3	2	3	2	3	2	3	2
304L code	2R2191393	2R219168	2R2191683	2R273168	2R2731683	2R273219	2R2732193	2R323219	2R3232193	2R323273
316L code	4R2191393	4R219168	4R2191683	4R273168	4R2731683	4R273219	-	4R323219	4R3232193	4R323273

Ø	323,9/273	355,6/273	355,6/323,9	406,4/355,6	406,4/323,9	508/355,6	508/406,4	609,6/508	609/406,4
thickness (mm)	3	3	3	3	3	3	3	3	3
304L code	2R3232733	2R3552733	2R3553233	2R4063553	2R4063233	2R5083553	2R5084063	2R6095083	2R6094063
316L code	4R3232733	4R3552733	4R3553233	4R4063553	4R4063233	4R5083553	4R5084063	4R6095083	4R6094063

2FB/4FB - Cap

Ø	17,2	21,3	26,9	33,7	42,4	48,3	60,3	60,3	76,1	76,1
thickness (mm)	2	2	2	2	2	2	2	3	2	3
304L code	2FB17	2FB21	2FB26	2FB33	2FB42	2FB48	2FB60	2FB603	2FB76	2FB763
316L code	4FB17	4FB21	4FB26	4FB33	4FB42	4FB48	4FB60	4FB603	4FB76	4FB763

Ø	88,9	88,9	114,3	114,3	139,7	139,7	168,3	168,3	219,1	219,1
thickness (mm)	2	3	2	3	2	3	2	3	2	3
304L code	2FB88	2FB883	2FB114	2FB1143	2FB139	2FB1393	2FB168	2FB1683	2FB219	2FB2193
316L code	4FB88	4FB883	4FB114	4FB1143	4FB139	4FB1393	4FB168	4FB1683	4FB219	4FB2193

2FB/4FB - Cap (continued)

Ø	273	273	323,9	323,9	355,6	406,4	457	508	610
thickness (mm)	2	3	2	3	3	3	3	3	3
304L code	2FB273	2FB2733	2FB323	2FB3233	2FB3553	2FB4063	2FB4573	2FB5083	2FB6103
316L code	4FB273	4FB2733	4FB323	4FB3233	4FB3553	4FB4063	4FB4573	4FB5083	-

2CM/4CM - Pressed collar

Ø	17,2	21,3	26,9	33,7	42,4	48,3	60,3	60,3	76,1	76,1
thickness (mm)	2	2	2	2	2	2	2	3	2	3
304L code	2CM17	2CM21	2CM26	2CM33	2CM42	2CM48	2CM60	2CM603	2CM76	2CM763
316L code	4CM17	4CM21	4CM26	4CM33	4CM42	4CM48	4CM60	4CM603	4CM76	4CM763

Ø	88,9	88,9	114,3	114,3	139,7	139,7	168,3	168,3	219,1	219,1
thickness (mm)	2	3	2	3	2	3	2	3	2	3
304L code	2CM88	2CM883	2CM114	2CM1143	2CM139	2CM1393	2CM168	2CM1683	2CM219	2CM2193
316L code	4CM88	4CM883	4CM114	4CM1143	4CM139	4CM1393	4CM168	4CM1683	4CM219	4CM2193

Ø	273	273	323,9	323,9	356,6	406,4	458,3	508	609,3
thickness (mm)	2	3	2	3	3	3	3	3	3
304L code	2CM273	2CM2733	2CM323	2CM3233	2CM3553	2CM4063	2CM4583	2CM5083	2CM6103
316L code	4CM273	4CM2733	4CM323	4CM3233	4CM3553	4CM4063	4CM4583	4CM5083	4CM6103

ANSI standard

2LR/4LR - Welded bend schedule 10S

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"	5"	6"	8"
thickness (mm)	2,11	2,11	2,77	2,77	2,77	2,77	3,05	3,05	3,05	3,4	3,4	3,76
304L code	2LR21S10	2LR26S10	2LR33S10	2LR42S10	2LR48S10	2LR60S10	2LR73S10	2LR88S10	2LR114S10	2LR141S10	2LR168S10	2LR219S10
316L code	4LR21S10	4LR26S10	4LR33S10	4LR42S10	4LR48S10	4LR60S10	4LR73S10	4LR88S10	4LR114S10	4LR141S10	4LR168S10	4LR219S10

2LE/4LE - Seamless bend schedule 10S

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"	5"	6"	8"
thickness (mm)	2,11	2,11	2,77	2,77	2,77	2,77	3,05	3,05	3,05	3,4	3,4	3,76
304L code	2LE21S10	2LE26S10	2LE33S10	2LE42S10	2LE48S10	2LE60S10	2LE73S10	2LE88S10	2LE114S10	2LE141S10	2LE168S10	2LE219S10
316L code	4LE21S10	4LE26S10	4LE33S10	4LE42S10	4LE48S10	4LE60S10	4LE73S10	4LE88S10	4LE114S10	4LE141S10	4LE168S10	4LE219S10

2LR/4LR - Welded bend schedule 40S

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"	5"	6"	8"
thickness (mm)	2,77	2,87	3,38	3,56	3,68	3,91	5,16	5,49	6,02	6,55	7,11	8,18
304L code	2LR21S40	2LR26S40	2LR33S40	2LR42S40	2LR48S40	2LR60S40	2LR73S40	2LR88S40	2LR114S40	2LR141S40	2LR168S40	2LR219S40
316L code	4LR21S40	4LR26S40	4LR33S40	4LR42S40	4LR48S40	4LR60S40	4LR73S40	4LR88S40	4LR114S40	4LR141S40	4LR168S40	4LR219S40

2LE/4LE - Seamless bend schedule 40S

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"	5"	6"	8"
thickness (mm)	2,77	2,87	3,38	3,56	3,68	3,91	5,16	5,49	6,02	6,55	7,11	8,18
304L code	2LE21S40	2LE26S40	2LE33S40	2LE42S40	2LE48S40	2LE60S40	2LE73S40	2LE88S40	2LE114S40	2LE141S40	2LE168S40	2LE219S40
316L code	4LE21S40	4LE26S40	4LE33S40	4LE42S40	4LE48S40	4LE60S40	4LE73S40	4LE88S40	4LE114S40	4LE141S40	4LE168S40	4LE219S40

2LE/4LE - Seamless bend schedule 80S

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
thickness (mm)	3,73	3,91	4,55	4,85	5,08	5,54	7,01	7,62	8,56
304L code	2LE21S80	2LE26S80	2LE33S80	2LE42S80	2LE48S80	2LE60S80	2LE73S80	2LE88S80	2LE114S80
316L code	4LE21S80	4LE26S80	4LE33S80	4LE42S80	4LE48S80	4LE60S80	4LE73S80	4LE88S80	4LE114S80

2TS/4TS - Welded tee schedule 10S

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"	5"	6"	8"
thickness (mm)	2,11	2,11	2,77	2,77	2,77	2,77	3,05	3,05	3,05	3,4	3,4	3,76
304L code	2TS21S10	2TS26S10	2TS33S10	2TS42S10	2TS48S10	2TS60S10	2TS73S10	2TS88S10	2TS114S10	2TS141S10	2TS168S10	2TS219S10
316L code	4TS21S10	4TS26S10	4TS33S10	4TS42S10	4TS48S10	4TS60S10	4TS73S10	4TS88S10	4TS114S10	4TS141S10	4TS168S10	4TS219S10

2TS/4TS - Seamless tee schedule 10S

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"	5"	6"	8"
thickness (mm)	2,11	2,11	2,77	2,77	2,77	2,77	3,05	3,05	3,05	3,4	3,4	3,76
304L code	2TS21S10E	2TS26S10E	2TS33S10E	2TS42S10E	2TS48S10E	2TS60S10E	2TS73S10E	2TS88S10E	2TS114S10E	2TS141S10E	2TS168S10E	2TS219S10E
316L code	4TS21S10E	4TS26S10E	4TS33S10E	4TS42S10E	4TS48S10E	4TS60S10E	4TS73S10E	4TS88S10E	4TS114S10E	4TS141S10E	4TS168S10E	4TS219S10E

2TS/4TS - Welded tee schedule 40S

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"	5"	6"	8"
thickness (mm)	2,77	2,87	3,38	3,56	3,68	3,91	5,16	5,49	6,02	6,55	7,11	8,18
304L code	2TS21S40	2TS26S40	2TS33S40	2TS42S40	2TS48S40	2TS60S40	2TS73S40	2TS88S40	2TS114S40	2TS141S40	2TS168S40	2TS219S40
316L code	4TS21S40	4TS26S40	4TS33S40	4TS42S40	4TS48S40	4TS60S40	4TS73S40	4TS88S40	4TS114S40	4TS141S40	4TS168S40	4TS219S40

2TS/4TS - Seamless tee schedule 40S

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"	5"	6"	8"
thickness (mm)	2,77	2,87	3,38	3,56	3,68	3,91	5,16	5,49	6,02	6,55	7,11	8,18
304L code	2TS21S40E	2TS26S40E	2TS33S40E	2TS42S40E	2TS48S40E	2TS60S40E	2TS73S40E	2TS88S40E	2TS114S40E	2TS141S40E	2TS168S40E	2TS219S40E
316L code	4TS21S40E	4TS26S40E	4TS33S40E	4TS42S40E	4TS48S40E	4TS60S40E	4TS73S40E	4TS88S40E	4TS114S40E	4TS141S40E	4TS168S40E	4TS219S40E

2R/4R - Welded concentric reducer schedule 10S

NPS	26,7/21,3	33,4/21,3	33,4/26,7	42,2/26,7	42,2/33,4	48,3/33,4	48,3/42,2	60,3/42,2	60,3/48,3	73/48,3
304L code	2R2621S10	2R3321S10	2R3326S10	2R4226S10	2R4233S10	2R4833S10	2R4842S10	2R6042S10	2R6048S10	2R7348S10
316L code	4R2621S10	4R3321S10	4R3326S10	4R4226S10	4R4233S10	4R4833S10	4R4842S10	4R6042S10	4R6048S10	4R7348S10

NPS	73/60,3	88,9/60,3	88,9/73	114,3/73	114,3/88,9	141,3/114,3	141,3/88,9	168,3/114,3	168,3/141,3	219,1/168,3
304L code	2R7360S10	2R8860S10	2R8873S10	2R11473S10	2R11488S10	2R141114S10	2R14188S10	2R168114S10	-	2R219168S10
316L code	4R7360S10	4R8860S10	4R8873S10	4R11473S10	4R11488S10	4R141114S10	4R14188S10	4R168114S10	4R168141S10	4R219168S10

2R/4R - Seamless concentric reducer schedule 10S

NPS	26,7/21,3	33,4/21,3	33,4/26,7	42,2/26,7	42,2/33,4	48,3/33,4	48,3/42,2	60,3/42,2	60,3/48,3	73/48,3	73/60,3	88,9/60,3
304L code	2R2621S10E	2R3321S10E	2R3326S10E	2R4226S10E	2R4233S10E	2R4833S10E	2R4842S10E	2R6042S10E	2R6048S10E	2R7348S10E	2R7360S10E	2R8860S10E
316L code	4R2621S10E	4R3321S10E	4R3326S10E	4R4226S10E	4R4233S10E	4R4833S10E	4R4842S10E	4R6042S10E	4R6048S10E	4R7348S10E	4R7360S10E	4R8860S10E

NPS	88,9/73	114,3/60,3	114,3/73	114,3/88,9	141,3/114,3	141,3/88,9	168,3/114,3	168,3/141,3	219,1/168,3
304L code	2R8873S10E	2R11460S10E	2R11473S10E	2R11488S10E	2R141114S10E	2R14188S10E	2R168114S10E	2R168141S10E	2R219168S10E
316L code	4R8873S10E	4R11460S10E	4R11473S10E	4R11488S10E	4R141114S10E	4R14188S10E	4R168114S10E	4R168141S10E	4R219168S10E

2R/4R - Welded concentric reducer schedule 40S

NPS	26,7/21,3	33,4/21,3	33,4/26,7	42,2/26,7	42,2/33,4	48,3/33,4	48,3/42,2	60,3/42,2	60,3/48,3
304L code	2R2621S40	2R3321S40	2R3326S40	2R4226S40	2R4233S40	2R4833S40	2R4842S40	2R6042S40	2R6048S40
316L code	4R2621S40	4R3321S40	4R3326S40	4R4226S40	4R4233S40	4R4833S40	4R4842S40	4R6042S40	4R6048S40

NPS	73/48,3	73/60,3	88,9/60,3	88,9/73	114,3/73	114,3/88,9	141,3/88,9	168,3/114,3	219,1/168,3
304L code	2R7348S40	2R7360S40	2R8860S40	2R8873S40	2R11473S40	2R11488S40	2R14188S40	2R168114S40	2R219168S40
316L code	4R7348S40	4R7360S40	4R8860S40	4R8873S40	4R11473S40	4R11488S40	4R14188S40	4R168114S40	4R219168S40

2R/4R - Seamless concentric reducer schedule 40S

NPS	26,7/21,3	33,4/21,3	33,4/26,7	42,2/26,7	42,2/33,4	48,3/33,4	48,3/42,2	60,3/42,2	60,3/48,3
304L code	2R2621S40E	2R3321S40E	2R3326S40E	2R4226S40E	2R4233S40E	2R4833S40E	2R4842S40E	2R6042S40E	2R6048S40E
316L code	4R2621S40E	4R3321S40E	4R3326S40E	4R4226S40E	4R4233S40E	4R4833S40E	4R4842S40E	4R6042S40E	4R6048S40E

NPS	73/48,3	73/60,3	88,9/60,3	114,3/73	114,3/88,9	141,3/114,3	141,3/88,9	168,3/114,3	168,3/141,3
304L code	2R7348S40E	2R7360S40E	2R8860S40E	2R11473S40E	2R11488S40E	2R141114S40E	2R14188S40E	2R168114S40E	2R168141S40E
316L code	4R7348S40E	4R7360S40E	4R8860S40E	4R11473S40E	4R11488S40E	4R141114S40E	-	-	-

2CAPS/4CAPS - Cap schedule 10S

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"	5"	6"	8"
thickness (mm)	2,11	2,11	2,77	2,77	2,77	2,77	3,05	3,05	3,05	3,4	3,4	3,76
304L code	2CAPS21S10	2CAPS26S10	2CAPS33S10	2CAPS42S10	2CAPS48S10	2CAPS60S10	2CAPS73S10	2CAPS88S10	2CAPS114S10	2CAPS141S10	2CAPS168S10	2CAPS219S10
316L code	4CAPS21S10	4CAPS26S10	4CAPS33S10	4CAPS42S10	4CAPS48S10	4CAPS60S10	4CAPS73S10	4CAPS88S10	4CAPS114S10	4CAPS141S10	4CAPS168S10	4CAPS219S10

2CAPS/4CAPS - Cap schedule 40S

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"	5"	6"	8"
thickness (mm)	2,77	2,87	3,38	3,56	3,68	3,91	5,16	5,49	6,02	6,55	7,11	8,18
304L code	2CAPS21S40	2CAPS26S40	2CAPS33S40	2CAPS42S40	2CAPS48S40	2CAPS60S40	2CAPS73S40	2CAPS88S40	2CAPS114S40	2CAPS141S40	2CAPS168S40	2CAPS219S40
316L code	4CAPS21S40	4CAPS26S40	4CAPS33S40	4CAPS42S40	4CAPS48S40	4CAPS60S40	4CAPS73S40	4CAPS88S40	4CAPS114S40	4CAPS141S40	4CAPS168S40	4CAPS219S40

2STUB/4STUB - Collar stub end schedule 10S

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"	5"	6"	8"
thickness (mm)	2,11	2,11	2,77	2,77	2,77	2,77	3,05	3,05	3,05	3,4	3,4	3,76
304L code	2STUBA21S10	2STUBA26S10	2STUBA33S10	2STUBA42S10	2STUBA48S10	2STUBA60S10	2STUBA73S10	2STUBA88S10	2STUBA114S10	2STUBA141S10	2STUBA168S10	2STUBA219S10
316L code	4STUBA21S10	4STUBA26S10	4STUBA33S10	4STUBA42S10	4STUBA48S10	4STUBA60S10	4STUBA73S10	4STUBA88S10	4STUBA114S10	4STUBA141S10	-	-

2STUB/4STUB - Collar stub end schedule 40S

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"	5"	6"	8"
thickness (mm)	2,77	2,87	3,38	3,56	3,68	3,91	5,16	5,49	6,02	6,55	7,11	8,18
304L code	2STUBA21S40	2STUBA26S40	2STUBA33S40	2STUBA42S40	2STUBA48S40	2STUBA60S40	2STUBA73S40	2STUBA88S40	2STUBA114S40	2STUBA141S40	2STUBA168S40	2STUBA219S40
316L code	4STUBA21S40	4STUBA26S40	4STUBA33S40	4STUBA42S40	4STUBA48S40	4STUBA60S40	4STUBA73S40	4STUBA88S40	4STUBA114S40	4STUBA141S40	4STUBA168S40	4STUBA219S40

Aluminium flanges

Individual packing

Dimensions acc. to DIN 2642 - Material: aluminium AS13 - PS: 10 bar - Products can be sourced from several suppliers.

Aluminium AS13

ABT - Lap joint flange - Type A (metric) - PN10

DN	40	50	65	80	100	125	150	200	250	300	350
code	ABT44	ABT54	ABT70	ABT84	ABT104	ABT129	ABT154	ABT204	ABT254	ABT304	ABT354

ABT - Lap joint flange - Type C (ISO) - PN10

DN	10	15	20	25	32	40	50	65	80	100	125
code	ABT10FG	ABT15	ABT20	ABT25	ABT32	ABT40	ABT50	ABT65	ABT80	ABT100	ABT125

DN	150	200	250	300	350	400	450	500	600	700
code	ABT150	ABT200	ABT250	ABT300	ABT350	ABT400	ABT450	ABT500	ABT600	ABT700

Carbon steel flanges

Individual packing

Material: bichromated carbon steel - Dimensions acc. to DIN 2642 - PS: 10 bar - TS: -10°C/+180°C - Products can be sourced from several suppliers.

3.1 see p. 22

Bichromated carbon steel

ABE - Pressed lap joint flanges - PN10

DN	15	20	25	32	40	50	65	80	100	125	150
code	ABE15	ABE20	ABE25	ABE32	ABE40	ABE50	ABE65	ABE80	ABE100	ABE125	ABE150

DN	200	250	300	350	400	450	500
code	ABE200	ABE250	ABE300	ABE350	ABE400	ABE450	ABE500

Individual packing

Dimensions acc. to EN 1092-1 - Individual marking - Material: forged carbon steel P235GH, P245GH or P250GH (except 2021: S235JR) - When applies, galvanised coating for drinking water compatibility - PS acc. to standard: 10 bar for PN10 flanges, 16 bar for PN16 flanges, etc.

3.1 see p. 22

Forged carbon steel PN6 to PN16 - S-First

2121 - Plate flange for welding - Type 01/A - FF PN10/16

DN	15	20	25	32	40	50	65	80	100/108*	100/114
PN	10/40	10/40	10/40	10/40	10/40	10/16	10/16	10/16	10/16	10/16
code	2121015	2121020	2121025	2121032	2121040	2121050	2121065	2121080	2121100	2121101

DN	125/133*	125/139	150/159*	150/168	250	250	300	300
PN	10/16	10/16	10/16	10/16	10	16	10	16
code	2121125	2121126	2121150	2121151	2121250	2121251	2121300	2121301

* not included in EN 1092-1

2120 - Plate flange for welding - Type 01/A - FF PN10A

DN	15	20	25	32	40	50	65	80	100/114	125/139	150/168
PN	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A
code	2120015	2120020	2120025	2120032	2120040	2120050	2120065	2120080	2120101	2120126	2120151

2124 - Weld-neck flange - Type 11/B1 - RF PN6

DN	15	20	25	32	40	50	65	80	100	125/139	150/168
PN	6	6	6	6	6	6	6	6	6	6	6
code	2151015	2151020	2151025	2151032	2124040	2124050	2124065	2124080	2124100	2124125	2124150

2100/2101 - Weld-neck flange - Type 11/B1 - RF PN10/16

DN	15	20	25	32	40	50	65	80	100	125	150	200	200
PN	10/40	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10	16
code	2100015	2100020	2100025	2100032	2100040	2100050	2100065	2100080	2100100	2100125	2100150	2101200	2100200

DN	250	250	300	300
PN	10	16	10	16
code	2101250	2100250	2101300	2100300

2123 - Hubbed threaded flange - Type 13/B1 - RF PN10/16

DN	15	20	25	32	40	50	65	80	100/114
PN	10/40	10/40	10/40	10/40	10/40	10/16	10/16	10/16	10/16
code	2123015	2123020	2123025	2123032	2123040	2123050	2123065	2123080	2123100

2122 - Blind flange - Type 05/A - FF PN10/16

DN	15	20	25	32	40	50	65	80	100	125	150	200	200
PN	10/40	10/40	10/40	10/40	10/40	10/16	10/16	10/16	10/16	10/16	10/16	10	16
code	2122015	2122020	2122025	2122032	2122040	2122050	2122065	2122080	2122100	2122125	2122150	2122200	2122201

Forged carbon steel PN6 to PN40

2160 - Flat flange - Type 01/A PN10/16

DN	15	20	25	32	40	50	65	80	100/114	125/139	150/168	200	200
PN	10/40	10/40	10/40	10/40	10/40	10/16	10/16	10/16	10/16	10/16	10/16	10	16
code	2160015	2160020	2160025	2160032	2160040	2160050	2160065	2160080	2160100	2160125	2160150	2160200	2160201

DN	250	250	300	300	350	350	400	400
PN	10	16	10	16	10	16	10	16
code	2160250	2160251	2160300	2160301	2160350	2160351	2160400	2160401

2151 - Weld-neck flange - Type 11/B1 - RF PN6

DN	15	20	25	32	40	50	65	80	100/114	125/139	150/168
PN	6	6	6	6	6	6	6	6	6	6	6
code	2151015	2151020	2151025	2151032	2151040	2151050	2151065	2151080	2151100	2151125	2151150

2152 - BW welding neck flange - Type 11/B1 PN10/16

DN	15	20	25	32	40	50	65	80	100/114	125/139	150/168	200	200
PN	10/40	10/40	10/40	10/40	10/40	10/16	10/16	10/16	10/16	10/16	10/16	PN10	PN16
code	2152015	2152020	2152025	2152032	2152040	2152050	2152065	2152080	2152100	2152125	2152150	2152200	2152201

DN	250	250	300	300	350	350	400	400
PN	PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
code	2152250	2152251	2152300	2152301	2152350	2152351	2152400	2152401

2153 - Galvanised weld-neck flange - Type 11/B1 - RF PN10/16

DN	15	20	25	32	40	50	65	80	100/114	125/139	150/168	200	200
PN	10/40	10/40	10/40	10/40	10/40	10/16	10/16	10/16	10/16	10/16	10/16	PN10	PN16
code	2153015	2153020	2153025	2153032	2153040	2153050	2153065	2153080	2153100	2153125	2153150	2153200	2153201

DN	250	250	300	300	350	350	400	400
PN	PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
code	2153250	2153251	2153300	2153301	2153350	2153351	2153400	2153401

2105 - Weld-neck flange - Type 11/B1 - RF PN25/40

DN	15	20	25	32	40	50	65	80	100/114	125/139	150/168	200	200
PN	10/40	10/40	10/40	10/40	10/40	25/40	25/40	25/40	25/40	25/40	25/40	25	40
code	2105015	2105020	2105025	2105032	2105040	2105050	2105065	2105080	2105100	2105125	2105150	2105200	2105201

2155 - Weld-neck flange - Type 11/E - Spigot PN25/40

DN	15	20	25	32	40	50	65	80	100/114	125/139	150/168	200	200
PN	10/40	10/40	10/40	10/40	10/40	25/40	25/40	25/40	25/40	25/40	25/40	25	40
code	2155015	2155020	2155025	2155032	2155040	2155050	2155065	2155080	2155100	2155125	2155150	2155200	2155201

2156 - Weld-neck flange - Type 11/F - Recess PN25/40

DN	15	20	25	32	40	50	65	80	100/114	125/139	150/168	200	200
PN	10/40	10/40	10/40	10/40	10/40	25/40	25/40	25/40	25/40	25/40	25/40	25	40
code	2156015	2156020	2156025	2156032	2156040	2156050	2156065	2156080	2156100	2156125	2156150	2156200	2156201

2157 - Hubbed threaded flange - Type 13/B1 - RF PN10/16

DN	15	20	25	32	40	50	65	80	100/114
PN	10/40	10/40	10/40	10/40	10/40	10/16	10/16	10/16	10/16
code	2157015	2157020	2157025	2157032	2157040	2157050	2157065	2157080	2157100

2158 - Galvanised hubbed threaded flange - Type 13/B1 - RF PN10/16

DN	15	20	25	32	40	50	65	80	100/114
PN	10/40	10/40	10/40	10/40	10/40	10/16	10/16	10/16	10/16
code	2158015	2158020	2158025	2158032	2158040	2158050	2158065	2158080	2158100

2161 - Blind flange - Type 05/A PN10/16

DN	15	20	25	32	40	50	65	80	100/114	125/139	150/168	200	200
PN	10/40	10/40	10/40	10/40	10/40	10/16	10/16	10/16	10/16	10/16	10/16	10	16
code	2161015	2161020	2161025	2161032	2161040	2161050	2161065	2161080	2161100	2161125	2161150	2161200	2161201

DN	250	250	300	300	350	350	400	400
PN	10	16	10	16	10	16	10	16
code	2161250	2161251	2161300	2161301	2161350	2161351	2161400	2161401

Stainless steel flanges

Individual packing

Materials: stainless steel F304, F304L, F316 or F316L - PS: acc. to standard: 10 bar for PN10 flanges, 16 bar for PN16 flanges, etc - Products can be sourced from several suppliers.

3.1
see p. 22

Forged stainless steel PN10 to PN40

2BE/4BE - Pressed lap joint flanges - PN10 (DIN 2642)

DN	15	20	25	32	40	50	65	80	100	125	150	200
304L code	2BE15	2BE20	2BE25	2BE32	2BE40	2BE50	2BE65	2BE80	2BE100	2BE125	2BE150	2BE200
316L code	4BE15	4BE20	4BE25	4BE32	4BE40	4BE50	4BE65	4BE80	4BE100	4BE125	4BE150	4BE200

DN	250	300	350	400	450	500
304L code	2BE250	2BE300	2BE350	2BE400	2BE450	2BE500
316L code	4BE250	4BE300	4BE350	4BE400	4BE450	4BE500

2PAS/4PAS - Plate flange for welding - Type 01/A - FF PN10/40

DN	10	15	20	25	32	40	50	65	80	100	125	150
PN	10/40	10/40	10/40	10/40	10/40	10/40	10/16	10/16	10/16	10/16	10/16	10/16
304L code	2PAS10	2PAS15	2PAS20	2PAS25	2PAS32	2PAS40	2PAS50	2PAS65	2PAS80	2PAS100	2PAS125	2PAS150
316L code	4PAS10	4PAS15	4PAS20	4PAS25	4PAS32	4PAS40	4PAS50	4PAS65	4PAS80	4PAS100	4PAS125	4PAS150

DN	200	200	250	250	300	300	350	400	400	450	500	500
PN	10	16	10	16	10	16	10	10	16	10	10	16
304L code	2PAS200	2PAS16200	2PAS250	2PAS16250	2PAS300	2PAS16300	2PAS350	2PAS400	2PAS16400	2PAS450	2PAS500	2PAS16500
316L code	4PAS200	4PAS16200	4PAS250	4PAS16250	4PAS300	4PAS16300	4PAS350	4PAS400	4PAS16400	4PAS450	4PAS500	4PAS16500

DN	600	600	700
PN	10	16	10
304L code	2PAS600	2PAS16600	2PAS700
316L code	4PAS600	4PAS16600	4PAS700

2PAS/4PAS - Plate flange for welding - Type 01/A - FF PN10

Thin version, approx. 30% vs standard.

DN	200	250	300	350	400	450	500	600	700	800	900	1000
PN	10	10	10	10	10	10	10	10	10	10	10	10
304L code	2PAS200A	2PAS250A	2PAS300A	2PAS350A	2PAS400A	2PAS450A	2PAS500A	2PAS600A	2PAS700A	2PAS800A	2PAS900A	2PAS1000A
316L code	4PAS200A	4PAS250A	4PAS300A	4PAS350A	4PAS400A	4PAS450A	4PAS500A	4PAS600A	4PAS700A	4PAS800A	4PAS900A	4PAS1000A

2PAS/4PAS - Plate flange for welding - Type 01/A - FF PN25/40

DN	50	65	80	100	125	150	200	200	250	250	300	300
PN	25/40	25/40	25/40	25/40	25/40	25/40	25	40	25	40	25	40
304L code	2PAS4050	2PAS4065	2PAS4080	2PAS40100	2PAS40125	2PAS40150	2PAS25200	2PAS40200	2PAS25250	2PAS40250	2PAS25300	2PAS40300
316L code	4PAS4050	4PAS4065	4PAS4080	4PAS40100	4PAS40125	4PAS40150	4PAS25200	4PAS40200	4PAS25250	4PAS40250	4PAS25300	4PAS40300

2PASB/4PASB - Plate flange for welding - Type 01/B - RF PN10/40

DN	15	20	25	32	40	50	65	80	100	125	150	200
PN	10/40	10/40	10/40	10/40	10/40	10/16	10/16	10/16	10/16	10/16	10/16	10
304L code	2PASB15	2PASB20	2PASB25	2PASB32	2PASB40	2PASB50	2PASB65	2PASB80	2PASB100	2PASB125	2PASB150	2PASB200
316L code	4PASB15	4PASB20	4PASB25	4PASB32	4PASB40	4PASB50	4PASB65	4PASB80	4PASB100	4PASB125	4PASB150	4PASB200

2COL/4COL - Weld-neck flange - Type 11/B - RF PN10/40

DN	15	20	25	32	40	50	65	80	100	125	150	200	200
PN	10/40	10/40	10/40	10/40	10/40	10/16	10/16	10/16	10/16	10/16	10/16	10	16
304L code	2COL15	2COL20	2COL25	2COL32	2COL40	2COL50	2COL65	2COL80	2COL100	2COL125	2COL150	2COL200	2COL16200
316L code	4COL15	4COL20	4COL25	4COL32	4COL40	4COL50	4COL65	4COL80	4COL100	4COL125	4COL150	4COL200	4COL16200

DN	250	250	300	300
PN	10	16	10	16
304L code	2COL250	2COL16250	2COL300	2COL16300
316L code	4COL250	4COL16250	4COL300	4COL16300

2COL/4COL - Weld-neck flange - Type 11/B - RF PN25/40

DN	50	65	80	100	125	150	200	200	250	250	300	300
PN	25/40	25/40	25/40	25/40	25/40	25/40	25	40	25	40	25	40
304L code	2COL4050	2COL4065	2COL4080	2COL40100	2COL40125	2COL40150	2COL25200	2COL40200	2COL25250	2COL40250	2COL25300	2COL40300
316L code	4COL4050	4COL4065	4COL4080	4COL40100	4COL40125	4COL40150	4COL25200	4COL40200	4COL25250	4COL40250	4COL25300	4COL40300

2BT/4BT - Loose plate flange - Type 02/A - FF PN10/40

DN	10	15	20	25	32	40	50	65	80	100	125	150	200
PN	10/40	10/40	10/40	10/40	10/40	10/40	10/16	10/16	10/16	10/16	10/16	10/16	10
304L code	2BT10	2BT15	2BT20	2BT25	2BT32	2BT40	2BT50	2BT65	2BT80	2BT100	2BT125	2BT150	2BT200
316L code	4BT10	4BT15	4BT20	4BT25	4BT32	4BT40	4BT50	4BT65	4BT80	4BT100	4BT125	4BT150	4BT200

DN	200	250	250	300	300	400
PN	16	10	16	10	16	10
304L code	2BT16200	2BT250	2BT16250	2BT300	2BT16300	2BT400
316L code	4BT16200	4BT250	4BT16250	4BT300	4BT16300	4BT400

2PT/4PT - Threaded flat flange - FF PN10/16

DN	10	15	20	25	32	40	50	65	80	100
PN	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16
304L code	2PT10	2PT15	2PT20	2PT25	2PT32	2PT40	2PT50	2PT65	2PT80	2PT100
316L code	4PT10	4PT15	4PT20	4PT25	4PT32	4PT40	4PT50	4PT65	4PT80	4PT100

2TP/4TP - Blind flange - Type 05/A - FF PN10/40

DN	10	15	20	25	32	40	50	65	80	100	125	150
PN	10/40	10/40	10/40	10/40	10/40	10/40	10/16	10/16	10/16	10/16	10/16	10/16
304L code	2TP10	2TP15	2TP20	2TP25	2TP32	2TP40	2TP50	2TP65	2TP80	2TP100	2TP125	2TP150
316L code	4TP10	4TP15	4TP20	4TP25	4TP32	4TP40	4TP50	4TP65	4TP80	4TP100	4TP125	4TP150

DN	200	200	250	250	300	300	350	400	500	600	700
PN	10	16	10	16	10	16	10	10	10	10	10
304L code	2TP200	2TP16200	2TP250	2TP16250	2TP300	2TP16300	2TP350	2TP400	2TP500	2TP600	-
316L code	4TP200	4TP16200	4TP250	4TP16250	4TP300	4TP16300	4TP350	4TP400	4TP500	4TP600	4TP700

2TP/4TP - Blind flange - Type 05/A - FF PN10

* Thin version, approx. 30% thiner vs standard.

DN	200	250	300	350	400	450	500	600
PN	10	10	10	10	10	10	10	10
304L code	2TP200A	2TP250A	2TP300A	2TP350A	2TP400A	2TP450A	2TP500A	2TP600A
316L code	4TP200A	4TP250A	4TP300A	4TP350A	4TP400A	4TP450A	4TP500A	4TP600A

2TP/4TP - Blind flange - Type 05/A - FF PN25/40

DN	50	65	80	100	125	150	200	200	250	250	300	300
PN	25/40	25/40	25/40	25/40	25/40	25/40	25	40	25	40	25	40
304L code	2TP4050	2TP4065	2TP4080	2TP40100	2TP40125	2TP40150	2TP25200	2TP40200	2TP25250	2TP40250	2TP25300	2TP40300
316L code	4TP4050	4TP4065	4TP4080	4TP40100	4TP40125	4TP40150	4TP25200	4TP40200	4TP25250	4TP40250	4TP25300	4TP40300

2TPB/4TPB - Blind flange - Type 05/B - RF PN10/40

DN	15	20	25	32	40	50	65	80	100	125	150	200
PN	10/40	10/40	10/40	10/40	10/40	10/16	10/16	10/16	10/16	10/16	10/16	10
304L code	2TPB15	2TPB20	2TPB25	2TPB32	2TPB40	2TPB50	2TPB65	2TPB80	2TPB100	2TPB125	2TPB150	2TPB200
316L code	4TPB15	4TPB20	4TPB25	4TPB32	4TPB40	4TPB50	4TPB65	4TPB80	4TPB100	4TPB125	4TPB150	4TPB200

Forged stainless steel ANSI150/300

2WN/4WN - Weld-neck flange schedule 40 - Type 11/B - RF ANSI150

DN	15	20	25	32	40	50	65	80	100	125	150	200	250
304L code	2WN2015	2WN2020	2WN2025	2WN2032	2WN2040	2WN2050	2WN2065	2WN2080	2WN20100	2WN20125	2WN20150	2WN20200	2WN20250
316L code	4WN2015	4WN2020	4WN2025	4WN2032	4WN2040	4WN2050	4WN2065	4WN2080	4WN20100	4WN20125	4WN20150	4WN20200	4WN20250

2SO/4SO - Hubbed slip-on flange for welding - Type 12/B - RF ANSI150

DN	15	20	25	32	40	50	65	80	100	125	150	200	250
304L code	2SO2015	2SO2020	2SO2025	2SO2032	2SO2040	2SO2050	2SO2065	2SO2080	2SO20100	2SO20125	2SO20150	2SO20200	2SO20250
316L code	4SO2015	4SO2020	4SO2025	4SO2032	4SO2040	4SO2050	4SO2065	4SO2080	4SO20100	4SO20125	4SO20150	4SO20200	4SO20250

2LJ/4LJ - Lap joint flange - FF ANSI 150

DN	15	20	25	32	40	50	65	80	100	125	150	200
304L code	-	-	2LJ2025	-	-	2LJ2050	-	2LJ2080	2LJ20100	2LJ20125	2LJ20150	-
316L code	4LJ2015	4LJ2020	4LJ2025	4LJ2032	4LJ2040	4LJ2050	4LJ2065	4LJ2080	4LJ20100	4LJ20125	4LJ20150	4LJ20200

2B/4B - Blind flange - Type 05/B - RF ANSI 150

DN	15	20	25	32	40	50	65	80	100	125	150	200	250
304L code	2B2015	2B2020	2B2025	2B2032	2B2040	2B2050	2B2065	2B2080	2B20100	2B20125	2B20150	2B20200	2B20250
316L code	4B2015	4B2020	4B2025	4B2032	4B2040	4B2050	4B2065	4B2080	4B20100	4B20125	4B20150	4B20200	4B20250

4WN - Weld-neck flange - Type 11/B - RF ANSI 300

DN	15	20	25	32	40	50	65	80	100
316L code	4WN5015	4WN5020	4WN5025	4WN5032	4WN5040	4WN5050	4WN5065	4WN5080	4WN50100

4SO - Hubbed slip-on flange for welding - Type 12/B - RF ANSI 300

DN	15	20	25	32	40	50	65	80	100	125	150	200
316L code	4SO5015	4SO5020	4SO5025	4SO5032	4SO5040	4SO5050	4SO5065	4SO5080	4SO50100	4SO50125	4SO50150	4SO50200

4LJ - Lap joint flange - FF ANSI 300

DN	15	20	25	32	40	50	65	80	100
304L code	4LJ5015	4LJ5020	4LJ5025	-	4LJ5040	4LJ5050	-	4LJ5080	4LJ50100

4B - Blind flange - Type 05/B - RF ANSI300

DN	15	20	25	32	40	50	65	80	100	125	150	200
316L code	4B5015	4B5020	4B5025	4B5032	4B5040	4B5050	4B5065	4B5080	4B50100	-	4B50150	4B50200

Flange sets & accessories

Flange sets

Includes: 2100/2101 series flanges, gaskets (when applies), bolts or screws.

ref.	valve type	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
2130	2 way PN16 valve	code	2130015	2130020	2130025	2130032	2130040	2130050	2130065	2130080	2130100	2130125	2130150	2130200	-	-
2130	2 way PN10 valve	code	2130015	2130020	2130025	2130032	2130040	2130050	2130065	2130080	2130100	2130125	2130150	2131200	-	-
2132	3 way PN16 valve	code	-	-	-	-	-	2132050	2132065	2132080	2132100	2132125	2132150	2132200	-	-
2150	expansion joint	code	-	-	-	2150032	2150040	2150050	2150065	2150080	2150100	2150125	2150150	2150200	2150250	2150300
2104	check valve 364 type EN 558 series 97	code	-	-	-	-	2104040	2104050	2104065	2104080	2104100	2104125	2104150	2104200	2104250	2104300
2102	check valve 370 type EN 558 series 50	code	-	-	-	-	-	2102050	2102065	2102080	2102100	2102125	2102150	2102200	2102250	2102300
2112	wafer butterfly valve	code	-	-	-	-	2112040	2112050	2112065	2112080	2112100	2112125	2112150	2112200	2112250	2112300
2113	lug butterfly valve	code	-	-	-	2113032	2113040	2113050	2113065	2113080	2113100	2113125	2113150	2113200	2113250	2113300
2134	knife gate valve	code	-	-	-	-	-	2134050	2134065	2134080	2134100	2134125	2134150	2134200	2134250	2134300

Flange gaskets

Universal: water, oil, steam, gas / TS: 150°C - **CSA 50:** air, water, steam < 150°C / TS: 190°C - **CSA 25:** air, hot water / TS: 150°C - **CSA 120:** steam / TS: 250°C - **PTFE:** hydrocarbons / TS: 180°C - **Graphoil:** high temperature & high pressure / TS: 450°C / PS: 120 bar.

DN	10	15	20	25	32	40	50	65	80	100	125	150	200	250	300
universal code	-	9802104	9802105	9802106	9802107	9802108	9802109	9802110	9802111	9802112	9802113	9802114	9802115	9802116	9802117
CSA 50 code	JCSA10	JCSA15	JCSA20	JCSA25	JCSA32	JCSA40	JCSA50	JCSA65	JCSA80	JCSA100	JCSA125	JCSA150	JCSA200	-	JCSA300
CSA 25 code	JB10	JB15	JB20	JB25	JB32	JB40	JB50	JB65	JB80	JB100	JB125	JB150	JB200	JB250	JB300
CSA 120 code	JCSC10	JCSC15	JCSC20	JCSC25	JCSC32	JCSC40	JCSC50	JCSC65	JCSC80	JCSC100	JCSC125	JCSC150	JCSC200	JCSC250	JCSC300
PTFE code	JPTFE10	JPTFE15	JPTFE20	JPTFE25	JPTFE32	JPTFE40	JPTFE50	JPTFE65	JPTFE80	JPTFE100	JPTFE125	JPTFE150	JPTFE200	JPTFE250	JPTFE300
graphoil code	JGRAF10	JGRAF15	JGRAF20	JGRAF25	JGRAF32	JGRAF40	JGRAF50	JGRAF65	JGRAF80	JGRAF100	JGRAF125	JGRAF150	JGRAF200	-	-

DN	350	400	500
CSA 25 code	JB350	JB400	JB500

Carbon steel bolt sets

ref.	valve type	DN	15	20	25	32	40	50	65	80	100	125	150	200	200	250	300
2103	PN16 valve	number of bolts	8	8	8	8	8	8	16	16	16	16	16	24	16 (PN10)		
		Ø x L (mm)	12x50	12x50	12x50	16x50	16x60	16x60	16x60	16x60	16x60	16x70	20x70	20x70	20x70		
		code	2103025	2103025	2103025	2103032	2103050	2103050	2103100	2103100	2103100	2103125	2103150	2103200	2103201	-	-
2110	wafer butterfly valve PN10/16 up to DN125, PN10 above	number of bolts					4	4	8	8	8	8	8	8		12	12
		Ø x L (mm)					16x90	16x100	16x110	16x110	16x120	16x130	20x140	20x140		20x160	20x160
		code	-	-	-	-	2110040	2110050	2110080	2110080	2110100	2110125	2110200	2110200	-	2110300	2110300
2111	lug butterfly valve PN10/16 up to DN125, PN10 above	number of bolts					8	8	16	16	16	16	16	16		24	24
		Ø x L (mm)					16x30	16x35	16x40	16x40	16x40	16x45	20x45	20x45		20x50	20x60
		code	-	-	-	-	2111040	2111050	2111100	2111100	2111100	2111125	2111200	2111200	-	2111250	2111300

Stainless steel bolt sets

ref.	flange type	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
KB10	for PN10 flanges	number of bolts	4	4	4	4	4	4	8	8	8	8	8	8	12	12	16	16
		diameter	M12	M12	M12	M16	M16	M16	M16	M16	M16	M16	M20	M20	M20	M20	M20	M24
		L (mm)	45	50	50	50	50	50	60	60	60	70	80	80	80	80	90	100
		code	KB1015	KB1020	KB1025	KB1032	KB1040	KB1050	KB1065	KB1080	KB10100	KB10125	KB10150	KB10200	KB10250	KB10300	KB10350	KB10400
KB16	for PN16 flanges	number of bolts	4	4	4	4	4	4	8	8	8	8	8	12	12	12	16	16
		diameter	M12	M12	M12	M16	M16	M16	M16	M16	M16	M16	M20	M20	M24	M24	M24	M27
		L (mm)	45	50	50	50	50	50	60	60	60	70	80	80	90	90	100	100
		code	KB1015	KB1020	KB1025	KB1032	KB1040	KB1050	KB1065	KB1080	KB10100	KB10125	KB10150	KB16200	KB16250	KB16300	KB16350	KB16400
KB40	for PN40 flanges	number of bolts	4	4	4	4	4	4	4	8	8	8	8	8	12	12	16	16
		diameter	M12	M12	M12	M16	M16	M16	M16	M16	M20	M24	M24	M27	M30	M30	M33	M36
		L (mm)	50	55	55	60	60	60	70	70	80	90	90	90	100	100	120	140
		code	KB4015	KB4020	KB4025	KB4032	KB4040	KB4050	KB4065	KB4080	KB40100	KB40125	KB40150	KB40200	KB40250	KB40300	KB40350	KB40400

Cam-lock couplings

Brass BSP

Individual packing

Excluded from 2014/68/EU Directive (art. 4, §3) - MIL-C-27487 & A-A-59326 - For all common fluids - Brass body - Brass cams - NBR gasket (for coupling) - PS: see table below - TS: -10°C/+80°C.

Max. allowable pressure

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
bar	11	16	16	16	16	16	11	9	7

2261 - Female adaptor A

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2261004	2261005	2261006	2261007	2261008	2261009	2261010	2261011	2261012

2262 - Male coupling B

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2262004	2262005	2262006	2262007	2262008	2262009	2262010	2262011	2262012

2263 - Hose coupling C

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2263004	2263005	2263006	2263007	2263008	2263009	2263010	2263011	2263012

2264 - Female coupling D

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2264004	2264005	2264006	2264007	2264008	2264009	2264010	2264011	2264012

2265 - Hose adaptor E

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2265004	2265005	2265006	2265007	2265008	2265009	2265010	2265011	2265012

2266 - Male adaptor F

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2266004	2266005	2266006	2266007	2266008	2266009	2266010	2266011	2266012

2267 - Cap coupling DC

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2267004	2267005	2267006	2267007	2267008	2267009	2267010	2267011	2267012

2268 - Plug adaptor DP

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2268004	2268005	2268006	2268007	2268008	2268009	2268010	2268011	2268012

Spare gaskets for cam-lock couplings B, C, D & DC

(brass, aluminium or stainless steel)

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
EPDM code	9830850	9830851	9830852	9830853	9830854	9830855	9830856	9830857	9830858
NBR code	9830860	9830861	9830862	9830863	9830864	9830865	9830866	9830867	9830868
FKM code	9830870	9830871	9830872	9830873	9830874	9830875	9830876	9830877	9830878

Aluminium BSP

Individual packing

Excluded from 2014/68/EU Directive (art. 4, §3) - MIL-C-27487 & A-A-59326 - For all common fluids - Aluminium body - Brass cams - NBR gasket (for coupling) - PS: see table below - TS: -10°C/+80°C.

Max. allowable pressure

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
bar	11	16	16	16	16	16	11	9	7

2201 - Female adaptor A

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2201004	2201005	2201006	2201007	2201008	2201009	2201010	2201011	2201012

2202 - Male coupling B

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2202004	2202005	2202006	2202007	2202008	2202009	2202010	2202011	2202012

2203 - Hose coupling C

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2203004	2203005	2203006	2203007	2203008	2203009	2203010	2203011	2203012

2204 - Female coupling D

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2204004	2204005	2204006	2204007	2204008	2204009	2204010	2204011	2204012

2205 - Hose adaptor E

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2205004	2205005	2205006	2205007	2205008	2205009	2205010	2205011	2205012

2206 - Male adaptor F

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2206004	2206005	2206006	2206007	2206008	2206009	2206010	2206011	2206012

2207 - Cap coupling DC

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2207004	2207005	2207006	2207007	2207008	2207009	2207010	2207011	2207012

2208 - Plug adaptor DP

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2208004	2208005	2208006	2208007	2208008	2208009	2208010	2208011	2208012

Stainless steel CF8M BSP

Individual packing

Excluded from 2014/68/EU Directive (art. 4, §3) - MIL-C-27487 & A-A-59326 - For all common fluids - Stainless steel CF8M body & cams - NBR gasket (for coupling) - PS: see table below - TS: -10°C/+80°C.

Max. allowable pressure

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
bar	11	18	18	18	18	18	16	14	14

2241 - Female adaptor A

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2241004	2241005	2241006	2241007	2241008	2241009	2241010	2241011	2241012

2242 - Male coupling B

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2242004	2242005	2242006	2242007	2242008	2242009	2242010	2242011	2242012

2243 - Hose coupling C

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2243004	2243005	2243006	2243007	2243008	2243009	2243010	2243011	2243012

2244 - Female coupling D

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2244004	2244005	2244006	2244007	2244008	2244009	2244010	2244011	2244012

2245 - Hose adaptor E

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2245004	2245005	2245006	2245007	2245008	2245009	2245010	2245011	2245012

2246 - Male adaptor F

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2246004	2246005	2246006	2246007	2246008	2246009	2246010	2246011	2246012

2247 - Cap coupling DC

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2247004	2247005	2247006	2247007	2247008	2247009	2247010	2247011	2247012

2248 - Cap adaptor DP

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	2248004	2248005	2248006	2248007	2248008	2248009	2248010	2248011	2248012

Stainless steel 316 BW

NEW

Excluded from 2014/68/EU Directive (art. 4, §3) - MIL-A-59326 - EN 14420-7 - For all common fluids - Stainless steel 316 body - Stainless steel 304 cams - NBR gasket (for coupling) - PS: see table above - TS: -10°C/+80°C.

RCABW – Welding adaptor

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	RCABW15	RCABW20	RCABW25	RCABW32	RCABW40	RCABW50	RCABW65	RCABW80	RCABW100

RCCBW – Welding coupling

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	RCCBW15	RCCBW20	RCCBW25	RCCBW32	RCCBW40	RCCBW50	RCCBW65	RCCBW80	RCCBW100

Polypropylene BSP

Individual packing

Excluded from 2014/68/EU Directive (art. 4, §3) - MIL-C-27487 & A-A-59326 - Fiberglass reinforced PP body - EPDM gasket - F304 cams - PS: 6 bar - TS: 0°C/+70°C.

Female adaptor A

DN	15	20	25	32	40	50	80	100
Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	3"	4"
code	2211004	2211005	2211006	2211007	2211008	2211009	2211011	2211012

Male coupling B

DN	15	20	25	32	40	50	80	100
Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	3"	4"
code	2212004	2212005	2212006	2212007	2212008	2212009	2212011	2212012

Hose coupling C

DN	15	20	25	32	40	50	80	100
Ø (mm)	20	25	32	40	50	63	90	110
code	2213004	2213005	2213006	2213007	2213008	2213009	2213011	2213012

Female coupling D

DN	15	20	25	32	40	50	80	100
Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	3"	4"
code	2214004	2214005	2214006	2214007	2214008	2214009	2214011	2214012

Hose adaptor E

DN	15	20	25	32	40	50	80	100
Ø (mm)	20	25	32	40	50	63	90	110
code	2215004	2215005	2215006	2215007	2215008	2215009	2215011	2215012

Male adaptor F

DN	15	20	25	32	40	50	80	100
Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	3"	4"
code	2216004	2216005	2216006	2216007	2216008	2216009	2216011	2216012

Cap coupling DC

DN	15	20	25	32	40	50	80	100
code	2217004	2217005	2217006	2217007	2217008	2217009	2217011	2217012

Cap adaptor DP

DN	15	20	25	32	40	50	80	100
code	2218004	2218005	2218006	2218007	2218008	2218009	2218011	2218012

Guillemin symmetrical couplings

Aluminium BSP

Individual packing

NF-EN 29572 - For irrigation, fire network, hydrocarbon & common fluids - Aluminium body - White NBR gasket - PS: 16 bar - TS: -10°C/+80°C.

2410 - Hose coupling

Ø	20/25	25/30	32/35	40/40	40/45	50/55	65/70	80/90	100/110	100/105	150/152
code	2410020	2410025	2410032	2410040	2410041	2410050	2410065	2410080	2410100	2410101	2410150

2411 - Hose coupling

Ø	50/51	65/63	80/76	80/81	100/102
code	2411050	2411065	2411080	2411081	2411100

2416 - Female coupling without lock

Ø	20	25	32	40	50	65	80	100
code	2416020	2416025	2416032	2416040	2416050	2416065	2416080	2416100

2415 - Male coupling without lock

Ø	20	25	32	40	50	65	80	100
code	2415020	2415025	2415032	2415040	2415050	2415065	2415080	2415100

2414 - Female coupling with lock

Ø	20	25	32	40	50	65	80	100	150
code	2414020	2414025	2414032	2414040	2414050	2414065	2414080	2414100	2414150

2413 - Male coupling with lock

Ø	20	25	32	40	50	65	80	100	150
code	2413020	2413025	2413032	2413040	2413050	2413065	2413080	2413100	2413150

2417 - Cap with lock

Ø	20	25	32	40	50	65	80	100	150
code	2417020	2417025	2417032	2417040	2417050	2417065	2417080	2417100	2417150

2412 - Reduced coupling with lock

Ø	40/20	40/25	40/32	50/25	50/32	50/40	65/40	65/50	80/40	80/50	80/65
code	2412040	2412041	2412042	2412050	2412051	2412053	2412065	2412066	2412080	2412081	2412082

Ø	100/40	100/50	100/65	100/80	150/100
code	2412100	2412101	2412102	2412103	2412150

Spare gaskets for Guillemin symmetrical couplings

DN	20	25	32	40	50	65	80	100
WHITE EPDM code	9830837	9830830	9830831	9830832	9830833	9830834	9830835	9830836
WHITE NBR code	9830820	9830821	9830822	9830823	9830824	9830825	9830826	9830827
FKM code	9830847	9830840	9830841	9830842	9830843	9830844	9830845	9830846

Stainless steel CF8M BSP

Individual packing

NF-EN 29572 - For irrigation, fire network, hydrocarbon & common fluids - Stainless steel CF8M body - FKM gasket - PS: 16 bar - TS: -10°C/+180°C.

2420 - Hose coupling

Ø	20/25	25/30	32/35	40/45	50/55	65/70	80/90	100/110
code	2420020	2420025	2420032	2420040	2420050	2420065	2420080	2420100

2421 - Hose coupling

Ø	40/40	50/51	65/63	80/76	100/102
code	2421040	2421050	2421065	2421080	2421100

2426 - Female coupling without lock

Ø	20	25	32	40	50	65	80	100
code	2426020	2426025	2426032	2426040	2426050	2426065	2426080	2426100

2425 - Male coupling without lock

Ø	20	25	32	40	50	65	80	100
code	2425020	2425025	2425032	2425040	2425050	2425065	2425080	2425100

2424 - Female coupling with lock

Ø	20	25	32	40	50	65	80	100
code	2424020	2424025	2424032	2424040	2424050	2424065	2424080	2424100

2423 - Male coupling with lock

Ø	20	25	32	40	50	65	80	100
code	2423020	2423025	2423032	2423040	2423050	2423065	2423080	2423100

2428 - Welding with lock

Ø	15	20	25	32	40	50	65	80	100
code	2428015	2428020	2428025	2428032	2428040	2428050	2428065	2428080	2428100

2427 - Cap with lock

Ø	20	25	32	40	50	65	80	100
code	2427020	2427025	2427032	2427040	2427050	2427065	2427080	2427100

2429 - Cap without lock

Ø	25	32	40	50	65	80	100
code	2429025	2429032	2429040	2429050	2429065	2429080	2429100

2422 - Reduced coupling with lock

Ø	50/40	65/40	65/50	80/50	80/65	100/40	100/50	100/65	100/80
code	2422053	2422065	2422066	2422081	2422082	2422100	2422101	2422102	2422103

Single spanner wrench - steel
(for DN20 to DN65)

code
9830897

Universal spanner wrench - steel
(for DN20 to DN115)

code
9830898

Express fittings - NF standard

Individual packing

Excluded from 2014/68/EU Directive (art. 4, §3) - For water & compressed air - Distance between claws: 41 mm - NFE 29573 - Brass body -
⚠ **Not compatible with DIN standard.**

Brass - Without gasket

PS: 10 bar - TS: -5°C/+60°C.

2285 - Hose coupling

Ø	7	9	11	13	16	19	22	25
code	2285007	2285009	2285011	2285013	2285016	2285019	2285022	2285025

2286 - Male coupling BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4
code	2286002	2286003	2286004	2286005	2286006	2286007

2287 - Female coupling BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4
code	2287002	2287003	2287004	2287005	2287006	2287007

2288 - Cap coupling

for all references	
code	2288001

Mandatory packing applies

Brass - With NBR gasket

PS: 10 bar - TS: -5°C/+60°C.

2280 - Hose coupling

Ø	7	9	11	13	16	19	22	25
pack	10	10	10	10	10	10	10	10
code	2280007	2280009	2280011	2280013	2280016	2280019	2280022	2280025

Spare gasket Ø 22 - NBR

for all references	
pack	10
code	9830984

2281 - Male coupling BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4
pack	10	10	10	10	10	10
code	2281002	2281003	2281004	2281005	2281006	2281007

Spare gasket Ø 16 (reduced hole) - NBR

for all references	
pack	10
code	9830983

2282 - Female coupling BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4
pack	10	10	10	10	10	10
code	2282002	2282003	2282004	2282005	2282006	2282007

2283 - Cap coupling

for all references	
pack	10
code	2283001

98440 - Claw clamp

Ref.	15	17	20	23	26	29	32	36	38
Ø ext.	14-16	16-18	19-21	22-24	25-27	28-30	31-33	34-37	37-39
Ø int.	7	9	10	11	13	16-19	19	22	25
code	9844015	9844017	9844020	9844023	9844026	9844029	9844032	9844036	9844038

Individual packing

Excluded from 2014/68/EU Directive (art. 4, §3) - For all common fluids - Distance between claws: 41 mm - NFE 29573 - Stainless steel CF8M body -
⚠ **Not compatible with DIN standard.**

Stainless steel CF8M - With FKM gasket

PS: 10 bar - TS: -5°C/+150°C.

2290 - Hose coupling

Ø	16	19	25
code	2290016	2290019	2290025

2291 - Male coupling BSP

Ø	1/2"	3/4"	1"
code	2291004	2291005	2291006

2292 - Female coupling BSP

Ø	1/2"	3/4"	1"
code	2292004	2292005	2292006

2293 - Cap coupling

for all references	
code	2293001

Spare gasket Ø 15 - FKM

for all references	
code	9830986

Flange adaptors & couplings

Excluded from 2014/68/EU Directive (article 1, §2.b) - Construction acc. to EN 14525 - For water supply & distribution networks - Flanged PN10/16 - GGG50 body - Epoxy coating 250 µm - EPDM gasket - Geomet 500 coated bolting - PS: 16 bar (except 2507 & 2509: see table) - TS: 0°C/+60°C.

Couplings

2505 - Universal coupling for rigid pipes

Suitable for rigid pipes, such as cast iron, carbon steel, PVC, asbestos cement. ⚠ **Not suitable for PE pipes.**

Ø ext. min.	58	68	84	109	133	157	177	194	218	242	266	280	302
Ø ext. max.	74	84	105	133	157	183	201	215	242	268	291	305	327
length (mm)	200	200	200	210	210	230	230	230	250	250	250	275	275
code	2505050	2505065	2505080	2505100	2505125	2505150	2505151	2505200	2505201	2505250	2505251	2505252	2505300

Ø ext. min.	324	351	386	410	436
Ø ext. max.	350	378	410	436	462
length (mm)	290	290	290	290	290
code	2505301	2505350	2505351	2505400	2505401

2507 - Universal coupling

Suitable for rigid pipes, such as cast iron, carbon steel, PVC, PE-HD, asbestos cement - With mechanical locking ring to avoid axial movement of the pipes.

Ø ext. min.	46	70	88	108	133	159	200	250	315
Ø ext. max.	70	95	123	143	168	194	235	285	350
PS (bar)	16	16	16	16	16	16	16	10	10
length (mm)	240	240	250	250	260	260	295	305	315
code	2507050	2507065	2507080	2507100	2507125	2507150	2507200	2507250	2507300

2508 - Coupling for PVC & PE pipes

Suitable for PVC-U & PE-HD pipes - With mechanical locking ring to avoid axial movement of the pipes.

Ø ext.	63	75	90	110	125	140	160	180	200	225	250	280	315
length (mm)	200	200	200	200	200	200	200	200	220	290	290	290	320
code	2508063	2508075	2508090	2508110	2508125	2508140	2508160	2508180	2508200	2508225	2508250	2508280	2508315

Flange adaptors

2501 - Universal flange adaptor with stop for rigid pipes

Suitable for rigid pipes, such as cast iron, carbon steel, PVC, asbestos cement. ⚠ **Not suitable for PE pipes.**

DN	50	60-65	80	100	125	150	200	200	250	250	250	300	300
Ø ext. min.	58	68	84	109	133	157	194	218	242	266	280	302	324
Ø ext. max.	74	84	105	133	157	183	215	242	268	291	305	327	350
length (mm)	160	160	160	160	185	185	185	185	185	185	190	190	210
code	2501050	2501060	2501080	2501100	2501125	2501150	2501200	2501201	2501250	2501251	2501252	2501300	2501301

DN	350	350	400	400	400
Ø ext. min.	352	386	386	410	436
Ø ext. max.	378	410	410	436	462
length (mm)	210	210	230	230	230
code	2501350	2501351	2501400	2501401	2501402

2509 - Flange adaptor

Suitable for rigid pipes, such as cast iron, carbon steel, PVC, PE-HD, asbestos cement - With mechanical locking ring to avoid axial movement of the pipes.

DN	50	60-65	80	100	125	150	200	250	300
Ø ext. min.	46	70	88	108	133	159	200	250	315
Ø ext. max.	70	95	123	143	168	194	235	285	350
PS (bar)	16	16	16	16	16	16	16	10	10
length (mm)	170	195	215	225	225	225	245	265	275
code	2509050	2509065	2509080	2509100	2509125	2509150	2509200	2509250	2509300

2503 - Flange adaptor for PVC & PE pipes

Suitable for PVC-U & PE-HD pipes - With mechanical locking ring to avoid axial movement of the pipes.

DN	50-65	60-65	80	100	125	125	150	150	200	200	250	250	300
Ø ext.	63	75	90	110	125	140	160	180	200	225	250	280	315
length (mm)	130	130	130	130	130	130	140	132	140	180	180	180	180
code	2503063	2503075	2503090	2503110	2503125	2503140	2503160	2503180	2503200	2503225	2503250	2503280	2503315

Flanges

2504 - Flange for PVC pipes PN10/16

Suitable for PVC pipes.

DN	50-60-65	60-65	80	80	100	125	125	150	200	200	250	300	400
Ø ext.	63	75	75	90	110	125	140	160	200	225	250	315	400
length (mm)	54	57	58	65	67	67	73	73	88	91	91	108	132
code	2504064	2504075	2504076	2504090	2504110	2504125	2504140	2504160	2504200	2504225	2504250	2504315	2504400

2502 - Flange for PVC & PE pipes PN10/16

Suitable for PVC, PVC-O & PE pipes - With mechanical locking ring to avoid axial movement of the pipes.

DN	60-65	60-65	80	100	125	125	150	200	200	250	300	400
Ø ext.	63	75	90	110	125	140	160	200	225	250	315	400
length (mm)	54	57	65	67	67	73	73	88	91	91	108	132
code	2502064	2502075	2502090	2502110	2502125	2502140	2502160	2502200	2502225	2502250	2502315	2502400

2510 - Studded reduction flange

PN10/16 up to DN200, PN10 above - PS: 10 bar for PN10 flanges, 16 bar for PN16 flanges.
DSA: Double studded adaptor / **SSA:** Single studded adaptor

DN	60	60	65	80	80	80	80	100	100	100	100	125
DN1	40	50	40	40	50	60	65	40	60	65	80	60
type	DSA	DSA	DSA	DSA	DSA	DSA	DSA	DSA	DSA	DSA	DSA	DSA
code	2510060	2510061	2510065	2510080	2510081	2510082	2510083	2510100	2510102	2510103	2510104	2510125

DN	125	125	125	150	150	150	150	150	200	200	200	200
DN1	65	80	100	60	65	80	100	125	60	65	80	100
type	DSA	DSA	DSA	SSA	SSA	SSA	DSA	DSA	SSA	SSA	SSA	SSA
code	2510126	2510127	2510128	2510150	2510151	2510152	2510153	2510154	2510200	2510201	2510202	2510203

DN	200	200	200/16	250	250	300	300
DN1	125	150	150	150	200	200	250
type	SSA	DSA	DSA	SSA	DSA	SSA	DSA
code	2510204	2510205	2510206	2510250	2510251	2510300	2510301

2514 - Threaded flange RF PN10/16 BSP

PN10/16 - PS: 10 bar for PN10 flanges, 16 bar for PN16 flanges.

DN	40	40	40	40	40	50	50	60/65	60/65	60/65	60/65	80
threaded outlet	3/4"	1"	1"1/4	1"1/2	2"	3/4"	1"	3/4"	1"	1"1/2	2"	3/4"
code	2514041	2514042	2514043	2514044	2514045	2514051	2514052	2514061	2514062	2514064	2514065	2514081

DN	80	80	80	100	100	100	100	125	125	125	150	150
threaded outlet	1"	1"1/2	2"	3/4"	1"	1"1/2	2"	1"	1"1/2	2"	1"	1"1/4
code	2514082	2514084	2514085	2514101	2514102	2514104	2514105	2514127	2514129	2514130	2514152	2514153

DN	150	150	200	200	250	250	300	300
threaded outlet	1"1/2	2"	1"1/2	2"	1"1/2	2"	1"1/2	2"
code	2514154	2514155	2514204	2514205	2514254	2514255	2514304	2514305

2512 - Threaded flange RF PN10/16 - Small thread M40x300

PN10/16 - PS: 10 bar for PN10 flanges, 16 bar for PN16 flanges.

DN	40	50	60/65	80	100	125	150	200	250	300
PN	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16
code	2512040	2512050	2512060	2512080	2512100	2512125	2512150	2512200	2512250	2512300

2513 - Threaded flange RF PN10/16 - Large thread M55x300

PN10/16 - PS: 10 bar for PN10 flanges, 16 bar for PN16 flanges.

DN	40	50	60/65	80	100	125	150	200	250	300
PN	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16
code	2513040	2513050	2513060	2513080	2513100	2513125	2513150	2513200	2513250	2513300

2511 - Blind flange RF PN10/16

PN10/16 - PS: 10 bar for PN10 flanges, 16 bar for PN16 flanges.

DN	40	50	60/65	80	100	125	150	200	250	300
PN	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16
code	2511040	2511050	2511060	2511080	2511100	2511125	2511150	2511200	2511250	2511300

Repair clamps

Excluded from 2014/68/EU Directive (article 1, §2.b) - F304 stainless steel band - Ductile iron clamp - Steel bolts - EPDM (ACS certified) or NBR rubber gasket - PS: see tables - TS: -10°C/+60°C - Suitable for rigid pipes such as cast iron, steel, PVC, low density PE. ⚠ **Do not use on high density PE pipes.**

Repairing

1401 - M Type - 1 bolt - EPDM - Length 80 mm

ext. pipe Ø		PS	code
min.	max.		
21	25	35	1401021
26	30	35	1401026
29	33	35	1401029
33	37	30	1401033
38	42	30	1401038
42	45	25	1401042
48	51	25	1401048
50	54	22	1401050
55	60	22	1401055
60	64	20	1401060
65	69	20	1401065
69	73	20	1401069
71	76	18	1401071
76	82	18	1401076
82	87	15	1401082
87	93	15	1401087
94	100	15	1401094
99	104	15	1401099
105	111	13	1401105
112	118	13	1401112
120	126	13	1401120
126	131	10	1401126
131	136	10	1401131
139	145	10	1401139
156	162	8	1401156
167	173	8	1401167

Repairing for complete break

1403 - B Type - 3 bolts - EPDM - Length 200 mm

ext. pipe Ø		PS	code
min.	max.		
48	56	32	1403048
56	64	31	1403056
60	68	30	1403060
68	78	29	1403068
78	88	28	1403078
88	98	26	1403088
98	108	25	1403098
108	118	23	1403108
114	126	22,5	1403114
126	138	21,5	1403126
138	150	20	1403138
140	153	20	1403140
150	162	19	1403150
162	174	17	1403162
168	182	16,5	1403168
174	186	16	1403174
186	198	15	1403186
198	210	13,5	1403198
210	223	13	1403210
222	234	12	1403222
234	246	11	1403234
243	255	10,5	1403243
273	285	9	1403273

1405 - B Type - 3 bolts - NBR - Length 200 mm

ext. pipe Ø		PS	code
min.	max.		
48	56	32	1405048
56	64	31	1405056
60	68	30	1405060
68	78	29	1405068
78	88	28	1405078
88	98	26	1405088
98	108	25	1405098
108	118	23	1405108
114	126	22,5	1405114
126	138	21,5	1405126
138	150	20	1405138
140	153	20	1405140
150	162	19	1405150
162	174	17	1405162
168	182	16,5	1405168
174	186	16	1405174
186	198	15	1405186
198	210	13,5	1405198
210	223	13	1405210
222	234	12	1405222
234	246	11	1405234
243	255	10,5	1405243
273	285	9	1405273

1406 - D Type (2 piece) - 3 bolts x 2 - EPDM - Length 200 mm

ext. pipe Ø		PS	code
min.	max.		
88	110	26	1406088
114	137	22,5	1406114
138	160	20	1406138
160	182	17	1406160
182	202	15,5	1406182
202	224	13,5	1406202
217	240	12,5	1406217
240	262	10,5	1406240
262	284	9,5	1406262
273	296	9	1406273
296	319	8	1406296
324	346	6,5	1406324
346	368	6	1406346
365	387	5,5	1406365
387	410	4,5	1406387
410	432	4	1406410
428	450	3,5	1406428
450	474	3	1406450
470	492	2,5	1406470
492	516	2,5	1406492

Excluded from 2014/68/EU Directive (article 1, §2.b) - For water supply & distribution networks - Polypropylene body - PS: 12,5 bar - TS: -10°C/+45°C.

1189 - Tapping bridge for PVC & PE pipes

ext. pipe Ø	25	25	32	32	40	40	40	50	50	50	63	63	63	63	63
thread	1/2"	3/4"	1/2"	3/4"	1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"	1"1/4	1"1/2
pack	10/170	10/170	10/170	10/170	5/140	5/140	5/140	5/130	5/130	5/130	5/120	5/120	5/120	5/120	5/120
code	1189254	1189255	1189324	1189325	1189414	1189415	1189416	1189514	1189515	1189516	1189634	1189635	1189636	1189637	1189638

Excluded from 2014/68/EU Directive (article 1, §2.b) - For water supply & distribution networks - Cast iron body - NBR glued gasket - F304 bridge and screws - Suitable for PE, PVC, carbon steel and cast iron pipes - PS: 10 bar - TS: -10°C/+60°C.

1190 - Tapping bridge for universal use

DN	Ø ext.	Threaded outlet							
		1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
30	40-50	1190038	1190039						
40	48-55		1190048	1190049					
50	60-68		1190060	1190061	1190062	1190063			
65	72-80		1190070	1190071	1190072	1190073			
70	76-84		1190076	1190077	1190078	1190079			
80	88-104		1190089	1190090	1190091	1190092	1190093		
90	98-112		1190100	1190101	1190102	1190103			
100	112-126		1190114	1190115	1190116	1190117	1190118		
125	140-154		1190140	1190141	1190142	1190143	1190144		
150	168-184		1190168	1190169	1190170	1190171	1190172	1190173	1190174

Excluded from 2014/68/EU Directive (article 1, §2.b) - Threaded connection acc. to ISO 965 - Forged steel body - Suitable for rigid pipes, such as cast iron, steel, PVC, asbestos cement - Double tightness EPDM gasket - PS: 16 bar - TS: +4°C/+40°C.

2950 - Tapping bridge small thread M40x300
2951 - Tapping bridge large thread M55x300

DN	40	50	60	80	100	125	150	175	200	225	250	275	300
pipe Ø (mm)	50-62	63-74	75-89	90-109	110-135	136-159	160-175	175-211	212-233	234-269	270-290	291-310	311-325
2950 code	2950040	2950050	2950060	2950080	2950100	2950125	2950150	2950175	2950200	2950225	2950250	2950275	2950300
2951 code	-	2951050	2951060	2951080	2951100	2951125	2951150	2951175	2951200	2951225	2951250	2951275	2951300

2956 - Bronze cap

for 2950 & 2951 tapping bridges.

Ø	M40x300	M55x300
code	2956040	2956055

2957 - Bronze reduced bush

for 2950 tapping bridge.

2958 - Bronze reduced bush

for 2951 tapping bridge.

Ø	1/2"	3/4"	1"	1/2"	3/4"	1"
tapping bridge Ø	M40x300	M40x300	M40x300	M55x300	M55x300	M55x300
code	2957004	2957005	2957006	2958004	2958005	2958006

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Food industry

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- SMS standard fittings 298
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What's new!

Rotating ends 3-piece ball valves with UHMWPE seats

p. 289-290

Applications

UTILITIES IN INDIRECT CONTACT
Cleaning water, steam sterilization of lines, cleaning agent

PRODUCTION, TRANSFORMATION PROCESSES
Beverage gasification, steam lines, preservation processes, drying lines, distribution lines, liquified gas freezing, scraping systems, sampling

INGREDIENTS IN DIRECT CONTACT
Raw materials, food gases, additives (flavor enhancers, preservatives), water as ingredient, other ingredients

TRANSPORT & PACKAGING
Tanks, piping, bottling line

© pictograms: Flaticon.com

Food standards

CE 1935

Scope of application
CE 1935/2004 Regulation applies to materials which are intended to come into contact with food or water intended for human consumption. It therefore applies to all food fittings.

WARNING: It does not apply to drinking water distribution networks!

Declaration of conformity and traceability
The traceability of the materials used in the manufacture of food valves is mandatory.
At the end of the manufacturing process, the manufacturer draws up a declaration of conformity to the CE 1935/2004 Regulation delivered with the material and affixes the CE marking on the material.
It is supplemented by another CE Regulation, n°2023/2006 "Good Manufacturing Practices" which is aimed at manufacturers of food equipment including valves.

FDA

Scope of application
U.S. Food and Drug Administration establishes a positive list of substances and materials authorised to come into contact with food. Valve manufacturers can publish a self-declaration that reflects the compatibility of product materials with the food application.

WARNING: The FDA refers to the materials but not to the whole product.

Food standards connections

- SMS threaded acc. to SMS 1145.
- DIN threaded acc. to DIN 11851.
- SMS BW/BW acc. to SMS 3008.
- DIN BW/BW acc. to EN 10357 (DIN 11580).
- SMS BW/male.
- DIN BW/male.
- Clamp.

WARNING: DIN 11851 & SMS 1145 are not interchangeable.

SMS & DIN threaded details

	SMS 1145	DIN 11581
Female coupling	Flat face	Conical face
Male coupling	Turned-up seal	Deep
Seal	Square seal	U-shape seal
Thread	Rounded thread acc. to DIN 405-1	Rounded thread acc. to DIN 405-1

Diameter equivalences for ISO, DIN & SMS standards

	Dimensions for union fittings			Dimensions for welding fittings			Dimensions for clamp fittings		
DN	**SMS 1145**	**DIN 11851 Series 1**	**DIN 11851 Series 2**	**SMS 3008**	**DIN 11850 Series 1**	**DIN 11850 Series 2**	**SMS 3008**	**DIN 32676**	**ISO 1127**
10		12	13		12	13		13	17,2
15		18	19		18	19		19	21,3
20		22	23		22	23		23	26,9
25	25	28	29	25	28	29	25	29	33,7
32		34	35		34	35		35	42,4
40	38	40	41	38	40	41	38	41	48,3
50	51	52	53	51	52	53	51	53	60,3
65	63,5	70	70	63,5	70	70	63,5	70	76,1
80	76,1	85	85	76,1	85	85	76,1	85	88,9
100	101,6	104	104	101,6	104	104	101,6	104	114,3
125		129	129		129	129		129	139,7
150		154	154		154	154		154	168,3
200								254	219,1

Elastomers use conditions

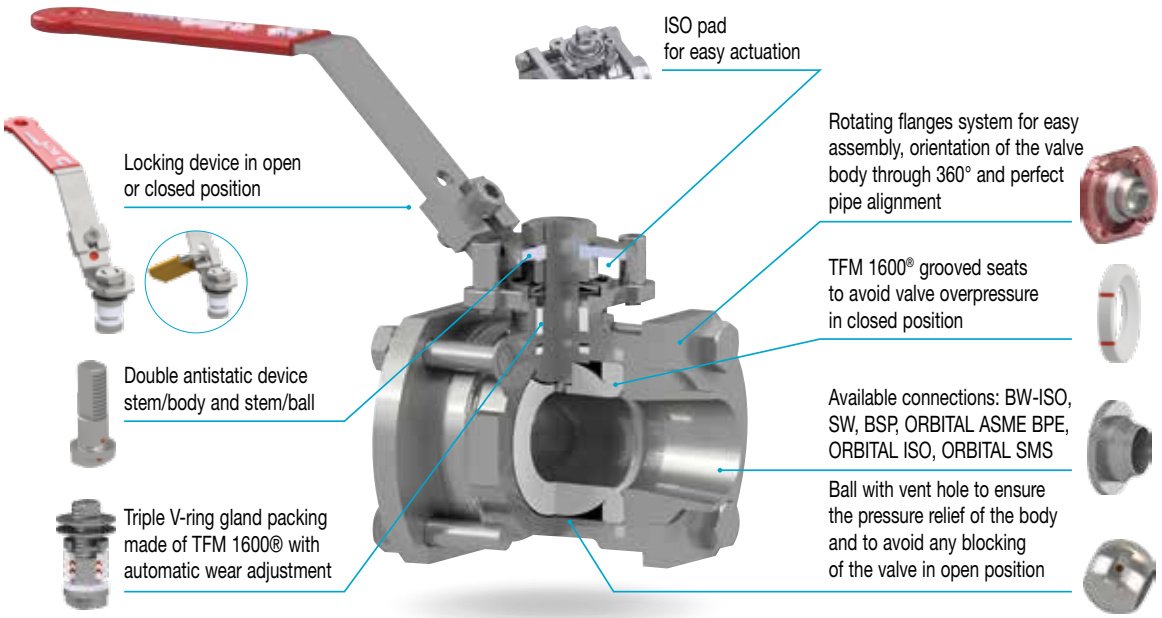
	Temperature	Characteristics	Main use	Not recommended
EPDM	-50°C/+135°C	Black seal - Odourless - Shore hardness A75-80 - Elongation 200% - Excellent resistance to oxidation, light & cold - Very good resistance to acids	Cold & hot water, alkaline products, diluted acids	Fats, oils, hydrocarbons, steam, gases
FKM	-15°C/+250°C	Black seal - Shore hardness A75-80 - Elongation 180% - Exceptional food quality	Food, acids, oils, fats, hydrocarbons, gases	Steam and hot water (max. 130°C), alkaline products
Silicone	-60°C/+180°C	Translucent or red seal - Shore hardness A70 - Elongation 200% - High mechanical proprieties & low friction coefficient	Food, air or inert gases	Steam, hot water (max. 100°C), solvents
NBR	-35°C/+100°C	Blue seal - Shore harndess A80 - Elongation 430% - Very good resistance to oil - Good mechanical properties	Food, animal fats, vegetable oils, abrasive powders	Acids, acetone
PTFE	-200°C/+260°C	White seal - Shore hardness D54-60 - Elongation 240% - Low friction coefficient - High chemical compatibility	Chemicals, oils, steam	Fluorinated compounds

Rotating ends 3-piece ball valves

Guarantee 5 Years

2014/68/EU Directive - Risk category III / module H - Fugitive emissions ISO 15848-1 - SIL 2 (& SIL 3 capable) - 1935/2004 Regulation, FDA - CF3M ball (except for ref. ELBT: 1.4435 ball) - Anti-blowout stem - Double anti-static device - ISO pad - Ball Ra: 0.4 µm - PS: 63 bar up to 1''1/2, 50 bar above - TS: -50°C/+185°C for ELIT / TS: -50°C/+80°C for ELIU.

CE1935 | FDA | SIL | FUGITIVE EMISSIONS | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition



Food application

ELIT - Stainless steel

BW ISO | SW | BSP

1.4409 body - TFM1600 seat & v-ring - Full bore - Ra 0.8 µm.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
BW-ISO code	ELITBW08	ELITBW12	ELITBW15	ELITBW20	ELITBW25	ELITBW32	ELITBW40	ELITBW50
SW code	ELITSW08	ELITSW12	ELITSW15	ELITSW20	ELITSW25	ELITSW32	ELITSW40	ELITSW50
BSP code	ELITBSP08	ELITBSP12	ELITBSP15	ELITBSP20	ELITBSP25	ELITBSP32	ELITBSP40	ELITBSP50

ELITOSMS - Stainless steel - Orbital welding ends

BW SMS BW

1.4409 body - TFM1600 seat & v-ring gland packing - Full bore - Ra 0.8 µm.

Ø	25	38	51	63
SMS code	ELITOSMS25	ELITOSMS38	ELITOSMS51	ELITOSMS63

ELITR - Stainless steel - Reduced bore

BW ISO

1.4409 body - TFM1600 seat & v-ring gland packing - Reduced bore - Ra 0.8 µm.

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
BW-ISO code	ELITBW15R	ELITBW20R	ELITBW25R	ELITBW32R	ELITBW40R	ELITBW50R	ELITBW65R

ELIT - Stainless steel body

1.4409 body - TFM1600 seat & v-ring gland packing - Full bore - Ra 0.8 µm.

Ø	08-12	15	20	25	32	40	50
bore (mm)	11,3	15	20	25,4	32	38,2	50
face to face (mm)	20,3	24,4	31,6	41,4	48,2	56,2	71
code	ELIT0812	ELIT15	ELIT20	ELIT25	ELIT32	ELIT40	ELIT50

NEW

ELIU – Stainless steel

BW ISO | BSP

1.4409 body - UHMWPE seat - Full bore - Ra 0,8 pm.

FUGITIVE EMISSIONS

Ø	1/4"	3/8"	1/2"	3/4"	1"
BW-ISO code	ELIUBW08	ELIUBW12	ELIUBW15	ELIUBW20	ELIUBW25
BSP code	ELIUBSP08	ELIUBSP12	ELIUBSP15	ELIUBSP20	ELIUBSP25

NEW

ELIU - Stainless steel body

1.4409 body - UHMWPE seat - Full bore - Ra 0,8 pm.

Ø	1/4" - 3/8"	1/2"	3/4"	1"
bore (mm)	11,3	15	20	25,4
face to face (mm)	20,3	24,4	31,6	41,4
BSP code	ELIU0812	ELIU15	ELIU20	ELIU25

Pharmaceutical application

ELBT - Stainless steel - Orbital welding ends

BW ORBITAL ISO BW ORBITAL ASME BPE

1.4435 body - Full or reduced bore - Ra 0.4 µm.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
bore (mm)	8	10	15	20	25,4	32	38,2	50
orbital ISO	ELBTOISO08	ELBTOISO12	ELBTOISO15	ELBTOISO20	ELBTOISO25	ELBTOISO32	ELBTOISO40	ELBTOISO50
bore (mm)	8	8	10	15	20	-	32	38,2
orbital BPE	ELBTOBPE08	ELBTOBPE12	ELBTOBPE15	ELBTOBPE20	ELBTOBPE25	-	ELBTOBPE40	ELBTOBPE50

Options

ELVO - Spare oval stainless steel wheel

DN	8	12	15	20	25	32
Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4
for full bore valves	ELVO0812	ELVO0812	ELVO15	ELVO20	ELVO25	-
for reduced bore valves	-	-	ELVO0812	ELVO15	ELVO20	ELVO25

ELRISO - Stem extension with ISO pad

DN	8	12	15	20	25	32	40	50
Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
for full bore valves	ELRISO0812	ELRISO0812	ELRISO15	ELRISO20	ELRISO25	ELRISO32	ELRISO40	ELRISO50
for reduced bore valves	-	-	ELRISO0812	ELRISO15	ELRISO20	ELRISO25	ELRISO32	ELRISO40

ELCF - TFM1600 Cavity filler (2 piece half-casing set)

DN	08-12	15	20	25	32	40	50
Ø	1/4"-3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
for full bore valves	ELCF0812	ELCF15	ELCF20	ELCF25	ELCF32	ELCF40	ELCF50

ELIV - 60° V-port ball

NEW

DN	15	20	25	40	50
Ø	1/2"	3/4"	1"	1"1/2	2"
for full bore valves	ELIV615	ELIV620	ELIV625	ELIV640	ELIV650

Manual valves with limit switch box

APL210

Manual ball valves equipped with limit switch box IP67 - 2 SPDT 250V-5A (see features of limit switch box page 183).

Full bore

SF012

ELIT - Ball valve with APL limit switch box

BW ISO

1.4409 body - Ra 0.8 µm.

Ø	code
3/8"	2711010460000
1/2"	2711020460000
3/4"	2711030460000
1"	2711040460000
1"1/4	2711050460000
1"1/2	2711060460000
2"	2711070460000

also available	BW ISO	SW	BSP
code	27110...	27111...	27112...

ELIT- Ball valve with SF limit switch box

BW ISO

1.4409 body - Ra 0.8 µm.

Ex on request

Ø	code
3/8"	2711010462012
1/2"	2711020462012
3/4"	2711030462012
1"	2711040462012
1"1/4	2711050462012
1"1/2	2711060462012
2"	2711070462012

ELIT - Ball valve with SK limit switch box

BW ISO

1.4409 body - Ra 0.8 µm.

Ex Zones 1,2,21,22 10 €/pc

Ø	code
3/8"	2711010477012
1/2"	2711020477012
3/4"	2711030477012
1"	2711040477012
1"1/4	2711050477012
1"1/2	2711060477012
2"	2711070477012

Reduced bore

APL210

SK012

ELITR - Ball valve with APL limit switch box

1.4409 body - Reduced bore - Ra 0.8 µm.

Ø	code
1/2"	271102R0460000
3/4"	271103R0460000
1"	271104R0460000
1"1/4	271105R0460000
1"1/2	271106R0460000
2"	271107R0460000
2"1/2	271108R0460000

ELITR - Ball valve with SF limit switch box

1.4409 body - Reduced bore - Ra 0.8 µm.

Ø	code
1/2"	271102R0462012
3/4"	271103R0462012
1"	271104R0462012
1"1/4	271105R0462012
1"1/2	271106R0462012
2"	271107R0462012
2"1/2	271108R0462012

on request

ELITR - Ball valve with SK limit switch box

1.4409 body - Reduced bore - Ra 0.8 µm.

Ø	code
1/2"	271102R0477012
3/4"	271103R0477012
1"	271104R0477012
1"1/4	271105R0477012
1"1/2	271106R0477012
2"	271107R0477012
2"1/2	271108R0477012

Zones 1,2,21,22 10 €/pc

Rotating ends 3 piece ball valves

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
All our electric actuated ball valves are equipped with a 230V AC actuator as standard - Other power supply on request, please consult.
⚠ **ΔP max.: 10 bar -** Actuators & automation complements, see pages 174-175.

ELIT - Pneumatic actuated stainless steel ball valve

1.4409 body - Full bore - TS: -50°C/+200°C.

SIL 10 €/pc

ACTREG

double acting		
Ø	actuator	code
1/4"	ADA20	271100015100
3/8"	ADA20	271101015100
1/2"	ADA20	271102015100
3/4"	ADA20	271103015100
1"	ADA20	271104015100
1"1/4	ADA40	271105015101
1"1/2	ADA40	271106015101
2"	ADA80	271107015102

ACTREG

spring return		
Ø	actuator	code
1/4"	ASR40	271100016101
3/8"	ASR40	271101016101
1/2"	ASR40	271102016101
3/4"	ASR40	271103016101
1"	ASR40	271104016101
1"1/4	ASR80	271105016102
1"1/2	ASR80	271106016102
2"	ASR200	271107016104

Alphair

double acting		
Ø	actuator	code
1/4"	RE51	271100017006R
3/8"	RE51	271101017006R
1/2"	RE51	271102017006R
3/4"	RE51	271103017006R
1"	RE51	271104017006R
1"1/4	RE64	271105017007R
1"1/2	RE64	271106017007R
2"	RE76	271107017008R

Alphair

spring return		
Ø	actuator	code
1/4"	RES51	271100017106R
3/8"	RES51	271101017106R
1/2"	RES51	271102017106R
3/4"	RES51	271103017106R
1"	RES64	271104017107R
1"1/4	RES76	271105017108R
1"1/2	RES86	271106017109R
2"	RES101	271107017110R

Alphair

double acting		
Ø	actuator	code
1/4"	RE51 PTFE	271100017036
3/8"	RE51 PTFE	271101017036
1/2"	RE51 PTFE	271102017036
3/4"	RE51 PTFE	271103017036
1"	RE51 PTFE	271104017036
1"1/4	RE64 PTFE	271105017037
1"1/2	RE64 PTFE	271106017037
2"	RE76 PTFE	271107017038

Alphair

spring return		
Ø	actuator	code
1/4"	RES51 PTFE	271100017136
3/8"	RES51 PTFE	271101017136
1/2"	RES51 PTFE	271102017136
3/4"	RES51 PTFE	271103017136
1"	RES64 PTFE	271104017137
1"1/4	RES76 PTFE	271105017138
1"1/2	RES86 PTFE	271106017139
2"	RES101 PTFE	271107017140

also available	BW ISO	SW	BSP
code	27110...	27111...	27112...

PNEUMATIC

PNEUMATIC

ELITR - Pneumatic actuated stainless steel ball valve with reduced bore

1.4409 body - Reduced bore - TS: -50°C/+200°C.

double acting		
Ø	actuator	code
1/2"	ADA20	271102R015100
3/4"	ADA20	271103R015100
1"	ADA20	271104R015100
1"1/4	ADA20	271105R015100
1"1/2	ADA40	271106R015101
2"	ADA40	271107R015101
2"1/2	ADA80	271108R015102

spring return		
Ø	actuator	code
1/2"	ASR40	271102R016101
3/4"	ASR40	271103R016101
1"	ASR40	271104R016101
1"1/4	ASR40	271105R016101
1"1/2	ASR80	271106R016102
2"	ASR80	271107R016102
2"1/2	ASR200	271108R016104

double acting		
Ø	actuator	code
1/2"	RE51	271102R017006R
3/4"	RE51	271103R017006R
1"	RE51	271104R017006R
1"1/4	RE51	271105R017006R
1"1/2	RE64	271106R017007R
2"	RE64	271107R017007R
2"1/2	RE76	271108R017008R

spring return		
Ø	actuator	code
1/2"	RES51	271102R017106R
3/4"	RES51	271103R017106R
1"	RES51	271104R017106R
1"1/4	RES64	271105R017107R
1"1/2	RES76	271106R017108R
2"	RES86	271107R017109R
2"1/2	RES101	271108R017110R

double acting		
Ø	actuator	code
1/2"	RE51 PTFE	271102R017036
3/4"	RE51 PTFE	271103R017036
1"	RE51 PTFE	271104R017036
1"1/4	RE51 PTFE	271105R017036
1"1/2	RE64 PTFE	271106R017037
2"	RE64 PTFE	271107R017037
2"1/2	RE76 PTFE	271108R017038

spring return		
Ø	actuator	code
1/2"	RES51 PTFE	271102R017136
3/4"	RES51 PTFE	271103R017136
1"	RES51 PTFE	271104R017136
1"1/4	RES64 PTFE	271105R017137
1"1/2	RES76 PTFE	271106R017138
2"	RES86 PTFE	271107R017139
2"1/2	RES101 PTFE	271108R017140

ELECTRIC

ELIT - Electric actuated stainless steel ball valve

1.4409 body - Full bore - TS: -50°C/+200°C.

standard on/off execution		
Ø	actuator	code
1/4"	TCR02	271100024110
3/8"	TCR02	271101024110
1/2"	TCR02	271102024110
3/4"	TCR02	271103024110
1"	TCR05	271104024310
1"1/4	TCR05	271105024310
1"1/2	TCR05	271106024310
2"	TCR05	271107024310

standard on/off execution		
Ø	actuator	code
1/4"	SA05	271100023010
3/8"	SA05	271101023010
1/2"	SA05	271102023010
3/4"	SA05	271103023010
1"	SA05	271104023010
1"1/4	SA05	271105023010
1"1/2	SA05	271106023010
2"	SA05	271107023010

ELIT - Electric actuated stainless steel ball valve

1.4409 body - Full bore - TS: -50°C/+200°C.

capacitor return execution		
Ø	actuator	code
1/4"	TCR02-NKT32	271100024120
3/8"	TCR02-NKT32	271101024120
1/2"	TCR02-NKT32	271102024120
3/4"	TCR02-NKT32	271103024120
1"	TCR05-NKT32	271104024320
1"1/4	TCR05-NKT32	271105024320
1"1/2	TCR05-NKT32	271106024320
2"	TCR11-NKT32	271107024620

quick acting execution		
Ø	actuator	code
1/4"	TCR02-NH	271100024130
3/8"	TCR02-NH	271101024130
1/2"	TCR02-NH	271102024130
3/4"	TCR02-NH	271103024130
1"	TCR05-NH	271104024330
1"1/4	TCR05-NH	271105024330
1"1/2	TCR05-NH	271106024330
2"	TCR11-NH	271107024630

also available	BW ISO	SW	BSP
code	2711**0**...	2711**1**...	2711**2**...

fail safe execution		
Ø	actuator	code
1/4"	SA05-SCP	271100023065
3/8"	SA05-SCP	271101023065
1/2"	SA05-SCP	271102023065
3/4"	SA05-SCP	271103023065
1"	SA05-SCP	271104023065
1"1/4	SA05-SCP	271105023065
1"1/2	SA05-SCP	271106023065
2"	SA05-SCP	271107023065

ATEX execution		
Ø	actuator	code
1/4"	SA05-X	271100023310
3/8"	SA05-X	271101023310
1/2"	SA05-X	271102023310
3/4"	SA05-X	271103023310
1"	SA05-X	271104023310
1"1/4	SA05-X	271105023310
1"1/2	SA05-X	271106023310
2"	SA05-X	271107023310

Ex Zones 1,2,21,22 10 €/pc

ELITR - Electric actuated stainless steel ball valve with reduced bore

1.4409 body - Reduced bore - TS: -50°C/+200°C.

standard on/off execution		
Ø	actuator	code
1/2"	TCR02	271102R024110
3/4"	TCR02	271103R024110
1"	TCR02	271104R024110
1"1/4	TCR05	271105R024310
1"1/2	TCR05	271106R024310
2"	TCR05	271107R024310
2"1/2	TCR05	271108R024310

capacitor return execution		
Ø	actuator	code
1/2"	TCR02-NKT32	271102R024120
3/4"	TCR02-NKT32	271103R024120
1"	TCR02-NKT32	271104R024120
1"1/4	TCR05-NKT32	271105R024320
1"1/2	TCR05-NKT32	271106R024320
2"	TCR05-NKT32	271107R024320
2"1/2	TCR11-NKT32	271108R024620

quick acting execution		
Ø	actuator	code
1/2"	TCR02-NH	271102R024130
3/4"	TCR02-NH	271103R024130
1"	TCR02-NH	271104R024130
1"1/4	TCR05-NH	271105R024330
1"1/2	TCR05-NH	271106R024330
2"	TCR05-NH	271107R024330
2"1/2	TCR11-NH	271108R024630

standard on/off execution		
Ø	actuator	code
1/2"	SA05	271102R023010
3/4"	SA05	271103R023010
1"	SA05	271104R023010
1"1/4	SA05	271105R023010
1"1/2	SA05	271106R023010
2"	SA05	271107R023010
2"1/2	SA05	271108R023010

fail safe execution		
Ø	actuator	code
1/2"	SA05-SCP	271102R023065
3/4"	SA05-SCP	271103R023065
1"	SA05-SCP	271104R023065
1"1/4	SA05-SCP	271105R023065
1"1/2	SA05-SCP	271106R023065
2"	SA05-SCP	271107R023065
2"1/2	SA05-SCP	271108R023065

ATEX execution		
Ø	actuator	code
1/2"	SA05-X	271102R023310
3/4"	SA05-X	271103R023310
1"	SA05-X	271104R023310
1"1/4	SA05-X	271105R023310
1"1/2	SA05-X	271106R023310
2"	SA05-X	271107R023310
2"1/2	SA05-X	271108R023310

Ex Zones 1,2,21,22 10 €/pc

Ball valve

2014/68/EU Directive N°0035 - Risk category II / module H - RTFE seats - Full bore - Anti-blowout stem - Antistatic device - Locking device - PS: 63 bar - TS: -20°C/+200°C.

CE 1935 | CE 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

7143 - Stainless steel - Silicone free BSP

CF8M body & ball - Supplied inside sealed bag with caps.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	63	63	63	63	63	63	63	63
code	714302	714303	714304	714305	714306	714307	714308	714309

Butterfly valve

2014/68/EU Directive N°0094 - Risk category III / Module H - Fugitive emissions ISO 15848-1 class BH & TA LUFT VDI 2440 - SIL 2 (& SIL 3 capable) - NACE MR0175 - CF8M body - CF8M polished disc - PTFE seat - ISO pad - PS: see tables - TS: -50°C/+220°C - Supplied with lever up to DN125, supplied with gearbox above.

NACE MR0175 | SIL | FUGITIVE EMISSIONS | CE 1935 | CE 0094 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

1119 - Stainless steel - Wafer - Double offset

Between flanges PN10/40 up to DN100, PN10/16 above & ANSI150

Ø	50	65	80	100	125	150	200	250	300
PS	30	30	30	30	20	20	20	20	20
code	1119050	1119065	1119080	1119100	1119125	1119150	1119200	1119250	1119300

1119L - Stainless steel - Lug - Double offset

Between flanges PN10/16

Ø	50	65	80	100	125	150	200	250	300
PS	16	16	16	16	16	16	16	16	16
PN10 code	-	-	-	-	-	-	1119L200	1119L250	1119L300
PN16 code	1119L050	1119L065	1119L080	1119L100	1119L125	1119L150	1119L201	1119L251	1119L301

Globe valves

2014/68/EU Directive N°0343 - Risk category I / module A - CF8M body - CF8M globe - Metal seat - PS: 16 bar - TS: -20°C/+180°C - ⚠ **Not suitable for steam.**

CE 1935 | CE 0343 | 3.1 see p. 22

485 - Stainless steel - Threaded BSP

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	485004	485005	485006	485007	485008	485009

2014/68/EU Directive N°0035 - Risk category III / module H - Flanged RF PN40/16 - EN 558 series 1 (DIN 3202 F1) - CF8M body - F316 stem & bellow - F316 globe + PTFE plug - Bolted bonnet - Screwed gland pack - PS: 40 bar up to DN50, 16 bar above - TS: -50°C/+200°C.

CE 1935 | CE 0035 | 3.1 see p. 22

472T - Stainless steel - Flanged RF PN40

Non-rising stem & handwheel

DN	15	20	25	32	40	50	65	80	100
face to face	130	150	160	180	200	230	290	310	350
code	472T015	472T020	472T025	472T032	472T040	472T050	472T065	472T080	472T100

Check valves

2014/68/EU Directive N°0035 - Risk category II / module H - CF8M body & piston - PTFE seat - PS: 50 bar - TS: -20°C/+200°C.

CE 1935 | CE 0035 | 3.1 see p. 22

325 - Stainless steel - Piston BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
face to face	57	57	61	70	86	100	111	138	170	195
code	325002	325003	325004	325005	325006	325007	325008	325009	325010	325011

2014/68/EU Directive N°0035 - Risk category II / module H - CF8M body - F316 disc - Metal-metal tightness - PTFE body seats - 3 piece body - All positions - ACS up to 2" - PS: 63 bar - TS: -20°C/+200°C.

CE 1935 | 0035 | 3.1 see p. 22 | Compatible ATEX ZONE no source of ignition

380 - Stainless steel - Spring BSP
381 - Stainless steel - Spring BW
381 ISO - Stainless steel - Spring BW ISO
384 - Stainless steel - Spring NPT
382 - Stainless steel - Spring SW

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
380 code	380002	380003	380004	380005	380006	380007	380008	380009	380010	380011	380012
384 code	384002	384003	384004	384005	384006	384007	384008	384009	-	-	-
381 code	381008	381010	381015	381020	381025	381032	381040	381050	381065	381080	381100
382 code	382008	382010	382015	382020	382025	382032	382040	382050	382065	382080	382100
381 ISO code	381ISO008	381ISO010	381ISO015	381ISO020	381ISO025	381ISO032	381ISO040	381ISO050	381ISO065	381ISO080	381ISO100

2014/68/EU Directive N°0408 - Risk category II / modules A2+C2 - F316 body & disc - Metal-metal tightness - All positions - PS: 40 bar - TS: -60°C/+300°C.

CE1935 | 0408 | 3.1 see p. 22

387 - Stainless steel - Wafer spring

Between flanges PN40

DN	15	20	25	32	40	50	65	80	100
face to face	16,5	20	22	28	32	40	46	50	60
code	387015	387020	387025	387032	387040	387050	387065	387080	387100

Y-strainers

2014/68/EU Directive N°0036 - Risk category II / module A2 - CF8M body - F316 screen - Mesh 1 mm - With draining cap - PS: 16 bar - TS: -50°C/+200°C.

CE 1935 | 0036 | 3.1 see p. 22

230 - Stainless steel - Threaded BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	230002	230003	230004	230005	230006	230007	230008	230009

2014/68/EU Directive N°0035 - Risk category III / module H - Flanged RF PN16 - EN 558 series 1 - CF8M body - F304 screen - PS: 16 bar - TS: -20°C/+200°C.

CE1935 | 0035 | 3.1 see p. 22

240 - Stainless steel - Flanged RF PN16

DN	15	20	25	32	40	50	65	80	100	125	150	200
mesh (mm)	0,8	0,8	0,8	0,8	0,8	0,8	1	1	3	3	3	3
face to face	130	150	160	180	200	230	290	310	350	400	480	600
code	240015	240020	240025	240032	240040	240050	240065	240080	240100	240125	240150	240200

Rubber expansion joints

2014/68/EU Directive N°0056 - Risk category III / module H - Flanged PN10/16 up to DN150, PN10 above - Swiveling flanges - Dichromate zinc plated steel flanges or F316 flanges - Integrated sealing surface with steel wire core - Synthetic fiber reinforcement - Standard length: 130 mm - Axial allowable movement: -30mm/+20mm - Lateral allowable movement: -/+20mm - Main applications: Food and beverage including fats and oils.

CE 1935 | FDA | 0056

1565 - White NBR liner

ECO external cover - PS: 16 bar up to DN150; 10 bar above - TS: -25°C/+90°C.

DN	50	65	80	100	125	150	200	250	300
steel flanges code	1565051	1565066	1565081	1565101	1565126	1565151	1565201	1565251	1565301
F316 flanges code	1565050	1565065	1565080	1565100	1565125	1565150	1565200	1565250	1565300

not on stock, on request. Approx. 3 weeks delivery time.

1560T - EPDM liner - Teflon® inner lining

EPDM external cover - ⚠ **Available movement reduced by 50%** - PS: 6 bar - TS: -35°C/+90°C.

DN	40	50	65	80	100	125	150	200
code	1560042	1560052	1560067	1560082	1560102SF	1560127	1560152	1560202

Butterfly valves

Dimensions acc. to SMS 3008 (for BW ends) or SMS 1145 (for threaded ends) - 304 & 316L body - Silicone seat - **Handle not included**, see page 309 - Ra: 0,8 µm - PS: 10 bar - TS: -33°C/+200°C - ⚠ **Not suitable for steam**.

CE1935 | FDA | 3.1 see p. 22

2SMSVPLL/4SMSVPLL - Stainless steel BW SMS BW

Ø	25	38	51	63	76	101	104
304 code	2SMSVPLL25	2SMSVPLL38	2SMSVPLL51	2SMSVPLL63	2SMSVPLL76	2SMSVPLL101	2SMSVPLL104
316L code	4SMSVPLL25	4SMSVPLL38	4SMSVPLL51	4SMSVPLL63	4SMSVPLL76	4SMSVPLL101	4SMSVPLL104

2SMSVPLM/4SMSVPLM - Stainless steel BW SMS

Ø	25	38	51	63	76	101	104
304 code	2SMSVPLM25	2SMSVPLM38	2SMSVPLM51	2SMSVPLM63	2SMSVPLM76	2SMSVPLM101	2SMSVPLM104
316L code	4SMSVPLM25	4SMSVPLM38	4SMSVPLM51	4SMSVPLM63	4SMSVPLM76	4SMSVPLM101	4SMSVPLM104

2SMSVPMM/4SMSVPMM - Stainless steel SMS

Ø	25	38	51	63	76	104
304 code	2SMSVPMM25	2SMSVPMM38	2SMSVPMM51	2SMSVPMM63	2SMSVPMM76	2SMSVPMM104
316L code	4SMSVPMM25	4SMSVPMM38	4SMSVPMM51	4SMSVPMM63	4SMSVPMM76	4SMSVPMM104

Pneumatic actuated butterfly valves

PNEUMATIC

Our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar min. & 7 bar max. - Air connection: BSP 1/8" - 316L body - IP67 - Room temp.: -10°C/+80°C - TS: -33°C/+200°C -
⚠ **ΔP max.: 10 bar - Supplied disassembled. For mounting, 25 €/pc additional will be invoiced.**

4SMSVPLL - Stainless steel BW SMS BW

double acting	
Ø	code
25	FG4SMSVPLL25DE
38	FG4SMSVPLL38DE
51	FG4SMSVPLL51DE
63	FG4SMSVPLL63DE
76	FG4SMSVPLL76DE
101	FG4SMSVPLL101DE
104	FG4SMSVPLL104DE

spring return	
Ø	code
25	FG4SMSVPLL25SE
38	FG4SMSVPLL38SE
51	FG4SMSVPLL51SE
63	FG4SMSVPLL63SE
76	FG4SMSVPLL76SE
101	FG4SMSVPLL101SE
104	FG4SMSVPLL104SE

also available	BW SMS BW	BW SMS	SMS
code	...VPLL...	...VPLM...	...VPMM...

Our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar min. & 7 bar max. - Air connection: BSP 1/8" - 316L body - IP67 - Control head with inductive detectors PNP 24V DC - 4-20mA - Room temp.: -10°C/+80°C - EPDM seat - TS: -33°C / +125°C.
⚠ **ΔP max.: 10 bar - Supplied mounted and tested.**

2654S - Stainless steel BW SMS BW

Spring return - C-TOP control head	
Ø	code
25	2654S25SECT
38	2654S38SECT
51	2654S51SECT
63	2654S63SECT
76	2654S76SECT
101	2654S91SECT
104	2654S94SECT

Spring return - MINI-TOP control head	
Ø	code
25	2654S25SEMT
38	2654S38SEMT
51	2654S51SEMT

PNEUMATIC

2655S - Stainless steel BW SMS

Spring return - C-TOP control head	
Ø	code
25	2655S25SECT
38	2655S38SECT
51	2655S51SECT
63	2655S63SECT
76	2655S76SECT
104	2655S94SECT

Spring return - MINI-TOP control head	
Ø	code
25	2655S25SEMT
38	2655S38SEMT
51	2655S51SEMT

PNEUMATIC

2656S - Stainless steel SMS

Spring return - C-TOP control head	
Ø	code
25	2656S25SECT
38	2656S38SECT
51	2656S51SECT
63	2656S63SECT
76	2656S76SECT
104	2656S94SECT

Spring return - MINI-TOP control head	
Ø	code
25	2656S25SEMT
38	2656S38SEMT
51	2656S51SEMT

Dimensions acc. to SMS 3008 - 316L body - Ra: 0,8 µm.

FDA 3.1 see p. 22

Check valve

4SMSCLR - Stainless steel BW SMS BW

EPDM seat - PS: 10 bar - TS: -30/+125°C.

Ø	25	38	51	63	76	104
code	4SMSCLR25	4SMSCLR38	4SMSCLR51	4SMSCLR63	4SMSCLR76	4SMSCLR104

Angle strainer

4SMSFLE - Stainless steel BW SMS BW

NBR seat - Mesh 1mm - PS: 5 bar - TS: -20°C/+80°C.

Ø	25	38	51	63	76	104
code	4SMSFLE25	4SMSFLE38	4SMSFLE51	4SMSFLE63	4SMSFLE76	4SMSFLE104

Sight glass

4SMSIC - Stainless steel BW SMS BW

Silicone seat - PS: 10 bar - TS: -30°C/+200°C.

Ø	25	38	51	63	76	104
code	4SMSIC25	4SMSIC38	4SMSIC51	4SMSIC63	4SMSIC76	4SMSIC104

SMS union fittings

Dimensions acc. to SMS 1145 - 304 & 316 body - Ra: 0,8 µm - PS: 30 bar up to Ø38, 20 bar above -
TS: see elastomers use conditions p. 288.

3.1
see p. 22

2SMS/4SMS - Welding 3 piece union

EPDM gasket - TS: -30°C/+125°C.

Ø	25	38	51	63	76	104
304 code	2SMS25	2SMS38	2SMS51	2SMS63	2SMS76	2SMS104
316 code	4SMS25	4SMS38	4SMS51	4SMS63	4SMS76	4SMS104

2SMSML/4SMSML - Welding male part

Ø	25	38	51	63	76	101,6	104
304 code	2SMSML25	2SMSML38	2SMSML51	2SMSML63	2SMSML76	2SMSML101	2SMSML104
316 code	4SMSML25	4SMSML38	4SMSML51	4SMSML63	4SMSML76	4SMSML101	4SMSML104

2SMSBL/4SMSBL - Welding liner

Ø	25	38	51	63	76	101,6	104
304 code	2SMSBL25	2SMSBL38	2SMSBL51	2SMSBL63	2SMSBL76	2SMSBL101	2SMSBL104
316 code	4SMSBL25	4SMSBL38	4SMSBL51	4SMSBL63	4SMSBL76	4SMSBL101	4SMSBL104

2SMSE - Nut

Ø	25	38	51	63	76	104
304 code	2SMSE25	2SMSE38	2SMSE51	2SMSE63	2SMSE76	2SMSE104

2SMSEB - Blank nut with chain

Ø	25	38	51	63	76	104
304 code	2SMSEB25	2SMSEB38	2SMSEB51	2SMSEB63	2SMSEB76	2SMSEB104

4SMSFE - Blank

Ø	25	38	51	63	76	104
316 code	4SMSFE25	4SMSFE38	4SMSFE51	4SMSFE63	4SMSFE76	4SMSFE104

4SMSH - Welding flat sight glass

Ø	25	38	51	63	76	104
316 code	4SMSH25	4SMSH38	4SMSH51	4SMSH63	4SMSH76	4SMSH104

SMSJ - Spare gaskets

Ø	25	38	51	63	76	104
EPDM code	SMSJ25	SMSJ38	SMSJ51	SMSJ63	SMSJ76	SMSJ104
silicone code	SMSJS25	SMSJS38	SMSJS51	SMSJS63	SMSJS76	SMSJS104
FKM code	SMSJV25	SMSJV38	SMSJV51	SMSJV63	SMSJV76	SMSJV104
PTFE code	SMSJT25	SMSJT38	SMSJT51	SMSJT63	SMSJT76	SMSJT104

CE 1935 FDA

SMSCLE - SMS/DIN wrench for nut

Ø	25 to 104
code	SMSCLE

SMS welding fittings BW SMS BW

Dimensions acc. to SMS 3008 - 304 & 316L body - Ra: 0,8 µm.

3.1
see p. 22

4SMSAL - Welding fluted adapter

Ø	25	38	51	63	76	104
316L code	4SMSAL25	4SMSAL38	4SMSAL51	4SMSAL63	4SMSAL76	4SMSAL104

2SMSC15/4SMSC15 - 90° welding bend

Ø	25	38	51	63	76	101,6	104
304 code	2SMSC1525	2SMSC1538	2SMSC1551	2SMSC1563	2SMSC1576	2SMSC15101	2SMSC15104
316L code	4SMSC1525	4SMSC1538	4SMSC1551	4SMSC1563	4SMSC1576	4SMSC15101	4SMSC15104

2SMSC3/4SMSC3 - 90° welding bend 3D straight ends

Ø	25	38	51	63	76	104
304 code	2SMSC325	2SMSC338	2SMSC351	2SMSC363	2SMSC376	2SMSC3104
316L code	4SMSC325	4SMSC338	4SMSC351	4SMSC363	4SMSC376	4SMSC3104

2SMSC1/4SMSC1 - 90° welding bend 1D straight ends

Ø	25	38	51	63	76	104
304 code	2SMSC125	2SMSC138	2SMSC151	2SMSC163	2SMSC176	2SMSC1104
316L code	4SMSC125	4SMSC138	4SMSC151	4SMSC163	4SMSC176	4SMSC1104

2SMSC45/4SMSC45 - 45° welding bend straight ends

Ø	25	38	51	63	76	104
304 code	2SMSC4525	2SMSC4538	2SMSC4551	2SMSC4563	2SMSC4576	2SMSC45104
316L code	4SMSC4525	4SMSC4538	4SMSC4551	4SMSC4563	4SMSC4576	4SMSC45104

4SMSC18 - 180° welding bend straight ends

Ø	25	38	51	63	76	104
316L code	4SMSC1825	4SMSC1838	4SMSC1851	4SMSC1863	4SMSC1876	4SMSC18104

2SMSR/4SMSR - Welding concentric reducer

Ø	38/25	51/25	51/38	63/25	63/38	63/51	76/25	76/38
304 code	2SMSR3825	2SMSR5125	2SMSR5138	2SMSR6325	2SMSR6338	2SMSR6351	2SMSR7625	2SMSR7638
316L code	4SMSR3825	4SMSR5125	4SMSR5138	4SMSR6325	4SMSR6338	4SMSR6351	4SMSR7625	4SMSR7638

Ø	76/51	76/63	101/51	101/63	101/76	104/51	104/63	104/76
304 code	2SMSR7651	2SMSR7663	2SMSR10151	2SMSR10163	2SMSR10176	2SMSR10451	2SMSR10463	2SMSR10476
316L code	4SMSR7651	4SMSR7663	4SMSR10151	4SMSR10163	4SMSR10176	4SMSR10451	4SMSR10463	4SMSR10476

4SMSRPD - Welding concentric reducer straight ends

Ø	38/25	51/25	51/38	63/38	63/51	76/38	76/51	76/63
316L code	4SMSRPD3825	4SMSRPD5125	4SMSRPD5138	4SMSRPD6338	4SMSRPD6351	4SMSRPD7638	4SMSRPD7651	4SMSRPD7663

Ø	104/51	104/63	104/76
316L code	4SMSRPD10451	4SMSRPD10463	4SMSRPD10476

4SMSEXCPD - Welding eccentric reducer straight ends

Ø	38/25	51/25	51/38	63/38	63/51	76/38	76/51	76/63
316L code	4SMSEXCPD3825	4SMSEXCPD5125	4SMSEXCPD5138	4SMSEXCPD6338	4SMSEXCPD6351	4SMSEXCPD7638	4SMSEXCPD7651	4SMSEXCPD7663

Ø	104/51	104/63	104/76
316L code	4SMSEXCPD10451	4SMSEXCPD10463	4SMSEXCPD10476

2SMST/4SMST - Welding tee without sleeve

Ø	25	38	51	63	76	101	104
304 code	2SMST25	2SMST38	2SMST51	2SMST63	2SMST76	2SMST101	2SMST104
316L code	4SMST25	4SMST38	4SMST51	4SMST63	4SMST76	4SMST101	4SMST104

2SMSTM/4SMSTM - Welding tee straight ends

Ø	25	38	51	63	76	104
304 code	2SMSTM25	2SMSTM38	2SMSTM51	2SMSTM63	2SMSTM76	2SMSTM104
316L code	4SMSTM25	4SMSTM38	4SMSTM51	4SMSTM63	4SMSTM76	4SMSTM104

4SMSTR - Welding reducing tee without sleeve

Ø	38-25	51-25	51-38	63,5-25	63,5-38	63,5-51	76-25	76-38
316L code	4SMST3825	4SMST5125	4SMST5138	4SMST6325	4SMST6338	4SMST6351	4SMST7625	4SMST7638

Ø	76-51	76-63	104-51	104-63	104-76
316L code	4SMST7651	4SMST7663	4SMST10451	4SMST10463	4SMST10476

4SMSY - Welding Y

Ø	25	38	51	63	76	104
316L code	4SMSY25	4SMSY38	4SMSY51	4SMSY63	4SMSY76	4SMSY104

SMS pipe accessories

CHAT - Hexagonal articulated welding pipe holder with rod

Ø	25	38	51	63	76	104
code	CHAT25	CHAT38	CHAT51	CHAT63	CHAT76	CHAT104

CHST - Hexagonal articulated welding pipe holder

Ø	25	38	51	63	76	104
code	CHST25	CHST38	CHST51	CHST63	CHST76	CHST104

CH - Hexagonal welding pipe holder

Ø	25	38	51	63	76	104
code	CH25	CH38	CH51	CH63	CH76	CH104

Butterfly valves

Dimensions acc. to EN 10357/DIN 11850 (for BW ends) or DIN 11851 (for threaded ends) - 304 & 316L body - Silicone seat - **Handle not included**, see page 309 - Ra: 0,8 µm - PS: 10 bar - TS: -33°C/+200°C - ⚠ **Not suitable for steam**.

CE1935 | FDA | 3.1 see p. 22

2DINVPLL/4DINVPLL - Stainless steel BW DIN BW

DN	25	32	40	50	65	80	100
Ø	28	34	40	52	70	85	104
304 code	2DINVPLL28	2DINVPLL34	2DINVPLL40	2DINVPLL52	2DINVPLL70	2DINVPLL85	2DINVPLL104
316L code	4DINVPLL28	4DINVPLL34	4DINVPLL40	4DINVPLL52	4DINVPLL70	4DINVPLL85	4DINVPLL104

2DINVPLM/4DINVPLM - Stainless steel BW DIN

DN	25	32	40	50	65	80	100
Ø	28	34	40	52	70	85	104
304 code	2DINVPLM28	2DINVPLM34	2DINVPLM40	2DINVPLM52	2DINVPLM70	2DINVPLM85	-
316L code	4DINVPLM28	4DINVPLM34	4DINVPLM40	4DINVPLM52	4DINVPLM70	4DINVPLM85	4DINVPLM104

4DINVPMM - Stainless steel DIN

DN	25	32	40	50	65	80	100
Ø	28	34	40	52	70	85	104
316L code	4DINVPMM28	4DINVPMM34	4DINVPMM40	4DINVPMM52	4DINVPMM70	4DINVPMM85	4DINVPMM104

Pneumatic actuated butterfly valves

Our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar min. & 7 bar max. - Air connection: 4x6 quick coupling - 316L body - IP67 - Room temp.: -10°C/+80°C - TS: -33°C/+200°C -
⚠ **ΔP max.: 10 bar - Supplied disassembled. For mounting, 25 €/pc additional will be invoiced.**

4DINVPLL - Stainless steel BW DIN BW

double acting		
DN	Ø	code
25	28	FG4DINVPLL28DE
32	34	FG4DINVPLL34DE
40	40	FG4DINVPLL40DE
50	52	FG4DINVPLL52DE
65	70	FG4DINVPLL70DE
80	85	FG4DINVPLL85DE
100	104	FG4DINVPLL104DE

spring return		
DN	Ø	code
25	28	FG4DINVPLL28SE
32	34	FG4DINVPLL34SE
40	40	FG4DINVPLL40SE
50	52	FG4DINVPLL52SE
65	70	FG4DINVPLL70SE
80	85	FG4DINVPLL85SE
100	104	FG4DINVPLL104SE

also available	BW DIN BW	BW DIN	DIN
code	...VPLL...	...VPLM...	...VPMM...

PNEUMATIC

Dimensions acc. to EN 10357 (DIN 11850) - 316L body - Ra: 0,8 µm - PS: 10 bar.

FDA | 3.1 see p. 22

Check valve

4DINCLR - Stainless steel BW DIN BW

EPDM seat - TS: -30°C/+125°C

Ø	28	34	40	52	70	85
code	4DINCLR28	4DINCLR34	4DINCLR40	4DINCLR52	4DINCLR70	4DINCLR85

Sight glass

4DINIC - Stainless steel BW DIN BW

Silicone seat - TS: -30°C/+200°C.

Ø	28	34	40	52	70	85
code	4DINIC28	4DINIC34	4DINIC40	4DINIC52	4DINIC70	4DINIC85

DIN union fittings

Dimensions acc. to DIN 11851 - 304 & 316 body - Ra: 0,8 µm - PS: 40 bar up to Ø32, 25 bar above - TS: see elastomers use conditions p. 288.

3.1
see p. 22

2DIN/4DIN - Welding 3 piece union

NBR gasket - TS: -20°C/+80°C.

DIN series 1												
DN	10	15	20	25	32	40	50	65	80	100	125	150
Ø	15	21	25	31	37	43	55	72	87	106	132	157
304 code	2DIN10	2DIN15	2DIN20	2DIN25	2DIN32	2DIN40	2DIN50	2DIN65	2DIN80	2DIN100	2DIN125	2DIN150
316 code	4DIN10	4DIN15	4DIN20	4DIN25	4DIN32	4DIN40	4DIN50	4DIN65	4DIN80	4DIN100	4DIN125	4DIN150

DIN series 2						
DN	15	20	25	32	40	50
Ø	19	23	29	35	41	53
304 code	2DIN19	2DIN23	2DIN29	2DIN35	2DIN41	2DIN53
316 code	4DIN19	4DIN23	4DIN29	4DIN35	4DIN41	4DIN53

2DINML/4DINML - Welding male part

DIN series 1												
DN	10	15	20	25	32	40	50	65	80	100	125	150
Ø	15	21	25	31	37	43	55	72	87	106	132	157
304 code	2DINML10	2DINML15	2DINML20	2DINML25	2DINML32	2DINML40	2DINML50	2DINML65	2DINML80	2DINML100	2DINML125	2DINML150
316 code	4DINML10	4DINML15	4DINML20	4DINML25	4DINML32	4DINML40	4DINML50	4DINML65	4DINML80	4DINML100	4DINML125	4DINML150

DIN series 2						
DN	15	20	25	32	40	50
Ø	19	23	29	35	41	53
304 code	2DINML19	2DINML23	2DINML29	2DINML35	2DINML41	2DINML53
316 code	4DINML19	4DINML23	4DINML29	4DINML35	4DINML41	4DINML53

2DINBL/4DINBL - Welding liner

DIN series 1												
DN	10	15	20	25	32	40	50	65	80	100	125	150
Ø	15	21	25	31	37	43	55	72	87	106	132	157
304 code	2DINBL10	2DINBL15	2DINBL20	2DINBL25	2DINBL32	2DINBL40	2DINBL50	2DINBL65	2DINBL80	2DINBL100	2DINBL125	2DINBL150
316 code	4DINBL10	4DINBL15	4DINBL20	4DINBL25	4DINBL32	4DINBL40	4DINBL50	4DINBL65	4DINBL80	4DINBL100	4DINBL125	4DINBL150

DIN series 2						
DN	15	20	25	32	40	50
Ø	19	23	29	35	41	53
304 code	2DINBL19	2DINBL23	2DINBL29	2DINBL35	2DINBL41	2DINBL53
316 code	4DINBL19	4DINBL23	4DINBL29	4DINBL35	4DINBL41	4DINBL53

2DINE - Nut

DN	10	15	20	25	32	40	50	65	80
Ø	12	18	22	28	34	40	52	70	85
304 code	2DINE10	2DINE15	2DINE20	2DINE25	2DINE32	2DINE40	2DINE50	2DINE65	2DINE80

DN	100	125	150
Ø	104	129	154
304 code	2DINE100	2DINE125	2DINE150

4DINFE - Blank

DN	25	32	40	50	65	80	100
Ø	28	34	40	52	70	85	104
316 code	4DINFE25	4DINFE32	4DINFE40	4DINFE50	4DINFE65	4DINFE80	4DINFE100

2DINEB - Blank nut with chain

DN	10	15	20	25	32	40	50	65	80	100
Ø	12	18	22	28	34	40	52	70	85	104
304 code	2DINEB10	2DINEB15	2DINEB20	2DINEB25	2DINEB32	2DINEB40	2DINEB50	2DINEB65	2DINEB80	2DINEB100

CE 1935 FDA

DINJ - Spare gaskets

DN	10	15	20	25	32	40	50	65	80	100	125	150
Ø	12	18	22	28	34	40	52	70	85	104	129	154
EPDM code	DINJE10	DINJE15	DINJE20	DINJE25	DINJE32	DINJE40	DINJE50	DINJE65	DINJE80	DINJE100	-	-
NBR code	DINJ10	DINJ15	DINJ20	DINJ25	DINJ32	DINJ40	DINJ50	DINJ65	DINJ80	DINJ100	DINJ125	DINJ150
FKM code	DINJV10	DINJV15	DINJV20	DINJV25	DINJV32	DINJV40	DINJV50	DINJV65	DINJV80	DINJV100	-	-
silicone code	DINJS10	DINJS15	DINJS20	DINJS25	DINJS32	DINJS40	DINJS50	DINJS65	DINJS80	DINJS100	-	-

DIN welding fittings

BW DIN BW

Dimensions acc. to EN 10357 (DIN 11850) - 304L & 316L body - Ra: 0,8 µm.

3.1 see p. 22

2DINC15/4DINC15 - 90° welding bend 1,5D

	DIN series 1								
DN	15	20	25	32	40	50	65	80	100
Ø	18	22	28	34	40	52	70	85	104
304L code	2DINC1518	2DINC1522	2DINC1528	2DINC1534	2DINC1540	2DINC1552	2DINC1570	2DINC1585	2DINC15104
316L code	4DINC1518	4DINC1522	4DINC1528	4DINC1534	4DINC1540	4DINC1552	4DINC1570	4DINC1585	-

	DIN series 2					
DN	15	20	25	32	40	50
Ø	19	23	29	35	41	53
304L code	2DINC1519	2DINC1523	2DINC1529	2DINC1535	2DINC1541	2DINC1553
316L code	4DINC1519	4DINC1523	4DINC1529	4DINC1535	4DINC1541	4DINC1553

	Mirror polished DIN series 1								
DN	15	20	25	32	40	50	65	80	100
Ø	18	22	28	34	40	52	70	85	104
304L code	2DINC1518MI	2DINC1522MI	2DINC1528MI	2DINC1534MI	2DINC1540MI	2DINC1552MI	2DINC1570MI	2DINC1585MI	2DINC15104MI
316L code	4DINC1518MI	4DINC1522MI	4DINC1528MI	4DINC1534MI	4DINC1540MI	4DINC1552MI	4DINC1570MI	4DINC1585MI	4DINC15104MI

2DINCPD/4DINCPD - 90° welding bend 1,5D straight ends

DN	15	20	25	32	40	50	65	80	100
Ø	18	22	28	34	40	52	70	85	104
304L code	2DINCPD18MI	2DINCPD22MI	2DINCPD28MI	2DINCPD34MI	2DINCPD40MI	2DINCPD52MI	2DINCPD70MI	2DINCPD85MI	2DINCPD104MI
316L code	4DINCPD18MI	4DINCPD22MI	4DINCPD28MI	4DINCPD34MI	4DINCPD40MI	4DINCPD52MI	4DINCPD70MI	4DINCPD85MI	4DINCPD104MI

2DINC45/4DINC45 - 45° welding bend

DIN series 1						
DN	25	32	40	50	65	80
Ø	28	34	40	52	70	85
304L code	2DINC4528	2DINC4534	2DINC4540	2DINC4552	2DINC4570	2DINC4585
316L code	4DINC4528	4DINC4534	4DINC4540	4DINC4552	4DINC4570	4DINC4585

DIN series 2						
DN	15	20	25	32	40	50
Ø	19	23	29	35	41	53
304L code	2DINC4519	2DINC4523	2DINC4529	2DINC4535	2DINC4541	2DINC4553
316L code	4DINC4519	4DINC4523	4DINC4529	4DINC4535	4DINC4541	4DINC4553

Mirror polished DIN series 1						
DN	25	32	40	50	65	80
Ø	28	34	40	52	70	85
304L code	2DINC4528MI	2DINC4534MI	2DINC4540MI	2DINC4552MI	2DINC4570MI	2DINC4585MI
316L code	4DINC4528MI	4DINC4534MI	4DINC4540MI	4DINC4552MI	4DINC4570MI	4DINC4585MI

2DINC18 - 180° DIN welding bend straight ends

Mirror polished DIN series 1						
DN	25	32	40	50	65	80
Ø	28	34	40	52	70	85
304L code	2DINC1828MI	2DINC1834MI	2DINC1840MI	2DINC1852MI	2DINC1870MI	2DINC1885MI

2DINTM/4DINTM - Welding tee straight ends

DIN series 1									
DN	15	20	25	32	40	50	65	80	100
Ø	18	22	28	34	40	52	70	85	104
304L code	2DINTM18	2DINTM22	2DINTM28	2DINTM34	2DINTM40	2DINTM52	2DINTM70	2DINTM85	2DINTM104
316L code	4DINTM18	4DINTM22	4DINTM28	4DINTM34	4DINTM40	4DINTM52	4DINTM70	4DINTM85	-

DIN series 2						
DN	15	20	25	32	40	50
Ø	19	23	29	35	41	53
304L code	2DINTM19	2DINTM23	2DINTM29	2DINTM35	2DINTM41	2DINTM53
316L code	4DINTM19	4DINTM23	4DINTM29	4DINTM35	4DINTM41	4DINTM53

Mirror polished DIN series 1								
DN	20	25	32	40	50	65	80	100
Ø	22	28	34	40	52	70	85	104
304L code	2DINTM22MI	2DINTM28MI	2DINTM34MI	2DINTM40MI	2DINTM52MI	2DINTM70MI	2DINTM85MI	2DINTM104MI
316L code	4DINTM22MI	4DINTM28MI	4DINTM34MI	4DINTM40MI	4DINTM52MI	4DINTM70MI	4DINTM85MI	4DINTM104MI

2DINTR/4DINTR - Reducing welding tee

DIN series 2									
DN	20	25	25	32	32	32	40	40	40
Ø	23-19	29-23	29-19	35-29	35-23	35-19	41-35	41-29	41-23
304L code	2DINT2319	2DINT2923	2DINT2919	2DINT3529	2DINT3523	2DINT3519	2DINT4135	2DINT4129	2DINT4123
316L code	4DINT2319	4DINT2923	4DINT2919	4DINT3529	4DINT3523	4DINT3519	4DINT4135	4DINT4129	4DINT4123
DN	50	50	50	70	70	70	80	80	100
Ø	53-41	53-35	53-29	70-53	70-41	70-35	85-53	85-41	104-53
304L code	2DINT5341	2DINT5335	2DINT5329	2DINT7053	2DINT7041	2DINT7035	2DINT8553	2DINT8541	2DINT10453
316L code	4DINT5341	4DINT5335	4DINT5329	4DINT7053	4DINT7041	4DINT7035	4DINT8553	4DINT8541	4DINT10453

2DINEXC/4DINEXC - Welding eccentric reducer

DIN series 1									
Ø	34/28	40/28	40/34	52/28	52/34	52/40	70/34	70/40	70/52
304L code	2DINEXC3428	2DINEXC4028	2DINEXC4034	2DINEXC5228	2DINEXC5234	2DINEXC5240	2DINEXC7034	2DINEXC7040	2DINEXC7052

Ø	85/40	85/52
304L code	2DINEXC8540	2DINEXC8552

2DINR/4DINR - Welding concentric reducer

DIN series 1									
Ø	22/18	28/18	28/22	34/28	40/28	40/34	52/28	52/34	52/40
304L code	2DINR2218	2DINR2818	2DINR2822	2DINR3428	2DINR4028	2DINR4034	2DINR5228	2DINR5234	2DINR5240
316L code	4DINR2218	4DINR2818	4DINR2822	4DINR3428	4DINR4028	4DINR4034	4DINR5228	4DINR5234	4DINR5240

Ø	70/34	70/40	70/52	85/40	85/52	85/70	104/52	104/70	104/85
304L code	2DINR7034	2DINR7040	2DINR7052	2DINR8540	2DINR8552	2DINR8570	2DINR10452	2DINR10470	2DINR10485
316L code	4DINR7034	4DINR7040	4DINR7052	4DINR8540	4DINR8552	4DINR8570	4DINR10452	4DINR10470	4DINR10485

DIN series 2									
Ø	23/19	29/19	29/23	35/19	35/23	35/29	41/23	41/29	41/35
304L code	2DINR2319	2DINR2919	2DINR2923	2DINR3519	2DINR3523	2DINR3529	2DINR4123	2DINR4129	2DINR4135
316L code	4DINR2319	4DINR2919	4DINR2923	4DINR3519	4DINR3523	4DINR3529	4DINR4123	4DINR4129	4DINR4135

Ø	53/29	53/35	53/41	70/35	70/41	70/53	85/41	85/53	104/53
304L code	2DINR5329	2DINR5335	2DINR5341	2DINR7035	2DINR7041	2DINR7053	2DINR8541	2DINR8553	2DINR10453
316L code	4DINR5329	4DINR5335	4DINR5341	4DINR7035	4DINR7041	4DINR7053	4DINR8541	4DINR8553	4DINR10453

Mirror polished DIN series 1									
Ø	22/18	28/18	28/22	34/22	34/28	40/28	40/34	52/28	52/34	52/40
304L code	2DINR2218MI	2DINR2818MI	2DINR2822MI	2DINR3422MI	2DINR3428MI	2DINR4028MI	2DINR4034MI	2DINR5228MI	2DINR5234MI	2DINR5240MI
316L code	4DINR2218MI	4DINR2818MI	4DINR2822MI	4DINR3422MI	4DINR3428MI	4DINR4028MI	4DINR4034MI	4DINR5228MI	4DINR5234MI	4DINR5240MI

Ø	70/34	70/40	70/52	85/40	85/52	85/70	104/52	104/70	104/85
304L code	2DINR7034MI	2DINR7040MI	2DINR7052MI	2DINR8540MI	2DINR8552MI	2DINR8570MI	2DINR10452MI	2DINR10470MI	2DINR10485MI
316L code	4DINR7034MI	4DINR7040MI	4DINR7052MI	4DINR8540MI	4DINR8552MI	4DINR8570MI	4DINR10452MI	4DINR10470MI	4DINR10485MI

2DINRPD/4DINRPD - Welding concentric reducer straight ends

Mirror polished DIN series 1										
Ø	28/18	28/22	34/28	34/22	40/22	40/28	40/34	52/28	52/34	52/40
304L code	2DINRPD2818MI	2DINRPD2822MI	2DINRPD3428MI	2DINRPD3422MI	2DINRPD4022MI	2DINRPD4028MI	2DINRPD4034MI	2DINRPD5228MI	2DINRPD5234MI	2DINRPD5240MI
316L code	4DINRPD2818MI	4DINRPD2822MI	4DINRPD3428MI	4DINRPD3422MI	4DINRPD4022MI	4DINRPD4028MI	4DINRPD4034MI	4DINRPD5228MI	4DINRPD5234MI	4DINRPD5240MI

Ø	70/34	70/40	70/52	85/40	85/52	85/70	104/52	104/70	104/85
304L code	2DINRPD7034MI	2DINRPD7040MI	2DINRPD7052MI	2DINRPD8540MI	2DINRPD8552MI	2DINRPD8570MI	2DINRPD10452MI	2DINRPD10470MI	2DINRPD10485MI
316L code	4DINRPD7034MI	4DINRPD7040MI	4DINRPD7052MI	4DINRPD8540MI	4DINRPD8552MI	4DINRPD8570MI	4DINRPD10452MI	4DINRPD10470MI	4DINRPD10485MI

DIN standard fittings

FGinox

DIN pipe accessories

CHAT - Hexagonal articulated welding pipe holder with rod

Ø	28	34	40	52	70	85	104
code	CHAT28	CHAT34	CHAT40	CHAT52	CHAT70	CHAT85	CHAT104

CHST - Hexagonal articulated welding pipe holder

Ø	28	34	40	52	70	85	104
code	CHST28	CHST34	CHST40	CHST52	CHST70	CHST85	CHST104

CRAT - Round welding pipe holder with rod

Ø	18	22	28	34	40	52	70
code	CRAT18	CRAT22	CRAT28	CRAT34	CRAT40	CRAT52	CRAT70

Ø	85	104	129	154	204
code	CRAT85	CRAT104	CRAT129	CRAT154	CRAT204

CRST - Round welding pipe holder

Ø	18	22	28	34	40	52	70
code	CRST18	CRST22	CRST28	CRST34	CRST40	CRST52	CRST70

Ø	85	104	129	154	204
code	CRST85	CRST104	CRST129	CRST154	CRST204

Clamp standard valves

FGinox

Butterfly valve

Dimensions acc. to clamp SMS - 316L body - Silicone seat - **Handle not included**, see page 309 - Ra: 0,8 µm - PS: 10 bar - TS: -33°C/+200°C - ⚠ **Not suitable for steam**.

CE1935 FDA 3.1 see p. 22

4CLAMPVP - Stainless steel CLAMP

Ø	25	38	51	63	76	104
code	4CLAMPVP25	4CLAMPVP38	4CLAMPVP51	4CLAMPVP63	4CLAMPVP76	4CLAMPVP104

Pneumatic actuated butterfly valves

Our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar min. and 7 bar max. - Air connection: BSP 1/8'' - 316L body - IP67 - Room temp.: -10°C/+80°C - TS: -33°C/+200°C -
⚠ **ΔP max.: 10 bar - Supplied disassembled. For mounting, 25 €/pc additional will be invoiced.**

PNEUMATIC

FG4CLAMP

double acting	
Ø	code
25	FG4CLAMPVP25DE
38	FG4CLAMPVP38DE
51	FG4CLAMPVP51DE
63	FG4CLAMPVP63DE
76	FG4CLAMPVP76DE
104	FG4CLAMPVP104DE

spring return	
Ø	code
25	FG4CLAMPVP25SE
38	FG4CLAMPVP38SE
51	FG4CLAMPVP51SE
63	FG4CLAMPVP63SE
76	FG4CLAMPVP76SE
104	FG4CLAMPVP104SE

Sight glass

Dimensions acc. to clamp SMS - 316L body - Silicone seat - Ra: 0,8 µm - PS: 10 bar - TS: -30°C/+200°C.

FDA 3.1 see p. 22

4CLAMPIC - Stainless steel CLAMP

Ø	25	38	51	63	76	104
code	4CLAMPIC25	4CLAMPIC38	4CLAMPIC51	4CLAMPIC63	4CLAMPIC76	4CLAMPIC104

Dimensions acc. to clamp ISO 1127, DIN 32676 & SMS 3008 standards acc. to diameter - 316L body (except fig. 2CCR: 304 body) - PS: see table below - TS: see elastomers use conditions p. 288.

3.1
see p. 22

Ø	10	12	13,5	14	16	17,2	18	21,3	22	25	26,9
standard	-	-	ISO	-	-	ISO	DIN	ISO	DIN	SMS	ISO
PS (bar)	18	18	18	18	18	18	18	18	18	18	18
Ø	28	33,7	38	42,4	48,3	51	60,3	63,5	76	85	88,9
standard	DIN	ISO	SMS	ISO	ISO	SMS	ISO	SMS	SMS	DIN	ISO
PS (bar)	18	18	18	18	17	17	13	13	9	8	8
Ø	104	114,3	129	139,7	154	168,3	204	219,1	273		
standard	DIN	ISO	DIN	ISO	DIN	ISO	DIN	ISO	ISO		
PS (bar)	8	8	5	5	5	5	3	3	3		

Clamp unions

4CLAMP - Micro clamp 3 piece union

EPDM gasket - Total length: 42 mm - Clamp flange 25 mm - TS: -30°C/+125°C.

Ø	10	12	13,5	16	17,2
316L code	4CLAMP10M	4CLAMP12M	4CLAMP13M	4CLAMP16M	4CLAMP17M

4CLAMP - Mini clamp 3 piece union

EPDM gasket - Total length: 32 mm up to Ø18, 59 mm above - Clamp flange 34 mm - TS: -30°C/+125°C.

Ø	12	13,5	14	16	17,2	18	21	22
316L code	4CLAMP12	4CLAMP13	4CLAMP14	4CLAMP16	4CLAMP17	4CLAMP18	4CLAMP21	4CLAMP22

4CLAMP - Clamp 3 piece union

EPDM gasket - TS: -30°C/+125°C.

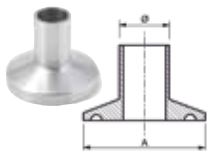
Ø	25	26,9	28	33,7	38	42,4	48,3	51	60,3	63,5	76
316L code	4CLAMP25	4CLAMP26	4CLAMP28	4CLAMP33	4CLAMP38	4CLAMP42	4CLAMP48	4CLAMP51	4CLAMP60	4CLAMP63	4CLAMP76
Ø	85	88,9	104	114,3	129	139,7	154	168,3	204	219,1	273
316L code	4CLAMP85	4CLAMP88	4CLAMP104	4CLAMP114	4CLAMP129	4CLAMP139	4CLAMP154	4CLAMP168	4CLAMP204	4CLAMP219	4CLAMP273

2CCR - Heavy duty clamp ring

Pipe Ø	10-17	12-22	25-42,4	48,3-51	60,3-63,5	76	85-88,9	104	114,3
Flange	25*	34**	50,5	64	77,5	91	106	119	132
304 code	2CCR25	2CCR34	2CCR50	2CCR64	2CCR77	2CCR91	2CCR106	2CCR119	2CCR132

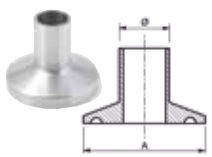
Pipe Ø	129-139,7	154-168,3	204-219,1
Flange	155	183	233,5
304 code	2CCR155	2CCR183	2CCR233

*Micro heavy duty clamp. **Mini heavy duty clamp.*



4CCT - Micro clamp ferrule

Ø	10	12	13,5	16	17,2
A	25	25	25	25	25
316L code	4CCT10M	4CCT12M	4CCT13M	4CCT16M	4CCT17M



4CCT - Mini clamp ferrule

Ø	12	13,5	14	16	17,2	18	21	22
A	34	34	34	34	34	34	34	34
316L code	4CCT12	4CCT13	4CCT14	4CCT16	4CCT17	4CCT18	4CCT21	4CCT22

4CCT - Clamp ferrule

Ø	25	26,9	28	33,7	38	42,4	48,3	51	60,3
A	50,5	50,5	50,5	50,5	50,5	50,5	64	64	77,5
316L code	4CCT25	4CCT26	4CCT28	4CCT33	4CCT38	4CCT42	4CCT48	4CCT51	4CCT60
Ø	63,5	76	85	88,9	101,6	104	114,3	129	139,7
A	77,5	91	106	106	119	119	132	155	155
316L code	4CCT63	4CCT76	4CCT85	4CCT88	4CCT101	4CCT104	4CCT114	4CCT129	4CCT139

Ø	154	168,3	204	219,1	273
A	183	183	233,5	233,5	319
316L code	4CCT154	4CCT168	4CCT204	4CCT219	4CCT273

4CCTM - Clamp ferrule male

flange (D1)	50,5	50,5	50,5	50,5	64	64	64
DN (D2)	15	20	26	33	26	33	38
thread (F)	1/2"	3/4"	1"	1"1/4	1"	1"1/4	1"1/2
316L code	4CCTM5015	4CCTM5020	4CCTM5025	4CCTM5032	4CCTM6425	4CCTM6432	4CCTM6440

4CCTC - Fluted clamp ferrule

hose Ø	21,3	25	26,9	33,7	38	42,4
flange (A)	34	50,5	50,5	50,5	50,5	50,5
316L code	4CCTC21	4CCTC25	4CCTC26	4CCTC33	4CCTC38	4CCTC42

hose Ø	48,3	51	60,3	63,5	76
flange (A)	64	64	77,5	77,5	91
316L code	4CCTC48	4CCTC51	4CCTC60	4CCTC63	4CCTC76

Clamp fittings

4CLAMPC45 - 45° clamp bend

pipe Ø	12	19	25	38	51	63	76	104
flange (K)	25	25	50,5	50,5	64	77,5	91	119
316L code	4CLAMPC4512	4CLAMPC4519	4CLAMPC4525	4CLAMPC4538	4CLAMPC4551	4CLAMPC4563	4CLAMPC4576	4CLAMPC45104

4CLAMPC - 90° clamp bend

pipe Ø	12	19	25	38	51	63	76	104
flange (K)	25	25	50,5	50,5	64	77,5	91	119
316L code	4CLAMPC12	4CLAMPC19	4CLAMPC25	4CLAMPC38	4CLAMPC51	4CLAMPC63	4CLAMPC76	4CLAMPC104

4CLAMPC18 - 180° clamp bend

pipe Ø	25	38	51	63	76	104
flange (K)	50,5	50,5	64	77,5	91	119
316L code	4CLAMPC1825	4CLAMPC1838	4CLAMPC1851	4CLAMPC1863	4CLAMPC1876	4CLAMPC18104

4CLAMPT - Equal clamp tee

pipe Ø	12	19	25	38	51	63	76	104
flange (K)	25	25	50,5	50,5	64	77,5	91	119
316L code	4CLAMPT12	4CLAMPT19	4CLAMPT25	4CLAMPT38	4CLAMPT51	4CLAMPT63	4CLAMPT76	4CLAMPT104

4CLAMPR - Clamp concentric reducer

pipe Ø	18/12	25/19	38/25	51/38	63/51	76/51	76/63	104/76
flange (K)	25	50,5	50,5	64	77,5	91	91	119
flange (K1)	25	25	50,5	50,5	64	64	77,5	91
316L code	4CLAMPR1912	4CLAMPR2519	4CLAMPR3825	4CLAMPR5138	4CLAMPR6351	4CLAMPR7651	4CLAMPR7663	4CLAMPR10476

4CB - Clamp blind ferrule

pipe Ø	10-17	12-22	25-42,4	48,3-51	60,3-63,5	76	85-88,9	104
flange (A)	25*	34**	50,5	64	77,5	91	106	119
316L code	4CB25	4CB34	4CB50	4CB64	4CB77	4CB91	4CB106	4CB119

pipe Ø	114,3	129-139,7	154-168,3	204-219,1
flange (A)	132	155	183	233,5
316L code	4CB132	4CB155	4CB183	4CB233

*Micro clamp cap. **Mini clamp cap.

Spare clamp gaskets

CJ - Spare clamp gaskets

Micro clamp					
Ø	10	12	13,5	16	17,2
EPDM code	CJ10M	CJ12M	CJ13M	CJ16M	CJ17M
FKM code	CJV10M	CJV12M	CJV13M	CJV16M	CJV17M
PTFE code	CJT10M	CJT12M	CJT13M	CJT16M	CJT17M
silicone code	CJS10M	CJS12M	CJS13M	CJS16M	CJS17M

Mini clamp								
Ø	12	13,5	14	16	17,2	18	21,3	22
EPDM code	CJ12	CJ13	CJ14	CJ16	CJ17	CJ18	CJ21	CJ22
FKM code	CJV12	CJV13	CJV14	CJV16	CJV17	CJV18	CJV21	CJV22
PTFE code	CJT12	CJT13	CJT14	CJT16	CJT17	CJT18	CJT21	CJT22
silicone code	CJS12	CJS13	CJS14	CJS16	CJS17	CJS18	CJS21	CJS22

Clamp										
Ø	25	26,9	28	33,7	38	42,4	48,3	51	60,3	63,5	76
EPDM code	CJ25	CJ26	CJ28	CJ33	CJ38	CJ42	CJ48	CJ51	CJ60	CJ63	CJ76
FKM code	CJV25	CJV26	CJV28	CJV33	CJV38	CJV42	CJV48	CJV51	CJV60	CJV63	CJV76
PTFE code	CJT25	CJT26	CJT28	CJT33	CJT38	CJT42	CJT48	CJT51	CJT60	CJT63	CJT76
PTFE/EPDM* code	CJTE25	CJTE26	CJTE28	CJTE33	CJTE38	CJTE42	CJTE48	CJTE51	CJTE60	CJTE63	CJTE76
silicone code	CJS25	CJS26	CJS28	CJS33	CJS38	CJS42	CJS48	CJS51	CJS60	CJS63	CJS76

Ø	85	88,9	104	114,3	129	139	154	168,3	204	219,1
EPDM code	CJ85	CJ88	CJ104	CJ114	CJ129	CJ139	CJ154	CJ168	CJ204	CJ219
FKM code	CJV85	CJV88	CJV104	CJV114	CJV129	CJV139	CJV154	CJV168	CJV204	CJV219
PTFE code	CJT85	CJT88	CJT104	CJT114	CJT129	CJT139	CJT154	CJT168	CJT204	CJT219
PTFE/EPDM* code	CJTE85	CJTE88	CJTE104	-	-	-	CJTE154	CJTE168	CJTE204	CJTE219
silicone code	CJS85	CJS88	CJS104	CJS114	CJS129	CJS139	CJS154	CJS168	CJS204	CJS219

EPDM gasket with PTFE jacket.

Suitable for SMS, DIN & clamp butterfly valves.

PPVP - Plastic handle

Ø	25 to 76	85 to 104
code	PPVP	PPVPGD

PIVP - Stainless steel handle

Ø	25 to 76	85 to 104
code	PIVP	PIVPGD

Spare seats

Ø	25	28	34	38	40	51	52	63	70	76	85	104
EPDM code	VPJE25	VPJE25	VPJE38	VPJE38	VPJE40	VPJE51	VPJE51	VPJE63	VPJE76	VPJE76	VPJE85	VPJE104
FKM code	VPJV25	VPJV25	VPJV38	VPJV38	VPJV40	VPJV51	VPJV51	VPJV63	VPJV76	VPJV76	VPJV85	VPJV104
silicone code	VPJ25	VPJ25	VPJ38	VPJ38	VPJ40	VPJ51	VPJ51	VPJ63	VPJ76	VPJ76	VPJ85	VPJ104

Pressure gauges with diaphragm seal

Accuracy class acc. to EN837-1 - Class 1 - F316L case - F316L bourbon tube & connection - F316L diaphragm - KN59 filling oil - Dial Ø 100 mm - Direct mounting diaphragm seal - **Mounted and tested** - TS: -10/+150°C

SMS standard

2335/990-19 - Full stainless steel refillable

	Radial		Axial	
Ø	1"1/2	2"	1"1/2	2"
Scale (bar)	code	code	code	code
-1/5	2335RV05SMSE38	2335RV05SMSE51	2335RA05SMSE38	2335RA05SMSE51
-1/9	2335RV06SMSE38	2335RV06SMSE51	2335RA06SMSE38	2335RA06SMSE51
0/1	2335RV09SMSE38	2335RV09SMSE51	2335RA09SMSE38	2335RA09SMSE51
0/2,5	2335RV11SMSE38	2335RV11SMSE51	2335RA11SMSE38	2335RA11SMSE51
0/4	2335RV12SMSE38	2335RV12SMSE51	2335RA12SMSE38	2335RA12SMSE51
0/6	2335RV13SMSE38	2335RV13SMSE51	2335RA13SMSE38	2335RA13SMSE51
0/10	2335RV14SMSE38	2335RV14SMSE51	2335RA14SMSE38	2335RA14SMSE51
0/16	2335RV15SMSE38	2335RV15SMSE51	2335RA15SMSE38	2335RA15SMSE51
0/25	2335RV16SMSE38	2335RV16SMSE51	2335RA16SMSE38	2335RA16SMSE51

DIN standard

2335/990-18 - Full stainless steel refillable

	Radial		Axial	
Ø	25	32	25	32
Scale (bar)	code	code	code	code
-1/5	2335RV05DINE25	2335RV05DINE32	2335RA05DINE25	2335RA05DINE32
-1/9	2335RV06DINE25	2335RV06DINE32	2335RA06DINE25	2335RA06DINE32
0/1	2335RV09DINE25	2335RV09DINE32	2335RA09DINE25	2335RA09DINE32
0/2,5	2335RV11DINE25	2335RV11DINE32	2335RA11DINE25	2335RA11DINE32
0/4	2335RV12DINE25	2335RV12DINE32	2335RA12DINE25	2335RA12DINE32
0/6	2335RV13DINE25	2335RV13DINE32	2335RA13DINE25	2335RA13DINE32
0/10	2335RV14DINE25	2335RV14DINE32	2335RA14DINE25	2335RA14DINE32
0/16	2335RV15DINE25	2335RV15DINE32	2335RA15DINE25	2335RA15DINE32
0/25	2335RV16DINE25	2335RV16DINE32	2335RA16DINE25	2335RA16DINE32
Ø	40	50	40	50
Scale (bar)	code	code	code	code
-1/5	2335RV05DINE40	2335RV05DINE50	2335RA05DINE40	2335RA05DINE50
-1/9	2335RV06DINE40	2335RV06DINE50	2335RA06DINE40	2335RA06DINE50
0/1	2335RV09DINE40	2335RV09DINE50	2335RA09DINE40	2335RA09DINE50
0/2,5	2335RV11DINE40	2335RV11DINE50	2335RA11DINE40	2335RA11DINE50
0/4	2335RV12DINE40	2335RV12DINE50	2335RA12DINE40	2335RA12DINE50
0/6	2335RV13DINE40	2335RV13DINE50	2335RA13DINE40	2335RA13DINE50
0/10	2335RV14DINE40	2335RV14DINE50	2335RA14DINE40	2335RA14DINE50
0/16	2335RV15DINE40	2335RV15DINE50	2335RA15DINE40	2335RA15DINE50
0/25	2335RV16DINE40	2335RV16DINE50	2335RA16DINE40	2335RA16DINE50

Clamp standard

2335/990-22 - Full stainless steel refillable

	Radial		Axial	
pipe Ø/ flange Ø	38/ 50,5	51/64	38/50,5	51/64
Scale (bar)	code	code	code	code
-1/5	2335RV05CL15	2335RV05CL16	2335RA05CL15	2335RA05CL16
-1/9	2335RV06CL15	2335RV06CL16	2335RA06CL15	2335RA06CL16
0/1	2335RV09CL15	2335RV09CL16	2335RA09CL15	2335RA09CL16
0/2,5	2335RV11CL15	2335RV11CL16	2335RA11CL15	2335RA11CL16
0/4	2335RV12CL15	2335RV12CL16	2335RA12CL15	2335RA12CL16
0/6	2335RV13CL15	2335RV13CL16	2335RA13CL15	2335RA13CL16
0/10	2335RV14CL15	2335RV14CL16	2335RA14CL15	2335RA14CL16
0/16	2335RV15CL15	2335RV15CL16	2335RA15CL15	2335RA15CL16
0/25	2335RV16CL15	2335RV16CL16	2335RA16CL15	2335RA16CL16

Clamp collars

Ø	38	50
code	COLLIER15	COLLIER16

Clamp welding ferrules

Ø	38	50
code	FERRULE15	FERRULE16

EPDM gaskets

Ø	38	50
code	JOINT15	JOINT16

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2014/68/EU Directive - Risk category I / module A - PVC-U body & ball - TPV seat - EPDM gaskets - ABS lever - Full bore - Supplied with solvent cement socket ends as standard - PS: 10 bar - TS: 0°C/+55°C.

W1 - PVC-U

d (mm)	20	25	32	40	50	63	75	90	110
DN	15	20	25	32	40	50	65	80	100
mandatory pack	20	20	20	10	10	10	1	1	1
code	5100WC015	5100WC020	5100WC025	5100WC032	5100WC040	5100WC050	5100WC065	5100WC080	5100WC100

2014/68/EU Directive - Risk category I / module A - PTFE seats - EPDM or FKM gaskets - ABS lever - Full bore.

CL1 - PVC-U

PVC-U body & ball - Anti-UV protection - PS: 10 bar - TS: 0°C/+55°C.

d (mm)	20	25	32	40	50	63	75	90	110
DN	15	20	25	32	40	50	65	80	100
EPDM gaskets code	5100SC015	5100SC020	5100SC025	5100SC032	5100SC040	5100SC050	5100SC065	5100SC080	5100SC100
FKM gaskets code	5101SC015	5101SC020	5101SC025	5101SC032	5101SC040	5101SC050	5101SC065	5101SC080	5101SC100
spare threaded union	ECL1CT02	ECL1CT03	ECL1CT04	ECL1CT05	ECL1CT06	ECL1CT07	ECL1CT08	ECL1CT09	ECL1CT10

CL1 - PP

PP body & ball - PS: 10 bar - Supplied with solvent cement socket ends as standard (option for threaded unions) - TS: +10°C/+80°C.

d (mm)	20	25	32	40	50	63	75	90
DN	15	20	25	32	40	50	65	80
EPDM gaskets code	5110SC015	5110SC020	5110SC025	5110SC032	5110SC040	5110SC050	5110SC065	5110SC080
FKM gaskets code	5111SC015	5111SC020	5111SC025	5111SC032	5111SC040	5111SC050	5111SC065	5111SC080
spare threaded union	ECL1PT02	ECL1PT03	ECL1PT04	ECL1PT05	ECL1PT06	ECL1PT07	ECL1PT08	ECL1PT09

2014/68/EU Directive - Risk category I / module A2 - PCV-U body and ball - PTFE seat - EPDM gaskets - ABS lever - Full bore - Supplied with solvent cement socket ends - PS: 16 bar up to DN50, 10 bar above - TS: 0°C/+60°C.

B1 - PVC-U

d (mm)	20	25	32	40	50	63
DN	15	20	25	32	40	50
code	5100PC015	5100PC020	5100PC025	5100PC032	5100PC040	5100PC050

97/23/EC Directive - Risk category I / module A - PTFE seats - EPDM or FKM gaskets - ABS lever.

C200 - PVC-U

PVC-U body, ball & stem - Supplied with solvent cement socket ends as standard - PS: 16 bar - TS: 0°C/+60°C.

d (mm)	16	20	25	32	40	50	63
DN	10	15	20	25	32	40	50
EPDM gaskets code	5100AC010	5100AC015	5100AC020	5100AC025	5100AC032	5100AC040	5100AC050
FKM gaskets code	-	5101AC015	5101AC020	5101AC025	5101AC032	5101AC040	5101AC050
spare threaded union	-	EC20CT02	EC20CT03	EC20CT04	EC20CT05	EC20CT06	EC20CT07

C200 - PP

PP body, ball & stem - Supplied with socket ends to be welded as standard - PS: 10 bar - TS: +10°C/+80°C.

d (mm)	16	20	25	32	40	50	63
DN	10	15	20	25	32	40	50
EPDM gaskets code	5110AC010	5110AC015	5110AC020	5110AC025	5110AC032	5110AC040	5110AC050
FKM gaskets code	5111AC010	5111AC015	5111AC020	5111AC025	5111AC032	5111AC040	5111AC050

Spare PE electrofusion welding male socket

For C200 - PVC-U & C200 - PP.

DN	15	20	25	32	40	50
code	EC20EP020	EC20EP025	EC20EP032	EC20EP040	EC20EP050	EC20EP063

Dosing valve

C200P - PVC-U

PVC-U body, ball & stem - PTFE seat - Supplied with solvent cement socket ends as standard - PS: 16 bar - TS: 0°C/+60°C - 0-90° graduation (scale 5°).

d (mm)	20	25	32	40	50	63
DN	15	20	25	32	40	50
Kv (l/min)	90	160	250	400	620	850
EPDM gaskets code	6000BC015	6000BC020	6000BC025	6000BC032	6000BC040	6000BC050

Excluded from 2014/68/EU directive (article 4, §3) - PVC-U body & ball - TPV seat - EPDM gaskets - Full bore - Threaded connections & 8/10/12 fluted nozzle -PS: 10 bar - TS: 0°C/+55°C.

Microvalve

KVS1 - PVC-U

Ø	1/4"	1/2"
code	5100KT00	5100KT02

Actuated plastic ball valves

All our pneumatic actuated plastic ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request.
All our electric actuated plastic ball valves are equipped with a 230V AC actuator as standard - Other power supply on request.
⚠ **ΔP Max.: 10 bar.**

■ Pneumatic actuated plastic ball valves

PNEUMATIC

B1 - PVC-U - Ball valve with plastic pneumatic actuator

PVC-U body & ball - PS: 16 bar up to DN50, 10 bar above - TS: 0°C/+60°C.

Prisma

d (mm)	DN	double acting	
		actuator	code
20	15	PP00	5100PC015012103
25	20	PP00	5100PC020012103
32	25	PP00	5100PC025012103
40	32	PP00	5100PC032012103
50	40	PP00	5100PC040012103
63	50	PP00	5100PC050012103

d (mm)	DN	spring return	
		actuator	code
20	15	PP00S	5100PC015012123
25	20	PP00S	5100PC020012123
32	25	PP00S	5100PC025012123
40	32	PP00S	5100PC032012123
50	40	PP00S	5100PC040012123
63	50	PP10S	5100PC050012126

■ Electric actuated plastic ball valves

ELECTRIC

B1 - PVC-U - Ball valve with electric actuator

PVC-U body & ball - PS: 16 bar up to DN50, 10 bar above - TS: 0°C/+60°C.

d (mm)	DN	actuator	code
20	15	TCR05	5100PC015024310
25	20	TCR05	5100PC020024310
32	25	TCR05	5100PC025024310
40	32	TCR05	5100PC032024310
50	40	TCR05	5100PC040024310
63	50	TCR05	5100PC050024310

Actuated plastic ball valves

All our pneumatic actuated plastic ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request.
All our electric actuated plastic ball valves are equipped with a 230V AC actuator as standard - Other power supply on request.
⚠ **ΔP Max.: 10 bar.**

■ Pneumatic actuated plastic ball valves

PNEUMATIC

CL1 - PVC-U - Ball valve with plastic pneumatic actuator

PVC-U body & ball - PS: 10 bar - TS: 0°C/+55°C.

d (mm)	DN	double acting actuator	code
EPDM gaskets			
75	65	PP10	5100SC065012106
90	80	PP10	5100SC080012106
110	100	PP20	5100SC100012109
FKM gaskets			
75	65	PP10	5101SC065012106
90	80	PP10	5101SC080012106
110	100	PP20	5101SC100012109

d (mm)	DN	spring return actuator	code
EPDM gaskets			
75	65	PP10S	5100SC065012126
90	80	PP10S	5100SC080012126
110	100	PP20S	5100SC100012129
FKM gaskets			
75	65	PP10S	5101SC065012126
90	80	PP10S	5101SC080012126
110	100	PP20S	5101SC100012129

CL1 - PP - Ball valve with plastic pneumatic actuator

PP body & ball - PS: 10 bar - TS: +10°C/+80°C.

d (mm)	DN	double acting actuator	code
EPDM gaskets			
75	65	PP10	5110SC065012106
90	80	PP10	5110SC080012106
FKM gaskets			
75	65	PP10	5111SC065012106
90	80	PP10	5111SC080012106

d (mm)	DN	spring return actuator	code
EPDM gaskets			
75	65	PP10S	5110SC065012126
90	80	PP10S	5110SC080012126
FKM gaskets			
75	65	PP10S	5111SC065012126
90	80	PP10S	5111SC080012126

C200 - PVC-U - Ball valve with plastic pneumatic actuator

PVC-U body & ball - PS: 16 bar - TS: 0°C/+60°C.

d (mm)	DN	double acting actuator	code
EPDM gaskets			
20	15	PPW	5100AC015012100
25	20	PPW	5100AC020012100
32	25	PPW	5100AC025012100
40	32	PPW	5100AC032012100
50	40	PP00	5100AC040012103
63	50	PP00	5100AC050012103
FKM gaskets			
20	15	PPW	5101AC015012100
25	20	PPW	5101AC020012100
32	25	PPW	5101AC025012100
40	32	PPW	5101AC032012100
50	40	PP00	5101AC040012103
63	50	PP00	5101AC050012103

d (mm)	DN	spring return actuator	code
EPDM gaskets			
20	15	PPWS	5100AC015012120
25	20	PPWS	5100AC020012120
32	25	PP00S	5100AC025012123
40	32	PP00S	5100AC032012123
50	40	PP10S	5100AC040012126
63	50	PP10S	5100AC050012126
FKM gaskets			
20	15	PPWS	5101AC015012120
25	20	PPWS	5101AC020012120
32	25	PP00S	5101AC025012123
40	32	PP00S	5101AC032012123
50	40	PP10S	5101AC040012126
63	50	PP10S	5101AC050012126

C200 - PP - Ball valve with plastic pneumatic actuator

PP body & ball - PS: 10 bar - TS: +10°C/+80°C.

d (mm)	DN	double acting actuator	code
EPDM gaskets			
20	15	PPW	5110AC015012100
25	20	PPW	5110AC020012100
32	25	PPW	5110AC025012100
40	32	PPW	5110AC032012100
50	40	PP00	5110AC040012103
63	50	PP00	5110AC050012103
FKM gaskets			
20	15	PPW	5111AC015012100
25	20	PPW	5111AC020012100
32	25	PPW	5111AC025012100
40	32	PPW	5111AC032012100
50	40	PP00	5111AC040012103
63	50	PP00	5111AC050012103

d (mm)	DN	spring return actuator	code
EPDM gaskets			
20	15	PPWS	5110AC015012120
25	20	PPWS	5110AC020012120
32	25	PP00S	5110AC025012123
40	32	PP00S	5110AC032012123
50	40	PP10S	5110AC040012126
63	50	PP10S	5110AC050012126
FKM gaskets			
20	15	PPWS	5111AC015012120
25	20	PPWS	5111AC020012120
32	25	PP00S	5111AC025012123
40	32	PP00S	5111AC032012123
50	40	PP10S	5111AC040012126
63	50	PP10S	5111AC050012126

■ Electric actuated plastic ball valves

CL1 - PVC-U - Ball valve with electric actuator

PVC-U body & ball - PS: 10 bar - TS : +10°C/+80°C.

d (mm)	DN	actuator	code
EPDM gaskets			
75	65	TCR05N	5100SC065024310
90	80	TCR05N	5100SC080024310
110	100	TCR05N	5100SC100024310
FKM gaskets			
75	65	TCR05N	5101SC065024310
90	80	TCR05N	5101SC080024310
110	100	TCR05N	5101SC100024310

d (mm)	DN	actuator	code
EPDM gaskets			
75	65	SA03	5100SC065023000
90	80	SA05	5100SC080023010
110	100	SA05	5100SC100023010
FKM gaskets			
75	65	SA03	5101SC065023000
90	80	SA05	5101SC080023010
110	100	SA05	5101SC100023010

CL1 - PP - Ball valve with electric actuator

PP body & ball - PS: 10 bar - TS: +10°C/+80°C.

d (mm)	DN	actuator	code
EPDM gaskets			
75	65	TCR05N	5110SC065024310
90	80	TCR05N	5110SC080024310
FKM gaskets			
75	65	TCR05N	5111SC065024310
90	80	TCR05N	5111SC080024310

d (mm)	DN	actuator	code
EPDM gaskets			
75	65	SA03	5110SC065023000
90	80	SA05	5110SC080023010
FKM gaskets			
75	65	SA03	5111SC065023000
90	80	SA05	5111SC080023010

C200 - PVC-U - Ball valve with electric actuator

PVC-U body & ball - PS: 16 bar - TS: 0°C/+60°C.

d (mm)	DN	actuator	code
EPDM gaskets			
20	15	TCR02N	5100AC015024110
25	20	TCR02N	5100AC020024110
32	25	TCR02N	5100AC025024110
40	32	TCR02N	5100AC032024110
50	40	TCR02N	5100AC040024110
63	50	TCR02N	5100AC050024110
FKM gaskets			
20	15	TCR02N	5101AC015024110
25	20	TCR02N	5101AC020024110
32	25	TCR02N	5101AC025024110
40	32	TCR02N	5101AC032024110
50	40	TCR02N	5101AC040024110
63	50	TCR02N	5101AC050024110

d (mm)	DN	actuator	code
EPDM gaskets			
20	15	SA03	5100AC015023000
25	20	SA03	5100AC020023000
32	25	SA03	5100AC025023000
40	32	SA03	5100AC032023000
50	40	SA03	5100AC040023000
63	50	SA03	5100AC050023000
FKM gaskets			
20	15	SA03	5101AC015023000
25	20	SA03	5101AC020023000
32	25	SA03	5101AC025023000
40	32	SA03	5101AC032023000
50	40	SA03	5101AC040023000
63	50	SA03	5101AC050023000

C200 - PP - Ball valve with electric actuator

PP body & ball - PS: 10 bar - TS: +10°C/+80°C.

d (mm)	DN	actuator	code
EPDM gaskets			
20	15	TCR02N	5110AC015024110
25	20	TCR02N	5110AC020024110
32	25	TCR02N	5110AC025024110
40	32	TCR02N	5110AC032024110
50	40	TCR02N	5110AC040024110
63	50	TCR02N	5110AC050024110
FKM gaskets			
20	15	TCR02N	5111AC015024110
25	20	TCR02N	5111AC020024110
32	25	TCR02N	5111AC025024110
40	32	TCR02N	5111AC032024110
50	40	TCR02N	5111AC040024110
63	50	TCR02N	5111AC050024110

d (mm)	DN	actuator	code
EPDM gaskets			
20	15	SA03	5110AC015023000
25	20	SA03	5110AC020023000
32	25	SA03	5110AC025023000
40	32	SA03	5110AC032023000
50	40	SA03	5110AC040023000
63	50	SA03	5110AC050023000
FKM gaskets			
20	15	SA03	5111AC015023000
25	20	SA03	5111AC020023000
32	25	SA03	5111AC025023000
40	32	SA03	5111AC032023000
50	40	SA03	5111AC040023000
63	50	SA03	5111AC050023000

2014/68/EU Directive - Risk category I / module A - Between flanges PN10 - EPDM or FKM seat - Stainless steel stem - Anti-UV protection - ABS lever up to DN200, cast iron gearbox above - PS: 10 bar.

PL1 - PVC-U

PVC-U body - Reinforced PP disc - TS: 0°C/+55°C.

d (mm)	50	63	75	90	110	140	160	225	280	315
DN	40	50	65	80	100	125	150	200	250	300
face to face (mm)	34	44	46	57	60	66	72	82	92	98
EPDM seat code	5300SW040	5300SW050	5300SW065	5300SW080	5300SW100	5300SW125	5300SW150	5300SW200	5300SW250	5300SW300
FKM seat code	-	5301SW050	5301SW065	5301SW080	5301SW100	5301SW125	5301SW150	5301SW200	-	-

PL1 - PP

PP body - Reinforced PP disc - TS: +10°C/+80°C.

d (mm)	63	75	90	110	140	160	225
DN	50	65	80	100	125	150	200
face to face (mm)	43	46	49	58	64	70	88
EPDM seat code	5310SW050	5310SW065	5310SW080	5310SW100	5310SW125	5310SW150	5310SW200

2014/68/EU Directive N°1115 - Risk category I / module A2 - Between flanges PN10 - EPDM or FKM seat - Stainless steel stem - Anti-UV protection - ABS lever - Locking handle from DN150 to DN200 - PS: 10 bar.

1115

PL2 - PVC-U

PVC-U body - PVC-U disc - TS: 0°C/+60°C.

d (mm)	75	90	110	140	160	225
DN	65	80	100	125	150	200
face to face (mm)	48	59	59,5	65	69	71
EPDM seat code	5300EW065	5300EW080	5300EW100	5300EW125	5300EW150	5300EW200
FKM seat code	5301EW065	5301EW080	5301EW100	5301EW125	5301EW150	5301EW200

PL2 - PP

PP body - Reinforced PP disc - TS: 0°C/+100°C.

d (mm)	75	90	110	140	160	225
DN	65	80	100	125	150	200
face to face (mm)	48	59	59,5	65	69	71
EPDM seat code	5310EW065	5310EW080	5310EW100	5310EW125	5310EW150	5310EW200
FKM seat code	5311EW065	5311EW080	5311EW100	5311EW125	5311EW150	5311EW200

PVC PN10 flanges set

DN	40	50	65	80	100	125	150	200
code	982030	982031	982032	982033	982034	982035	982036	982037

Actuated PVC butterfly valves

All our pneumatic actuated plastic ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request.
All our electric actuated plastic ball valves are equipped with a 230V AC actuator as standard - Other power supply on request.
PS: 10 bar - ⚠ **Max. ΔP: 10 bar.**

■ Pneumatic actuated PVC butterfly valves

PL1 - PVC-U - Butterfly valve with pneumatic actuator

PVC-U body - Reinforced PP disc - TS: 0°C/+55°C.

DN	face to face (mm)	double acting	
		actuator	code
40	34	PP00	5300SW040012103
50	44	PP00	5300SW050012103
65	46	PP00	5300SW065012103
80	57	PP10	5300SW080012106
100	60	PP10	5300SW100012106
125	66	PP20	5300SW125012109
150	72	PP20	5300SW150012109
200	82	PP20	5300SW200012109
250	92	RE116	5300SW250017011R
300	98	RE126	5300SW300017012R

DN	face to face (mm)	spring return	
		actuator	code
40	34	PP10S	5300SW040012126
50	44	PP10S	5300SW050012126
65	46	PP10S	5300SW065012126
80	57	PP10S	5300SW080012126
100	60	PP20S	5300SW100012129
125	66	PP20S	5300SW125012129
150	72	RES116	5300SW150017111R
200	82	RES116	5300SW200017111R
250	92	RES161	5300SW250017114R
300	98	RES161	5300SW300017114R

PL2 - PVC-U – Butterfly valve with pneumatic actuator

PVC-U body - PVC-U disc - TS: 0°C/+60°C.

DN	face to face (mm)	double acting	
		actuator	code
65	48	PP00	5300EW065012103
80	59	PP10	5300EW080012106
100	59,5	PP10	5300EW100012106
125	65	PP20	5300EW125012109
150	69	PP20	5300EW150012109
200	71	PP20	5300EW200012109

DN	face to face (mm)	spring return	
		actuator	code
65	48	PP10S	5300EW065012126
80	59	PP10S	5300EW080012126
100	59,5	PP20S	5300EW100012129
125	65	PP20S	5300EW125012129
150	69	RES116	5300EW150017111R
200	71	RES116	5300EW200017111R

■ Pneumatic actuated PP butterfly valves

PL1 - PP - Butterfly valve with pneumatic actuator

PP body - Reinforced PP disc - TS: +10°C/+80°C.

DN	face to face (mm)	EPDM seat	
		double acting	
		actuator	code
50	44	PP00	5310SW050012103
65	46	PP00	5310SW065012103
80	57	PP10	5310SW080012106
100	60	PP10	5310SW100012106
125	66	PP20	5310SW125012109
150	72	PP20	5310SW150012109
200	82	PP20	5310SW200012109

DN	face to face (mm)	EPDM seat	
		spring return	
		actuator	code
50	44	PP10S	5310SW050012126
65	46	PP10S	5310SW065012126
80	57	PP10S	5310SW080012126
100	60	PP20S	5310SW100012129
125	66	PP20S	5300SW125012129
150	72	RES116	5310SW150017111R
200	82	RES116	5310SW200017111R

PL2 - PP - Butterfly valve with pneumatic actuator

PP body - Reinforced PP disc - TS: 0°C/+100°C.

DN	face to face (mm)	double acting	
		actuator	code
65	48	PP00	5310EW065012103
80	59	PP10	5310EW080012106
100	59,5	PP10	5310EW100012106
125	65	PP20	5310EW125012109
150	69	PP20	5310EW150012109
200	71	PP20	5310EW200012109

DN	face to face (mm)	spring return	
		actuator	code
65	48	PP10S	5310EW065012126
80	59	PP10S	5310EW080012126
100	59,5	PP20S	5310EW080012129
125	65	PP20S	5310EW125012129
150	69	RES116	5310EW150017111R
200	71	RES116	5310EW200017111R

■ Electric actuated PVC butterfly valves

ELECTRIC

PL1 - PVC-U - Butterfly valve with electric actuator

PVC-U body - Reinforced PP disc - TS: 0°C/+55°C.

DN	face to face (mm)	actuator	code
40	34	TCR05	5300SW040024310
50	44	TCR05	5300SW050024310
65	46	TCR05	5300SW065024310
80	57	TCR05	5300SW080024310
100	60	TCR05	5300SW100024310
125	66	TCR11	5300SW125024610
150	72	TCR11	5300SW150024610
200	82	TCR11	5300SW200024610
250	92	TCR40	5300SW250024720
300	98	TCR40	5300SW300024720

DN	face to face (mm)	actuator	code
40	34	SA05	5300SW040023010
50	44	SA05	5300SW050023010
65	46	SA05	5300SW065023010
80	57	SA05	5300SW080023010
100	60	SA05	5300SW100023010
125	66	NA06	5300SW125023110
150	72	NA09	5300SW150023120
200	82	NA15	5300SW200023130
250	92	NA28	5300SW250023150
300	98	NA38	5300SW300023160

ELECTRIC

PL2 - PVC-U - Butterfly valve with electric actuator

PVC-U body – PVC-U disc – TS: 0°C/+60°C.

DN	face to face (mm)	actuator	code
65	48	TCR05	5300EW065024310
80	59	TCR05	5300EW080024310
100	59,5	TCR05	5300EW100024310
125	65	TCR11	5300EW125024610
150	69	TCR11	5300EW150024610
200	71	TCR11	5300EW200024610

DN	face to face (mm)	actuator	code
65	48	SA05	5300EW065023010
80	59	SA05	5300EW080023010
100	59,5	SA05	5300EW100023010
125	65	SA06	5300EW125023110
150	69	NA09	5300EW150023120
200	71	NA15	5300EW200023130

■ Electric actuated PP butterfly valves

ELECTRIC

PL1 - PP - Butterfly valve with electric actuator

PP body - Reinforced PP disc - TS: +10°C/+80°C.

DN	face to face (mm)	actuator	code
50	44	TCR05	5310SW050024310
65	46	TCR05	5310SW065024310
80	57	TCR05	5310SW080024310
100	60	TCR05	5310SW100024310
125	66	TCR11	5310SW125024610
150	72	TCR11	5310SW150024610
200	82	TCR11	5310SW200024610

DN	face to face (mm)	actuator	code
50	44	SA05	5310SW050023010
65	46	SA05	5310SW065023010
80	57	SA05	5310SW080023010
100	60	SA05	5310SW100023010
125	66	NA06	5310SW125023110
150	72	NA09	5310SW150023120
200	82	NA15	5310SW200023130

ELECTRIC

PL2 - PP - Butterfly valve with electric actuator

PP body - Reinforced PP disc - TS: +10°C/+100°C.

DN	face to face (mm)	actuator	code
65	48	TCR05	5310EW065024310
80	59	TCR05	5310EW080024310
100	59,5	TCR05	5310EW100024310
125	65	TCR11	5310EW125024610
150	69	TCR11	5310EW150024610
200	71	TCR11	5310EW200024610

DN	face to face (mm)	actuator	code
65	48	SA05	5310EW065023010
80	59	SA05	5310EW080023010
100	59,5	SA05	5310EW100023010
125	65	SA06	5310EW125023110
150	69	NA09	5310EW150023120
200	71	NA15	5310EW200023130

Pneumatic actuated valves components

Actuators

SIL 2 (& SIL 3 capable) - Valve mounting acc. to ISO 5211- Limit switch box bracket connection acc. to NAMUR 1 - Solenoid pilot valve connection acc. to NAMUR VDI/VDE 3845 - Rack and pinion actuator - 90° operating angle - Reinforced fiberglass polyamide body - Position indicator - TS: -32°C/+90°C - Max. air supply: 8 bar - Air supply connection 1/4" - CE Ex II 2 GD c T6.

PP - Double acting

type	avail. torque (Nm) at air supply 6 bar	ISO	⬡	code
PPW	17	F04	11	012100
PP00	25	F05	14	012103
PP10	71	F05/F07	17	012106
PP20	165	F07	22	012109

PPS - Spring return

type	avail. torque (Nm) at air supply 6 bar		ISO	⬡	code
PPWS	10,6	6,5	F04	11	012120
PP00S	13,7	11,3	F05	14	012123
PP10S	40,2	30,8	F05/F07	17	012126
PP20S	101,3	64,2	F07	22	012129

Y-strainer

FYC - PVC-U

PVC-U body & unions - Double union construction - EPDM gaskets - PP screen - Mesh 0,8 mm - Supplied with solvent cement socket ends - PS: 6 bar - TS: 0°C/+60°C.

d (mm)	20	25	32	40	50	63	75	90	110
DN	15	20	25	32	40	50	65	80	100
code	5600HC015	5600HC020	5600HC025	5600HC032	5600HC040	5600HC050	5600HC065	5600HC080	5600HC100

Check valves

Check valves - Double union construction

CE

CV1 - PVC-U

PVC-U body & clack - EPDM or FKM seat & gaskets - Double union construction - Anti-UV protection - Stainless steel spring included - Horizontal or vertical mounting - Supplied with solvent cement socket ends as standard - PS: 10 bar - TS: 0°C/+55°C.

d (mm)	20	25	32	40	50	63
DN	15	20	25	32	40	50
EPDM seat & gaskets code	5500SC015EF	5500SC020EF	5500SC025EF	5500SC032EF	5500SC040EF	5500SC050EF
FKM seat & gaskets code	5501SC015EF	5501SC020EF	5501SC025EF	5501SC032EF	5501SC040EF	5501SC050EF
spare threaded union	ECCVCT02	ECCVCT03	ECCVCT04	ECCVCT05	ECCVCT06	ECCVCT07

CV1 - PP

PP body & clack - EPDM or FKM seat & gaskets - Double union construction - Stainless steel spring included - Horizontal or vertical mounting - Supplied with socket ends to be welded as standard - PS: 10 bar – TS: +10°C/+80°C.

d (mm)	20	25	32	40	50	63
DN	15	20	25	32	40	50
EPDM seat & gaskets code	5510SC015EF	5510SC020EF	5510SC025EF	5510SC032EF	5510SC040EF	5510SC050EF
FKM seat & gaskets code	5511SC015EF	5511SC020EF	5511SC025EF	5511SC032EF	5511SC040EF	5511SC050EF

Disc check valve

CE

DISCO - PVC-U

PVC-U body & clack - EPDM or FKM gaskets - Stainless steel spring - Horizontal or vertical mounting - Between flanges PN10 - PS: 6 bar - TS: 0°C/+60°C.

DN	15	20	25	32	40	50	65	80	100
EPDM gaskets code	5500DW015	5500DW020	5500DW025	5500DW032	5500DW040	5500DW050	5500DW065	5500DW080	5500DW100
FKM gaskets code	5501DW015	5501DW020	5501DW025	5501DW032	5501DW040	5501DW050	5501DW065	5501DW080	5501DW100

not on stock, on request.

Swing check valves

CS1 - PVC-U

PVC-U body & clack - EPDM or FKM gaskets - Stainless steel spring - Horizontal or vertical mounting - Between flanges PN10 - PS: 10 bar - TS: 0°C/+60°C.

DN	32	40	50	65	80	100	125	150
EPDM gaskets code	5500CW032	5500CW040	5500CW050	5500CW065	5500CW080	5500CW100	5500CW125	5500CW150
FKM gaskets code	5501CW032	5501CW040	5501CW050	5501CW065	5501CW080	5501CW100	5501CW125	5501CW150

not on stock, on request.

RSK1 - PP

PP body & clack - EPDM or FKM gaskets - Stainless steel spring - Spring not included - Horizontal or vertical mounting - Between flanges PN10 - PS: 6 bar - TS: +10°C/+90°C.

DN	32	40	50	65	80	100	125	150
EPDM gaskets code	5510AW032	5510AW040	5510AW050	5510AW065	5510AW080	5510AW100	5510AW125	5510AW150
FKM gaskets code	5511AW032	5511AW040	5511AW050	5511AW065	5511AW080	5511AW100	5511AW125	5511AW150
spring code	RIK032	RIK040	RIK050	RIK065	RIK080	RIK100	RIK100	RIK150

not on stock, on request.

CB1 - PVC-U - Ball Check Valves - Double union construction

PVC-U body & ball - EPDM or FKM seat & gaskets - Double union construction - Vertical mounting - Supplied with solvent cement socket ends as standard - PS: 10 bar - TS: +0°C / +55°C.

d (mm)	20	25	32	40	50	63
DN	15	20	25	32	40	50
EPDM seat & gaskets code	5500PC015	5500PC020	5500PC025	5500PC032	5500PC040	5500PC050
FKM seat & gaskets code	5501PC015	5501PC020	5501PC025	5501PC032	5501PC040	5501PC050
spare threaded union	ECCVCT02	ECCVCT03	ECCVCT04	ECCVCT05	ECCVCT06	ECCVCT07

Foot valves

FFV - PVC-U

PVC-U body - EPDM gaskets - Vertical mounting - Between flanges PN10 - PS: 10 bar - TS: 0°C/+55°C.

DN	65	80	100	150
code	5500FB065	5500FB080	5500FB100	5500FB150

CRECL - PVC-U Strainer basket

PVC-U strainer basket - Suitable for CV1/CB1 - ⚠ **Check valve not included.**

d (mm)	20	25	32	40	50	63
DN	15	20	25	32	40	50
code	CRECL02	CRECL03	CRECL04	CRECL05	CRECL06	CRECL07

Diaphragm valves

97/23/EC Directive - Risk category I / module A - EPDM diaphragm & gaskets or PTFE diaphragm & FKM gaskets - PS: 10 bar.

CE

MV310 - PVC-U

PVC-U body - Supplied with female connections to be welded up to DN50, with male connections above - TS: 0°C/+60°C.

d (mm)	20	25	32	40	50	63	75	90	110
DN	15	20	25	32	40	50	65	80	100
EPDM diaphragm code	5400CC015	5400CC020	5400CC025	5400CC032	5400CC040	5400CC050	5400CM065	5400CM080	5400CM100
PTFE diaphragm code	5402CC015	5402CC020	5402CC025	5402CC032	5402CC040	5402CC050	5402CM065	5402CM080	5402CM100

MV310 - PP

PP body - TS: +10°C/+80°C.

d (mm)	20	25	32	40	50	63	75	90	110
DN	15	20	25	32	40	50	65	80	100
EPDM diaphragm code	5410CC015	5410CC020	5410CC025	5410CC032	5410CC040	5410CC050	5410CM065	5410CM080	5410CM100
PTFE diaphragm code	-	-	-	-	5412CC040	5412CC050	5412CM065	5412CM080	5412CM100

■ Pneumatic actuated diaphragm valves

PNEUMATIC

MV309 - PVC-U

PVC-U body - PS: 6 bar - TS: 0°C/+60°C -
Max. air supply 6 bar - Air supply connection 1/4" or Namur.
Normally open version on request.

	normally closed			
d (mm)	20	25	32	40
DN	15	20	25	32
EPDM gaskets code	5400BC015NF	5400BC020NF	5400BC025NF	5400BC032NF
FKM gaskets code	5402BC015NF	5402BC020NF	5402BC025NF	5402BC032NF

MV309 - PP

PP body - PS: 6 bar - TS: +10°C/+80°C -
Max. air supply 6 bar - Air supply connection 1/4"or Namur.

	normally closed			
d (mm)	20	25	32	40
DN	15	20	25	32
EPDM gaskets code	5410BC015NF	5410BC020NF	5410BC025NF	5410BC032NF
FKM gaskets code	5412BC015NF	5412BC020NF	5412BC025NF	5412BC032NF

NEW

Position indicator

	code
2 mechanical SPDT switches	54IDP
Angled inlet ES31 – M12	983510

Namur solenoid pilot valves, see page 181

Solenoid valves

Normally closed (opening under tension) - Coil insulation class F - IP65 - T30 connector - Horizontal mounting - Coil on the top.

IP 65

PE220 - PTFE

PTFE body - PTFE coated NBR obturator - PS: 0,1 to 1 bar - TS: -10°C/+90°C - 5 mm bore - Threaded connections.

Ø	230V 50Hz	24V DC	24V 50Hz
	code	code	code
3/8"	6432ST01	6432ST51	6432ST11
1/2"	6432ST02	6432ST52	6432ST12
spare coil	980550	980552	980551

EV150 - PVC-U

PVC-U body - PTFE bellow - EPDM tightness - TS: 0°C/+60°C - Solvent cement connections.

d (mm)	DN	PS (bar)	Kv (l/min)	230V 50Hz code	24V DC code	24V 50Hz code
15	10	0 - 2	20,7	6400BF01	6400BF51	6400BF11
20	15	0 - 1	29,7	6400BF02	6400BF52	6400BF12
25	20	0 - 0,5	53,0	6400BF03	6400BF53	6400BF13
spare coil				980270	980272	980271

not on stock, on request.

Solenoid valves

SECTORIEL

EV160 - PVC-U

PVC-U body - EPDM membrane - PS: 0,3 to 6 bar - TS: 0°C/+60°C - Solvent cement connections.

d (mm)	DN	Kv (l/min)	230V 50Hz code	24V DC code	24V 50Hz	48V 50Hz code
20	15	3,1	6400CF02	6400CF52	6400CF12	6400CF32
25	20	9,8	6400CF03	6400CF53	6400CF13	6400CF33
32	25	10,3	6400CF04	6400CF54	6400CF14	6400CF34
40	32	23,2	6400CF05	6400CF55	6400CF15	6400CF35
spare coil			980280	980282	980281	980283

Pressure reducing valves

SECTORIEL

DMV755 - PVC-U

CE

PVC-U body - EPDM gaskets - PTFE coated EPDM membrane - Supplied with solvent cement socket ends - PS: 10 bar - TS: 0°C/+50°C - Downstream setting range: 1 to 9 bar - Downstream pressure connection 1/4" - Pressure gauge not included.

d (mm)	20	25	32	40	50	63
DN	15	20	25	32	40	50
code	5800AC015	5800AC020	5800AC025	5800AC032	5800AC040	5800AC050

DMV755 - PP

PP body - EPDM or FKM gaskets - PTFE coated EPDM membrane - Supplied with solvent cement socket ends - PS: 10 bar - TS: +10°C/+70°C - Downstream setting range: 1 to 9 bar - Downstream pressure connection 1/4" - Pressure gauge not included.

d (mm)	16	20	25	32	40	50	63
DN	10	15	20	25	32	40	50
EPDM gaskets code	5810AC010	5810AC015	5810AC020	5810AC025	5810AC032	5810AC040	5810AC050
FKM gaskets code	5811AC010	5811AC015	5811AC020	5811AC025	5811AC032	5811AC040	5811AC050

Overflow valves

SECTORIEL

DHV718 - PVC-U

CE

PVC-U body - EPDM gaskets - PTFE coated EPDM membrane - Supplied with solvent cement socket ends - PS: 10 bar - TS: 0°C/+50°C - Upstream setting range: 0,5 to 10 bar.

d (mm)	16	20	25	32	40	50	63
DN	10	15	20	25	32	40	50
code	5900CC010	5900CC015	5900CC020	5900CC025	5900CC032	5900CC040	5900CC050

DHV718 - PP

PP body - EPDM gaskets - PTFE coated EPDM membrane - Supplied with solvent cement socket ends - PS: 10 bar - TS: +10°C/+70°C - Upstream setting range: 0,5 to 10 bar.

d (mm)	16	20	25	32	40	50	63
DN	10	15	20	25	32	40	50
code	5910CC010	5910CC015	5910CC020	5910CC025	5910CC032	5910CC040	5910CC050

DHV712 - PVC-U - DN65 to 100

PVC-U body - EPDM gaskets - PTFE coated EPDM membrane - Patented piston - Male connections or flange PN10 - PS: 10 bar, except 6 bar for DN100 - TS: 0°C/+50°C - Upstream setting range: 0,3 to 4 bar.

d (mm)	75	90	110
DN	65	80	100
male code	5900BM065	5900BM080	5900BM100
flange PN10 code	5900BB065	5900BB080	5900BB100

Float valve

RF1 - PVC-U

PVC-U body - EPDM gaskets - Stainless steel lever - PE float - PS: 10 bar up to 1"1/4, 5 bar above - TS: 0°C/+60°C.

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
code	6200RT015	6200RT020	6200RT025	6200RT032	6200RT040	6200RT050	6200RT065	6200RT080

Water jet pump

SP820 - PVC-U

PVC-U body - EPDM gaskets - PS: 10 bar - TS: 0°C/+60°C - Supplied with solvent cement socket ends - 1 mm nozzle bore.

d (mm)	16	20	25	32	40	50	63
DN	10	15	20	25	32	40	50
suction d1 (mm)	16	16	16	32	40	50	63
suction DN	10	10	10	25	32	40	50
code	6000AC010	6000AC015	6000AC020	6000AC025	6000AC032	6000AC040	6000AC050

Air vents

BE1 - PVC-U

PVC-U body - PP clack - EPDM or FKM gaskets - Vertical mounting - Solvent cement socket connection - PS: 10 bar - TS: 0°C/+60°C.

d (mm)	20	25	32	40	50	63
DN	15	20	25	32	40	50
EPDM gaskets code	5500LC015	5500LC020	5500LC025	5500LC032	5500LC040	5500LC050
FKM gaskets code	5501LC015	5501LC020	5501LC025	5501LC032	5501LC040	5501LC050

BE1 - PP

PP body & clack - EPDM gaskets - Vertical mounting - Welding cement socket connection - PS: 10 bar - TS: +10°C/+80°C.

d (mm)	20	25	32	40	50	63
DN	15	20	25	32	40	50
EPDM gaskets code	5510LC015	5510LC020	5510LC025	5510LC032	5510LC040	5510LC050

Sight glass

VISOR - PVC-U

PVC-U body & union - Transparent PVC-U pipe - EPDM gasket - Supplied with solvent cement socket ends - Horizontal or vertical mounting - PS: 10 bar - TS: 0°C/+60°C.

d (mm)	20	25	32	40	50	63
DN	15	20	25	32	40	50
code	6200CC015	6200CC020	6200CC025	6200CC032	6200CC040	6200CC050

Flowmeter

EPR1 - Webbed wheel flowmeter

PVC-U body - FKM gaskets - PP rotor - Accuracy: +/- 3% - Fluid speed 0,3-10 m/s - Maximum viscosity: 300 cSt - Power supply: 10-36V DC - Outputs: pulses, 4-20 mA, RS485 - 2 programmable thresholds NPN or PNP - Display and parameter setting screen - IP 66 - Totalization function - Reset on screen - Solvent cement socket ends - M12 connector connection +2m wire - PS: 10 bar - TS: 0°C/+60°C.

d (mm)	DN	face to face	range (l/h)	code
32	25	144	340-11300	6170020
40	32	159	530-17670	6170025
50	40	189	1350-45230	6170040
63	50	216	2120-70680	6170050

Flowmeter

DFM - PVC with float

PVC-U body & tube - PDVF float - EPDM gaskets - ⚠ **l/h scale for water at 20°C** (other fluids please consult) - Vertical position, upstream flow - Supplied with solvent cement socket ends - ⚠ **Not for compressed air** - PS: 10 bar - TS: 0°C/+50°C.

d (mm)	DN	range (l/h)	standard float	magnetic float
			code	code
16	10	10-100	6100AC010H04	6100AC010H04M
20	15	5-50	6100BC015H02	-
		15-150	6100BC015H05	-
		25-250	6100BC015H06	-
		40-400	6100BC015H07	6100BC015H07M
25	20	15-150	6100CC020H05	-
		40-400	6100CC020H07	6100CC020H07M
		60-600	6100CC020H08	-
		100-1000	6100CC020H09	-
32	25	25-250	6100DC025H06	-
		40-400	6100DC025H07	6100DC025H07M
		100-1000	6100DC025H09	-
		150-1500	6100DC025H10	-
32	25	60-600	6100EC025H08	6100EC025H08M
		100-1000	6100EC025H09	6100EC025H09M
40	32	150-1500	6100EC032H10	6100EC032H10M
50	40	200-2000	6100EC040H11	6100EC040H11M
40	32	250-2500	6100EC032H12	6100EC032H12M
50	40	300-3000	6100EC040H13	6100EC040H13M
63	50	400-4000	6100EC050H14	-
		600-6000	6100EC050H15	6100EC050H15M
		1000-10000	6100EC050H16	6100EC050H16M
75	65	1500-15000	6100EC065H17	6100EC065H17M
		2500-25000	6100EC065H18	6100EC065H18M
		10000-50000	6100EC065H19	-

ZE951 - Magnetic bistable contact

Cutting power 10VA / 230V AC / 0,5A - IP65 connector.

	code
NO without flow	61951NO
NC without flow	61951NF

Pressure gauge separators

MDM902 - PVC-U BSP

PVC-U body - PTFE coated EPDM membrane - PP-FV upper part - PS: 10 bar - TS: 0°C/+60°C.

d (mm)	25	25	32	32
Ø	1/4"	1/4"	1/2"	1/2"
Ø mano.	1/4"	1/2"	1/4"	1/2"
code	6303AM02044	6303AM02042	6303AM02524	6303AM02522

MDM902 - PP BSP

PP body - PTFE coated EPDM membrane - PP-FV upper part - PS: 10 bar - TS: +10°C/+80°C.

d (mm)	25	25	32	32
Ø	1/4"	1/4"	1/2"	1/2"
Ø mano.	1/4"	1/2"	1/4"	1/2"
code	6313AM02044	6313AM02042	6313AM02524	6313AM02522

MDM118 - PTFE BSP

PTFE body & gaskets - PTFE coated stainless steel 316 membrane - Stainless steel 316 upper part - PS: -1 to 10 bar - TS: 0°C/+120°C - Supplied without pressure gauge.

d (mm)	15	15
Ø mano.	1/4"	1/2"
code	6333NB0154	6333NB0152

Pressure gauges, see page 214

PP cam-lock couplings

Individual packing

MIL-C-27487 & A-A-59326 - Fiberglass reinforced PP body - EPDM gasket - F304 cams - PS: 6 bar - TS: 0°C/+70°C.

Female adaptor A

DN	15	20	25	32	40	50	80	100
Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	3"	4"
code	2211004	2211005	2211006	2211007	2211008	2211009	2211011	2211012

Male coupling B

DN	15	20	25	32	40	50	80	100
Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	3"	4"
code	2212004	2212005	2212006	2212007	2212008	2212009	2212011	2212012

Hose coupling C

DN	15	20	25	32	40	50	80	100
Ø (mm)	20	25	32	40	50	63	90	110
code	2213004	2213005	2213006	2213007	2213008	2213009	2213011	2213012

Female coupling D

DN	15	20	25	32	40	50	80	100
Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	3"	4"
code	2214004	2214005	2214006	2214007	2214008	2214009	2214011	2214012

Hose adaptor E

DN	15	20	25	32	40	50	80	100
Ø (mm)	20	25	32	40	50	63	90	110
code	2215004	2215005	2215006	2215007	2215008	2215009	2215011	2215012

Male adaptor F

DN	15	20	25	32	40	50	80	100
Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	3"	4"
code	2216004	2216005	2216006	2216007	2216008	2216009	2216011	2216012

Cap coupling DC

DN	15	20	25	32	40	50	80	100
code	2217004	2217005	2217006	2217007	2217008	2217009	2217011	2217012

Cap adaptor DP

DN		20	25	32	40	50	80	100
code	-	2218005	2218006	2218007	2218008	2218009	2218011	2218012

PP Guillemin symmetrical couplings

Individual packing

NF-E 29572 - PP body - White NBR gasket - PS: 6 bar - TS: 0°C/+70°C.

Female coupling with lock

DN	40	50	80
Ø	1"1/2	2"	3"
code	2434040	2434050	2434080

Male coupling with lock

DN	40	50	80
Ø	1"1/2	2"	3"
code	2433040	2433050	2433080

Double reduced

DN	80
DN reduced	50
code	2432081

Hose coupling with lock

DN	40	50	80
Ø	40	50	80
code	2430040	2430050	2430080

Cap with lock

DN	40	50	80
code	2437040	2437050	2437080

Spanners, see page 281

PVC-U fittings

Mandatory packing applies

PVC-U body - PS: 16 bar up to DN150, 10 bar above - TS: 0°C/+60°C -
Mandatory packing: 10 pcs up to d 90 or d1 90; individual packing above.

Elbow 90°
Female connections to be glued.

d (mm)	16	20	25	32	40	50	63	75	90	110	125	140	160	200
DN	10	15	20	25	32	40	50	65	80	100	125	125	150	200
code	C90CC016	C90CC020	C90CC025	C90CC032	C90CC040	C90CC050	C90CC063	C90CC075	C90CC090	C90CC110	C90CC125	C90CC140	C90CC160	C90CC200

Elbow 45°
Female connections to be glued.

d (mm)	16	20	25	32	40	50	63	75	90	110	125	140	160
DN	10	15	20	25	32	40	50	65	80	100	125	125	150
code	C45CC016	C45CC020	C45CC025	C45CC032	C45CC040	C45CC050	C45CC063	C45CC075	C45CC090	C45CC110	C45CC125	C45CC140	C45CC160

Equal tee 90°
Female connections to be glued.

d (mm)	16	20	25	32	40	50	63	75	90	110	125	140	160	200
DN	10	15	20	25	32	40	50	65	80	100	125	125	150	200
code	TECC016	TECC020	TECC025	TECC032	TECC040	TECC050	TECC063	TECC075	TECC090	TECC110	TECC125	TECC140	TECC160	TECC200

Reduced tee 90°
Female connections to be glued.

d (mm)	25x20	32x20	32x25	40x20	40x25	40x32	50x20	50x25	50x32	50x40	63x25	63x32	63x40
DN	20x15	25x15	25x20	32x15	32x20	32x25	40x15	40x20	40x25	40x32	50x20	50x25	50x32
code	TERCC2520	TERCC3220	TERCC3225	TERCC4020	TERCC4025	TERCC4032	TERCC5020	TERCC5025	TERCC5032	TERCC5040	TERCC6325	TERCC6332	TERCC6340

d (mm)	63x50	75x50	90x63	90x75	110x90
DN	50x40	65x40	80x50	80x65	100x80
code	TERCC6350	TERCC7550	TERCC9063	TERCC9075	TERCC11090

Tee 45°
Female connections to be glued.

d (mm)	20	25	32	40	50	63
DN	15	20	25	32	40	50
code	TE45CC20	TE45CC25	TE45CC32	TE45CC40	TE45CC50	TE45CC63

Male nipple
Male threaded.

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	MECT02	MECT03	MECT04	MECT05	MECT06	MECT07

3 piece union
EPDM tightness - DIN 8063 - Female connections to be glued - PS: 16 bar up to DN50, 10 bar above.

d (mm)	16	20	25	32	40	50	63	75	90
DN	10	15	20	25	32	40	50	65	80
code	U3PCC016	U3PCC020	U3PCC025	U3PCC032	U3PCC040	U3PCC050	U3PCC063	U3PCC075	U3PCC090

Threaded collar for 3 piece union
EPDM tightness - DIN 8063 - Female threaded - PS: 16 bar up to 2", 10 bar above.

d (mm)	16	20	25	32	40	50	63	75
Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
code	CU3PCT01	CU3PCT02	CU3PCT03	CU3PCT04	CU3PCT05	CU3PCT06	CU3PCT07	CU3PCT08

Female socket
Female connections to be glued.

d (mm)	16	20	25	32	40	50	63	75	90	110	125	140	160	200
DN	10	15	20	25	32	40	50	65	80	100	125	125	150	200
code	MCC016	MCC020	MCC025	MCC032	MCC040	MCC050	MCC063	MCC075	MCC090	MCC110	MCC125	MCC140	MCC160	MCC200

Adaptor BSP

Male (d1) & female (d2) connections to be glued - Male threaded.

d1 (mm)	20	25	32	40	50	63
d2 (mm)	16	20	25	32	40	50
Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	EACM1602	EACM2003	EACM2504	EACM3205	EACM4006	EACM5007

Threaded nipple with ring BSP

Stainless steel reinforcement ring -
Female connection to be glued (d) - Female threaded.

d (mm)	20	25	32	40	50	63
Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	MRCM2002	MRCM2503	MRCM3204	MRCM4005	MRCM5006	MRCM6307

Hose connection

Male connection to be glued (d1) - Hose connection (d2).

d1 (mm)	16	20	25	32	40	50	63
d2 (mm)	16/18	20/22	25/27	30/32	40/42	50/52	60/64
DN	10	15	20	25	32	40	50
code	ECCC16	ECCC20	ECCC25	ECCC32	ECCC40	ECCC50	ECCC63

Collar for striated face flange

Female connection to be glued.

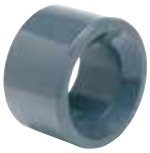
d (mm)	20	25	32	40	50	63	75	90	110	125	140	160	200	225	250	315
DN	15	20	25	32	40	50	65	80	100	125	125	150	200	225	250	300
code	CJPCC020	CJPCC025	CJPCC032	CJPCC040	CJPCC050	CJPCC063	CJPCC075	CJPCC090	CJPCC110	CJPCC125	CJPCC140	CJPCC160	CJPCC200	CJPCC225	CJPCC250	CJPCC315

Flange

DIN 8063.

d (mm)	20	25	32	40	50	63	75	90	110	125	140	160	200	225	250	315
DN	15	20	25	32	40	50	65	80	100	125	125	150	200	225	250	300
code	BTC020	BTC025	BTC032	BTC040	BTC050	BTC063	BTC075	BTC090	BTC110	BTC125	BTC140	BTC160	BTC200	BTC225	BTC250	BTC315

Reduction



Male (d1) & female (d2) connections to be glued - PS: 16 bar.

d1 (mm)	20	25	25	32	32	40	40	40	50	50	50	63	63	63	75	75	75
d2 (mm)	16	16	20	20	25	20	25	32	25	32	40	32	40	50	40	50	63
code	RSCC2016	RSCC2516	RSCC2520	RSCC3220	RSCC3225	RSCC4020	RSCC4025	RSCC4032	RSCC5025	RSCC5032	RSCC5040	RSCC6332	RSCC6340	RSCC6350	RSCC7540	RSCC7550	RSCC7563

d1 (mm)	90	90	90	110	110	110	125	125	125	140	140	140	160	160	160	160
d2 (mm)	50	63	75	63	75	90	75	90	110	90	110	125	90	110	125	140
code	RSCC9050	RSCC9063	RSCC9075	RSCC11063	RSCC11075	RSCC11090	RSCC12575	RSCC12590	RSCC125110	RSCC14090	RSCC140110	RSCC140125	RSCC16090	RSCC160110	RSCC160125	RSCC160140

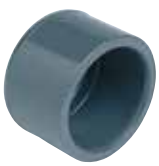
Double reduction

Male (d1) & female (d2 & d3) connections to be glued - PS: 16 bar.

d1 (mm)	25	25	32	32	32	40	40	40	50	50	50	63	63	63	75	75	75
d2 (mm)	20	20	25	25	25	32	32	32	40	40	40	50	50	50	63	63	63
d3 (mm)	16	20	16	20	25	20	25	32	25	32	40	32	40	50	40	50	63
code	RDCC252016	RDCC252020	RDCC322516	RDCC322520	RDCC322525	RDCC403220	RDCC403225	RDCC403232	RDCC504025	RDCC504032	RDCC504040	RDCC635032	RDCC635040	RDCC635050	RDCC756340	RDCC756350	RDCC756363

d1 (mm)	90	90	90	110	110	110	110	125	125	125	125	140	140	160
d2 (mm)	75	75	75	90	90	90	90	110	110	110	110	125	125	140
d3 (mm)	50	63	75	50	63	75	90	63	75	90	110	90	110	110
code	RDCC907550	RDCC907563	RDCC907575	RDCC1109050	RDCC1109063	RDCC1109075	RDCC1109090	RDCC12511063	RDCC12511075	RDCC12511090	RDCC125110110	RDCC14012590	RDCC140125110	RDCC160140110

Cap



Female connection to be glued.

d (mm)	16	20	25	32	40	50	63
DN	10	15	20	25	32	40	50
code	BCC016	BCC020	BCC025	BCC032	BCC040	BCC050	BCC063

Expansion joint
Female connections to be welded.

d (mm)	20	25	32	40	50	63	75	90	110
DN	15	20	25	32	40	50	65	80	100
axial movement (mm)	54	60	68	74	81	95	108	122	149
code	CDDEC020	CDDEC025	CDDEC032	CDDEC040	CDDEC050	CDDEC063	CDDEC075	CDDEC090	CDDEC110

PVC solvent cement 965 ml Tite'n fast

code	COLPVC01

Cleaning agent 1 l - PVC PLUDET 1000

code	DECAP01

PP fittings

PP body - PS: 10 bar - TS: +10°C/+80°C.

Elbow 90°
Female connections to be welded.

d (mm)	20	25	32	40	50	63	75	90
DN	15	20	25	32	40	50	65	80
code	C90PS020	C90PS025	C90PS032	C90PS040	C90PS050	C90PS063	C90PS075	C90PS090

Elbow 45°
Female connections to be welded.

d (mm)	20	25	32	40	50	63	75	90
DN	15	20	25	32	40	50	65	80
code	C45PS020	C45PS025	C45PS032	C45PS040	C45PS050	C45PS063	C45PS075	C45PS090

Equal tee 90°
Female connections to be welded.

d (mm)	20	25	32	40	50	63	75	90
DN	15	20	25	32	40	50	65	80
code	TEPS020	TEPS025	TEPS032	TEPS040	TEPS050	TEPS063	TEPS075	TEPS090

Female socket
Female connections to be welded.

d (mm)	20	25	32	40	50	63
DN	15	20	25	32	40	50
code	MPS020	MPS025	MPS032	MPS040	MPS050	MPS063

Threaded collar for 3 piece union BSP
DIN 8063 - Female threaded.

d (mm)	20	25	32	40	50	63
Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	CU3PPT02	CU3PPT03	CU3PPT04	CU3PPT05	CU3PPT06	CU3PPT07

3 piece union
EPDM tightness - DIN 8063 - Female connections to be welded.

d (mm)	20	25	32	40	50	63
DN	15	20	25	32	40	50
code	U3PPS020	U3PPS025	U3PPS032	U3PPS040	U3PPS050	U3PPS063

Threaded nipple

Female connection to be welded (d) - Female threaded.

d (mm)	20	25	32	40	50	63
Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	MTPM2002	MTPM2503	MTPM3204	MTPM4005	MTPM5006	MTPM6307

Collar for striated face flange

Female connection to be welded.

d (mm)	20	25	32	40	50	63	75	90	110
DN	15	20	25	32	40	50	65	80	100
code	CJPPS020	CJPPS025	CJPPS032	CJPPS040	CJPPS050	CJPPS063	CJPPS075	CJPPS090	CJPPS110

Flange

PE - Reinforced with fiberglass - Connections according to ISO 7005/EN 1092/DIN 2501.

d (mm)	20	25	32	40	50	63	75	90	110
DN	15	20	25	32	40	50	65	80	100
code	BTP020	BTP025	BTP032	BTP040	BTP050	BTP063	BTP075	BTP090	BTP110

Reduction

Male (d1) & female (d2) connections to be welded.

d1 (mm)	25	32	40	40	50	50	63	63
d2 (mm)	20	25	25	32	32	40	40	50
code	RSPS2520	RSPS3225	RSPS4025	RSPS4032	RSPS5032	RSPS5040	RSPS6340	RSPS6350

O-ring for union

	d (mm)	20	25	32	40	50	63	75	90
EPDM	code	JTUE020	JTUE025	JTUE032	JTUE040	JTUE050	JTUE063	JTUE075	JTUE090
FKM	code	JTUF020	JTUF025	JTUF032	JTUF040	JTUF050	JTUF063	JTUF075	JTUF090

Flat gasket for collar

	d (mm)	20	25	32	40	50	63	75	90	110	125	140	160	200
EPDM	code	JPCE020	JPCE025	JPCE032	JPCE040	JPCE050	JPCE063	JPCE075	JPCE090	JPCE110	JPCE125	JPCE140	JPCE160	JPCE200

Medium	Concentration	Formula	T°C	Solution	PVC-U	PP	PVDF	PTFE	EPDM	FPM
Hydrochloric acid	30	HCl	40	Aqueous	+	o	+	+	+	+
Hydrochloric acid	30	HCl	20	Aqueous	+	+	+	+	+	+
Hydrochloric acid	30	HCl	60	Aqueous	o	o	+	+	o	o
Hydrochloric acid	30	HCl	80	Aqueous		-	+	+		
Hydrochloric acid	30	HCl	100	Aqueous			+	+		
Hydrochloric acid	30	HCl	120	Aqueous						
Hydrofluoric acid	70	HF	20	Aqueous	o	o	+	+	-	o
Hydrofluoric acid	70	HF	40	Aqueous			+	+		
Hydrofluoric acid	70	HF	60	Aqueous			+	+		
Hydrofluoric acid	70	HF	80	Aqueous			+	+		
Hydrofluoric acid	70	HF	100	Aqueous			+	+		
Hydrofluoric acid	70	HF	120	Aqueous						
Ammonia	25	NH_4OH	20	Aqueous	+	+	-	+	+	+
Ammonia	25	NH_4OH	40	Aqueous	+	+		+	+	o
Ammonia	25	NH_4OH	60	Aqueous	o	+		+	+	
Ammonia	25	NH_4OH	80	Aqueous				+		
Ammonia	25	NH_4OH	100	Aqueous				+		
Ammonia	25	NH_4OH	120	Aqueous						
Sulphuric acid	96	H_2SO_4	20	Aqueous	+	-	+	+	-	+
Sulphuric acid	96	H_2SO_4	40	Aqueous	o		+	+		
Sulphuric acid	96	H_2SO_4	60	Aqueous			+	+		
Sulphuric acid	96	H_2SO_4	80	Aqueous			o	+		
Sulphuric acid	96	H_2SO_4	100	Aqueous			-	+		
Sulphuric acid	96	H_2SO_4	120	Aqueous						
Sulphuric acid	50	H_2SO_4	20	Aqueous	+	+	+	+	+	+
Sulphuric acid	50	H_2SO_4	40	Aqueous	+	+	+	+	+	+
Sulphuric acid	50	H_2SO_4	60	Aqueous	o	+	+	+	o	+
Sulphuric acid	50	H_2SO_4	80	Aqueuse			+	+		o
Sulphuric acid	50	H_2SO_4	100	Aqueous			+	+		
Sulphuric acid	50	H_2SO_4	120	Aqueous						
Ferric chloride	50	$FeCl_3$	20	Aqueous	+	+	+	+	+	+
Ferric chloride	50	$FeCl_3$	40	Aqueous	+	+	+	+	+	+
Ferric chloride	50	$FeCl_3$	60	Aqueous		+	+	+	+	+
Ferric chloride	50	$FeCl_3$	80	Aqueous		+	+	+	+	+
Ferric chloride	50	$FeCl_3$	100	Aqueous			+	+	o	+
Ferric chloride	50	$FeCl_3$	120	Aqueous						
Methyl alcohol	100	CH_4O	20	Pure	+	+	+	+	+	o
Methyl alcohol	100	CH_4O	40	Pure	+	+	+	+	+	o
Methyl alcohol	100	CH_4O	60	Pure	o	+	+	+	+	o
Methyl alcohol	100	CH_4O	80	Pure			+	+		
Methyl alcohol	100	CH_4O	100	Pure			+	+		
Methyl alcohol	100	CH_4O	120	Pure						
Sodium hydroxide	30	NaOH	20	Aqueous	+	+	-	+	+	o
Sodium hydroxide	30	NaOH	40	Aqueous	+	+		+	+	-
Sodium hydroxide	30	NaOH	60	Aqueous		+		+	+	
Sodium hydroxide	30	NaOH	80	Aqueous				+		

Medium	Concentration	Formula	T°C	Solution	PVC-U	PP	PVDF	PTFE	EPDM	FPM
Sodium hydroxide	30	NaOH	100	Aqueous				+		
Sodium hydroxide	30	NaOH	120	Aqueous				+		
Sodium hypochlorite	12,5% Cl	NaClO	20	Aqueous	+	o	o			
Sodium hypochlorite	12,5% Cl	NaClO	40	Aqueous	+	-	o	+	o	+
Sodium hypochlorite	12,5% Cl	NaClO	60	Aqueous	o		-	+		
Sodium hypochlorite	12,5% Cl	NaClO	80	Aqueous				+		
Sodium hypochlorite	12,5% Cl	NaClO	100	Aqueous				+		
Sodium hypochlorite	12,5% Cl	NaClO	120	Aqueous				+		
Hydrogen sulfide	100	H_2S	20	Gas	+	+	+			
Hydrogen sulfide	100	H_2S	40	Gas	+	+	+	+	+	-
Hydrogen sulfide	100	H_2S	60	Gas	+	+	+	+	o	
Hydrogen sulfide	100	H_2S	80	Gas			+	+	-	
Hydrogen sulfide	100	H_2S	100	Gas			+	+		
Hydrogen sulfide	100	H_2S	120	Gas				+		
Demineralised water	100	H^2O	20	Pure	+	+	+			
Demineralised water	100	H^2O	40	Pure	+	+	+	+	+	+
Demineralised water	100	H^2O	60	Pure	+	+	+	+	+	+
Demineralised water	100	H^2O	80	Pure		+	+	+	o	+
Demineralised water	100	H^2O	100	Pure			+	+	-	+
Demineralised water	100	H^2O	120	Pure			+	+		+
Calcium hydroxide	SAT	$Ca(OH)_2$	20	Aqueous	+	+	o	+		+
Calcium hydroxide	SAT	$Ca(OH)_2$	40	Aqueous	+	+	o	+	+	+
Calcium hydroxide	SAT	$Ca(OH)_2$	60	Aqueous	+	+	o	+	+	o
Calcium hydroxide	SAT	$Ca(OH)_2$	80	Aqueous		+	-	+	+	o
Calcium hydroxide	SAT	$Ca(OH)_2$	100	Aqueous				+	+	o
Calcium hydroxide	SAT	$Ca(OH)_2$	120	Aqueous				+		o
Nitric acid	70	HNO_3	20	Aqueous	o	-	+			
Nitric acid	70	HNO_3	40	Aqueous	o		+	+	-	+
Nitric acid	70	HNO_3	60	Aqueous	-		+	+		o
Nitric acid	70	HNO_3	80	Aqueous				+		-
Nitric acid	70	HNO_3	100	Aqueous				+		
Nitric acid	70	HNO_3	120	Aqueous				+		
Sodium chloride	SAT	NaCl	20	Aqueous	+	+	+			
Sodium chloride	SAT	NaCl	40	Aqueous	+	+	o	+	+	+
Sodium chloride	SAT	NaCl	60	Aqueous	+	+	o	+	+	+
Sodium chloride	SAT	NaCl	80	Aqueous		+		+	+	+
Sodium chloride	SAT	NaCl	100	Aqueous				+	+	
Sodium chloride	SAT	NaCl	120	Aqueous				+		
Citric acid	SAT	$C_6H_8O_7$	20	Aqueous	+	+	+			
Citric acid	SAT	$C_6H_8O_7$	40	Aqueous	+	+	+	+	+	+
Citric acid	SAT	$C_6H_8O_7$	60	Aqueous	o	+	+	+	+	+
Citric acid	SAT	$C_6H_8O_7$	80	Aqueous		+	+	+	+	+
Citric acid	SAT	$C_6H_8O_7$	100	Aqueous			+	+		
Citric acid	SAT	$C_6H_8O_7$	120	Aqueous			+	+		

+ = resistant
o = limited resistance
- = non-resistant
empty = not tested at the specified temperature

The above manual is not binding and does not imply Syveco's reponsibility.

Valves for building

- Ball valves 332
- Float valves 338
- Gate valves 339
- Needle valves 339
- Globe valves 339
- Bibcock valves 340
- Check valves 341
- Y-strainers 343
- PVC valves 344

PN25/20

Mandatory packing applies

Excluded from 2014/68/EU Directive (article 4, §3) - CW617N brass body - PTFE gland pack & seats - Chrome-plated brass ball up to 3/4“, stainless steel ball above - Standard bore - Anti-blowout stem - Tracking: "15S" marked on body - TS: -10°C/+120°C.
⚠ **Complies with the 4MS Composition List & accepted metallic materials for potable drinking water.**

Female/female

515 - Red steel lever
516 - Red butterfly handle

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
PS (bar)	25	25	25	20	20	16	10
pack	10	10	16	12	8	1	1
515 code	515004	515005	515006	515007	515008	515009	515010
pack	15	12	16				
516 code	516004	516005	516006	-	-	-	-

Male/female

562 - Red steel lever
563 - Red butterfly handle

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	25	25	25	20	20	16
pack	10	10	16	12	8	1
562 code	562004	562005	562006	562007	562008	562009
pack	15	12	16			
563 code	563004	563005	563006	-	-	-

Male/male

572 - Red steel lever
573 - Red butterfly handle

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	25	25	25	20	20	16
pack	10	10	16	12	8	1
572 code	572004	572005	572006	572007	572008	572009
pack	15	15	12			
573 code	573004	573005	573006	-	-	-

PN30/20

*Mandatory packing applies

Excluded from 2014/68/EU Directive (article 4, §3) - Nickel-plated CW617N brass body - PTFE gland pack & seats - Chrome-plated brass ball - **Full bore** - Anti-blowout stem - Tracking: "80S" marked on body - TS: -10°C/+120°C.

Female/female

580 - Red steel lever
508 - Blue steel lever
586 - Red butterfly handle
564 - Blue butterfly handle

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	30	30	30	30	30	20	20	16	10	10	10
pack	10*	10*	10*	10*	10	8	6	4	4	4	1
580 code	580002	580003	580004	580005	580006	580007	580008	580009	580010	580011	580012
586 code	586002	586003	586004	586005	586006	-	-	-	-	-	-
508 code	508002	508003	508004	508005	508006	508007	508008	508009	-	-	-
564 code	564002	564003	564004	564005	564006	-	-	-	-	-	-

Male/female

581 - Red steel lever
511 - Blue steel lever
587 - Red butterfly handle
533 - Blue butterfly handle

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	30	30	30	30	30	20	20	16
pack	10*	10*	10*	10*	10	8	6	4
581 code	581002	581003	581004	581005	581006	581007	581008	581009
587 code	587002	587003	587004	587005	587006	-	-	-
511 code	511002	511003	511004	511005	511006	-	-	-
533 code	533002	533003	533004	533005	533006	-	-	-

Male/male

582 - Red steel lever
529 - Blue steel lever
588 - Red butterfly handle
536 - Blue butterfly handle

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	30	30	30	30	20	20	16
pack	10*	10*	10*	10	8	6	4
582 code	582003	582004	582005	582006	582007	582008	582009
588 code	588003	588004	588005	588006	-	-	-
529 code	529003	529004	529005	529006	-	-	-
536 code	536003	536004	536005	536006	-	-	-

Female/female - With drainer

585 - Red steel lever
560 - Red butterfly handle

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	30	30	30	20	20	16
pack	10	10	10	8	6	4
585 code	585004	585005	585006	585007	585008	585009
560 code	560004	560005	560006	-	-	-

Spare stem extension

For PN30/20 series, except butterfly handle valves.

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	9812330	9812331	9812331	9812332	9812333	9812333	9812334

Guarantee 5 Years

*Mandatory packing applies

PN40/30 - Lead-free brass

Excluded from 2014/68/EU Directive (article 4, §3) - Nickel-plated **lead-free** CW510L brass body - PTFE gland pack & seats - Chrome-plated brass ball up to 1/2", stainless steel ball above - **Full bore** - Anti-blowout stem - Tracking: "9SP" marked on body - TS: -10°C/+120°C.
⚠ **Complies with the 4MS Composition List & accepted metallic materials for potable drinking water.**

Female/female

509 - Red steel lever **525 - Red butterfly handle**

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	40	40	40	40	40	30	25	20	10	10	10
pack	10*	10*	10*	10*	10	8	6	4	1	1	1
509 code	509002	509003	509004	509005	509006SF	509007	509008SF	509009	509010SF	509011	509012SF
525 code	525002	525003	525004	525005	525006	-	-	-	-	-	-

Male/female

571 - Red steel lever **570 - Red butterfly handle**

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	40	40	40	40	40	30	25	20
pack	10	10	10	10	10	8	6	4
571 code	571002	571003	571004	571005	571006	571007	571008	571009
570 code	570002	570003	570004	570005	570006	-	-	-

Male/male

566 - Red steel lever **565 - Red butterfly handle**

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	40	40	40	40	30	25	20
pack	10	10	10	10	8	6	4
566 code	566003	566004	566005	566006	566007	566008	566009
565 code	565003	565004	565005	565006	-	-	-

Female/female - With drainer

510 - Red steel lever **530 - Red butterfly handle**

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	40	40	40	30	20	20
pack	10	10	10	8	6	4
510 code	510004	510005	510006	510007	510008	510009
530 code	530004	530005	530006	-	-	-

Guarantee 10 Years

PN40/30 - NF

*Mandatory packing applies

Excluded from 2014/68/EU Directive (article 26) - Nickel-plated CW617N brass body - PTFE doubletightness gland pack & seats - EPDM o-ring - Chrome-plated CW617N brass ball - **Full bore** - **Large flat bearing** - Corrosion resistant handle & nut - Tracking: Airaga marked on body & handle - TS: -5°C/+90°C.

Female/female

577 - Green steel lever **578 - Green aluminium butterfly handle**

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	40	40	40	40	25	25	16	16
pack	10*	10*	10*	10*	10	8	6	4
577 code	577002	577003	577004	577005	577006	577007	577008	577009
578 code	578002	578003	578004	578005	578006	-	-	-

Male/female

528 - Green steel lever **569 - Green aluminium butterfly handle**

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	40	40	40	40	25	25	16	16
pack	10	10	10	10	10	6	3	2
528 code	528002	528003	528004	528005	528006	528007	528008	528009
569 code	569002	569003	569004	569005	569006	-	-	-

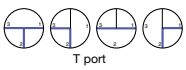
Male/male

567 - Green steel lever **568 - Green aluminium butterfly handle**

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	40	40	40	25	25	16	16
pack	10	10	10	10	6	3	2
567 code	567003	567004	567005	567006	567007	567008	567009
568 code	568003	568004	568005	568006	-	-	-

3 way valves

L port

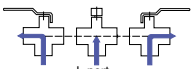


T port

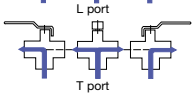
Excluded from 2014/68/EU Directive (article 4, §3) - Nickel-plated CW617N brass body - PTFE gland pack - Chrome-plated brass ball - 3 way tightness - PS: 16 bar - TS: -10°C/+120°C.

513 - PN16 L-port **514 - PN16 T-port**

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
513 code	513002	513003	513004	513005	513006	513007	513008	513009
514 code	514002	514003	514004	514005	514006	514007	514008	514009



L port



T port

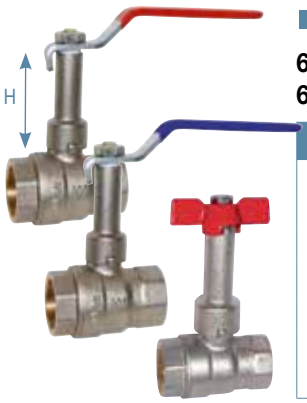
Excluded from 2014/68/EU Directive (article 4, §3) - Nickel-plated CW617N brass body - CW614N ball - PTFE gland pack & ball seat - FKM o-ring - Carbon steel handle - L-port: full bore - T-port: standard bore - PS: 25 bar - TS: -10°C/+100°C.

534 - PN25 L-port **535 - PN25 T-port**

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	3"
534 code	534002	534003	534004	534005	534006	534007	534008	534009	534011
535 code	535002	535003	535004	535005	535006	535007	535008	535009	535011

Stem extension valves

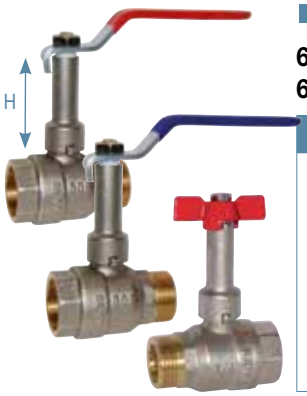
PN25/20 - Excluded from 2014/68/EU Directive (article 4, §3) - Nickel-plated CW617N brass body - PTFE gland pack & seats - Chrome-plated brass ball - Reversible handle - **Full bore** - Tracking: “80S” marked on body - TS: -10°C/+120°C.



Female/female

615 - Red steel lever
6151 - Blue steel lever
617 - Red butterfly handle

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	30	30	30	30	20	20	16
H (mm)	50	50	50	60	70	70	70
pack	10	10	8	5	4	3	1
615 code	615003	615004	615005	615006	615007	615008	615009
6151 code	-	615104	615105	615106	615107	615108	615109
617 code	-	617004	617005	-	-	-	-



Male/female

616 - Red steel lever
6161 - Blue steel lever
618 - Red butterfly handle

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	30	30	30	30	20	20	16
H (mm)	50	50	50	60	70	70	70
pack	10	10	8	5	4	3	1
616 code	616003	616004	616005	616006	616007	616008	616009
6161 code	-	616104	616105	616106	616107	616108	616109
618 code	-	618004	618005	-	-	-	-

Male/male

609 - Red steel lever

Ø	1/2"	3/4"	1"
PS (bar)	30	30	30
H (mm)	50	50	60
pack	10	8	5
code	609004	609005	609006

Valve for gas

GAS

Excluded from 2014/68/EU Directive (article 1, §2fV) - Valve for public gas network - Class MOP 5 - CW617N brass body - Anti-blowout stem - Chrome-plated brass ball - PTFE seats - NBR o-ring on stem - PS: 0 to 5 bar - TS: -5°C/+60°C.

620 - Female/female

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	10	10	10	5	3	2
code	620004	620005	620006	620007	620008	620009

Mini valves

Excluded from 2014/68/EU Directive (article 4, §3) - Nickel-plated CW617N brass body - PTFE ball seats - Aluminium handle - Anti-blowout stem - PS: 16 bar - TS: -10°C/+90°C.

677 - Female/female
697 - Female/female with exhaust hole

Ø	1/4"	3/8"	1/2"
677 code	677002	677003	677004
697 code	697002	697003	697004

674 - Male/female
694 - Male/female with exhaust hole

Ø	1/4"	3/8"	1/2"
674 code	674002	674003	674004
694 code	694002	-	694004

690 - Male/male

Ø	1/4"	3/8"	1/2"
code	690002	690003	690004

Mini valves for compressed air

COMPRESSED AIR

Excluded from 2014/68/EU Directive (article 4, §3) - PN16 - Chrome-plated CW617N brass body - PTFE seats - FKM o-ring - Bore: 5,5 mm - TS: -10°C/+90°C.

691 - Female/female

Ø	1/8"	1/4"
PS (bar)	16	16
code	691001	691002

692 - Male/female

Ø	1/8"	1/4"
PS (bar)	16	16
code	692001	692002

693 - Male/male

Ø	1/8"
PS (bar)	16
code	693001

Water meter valves

Excluded from 2014/68/EU Directive (article 4, §3) - Chrome-plated brass ball - CW617N brass body - PTFE gland pack & ball seats - PS: 20 bar - TS: -10°C/+120° C.

635 - Female/female

Ø free nut	3/4"	3/4"
Ø connection	1/2"	3/4"
pack	10	10
code	635054	635055

636 - Male/female

Ø free nut	1/2"	3/4"	3/4"	3/4"
Ø connection	1/2"	1/2"	3/4"	1"
pack	10	10	10	10
code	636044	636054	636055	636056

638 - Female/female with lock & key

Ø free nut	3/4"
Ø connection	3/4"
code	638055

637 - Male/female with lock & key

Ø free nut	3/4"	3/4"	3/4"	1"
Ø connection	1/2"	3/4"	1"	1"
code	637054	637055	637056	637066

Union fitting valve

Excluded from 2014/68/EU Directive (article 4, §3) - Nickel-plated CW617N brass body - PTFE seats - NBR o-ring on stem - Aluminium handle - **Full bore** - Anti-blowout stem - PS: 25 bar - TS: -10°C/+80°C.

524 - Male/female

Ø	1/2"	3/4"	1"	1"1/4
pack	10	10	10	6
code	524004	524005	524006	524007

Other valves

Excluded from 2014/68/EU Directive (article 4, §3) - CW617N brass body - PTFE gland pack & seats - Chrome-plated brass ball - Aluminium handle - PS: 16 bar - TS: -10°C/+120°C.

555A - Male/male & male/female

high Ø	1/2"M	1/2"F	3/4"M	3/4"M
low Ø	1/2"M	1/2"M	1/2"M	3/4"M
pack	10	10	10	10
code	555040	555044	555043	555055

Excluded from 2014/68/EU Directive (article 4, §3) - CW617N brass body.

Valve with probe holder outlet

Ø	1/2"	3/4"	1"
code	9811004	9811005	9811006

Distribution manifold valves

Excluded from 2014/68/EU Directive (article 4, §3) - CW617N brass body - For flat bearing manifolds.

633 - Male/female

PS: 25 bar -
TS: -10°C/+120°C.

Ø free nut	1/2"
Ø male	1/2"
pack	10
code	633044

Male/female standard

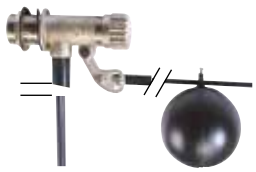
PS: 10 bar -
TS: 0°C/+80°C.

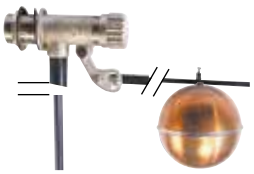
Ø free nut	1/2"
Ø male	1/2"
pack	10
code	VANP2E

678 - Female/male

PS: 25 bar -
TS: -10°C/+100°C.

Ø	1/2"
pack	10
code	678004





Excluded from 2014/68/EU Directive (article 4, §3) - ACS certification for ref. 491 only - Stainless steel inner mechanism - EPDM gasket - PS: 5-10 bar depending on DN - TS: Copper float: 0°C/+80°C or PE float: 0°C/+60°C.

490 - Brass body - PE float 491 - Brass body - Copper float

Ø male	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Ø float	120	150	180	220	220	300
490 code	490004	490005	490006	490007	490008	490009
491 code	491004	491005	491006	491007	491008	491009

Excluded from 2014/68/EU Directive (article 4, §3) - PVC-U body - EPDM or FKM seat & gasket - PE float - Stainless steel stem - PS: 10 bar up to DN32, 5 bar above - TS: 0°C/+60°C.

RF1 - PVC-U

d (mm)	20	25	32	40	60	63	75	90
DN	15	20	25	32	40	50	65	80
EPDM gaskets code	6200RT015	6200RT020	6200RT025	6200RT032	6200RT040	6200RT050	6200RT065	6200RT080

Gate valves

Excluded from 2014/68/EU Directive (article 4, §3) - EPDM gland pack - Full bore - Non-rising stem - PS: 16 bar - TS: -10°C/+80°C - Incomplete tightness: loss factor 0,5%.

102 - Brass

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	102002	102003	102004	102005	102006	102007	102008	102009	102010	102011	102012

146 - Bronze body - Brass gate & inner parts

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	146002	146003	146004	146005	146006	146007	146008	146009	146010	146011	146012

AIRAGA

Excluded from 2014/68/EU Directive (article 4, §3) - Bronze body - CW617N brass gate & bonnet - Metal-metal tightness - PTFE stem gasket - Full bore - Quick closing - PS: 16 bar up to 2", 10 bar above - TS: -10°C/+110°C.

140 - Bronze - Quick closing

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
code	140003	140004	140005	140006	140007	140008	140009	140010	140011	140012

Needle valve

Excluded from 2014/68/EU Directive (article 4, §3) - B62 Bronze body - Brass hat, needle & seat - PS: 25 bar - TS: -10°C/+180°C.

482 - Bronze

Ø	1/4"	3/8"	1/2"	3/4"
code	482002	482003	482004	482005

Globe valves

2014/68/EU Directive N°0497 - Risk category III / module H - For fluids of group 2 - B62 Bronze body - Brass globe & bonnet - PTFE gland pack - PS: 16 bar - TS: -10°C/+110°C.

CE 0497

460 - Bronze - Metal-metal tightness 462 - Bronze - PTFE tightness

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
460 code	460002	460003	460004	460005	460006	460007	460008	460009
462 code	462002	462003	462004	462005	462006	462007	462008	462009

2014/68/EU Directive N°0497 - Risk category III / module H - For fluids from group 2 - B62 Bronze body - F316L globe - Brass union bonnet - PS: 25 bar - TS: -10°C/+180°C.

CE 0497

451 - Bronze - Metal-metal tightness 454 - Bronze - PTFE tightness

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
451 code	451002	451003	451004	451005	451006	451007	451008	451009
454 code	454002	454003	454004	454005	454006	454007	454008	454009

Excluded from 2014/68/EU Directive (article 4, §3) - For fluids from group 2 - Brass body up to Ø 2", cast iron body above - PS: 10 bar - TS: -10°C/+100°C.

430 - Perfection valve

Ø	3/4"	1"1/2	2"	2"1/2	3"	4"
code	430005	430008	430009	430010	430011	430012

Brass

Excluded from 2014/68/EU Directive (article 4, §3) - CW617N brass body - Chrome-plated brass ball - Provided with hose connection.

696 - Nickel-plated brass

With red steel lever -
PS: 16 bar - TS: 0°C/+60°C.

Ø	1/2"	3/4"	3/4"
outlet	3/4"	3/4"	1"
hose	19	19	20,4
pack	8	12	8
code	696045	696055	696056

696 - Nickel-plated brass

With blue steel lever -
PS: 16 bar - TS: 0°C/+60°C.

Ø	3/4"
outlet	3/4"
hose	19
pack	12
code	696255

6961 - Nickel-plated brass

With butterfly handle -
PS: 16 bar - TS: 0°C/+60°C.

Ø	1/2"	3/4"	3/4"
outlet	3/4"	3/4"	1"
hose	19	19	20,4
pack	8	12	8
code	696145	696155	696156

699 - Nickel-plated brass

With locking device -
PS: 16 bar - TS: -10°C/+60°C.

Ø	1/2"	3/4"
outlet	3/4"	3/4"
hose	19	19
code	699045	699055

682 A - Plain brass

With red steel lever -
PS: 16 bar - TS: 0°C/+60°C.

Ø	1/2"	1/2"	3/4"	3/4"	1"
outlet	3/4"	3/4"	3/4"	1"	1"1/4
hose	15	17	18	22	26
pack	10	10	10	10	4
code	682045	682046	682055	682056	682067

681 A - Plain brass

With brass butterfly handle -
PS: 16 bar - TS: 0°C/+60°C.

Ø	1/2"
outlet	3/4"
hose	17
pack	10
code	681045

680 - Tampered head drive

Nickel-plated brass -
PS: 16 bar - TS: 0°C/+60°C.

Ø	1/2"	3/4"
outlet	3/4"	3/4"
hose	19	19
code	680045	680055

Key for tampered head drive 6 mm

code	9810401

698 - Anti-frost

Chrome-plated brass -
PS: 20 bar - TS: -10°C/+90°C.

Ø	1/2"
outlet	3/4"
hose	16
code	698045

1345 - Brushed brass

PS: 10 bar - TS: 0°C/+60°C.

Ø	1/2"	3/4"	3/4"
outlet	3/4"	3/4"	1"
hose	17	17	21
code	1345045	1345055	1345056

695 - Watering box

With angle brass ball valve -
PS: 16 bar - TS: -10°C/+100°C.

Ø	15	20
male outlet	3/4"	1"
female hose	3/4"+1/2"	3/4"
code	695015	695020

Stainless steel

Excluded from 2014/68/EU Directive (article 4, §3) - CF8M stainless steel body & ball - Provided with stainless steel hose connection.

RJ - Stainless steel - S-First

PS: 16 bar - TS: -10°C/+120°C.

Ø	1/2"	3/4"	1"
outlet	3/4"	3/4"	1"
code	RJ15	RJ20	RJ25

795 - Stainless steel

PS: 16 bar - TS: -10°C/+150°C.

Ø	1/2"	3/4"
outlet	3/4"	3/4"
hose	16	16
code	795045	795055

Spring

*Mandatory packing applies

Excluded from 2014/68/EU Directive (article 4, §3) - CW617N brass body - NBR seat - TS: -10°C/+100°C (except 303, 328, 317 & 316: -10°C/+110°C).

306 - PN16 - Nylon clack

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	16	16	16	16	10	10	10	8	8	8
pack	10*	10*	10*	10	10	10	10	1	1	1
code	306003	306004	306005	306006	306007	306008	306009	306010	306011	306012

303 - PN16 - Nylon clack

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	16	16	16	16	10	10	10	8	8	8
pack	10*	10*	8*	8	6	4	2	1	1	1
code	303003	303004	303005	303006	303007	303008	303009	303010	303011	303012

307 - PN25 - Brass clack

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	25	25	25	25	18	18	18	12	12	12
pack	10	10	10	10	10	10	10	1	1	1
code	307003	307004	307005	307006	307007	307008	307009	307010	307011	307012

305 - Europa® PN25 - Brass clack

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	25	25	25	25	18	18	18	12	12	12
pack	10	10	8	6	4	4	2	1	1	1
code	305003	305004	305005	305006	305007	305008	305009	305010	305011	305012

315 - Roma® PN25 - Heavy model with drainer

Stainless steel 304 inner parts - 2 brass drainer caps - FKM gasket.

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	25	25	25	25	18	18	18
pack	10	10	8	6	4	4	2
code	315003	315004	315005	315006	315007	315008	315009

328 - Male/male - Nylon clack

Ø	3/8"	1/2"	3/4"	1"
PS (bar)	16	16	16	16
pack	10	10	8	8
code	328003	328004	328005	328006

317 - Male/female - Nylon clack

Ø	3/8"	1/2"	3/4"	1"
PS (bar)	16	16	16	16
pack	10	10	8	8
code	317003	317004	317005	317006

316 - Female/male - Nylon clack

Ø	3/8"	1/2"	3/4"	1"
PS (bar)	16	16	16	16
pack	10	10	8	8
code	316003	316004	316005	316006

Swing

Excluded from 2014/68/EU Directive (article 4, §3) - CW617N brass body - PS: 10 bar for fig. 301 & 302 - PS: 16 bar for fig. 321 & 322.

301 - Metal seat
TS : 0°C/+90°C.

302 - EPDM seat for 3/8" to 2"**- NBR seat** for 2"1/2 to 4"
TS: 0°C/+60°C.

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	10	10	10	10	10	10	10	10	10	10
pack	16	16	15	10	8	5	1	1	1	1
301 code	301003	301004	301005	301006	301007	301008	301009	301010	301011	301012
302 code	302003	302004	302005	302006	302007	302008	302009	302010	302011	302012

321 - Metal seat
TS: 0°C/+90°C.

322 - EPDM seat for 3/8" to 2"
TS: 0°C/+60°C.

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	16	16	16	16	16	16	16
pack	10	20	15	10	8	5	1
321 code	321003	321004	321005	321006	321007	321008	321009
322 code	322003	322004	322005	322006	322007	322008	322009

Vertical lift

2014/68/EU Directive N°0497 - Risk category III / module H - B62 Bronze body - CW614N Brass union cap up to 1"1/2, B62 bronze above - F316L seat - PS: 25 bar - TS: -10°C/+180°C.

CE 0497

350 - Bronze - Metal-metal tightness **354 - Bronze - PTFE tightness**

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
350 code	350002	350003	350004	350005	350006	350007	350008	350009
354 code	354002	354003	354004	354005	354006	354007	354008	354009

Foot valves

Excluded from 2014/68/EU Directive (article 4, §3) - CW617N brass body.

311 - Nylon clack Stainless steel F304 strainer - NBR gasket - TS: 0°C/+65°C.

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	16	16	16	10	10	10	8	8	8
pack	10	8	8	6	4	2	1	1	1
code	311004	311005	311006	311007	311008	311009	311010	311011	311012

310 - Nylon clack Stainless steel F304 strainer - NBR gasket - TS: -10°C/+110°C.

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	16	16	16	16	10	10	10	8	8	8
pack	10	10	8	8	6	4	2	1	1	1
code	310003	310004	310005	310006	310007	310008	310009	310010	310011	310012

304 - Full brass CW617N brass strainer - NBR gasket - TS: 0°C/+90°C.

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PS (bar)	10	10	10	8	8	8	6	6	6
pack	12	16	15	10	5	1	1	1	1
code	304004	304005	304006	304007	304008	304009	304010	304011	304012

Strainer baskets

Excluded from 2014/68/EU Directive (article 4, §3).

392 - Nylon threaded end - Stainless steel F304 screen
TS: 0°C/+95°C.

391 - Full stainless steel F316
TS: 0°C/+200°C.

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
mesh (mm)	1	1	1	1	1	1	1	1	1	1
392 code	392003	392004	392005	392006	392007	392008	392009	392010	392011	392012
mesh (mm)	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,6	1,6	1,6
391 code	391003	391004	391005	391006	391007	391008	391009	391010	391011	391012

Excluded from 2014/68/EU Directive (article 4, §3) - CW617N brass or bronze body - Stainless steel 304 screen - PS: 16 bar up to 2", 10 bar above.

206 - Brass

Mesh 0,85 mm - TS: -10°C/+120°C.

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
code	206003	206004	206005	206006	206007	206008	206009	206010

202 - Bronze

Mesh 0,4 mm up to 1", 0,5 mm above - TS: -10°C/+110°C

203 - Bronze - Screen for gas

Mesh 0,3 mm - TS: -10°C/+110°C.

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
202 code	202003	202004	202005	202006	202007	202008	202009	202010	202011	202012
203 code	203003	203004	203005	203006	203007	203008	203009	203010	203011	203012

211 - Brass with drain cock

Mesh 0,85 mm - TS: 0°C/+120°C.

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	211004	211005	211006	211007	211008	211009

210 - Bronze with drain cock

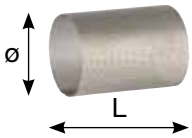
Mesh 0,28 mm - TS: -10°C/+110°C.

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	210004	210005	210006	210007	210008	210009

Stainless steel screens for Y-strainers

For threaded Y-strainers

98010 - Screens for brass Y-strainers fig. 202/206/211



Ø	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	2" 1/2	3"	4"
202 Ø x L	18x30	20x32	25x39	31x46	37x55	43x61	58x76	65x90	75x106	100x140
code	9801003	9801004	9801005	9801006	9801007	9801008	9801009	9801010	9801011	9801012
206 Ø x L	14,5x22	18,5x25	23,5x40	27,5x40,5	33,5x46	42,5x54	52,5x63	65x83		
code	9801061	9801062	9801063	9801064	9801065	9801066	9801067	9801068	-	-
211 Ø x L		18,5x25	23,5x40	27,5x40,5	33,5x46	42,5x54	52,5x63			
code	-	9801062	9801063	9801064	9801065	9801066	9801067	-	-	-

98011 - Screens for brass Y-strainers fig. 203/210

Ø	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	2" 1/2	3"	4"
Ø x L	18 x 30	20 x 32	25 x 39	31 x 46	37 x 55	43 x 61	58 x 76	65 x 90	75 x 106	100 x 140
code	9801103	9801104	9801105	9801106	9801107	9801108	9801109	9801110	9801111	9801112

Ball valves

Excluded from 2014/68/EU Directive (article 4, §3) - Use: swimming pool, water treatment & distribution - PVC-U body & ball - PP handle - HPDE ball gaskets - EPDM o-ring gaskets - Max. Δp: 3 bar - TS: 0°C/+60°C.

583 - With socket ends

d (mm)	20	25	32	40	50	63	75	90
DN	15	20	25	32	40	50	65	80
PS (bar)	16	16	16	16	16	16	10	10
code	583020	583025	583032	583040	583050	583063	583075	583090

584 - With threaded ends

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
PS (bar)	16	16	16	16	16	16	10	10
code	584004	584005	584006	584007	584008	584009	584010	584011

PVC valves for other fluids

2014/68/EU Directive - Risk category I / module A - EPDM or FKM gaskets - ABS lever - Full bore - Supplied with solvent cement socket ends as standard (option for threaded union).

W1 - PVC-U

PVC-U body & ball - TPV seat - PS: 10 bar - TS: 0°C/+55°C.

d (mm)	20	25	32	40	50	63	75	90	110
DN	15	20	25	32	40	50	65	80	100
mandatory pack	72	60	45	24	16	12	1	1	1
EPDM gaskets code	5100WC015	5100WC020	5100WC025	5100WC032	5100WC040	5100WC050	5100WC065	5100WC080	5100WC100

CL1 - PVC-U

PVC-U body & ball - PTFE seat - Anti-UV protection - PS: 10 bar - TS: 0°C/+55°C.

d (mm)	20	25	32	40	50	63	75	90	110
DN	15	20	25	32	40	50	65	80	100
EPDM gaskets code	5100SC015	5100SC020	5100SC025	5100SC032	5100SC040	5100SC050	5100SC065	5100SC080	5100SC100
FKM gaskets code	5101SC015	5101SC020	5101SC025	5101SC032	5101SC040	5101SC050	5101SC065	5101SC080	5101SC100
spare threaded union	ECL1CT02	ECL1CT03	ECL1CT04	ECL1CT05	ECL1CT06	ECL1CT07	ECL1CT08	ECL1CT09	ECL1CT10

Butterfly valve

Excluded from 2014/68/EU Directive (article 4, §3) - PVC-U body & disc - EPDM seat - 7 position ABS handle - ISO Pad - Max. Δp: 3 bar - TS: 0°C/+40°C.

1100 - Wafer - Flanged PN10

DN	65	80	100	125	150	200
PS (bar)	10	10	10	10	6	6
code	1100065	1100080	1100100	1100125	1100150	1100200

Ball check valve

Excluded from 2014/68/EU Directive (article 4, §3) - EN 12050-4 (for lifting stations) - PVC-U body - Aluminium-coated EPDM ball - EPDM gasket - PS: 10 bar - TS: 0°C/+60°C.

334 - Threaded

Ø	1"1/4	1"1/2	2"	2"1/2	3"
face to face	144	158	190	270	324
code	334007	334008	334009	334010	334011

Connections for building

- Stainless steel press piping system 346
- Galvanised carbon steel press piping system 350
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- Braided rubber flexible hoses 378
- Corrugated stainless steel flexible piping system 381

FGinox

Mandatory packing applies

Press fitting system for heating, solar heating, potable water, gas, steam, air conditioning, compressed air & hot oils - Advantages: easy to install, very reliable, low weight, no fire risk during installation - Material: stainless steel 316 for fittings, stainless steel 304 & 316 for pipes - Supplied with EPDM gasket - FKM gasket available for solar use & hot oils - Max. pressure: 16 bar - **M type press jaw** - Length pipe: 5m & 6m -
⚠ The pipes are only sold by multiple of mentionned bundles - Please consult for specific freight charges.

Stainless steel pipes

Stainless steel 304 & 316 thin welded pipes

Ø	length (m)	weight (kg/m)	bundle (m)	304 code	316 code
15 x 0,6	5	0,216	425	2TRS15M	4TRS15M
18 x 0,7	5	0,303	425	2TRS18M	4TRS18M
22 x 0,7	5	0,373	425	2TRS22M	4TRS22M
28 x 0,8	5	0,545	425	2TRS28M	4TRS28M
35 x 1	5	0,851	280	2TRS35M	4TRS35M
42 x 1,2	5	1,230	280	2TRS42M	4TRS42M
54 x 1,2	5	1,470	220	2TRS54M	4TRS54M
76,1 x 2	6	3,711	144	2TRS76M	4TRS76M

Stainless steel 316 standard welded pipes

Ø	length (m)	weight (kg/m)	bundle (m)	code
15 x 1	6	0,351	510	4TRS151
18 x 1	6	0,426	510	4TRS181
22 x 1,2	6	0,625	510	4TRS2212
28 x 1,2	6	0,805	510	4TRS2812
35 x 1,5	6	1,258	336	4TRS3515
42 x 1,5	6	1,521	336	4TRS4215
54 x 1,5	6	1,972	265	4TRS5415

Press fittings

Union connector male

Ø	15-1/2"	18-1/2"	22-3/4"	28-1"	35-1"1/4	42-1"1/2	54-2"
pack	10	10	10	5	5	2	2
code	RUMS1515	RUMS1815	RUMS2220	RUMS2825	RUMS3532	RUMS4240	RUMS5450

Union connector female

Ø	15-1/2"	18-1/2"	22-3/4"	28-1"	35-1"1/4	42-1"1/2	54-2"
pack	10	10	10	5	5	2	2
code	RUFS1515	RUFS1815	RUFS2220	RUFS2825	RUFS3532	RUFS4240	RUFS5450

Union connector female

Ø	15	18	22	28	35	42	54
pack	10	10	10	5	5	2	2
code	RUS15	RUS18	RUS22	RUS28	RUS35	RUS42	RUS54

Elbow 90° female/female

Ø	15	18	22	28	35	42	54	76,1	108
pack	10	10	10	5	5	2	2	1	1
code	CS15	CS18	CS22	CS28	CS35	CS42	CS54	CS76	CS108

Elbow 90° male/female

Ø	15	18	22	28	35	42	54
pack	10	10	10	5	5	2	2
code	CLS15	CLS18	CLS22	CLS28	CLS35	CLS42	CLS54

Elbow 45° female/female

Ø	15	18	22	28	35	42	54	76,1	108
pack	10	10	10	5	5	2	2	1	1
code	CS4515	CS4518	CS4522	CS4528	CS4535	CS4542	CS4554	CS4576	CS45108

Elbow 45° male/female

Ø	15	18	22	28	35	42	54
pack	10	10	10	5	5	2	2
code	CLS4515	CLS4518	CLS4522	CLS4528	CLS4535	CLS4542	CLS4554

Diversion elbow

Ø	15	18	22
pack	10	10	10
code	CDLS15	CDLS18	CDLS22

By-pass

Ø	15-15	18-18	22-22	28-28
pack	10	10	10	5
code	CHAS15	CHAS18	CHAS22	CHAS28

Crosier bracket

Ø	15	18	22
pack	5	5	5
code	CACS15	CACS18	CACS22

Elbow 90° female/free nut

Ø	15-1/2"	18-1/2"	18-3/4"	22-3/4"	22-1"
pack	10	10	10	10	10
code	CSET1515	CSET1815	CSET1820	CSET2220	CSET2225

Elbow 90° female/female threaded

Ø	15-1/2"	18-1/2"	22-3/4"	28-1"	35-1"1/4
pack	10	10	10	5	5
code	CFS1515	CFS1815	CFS2220	CFS2825	CFS3532

Elbow 90° female/female threaded static

Ø	15-1/2"	18-1/2"	22-3/4"	28-1"
pack	10	10	10	5
code	CFSP1515	CFSP1815	CFSP2220	CFSP2825

Elbow 15°

Ø	28	35	42	54
pack	5	5	2	2
code	CAS1528	CAS1535	CAS1542	CAS1554

Elbow 30°

Ø	28	35	42	54
pack	5	5	2	2
code	CAS3028	CAS3035	CAS3042	CAS3054

Elbow 60°

Ø	28	35	42	54
pack	5	5	2	2
code	CAS6028	CAS6035	CAS6042	CAS6054

Elbow 90°

Ø	15	18	22	28	35	42	54
pack	10	10	10	5	5	2	2
code	CAS9015	CAS9018	CAS9022	CAS9028	CAS9035	CAS9042	CAS9054

Equal nipple

Ø	15	18	22	28	35	42	54	76,1
pack	10	10	10	5	5	2	2	1
code	MS15	MS18	MS22	MS28	MS35	MS42	MS54	MS76

Long equal nipple

Ø	15	18	22	28	35	42	54
pack	10	10	10	5	5	2	2
code	MLS15	MLS18	MLS22	MLS28	MLS35	MLS42	MLS54

Expansion joint

Ø	15	18	22	28	35	42	54
pack	1	1	1	1	1	1	1
code	MDS15	MDS18	MDS22	MDS28	MDS35	MDS42	MDS54

Cap female

Ø	15	18	22	28	35	42	54	76	88	108
pack	10	10	10	5	5	2	2	1	1	1
code	BFS15	BFS18	BFS22	BFS28	BFS35	BFS42	BFS54	BFS76	BFS88	BFS108

Reducer male/female

Ø	18-15	22-15	22-18	28-15	28-18	28-22	35-15	35-18	35-22	35-28
pack	10	10	10	5	5	5	5	5	5	5
code	RLS1815	RLS2215	RLS2218	RLS2815	RLS2818	RLS2822	RLS3515	RLS3518	RLS3522	RLS3528

Ø	42-15	42-18	42-22	42-28	42-35	54-15	54-18	54-22	54-28	54-35
pack	2	2	2	2	2	2	2	2	2	2
code	RLS4215	RLS4218	RLS4222	RLS4228	RLS4235	RLS5415	RLS5418	RLS5422	RLS5428	RLS5435

Ø	54-42	76-42	76,1-54	88,9-54	88,9-76,1	108-54	108-76
pack	2	1	1	1	1	1	1
code	RLS5442	RLS7642	RLS7654	RLS8854	RLS8876	RLS10854	RLS10876

Adapter female/male threaded

Ø	15-3/8"	15-1/2"	15-3/4"	18-1/2"	18-3/4"	22-1/2"	22-3/4"	22-1"	28-3/4"	28-1"
pack	10	10	10	10	10	10	10	10	5	5
code	AMS1510	AMS1515	AMS1520	AMS1815	AMS1820	AMS2215	AMS2220	AMS2225	AMS2820	AMS2825

Ø	28-1"1/4	35-1"	35-1"1/4	35-1"1/2	42-1"1/4	42-1"1/2	54-1"1/2	54-2"	76,1-2"1/2	88,9-3"
pack	5	5	5	5	2	2	2	2	1	1
code	AMS2832	AMS3525	AMS3532	AMS3540	AMS4232	AMS4240	AMS5440	AMS5450	AMS7665	AMS8880

Adapter female/female threaded

Ø	15-1/2"	15-3/4"	18-1/2"	18-3/4"	22-1/2"	22-3/4"	22-1"	28-3/4"	28-1"	28-1"1/4
pack	10	10	10	10	10	10	10	5	5	5
code	AFS1515	AFS1520	AFS1815	AFS1820	AFS2215	AFS2220	AFS2225	AFS2820	AFS2825	AFS2832

Ø	35-1"	35-1"1/4	35-1"1/2	42-1"1/4	42-1"1/2	54-1"1/2	54-2"
pack	5	5	2	2	2	2	2
code	AFS3525	AFS3532	AFS3540	AFS4232	AFS4240	AFS5440	AFS5450

Adapter female/free nut

Ø	15-1/2"	15-3/4"	18-1/2"	18-3/4"	22-3/4"	22-1"	28-1"	28-1"1/4	35-1"1/4	42-1"1/2
pack	10	10	10	10	10	10	5	5	5	2
code	ETS1515	ETS1520	ETS1815	ETS1820	ETS2220	ETS2225	ETS2825	ETS2832	ETS3532	ETS4240

Ø	42-2"	54-2"	54-2"1/2	76,1-2"1/2
pack	2	2	2	1
code	ETS4250	ETS5450	ETS5465	ETS7665

Flanged adapter

Ø	15	18	22	28	35	42	54	76,1	88,9
pack	2	2	2	2	2	2	2	1	1
code	ABS15	ABS18	ABS22	ABS28	ABS35	ABS42	ABS54	ABS76	ABS88

Equal Tee

Ø	15	18	22	28	35	42	54	76,1	88,9	108
pack	10	10	10	5	5	2	2	1	1	1
code	TS15	TS18	TS22	TS28	TS35	TS42	TS54	TS76	TS88	TS108

Tee threaded female

Ø	15-1/2"-15	18-1/2"-18	18-3/4"-18	22-1/2"-22	22-3/4"-22	28-1/2"-28	28-3/4"-28	35-1/2"-35	35-3/4"-35	42-1/2"-42
pack	10	10	10	10	10	5	5	5	5	2
code	TFS1515	TFS1815	TFS1820	TFS2215	TFS2220	TFS2815	TFS2820	TFS3515	TFS3520	TFS4215

Ø	42-3/4"-42	54-1/2"-54	54-3/4"-54	54-2"-54	76-3/4"-76	76-2"-76	88-3/4"-88	88-2"-88	108-3/4"-108	108-2"-108
pack	2	2	2	2	1	1	1	1	1	1
code	TFS4220	TFS5415	TFS5420	TFS5450	TFS7620	TFS7650	TFS8820	TFS8850	TFS10820	TFS10850

Reduced tee

Ø	18-15-18	22-15-22	22-18-22	28-15-28	28-18-28	28-22-28	35-15-35	35-18-35	35-22-35	35-28-35
pack	10	10	10	5	5	5	5	5	5	5
code	TRS1815	TRS2215	TRS2218	TRS2815	TRS2818	TRS2822	TRS3515	TRS3518	TRS3522	TRS3528

Ø	42-22-42	42-28-42	42-35-42	54-22-54	54-28-54	54-35-54	54-42-54	76-22-76	76-28-76	76-35-76
pack	2	2	2	2	2	2	2	1	1	1
code	TRS4222	TRS4228	TRS4235	TRS5422	TRS5428	TRS5435	TRS5442	TRS7622	TRS7628	TRS7635

Ø	76,1-42-76,1	76,1-54-76,1	88-22-88	88-28-88	88-35-88	88-42-88	88-54-88	108-22-108	108-28-108	108-35-108
pack	1	1	1	1	1	1	1	1	1	1
code	TRS7642	TRS7654	TRS8822	TRS8828	TRS8835	TRS8842	TRS8854	TRS10822	TRS10828	TRS10835

Ø	108-42-108	108-54-108	108-76-108	108-88,9-108
pack	1	1	1	1
code	TRS10842	TRS10854	TRS10876	TRS10888

Spare EPDM gasket - Main use

Ø	15	18	22	28	35	42	54
pack	10	10	10	5	5	2	2
code	JS15	JS18	JS22	JS28	JS35	JS42	JS54

Spare FKM gasket - Solar & hot oils uses

Ø	15	18	22	28	35	42	54
pack	10	10	10	5	5	2	2
code	JVS15	JVS18	JVS22	JVS28	JVS35	JVS42	JVS54

Metric clamp

Ø	10	12	15	18	22	28
code	CSM10	CSM12	CSM15	CSM18	CSM22	CSM28

Single clamp with wood screw thread

Ø	10	12	15	18	22	28	35	42
code	CSB10	CSB12	CSB15	CSB18	CSB22	CSB28	CSB35	CSB42

Double clamp with wood screw thread

Ø	10	15	18	22
code	CDB10	CDB15	CDB18	CDB22

Press jaw

Ø	15	18	22	28	35	42	54
code	PS15	PS18	PS22	PS28	PS35	PS42	PS54

Press pilier set

Ø	230V Ø<76,1*	battery Ø<76,1**
code	MACHSERTSECT	MACHSERT

* includes 230V press plier; jaw not supplied. ** includes cordless press plier with battery & charger; jaw not supplied.

Galvanised carbon steel press piping system

SERTI steel

Mandatory packing applies

Press fitting system for heating, solar heating, air conditioning & compressed air installations - Advantages: easy to install, very reliable, low weight, no fire risk during installation - Material: external & internal galvanised E195 carbon steel - 10 µm thickness galvanisation - Black marking on each pipe & fitting - Toroidal seat for better tightness - Manufactured acc. to EN10305 - Supplied with EPDM (black) gasket - FKM (green) gasket available for solar use - Lens designed gasket for better tightness - Max. pressure: 16 bar up to Ø 54, 10 bar above - Temperature range: -25°C/+110°C with EPDM gasket, -20°C/+220°C with FKM gasket - **M type press jaw**.
⚠ Please consult for pipe min. quantities & specific freight charges.

Galvanised carbon steel pipes

Pipes

NEW

Ø	Ø int (mm)	3 m* weight (kg/m)	3 m* bundle (m)	3 m* code	6 m weight (kg/m)	6 m bundle (m)	6 m code
15 x 1,2	12,6	0,408	468	EZ15.3	0,391	936	EZ15
18 x 1,2	15,6	0,497	396	EZ18.3	0,476	792	EZ18
22 x 1,5	19	0,824	216	EZ22.3	0,790	432	EZ22
28 x 1,5	25	1,052	168	EZ28.3	1,008	336	EZ28
35 x 1,5	32	1,320	132	EZ35.3	1,265	264	EZ35
42 x 1,5	39	1,620	108	EZ42.3	1,553	216	EZ42
54 x 1,5	51	2,098	84	EZ54.3	2,011	168	EZ54
76,1 x 2,0	72,1	3,652	48	EZ76.3	3,500	48	EZ76
88,9 x 2,0	84,9	4,290	36	EZ88.3	4,111	48	EZ88
108 x 2,0	104	5,230	27	EZ108.3	5,017	36	EZ108

*while stocks last

Press fittings

Elbow 90° female/female

Ø	15	18	22	28	35	42	54	76,1	88,9	108
pack	20	20	10	10	5	5	2	2	1	1
code	EZC15	EZC18	EZC22	EZC28	EZC35	EZC42	EZC54	EZC76	EZC88	EZC108

Elbow 90° male/female

Ø	15	18	22	28	35	42	54	76,1	88,9	108
pack	20	20	10	10	5	5	2	2	1	1
code	EZCTU15	EZCTU18	EZCTU22	EZCTU28	EZCTU35	EZCTU42	EZCTU54	EZCTU76	EZCTU88	EZCTU108

Elbow 45° female/female

Ø	15	18	22	28	35	42	54	76,1	88,9	108
pack	20	20	10	10	5	5	2	2	1	1
code	EZC4515	EZC4518	EZC4522	EZC4528	EZC4535	EZC4542	EZC4554	EZC4576	EZC4588	EZC45108

Elbow 45° male/female

Ø	15	18	22	28	35	42	54	76,1	88,9	108
pack	20	20	10	10	5	5	2	2	1	1
code	EZCTU4515	EZCTU4518	EZCTU4522	EZCTU4528	EZCTU4535	EZCTU4542	EZCTU4554	EZCTU4576	EZCTU4588	EZCTU45108

Elbow female threaded

Ø	1/2"-22	3/4"-22	1"-28	1"1/4-35	1"1/2-42	2"-54
pack	10	10	5	5	5	5
code	EZCF222	EZCF422	EZCF1028	EZCF1435	EZCF1242	EZCF2054

Elbow male threaded

Ø	3/8"-15	1/2"-15	1/2"-18	3/4"-22	1"-28	1"1/4-35	1"1/2-42	2"-54
pack	20	10	10	10	5	5	2	2
code	EZCM815	EZCM215	EZCM218	EZCM422	EZCM1028	EZCM1435	EZCM1242	EZCM2054

Short elbow 90° threaded male

Ø	3/8"-15	1/2"-15	1/2"-18	3/4"-22	1"-28
pack	20	20	20	10	10
code	EZCCM815	EZCCM215	EZCCM218	EZCCM422	EZCCM1028

Short elbow 90° threaded female

Ø	3/4"-22	1/2"-28	3/4"-28
pack	10	10	10
code	EZCCF422	EZCCF228	EZCCF428

Equal tee

Ø	15	18	22	28	35	42	54	76,1	88,9	108
pack	20	20	20	10	4	4	2	1	1	1
code	EZT15	EZT18	EZT22	EZT28	EZT35	EZT42	EZT54	EZT76	EZT88	EZT108

Tee threaded female

Ø	15-1/2"-15	18-1/2"-18	22-1/2"-22	22-3/4"-22	28-1/2"-28	28-3/4"-28	28-1"-28	35-1/2"-35	35-3/4"-35
pack	20	20	10	10	10	10	5	5	5
code	EZTF215	EZTF218	EZTF222	EZTF422	EZTF228	EZTF428	EZTF1028	EZTF235	EZTF435

Ø	35-1"-35	42-1/2"-42	42-1"-42	42-3/4"-42	54-1/2"-54	54-1"-54	54-3/4"-54	76,1-3/4"-76,1	76,1-2"-76,1
pack	5	4	2	4	2	2	2	1	1
code	EZTF1035	EZTF242	EZTF1042	EZTF442	EZTF254	EZTF1054	EZTF454	EZTF476	EZTF2076

Ø	88,9-3/4"-88,9	88,9-2"-88,9	108-3/4"-108
pack	1	1	1
code	EZTF488	EZTF2088	EZTF4108

Reduced tee

Ø	18-15-18	22-15-22	22-18-22	28-15-28	28-18-28	28-22-28	35-15-35	35-18-35	35-22-35
pack	10	10	10	10	10	10	5	5	5
code	EZT181518	EZT221522	EZT221822	EZT281528	EZT281828	EZT282228	EZT351535	EZT351835	EZT352235

Ø	35-28-35	42-15-42	42-22-42	42-28-42	42-35-42	54-15-54	54-22-54	54-28-54	54-35-54
pack	5	4	4	4	4	2	2	2	2
code	EZT352835	EZT421542	EZT422242	EZT422842	EZT423542	EZT541554	EZT542254	EZT542854	EZT543554

Ø	54-42-54	76,1-28-76,1	76,1-35-76,1	76,1-42-76,1	76,1-54-76,1	88,9-28-88,9	88,9-35-88,9	88,9-42-88,9	88,9-54-88,9
pack	2	2	2	1	1	1	1	1	1
code	EZT544254	EZT762876	EZT763576	EZT764276	EZT765476	EZT882888	EZT883588	EZT884288	EZT885488

Ø	88,9-76,1-88,9	108-28-108	108-35-108	108-42-108	108-54-108	108-76,1-108	108-88,9-108
pack	1	1	1	1	1	1	1
code	EZT887688	EZT10828108	EZT10835108	EZT10842108	EZT10854108	EZT10876108	EZT10888108

Equal nipple

Ø	15	18	22	28	35	42	54	76,1	88,9	108
pack	20	20	20	10	10	5	2	2	2	1
code	EZMA15	EZMA18	EZMA22	EZMA28	EZMA35	EZMA42	EZMA54	EZMA76	EZMA88	EZMA108

Reduced nipple

Ø	18-15	22-15	22-18	28-15	28-22	35-15	35-22	35-28	42-35	54-28	54-35	54-42
pack	10	10	10	5	5	5	5	5	5	5	5	4
code	EZMA1815	EZMA2215	EZMA2218	EZMA2815	EZMA2822	EZMA3515	EZMA3522	EZMA3528	EZMA4235	EZMA5428	EZMA5435	EZMA5442

Reducer male/female

Ø	18-15	22-15	22-18	28-15	28-18	28-22	35-15	35-18	35-22	35-28	42-18	42-22	42-28
pack	20	20	20	20	20	20	10	10	10	10	4	4	4
code	EZTU1815	EZTU2215	EZTU2218	EZTU2815	EZTU2818	EZTU2822	EZTU3515	EZTU3518	EZTU3522	EZTU3528	EZTU4218	EZTU4222	EZTU4228

Ø	42-35	54-18	54-22	54-28	54-35	54-42	76,1-42	76,1-54	88,9-54	88,9-76,1	108-54	108-76,1	108-88,9
pack	4	4	4	4	4	4	4	4	4	4	2	2	2
code	EZTU4235	EZTU5418	EZTU5422	EZTU5428	EZTU5435	EZTU5442	EZTU7642	EZTU7654	EZTU8854	EZTU8876	EZTU10854	EZTU10876	EZTU10888

Long nipple

Ø	15	18	22	28	35	42	54	76,1	88,9	108
pack	5	4	4	3	5	5	4	3	2	1
code	EZMAL15	EZMAL18	EZMAL22	EZMAL28	EZMAL35	EZMAL42	EZMAL54	EZMAL76	EZMAL88	EZMAL108

Adapter female

Ø	3/8"-15	1/2"-15	3/4"-15	1/2"-18	3/4"-18	1/2"-22	3/4"-22	1"-22	1/2"-28	3/4"-28
pack	20	20	10	20	10	10	10	10	20	10
code	EZF815	EZF215	EZF415	EZF218	EZF418	EZF222	EZF422	EZF1022	EZF228	EZF428

Ø	1"-28	3/4"-35	1"-35	1"1/4-35	1"1/2-42	2"-54
pack	10	10	5	5	4	4
code	EZF1028	EZF435	EZF1035	EZF1435	EZF1242	EZF2054

Adapter male (conical)

Ø	3/8"-15	1/2"-15	3/4"-15	1/2"-18	3/4"-18	1/2"-22	3/4"-22	1"-22	3/4"-28	1"-28
pack	20	20	10	20	10	10	10	10	10	10
code	EZM815	EZM215	EZM415	EZM218	EZM418	EZM222	EZM422	EZM1022	EZM428	EZM1028

Ø	1"1/4-28	1"-35	1"1/4-35	1"1/2-35	1"1/2-42	1"1/2-54	2"-54	2"1/2-76,1	3"-88,9	4"-108
pack	5	5	5	5	4	4	4	2	2	1
code	EZM1428	EZM1035	EZM1435	EZM1235	EZM1242	EZM1254	EZM2054	EZM2276	EZM3088	EZM40108

Union connector female

Ø	3/4"-22	1"-22	1"-28	1"1/4-35	1"1/2-42	2"-54
pack	2	2	2	2	2	2
code	EZUF422	EZUF1022	EZUF1028	EZUF1435	EZUF1242	EZUF2054

Union connector male (conical)

Ø	1/2"-15	1/2"-18	3/4"-22	1"-22	1"-28	1"1/4-35	1"1/2-42	2"-54
pack	2	2	2	2	2	2	2	2
code	EZUM215	EZUM218	EZUM422	EZUM1022	EZUM1028	EZUM1435	EZUM1242	EZUM2054

Free nut female

Ø	3/4"-15	3/4"-18	3/4"-22	1"-22	1"1/4-28	1"1/2-35	2"-42
pack	10	10	10	10	10	4	2
code	EZE415	EZE418	EZE422	EZE1022	EZE1428	EZE1235	EZE2042

Cap female

Ø	15	18	22	28	35	42	54	76,1	88,9	108
pack	20	10	10	10	5	5	2	2	2	2
code	EZBOUF15	EZBOUF18	EZBOUF22	EZBOUF28	EZBOUF35	EZBOUF42	EZBOUF54	EZBOUF76	EZBOUF88	EZBOUF108

Valve

Ø	15	18	22	28	35	42	54
pack	5	5	4	3	6	3	2
code	EZVAN15	EZVAN18	EZVAN22	EZVAN28	EZVAN35	EZVAN42	EZVAN54

Flange PN16

Ø	76,1	88,9	108
DN	65	80	100
pack	1	1	1
code	EZBRI76	EZBRI88	EZBRI108

Adjusting elbow 90°

Ø	15	18	22	28	35	42	54
pack	20	20	10	10	4	2	2
code	EZCAJ15	EZCAJ18	EZCAJ22	EZCAJ28	EZCAJ35	EZCAJ42	EZCAJ54

Overpass

Ø	15	18	22	28
pack	10	10	10	10
code	EZDA15	EZDA18	EZDA22	EZDA28

Fitting to be welded

Ø	48,3-42*	60,3-54*	76,1-76,1**	88,9-88,9**	114,3-108**
pack	2	2	2	2	2
code	EZAS4248	EZAS5460	EZAS7676	EZAS8888	EZAS108114

* length: 120 mm

** length: 200 mm

Adjusting elbow 30°

Ø	28	35	42	54
pack	10	4	2	2
code	EZCAJ2830	EZCAJ3530	EZCAJ4230	EZCAJ5430

Adjusting elbow 15°

Ø	28	35	42	54
pack	10	4	2	2
code	EZCAJ2815	EZCAJ3515	EZCAJ4215	EZCAJ5415

Spare EPDM gasket - Main use

Ø	15	18	22	28	35	42	54	76,1	88,9	108
pack	20	20	20	20	20	20	20	10	10	10
code	EZJCHA15	EZJCHA18	EZJCHA22	EZJCHA28	EZJCHA35	EZJCHA42	EZJCHA54	EZJCHA76	EZJCHA88	EZJCHA108

Spare FKM gasket - Solar use

Ø	15	18	22	28	35	42	54	76,1	88,9	108
pack	20	20	20	20	20	20	20	10	10	10
code	EZJSOL15	EZJSOL18	EZJSOL22	EZJSOL28	EZJSOL35	EZJSOL42	EZJSOL54	EZJSOL76	EZJSOL88	EZJSOL108

Tools

Cutter-pipe Ø 12 to 67

code
EZCT

Off-burr tool Ø 10 to 54

code
EZEBA54

Template Ø 15 to 54

code
EZGAB

Cutter-pipe blade Ø 12 to 67

code
EZCTLA

Off-burr tool Ø 63 to 110

code
EZEBA110

5 m x 9,15 m

Fitting protection band

code
EZRUB

Press plier Ø 15 to 25

code
PINK2

Press jaw Ø 15 to 22

Ø	15	18	22
code	EZMAC15	EZMAC18	EZMAC22

Press plier Ø 15 to 54

code
SER54

Press jaw Ø 15 to 35

Ø	15	18	22	28	35
code	EZMACSER15	EZMACSER18	EZMACSER22	EZMACSER28	EZMACSER35

Chain support Ø 42 to 54

code
EZSUPCHA54

+

Chain Ø 42 to 54

Ø	15	18
code	EZCHA42	EZCHA54

Press plier Ø 15 to 108

code
SER108

Press jaw Ø 15 to 35

Ø	15	18	22	28	35
code	EZMACSER15	EZMACSER18	EZMACSER22	EZMACSER28	EZMACSER35

Chain support Ø 42 to 108

Ø	42 to 54	76,1 to 108
code	EZSUPCHA54	EZSUPCHA108

+

Chain Ø 42 to 108

Ø	42	54	76,1	88,9	108
code	EZCHA42	EZCHA54	EZCHA76	EZCHA88	EZCHA108

thermador

Copper welding fittings

For copper pipes

Mandatory packing applies

For heating & sanitary, cold & hot water, gas oil & gas - Acc. to EN 1254-1 -
Mandatory packing: 10 pcs up to Ø28, individual above.

5001 A - Bend 90° C x Ftg female/male solder end

Ø	10	12	14	15	16	18	22	28	32	35
box	1 500	900	700	550	550	350	200	100	80	65
code	5001A10	5001A12	5001A14	5001A15	5001A16	5001A18	5001A22	5001A28	5001A32	5001A35

Ø	40	42	52	54	63	64	76	89	108
box	40	35	15	15	-	-	-	-	-
code	5001A40	5001A42	5001A52	5001A54	5001A63	5001A64	5001A76	5001A89	5001A108

5002 A - Bend 90° C x C female/female solder end

Ø	10	12	14	15	16	18	22	28	32	35
box	1 400	1 000	550	550	500	350	200	100	95	65
code	5002A10	5002A12	5002A14	5002A15	5002A16	5002A18	5002A22	5002A28	5002A32	5002A35

Ø	40	42	52	54	63	64	76	89	108
box	40	35	15	15	-	-	-	-	-
code	5002A40	5002A42	5002A52	5002A54	5002A63	5002A64	5002A76	5002A89	5002A108

5040 - Bend 45° C x Ftg female/male solder end

Ø	10	12	14	15	16	18	22	28	32	35
box	1 800	1 300	850	700	750	400	280	160	130	110
code	504010	504012	504014	504015	504016	504018	504022	504028	504032	504035

Ø	40	42	52	54	63	64	76	89	108
box	70	60	25	30	-	-	-	-	-
code	504040	504042	504052	504054	504063	504064	504076	504089	5040108

5041 - Bend 45° C x C female/female solder end

Ø	10	12	14	15	16	18	22	28	32	35
box	1 500	1 200	700	800	600	450	280	150	120	100
code	504110	504112	504114	504115	504116	504118	504122	504128	504132	504135

Ø	40	42	52	54	63	64	76	89	108
box	70	60	25	25	-	-	-	-	-
code	504140	504142	504152	504154	504163	504164	504176	504189	5041108

5090 - Elbow 90° C x C female/female solder end

Ø	6	8	10	12	14	15	16	18	20	22	28
box	3 000	2 000	1 800	1 000	800	700	600	450	300	280	150
code	509006	509008	509010	509012	509014	509015	509016	509018	509020	509022	509028

Ø	32	35	40	42	52	54	63	64	76
box	120	90	55	55	20	20	-	-	-
code	509032	509035	509040	509042	509052	509054	509063	509064	509076

5092 - Elbow 90° C x Ftg female/male solder end

Ø	10	12	14	15	16	18	22	28	32	35
box	1 500	1 200	800	700	600	400	250	130	120	80
code	509210	509212	509214	509215	509216	509218	509222	509228	509232	509235

Ø	40	42	52	54	63	64
box	55	50	20	20	-	-
code	509240	509242	509252	509254	509263	509264

5130 - Equal tee C x C x C x female solder end

Ø	6	8	10	12	14	15	16	18	22	28	32
box	3 000	1 500	1 000	800	500	500	400	300	160	90	70
code	513006TH	513008TH	513010	513012	513014	513015	513016	513018	513022	513028	513032

Ø	35	40	42	52	54	63	64	76	89	108
box	60	35	30	15	15	-	-	-	-	-
code	513035	513040	513042	513052	513054	513063	513064	513076	513089	5130108

5130 - Reduced tee C x C x C female solder end

Ø	12-08-12	12-10-10	12-10-12	12-12-10	12-14-12	12-15-12	12-16-12	12-18-12	14-10-14	14-12-12	14-12-14	14-14-12
box	1 000	1 000	1 000	800	600	500	450	350	700	550	550	600
code	5130120812	5130121010	5130121012	5130121210	5130121412	5130121512	5130121612	5130121812	5130141014	5130141212	5130141214	5130141412

Ø	14-16-14	14-18-14	15-12-15	15-15-12	15-18-15	15-22-15	16-12-12	16-12-14	16-12-16	16-14-12	16-14-14	16-14-16
box	500	300	500	500	300	200	600	500	500	500	500	500
code	5130141614	5130141814	5130151215	5130151512	5130151815	5130152215	5130161212	5130161214	5130161216	5130161412	5130161414	5130161416

Ø	16-16-12	16-16-14	16-18-14	16-18-16	16-22-16	18-12-12	18-12-16	18-12-18	18-14-14	18-14-16	18-14-18	18-15-15
box	450	400	300	300	200	400	400	380	350	350	350	360
code	5130161612	5130161614	5130161814	5130161816	5130162216	5130181212	5130181216	5130181218	5130181414	5130181416	5130181418	5130181515

Ø	18-15-18	18-16-14	18-16-16	18-16-18	18-18-14	18-18-16	18-22-18	22-12-22	22-14-18	22-14-22	22-15-22	22-16-16
box	300	350	350	300	300	300	200	250	250	250	200	250
code	5130181518	5130181614	5130181616	5130181618	5130181814	5130181816	5130182218	5130221222	5130221418	5130221422	5130221522	5130221616

Ø	22-16-18	22-16-22	22-18-14	22-18-16	22-18-18	22-18-22	22-22-14	22-22-16	22-22-18	22-28-22	28-12-28	28-14-28
box	250	200	250	250	250	200	200	200	180	100	140	140
code	5130221618	5130221622	5130221814	5130221816	5130221818	5130221822	5130222214	5130222216	5130222218	5130222822	5130281228	5130281428

Ø	28-16-28	28-18-18	28-18-22	28-18-28	28-22-22	28-22-28	28-28-18	28-28-22	28-35-28	32-22-32	32-28-32	35-18-35
box	130	140	120	120	100	100	100	80	65	90	80	100
code	5130281628	5130281818	5130281822	5130281828	5130282222	5130282228	5130282818	5130282822	5130283528	5130322232	5130322832	5130351835

Ø	35-22-28	35-22-35	35-28-28	35-28-35	35-35-22	35-35-28	35-42-35	42-22-42	42-28-42	42-35-42	54-22-54	54-28-54
box	90	85	80	75	60	55	40	50	50	40	30	25
code	5130352228	5130352235	5130352828	5130352835	5130353522	5130353528	5130354235	5130422242	5130422842	5130423542	5130542254	5130542854

Ø	54-35-54	54-42-54	63-28-63	64-35-64	64-42-64
box	25	20	-	-	-
code	5130543554	5130544254	5130632863	5130643564	5130644264

5270 - Socket C x C female/female solder end

Ø	6	8	10	12	14	15	16	18	20	22	28	32
box	3 500	3 000	1 700	1 500	1 200	1 000	1 000	700	400	400	200	200
code	527006TH	527008TH	527010	527012	527014	527015	527016	527018	527020	527022	527028	527032

Ø	35	36	40	42	52	54	63	64	76	89	108
box	170	150	100	90	50	45	-	-	-	-	-
code	527035	527036	527040	527042	527052	527054	527063	527064	527076	527089	5270108

5301 - Cap C female solder end

Ø	10	12	14	15	16	18	22	28	35	42	54	63	76
box	3 000	2 500	2 000	1 500	1 200	1 000	800	400	250	150	90	-	-
code	530110	530112	530114	530115	530116	530118	530122	530128	530135	530142	530154	530163	530176

5240 - Reduced socket C x C female/female solder end

Ø	8-6	10-8	12-10	14-10	14-12	15-12	15-14	16-10	16-12	16-14	16-15
box	3 000	2 000	1 500	1 400	1 000	1 100	1 000	1 200	1 200	1 000	1 100
code	52400806	52401008	52401210	52401410	52401412	52401512	52401514	52401610	52401612	52401614	52401615

Ø	18-10	18-12	18-14	18-15	18-16	20-18	22-12	22-14	22-16	22-18	22-20
box	900	900	800	800	700	500	500	500	500	500	400
code	52401810	52401812	52401814	52401815	52401816	52402018	52402212	52402214	52402216	52402218	52402220

Ø	28-12	28-14	28-16	28-18	32-22	32-28	35-22	35-28	40-28	40-32	42-18
box	300	280	280	280	200	180	150	140	80	100	100
code	52402812	52402814	52402816	52402818	52403222	52403228	52403522	52403528	52404028	52404032	52404218

Ø	42-22	42-28	42-32	42-35	52-32	52-42	54-28	54-35	54-42	63-28	63-42
box	130	80	100	60	60	40	40	50	40	-	-
code	52404222	52404228	52404232	52404235	52405232	52405242	52405428	52405435	52405442	52406328	52406342

Ø	63-54	64-42	64-54	76-42	76-54	76-64	89-76	108-89
box	-	-	-	-	-	-	-	-
code	52406354	52406442	52406454	52407642	52407654	52407664	52408976	524010889

5243 - Reduced socket C x Ftg female/male solder end

Ø	8-6	10-8	12-8	12-10	14-10	14-12	15-12	16-10	16-12	16-14	16-15
box	3 000	3 000	2 000	2 000	1 300	1 200	1 200	1 200	1 100	1 000	1 000
code	52430806	52431008	52431208	52431210	52431410	52431412	52431512	52431610	52431612	52431614	52431615

Ø	18-10	18-12	18-14	18-15	18-16	22-12	22-14	22-15	22-16	22-18	28-12
box	1 000	800	800	800	800	600	550	550	550	500	300
code	52431810	52431812	52431814	52431815	52431816	52432212	52432214	52432215	52432216	52432218	52432812

Ø	28-14	28-16	28-18	28-22	32-18	32-22	32-28	35-22	35-28	40-28	40-32
box	300	300	300	280	200	200	160	180	140	120	120
code	52432814	52432816	52432818	52432822	52433218	52433222	52433228	52433522	52433528	52434028	52434032

Ø	42-22	42-28	42-32	42-35	54-22	54-28	54-35	54-42	63-42	64-35	64-42
box	100	100	80	60	60	60	50	40	-	-	-
code	52434222	52434228	52434232	52434235	52435422	52435428	52435435	52435442	52436342	52436435	52436442

Ø	64-54	76-54	76-64	89-54	89-64	89-76	108-76
box	-	-	-	-	-	-	-
code	52436454	52437654	52437664	52438954	52438964	52438976	524310876

5060 - Bend 180° C x C female/female solder end

Ø	10	12	14	15	16	18	22	28
box	800	500	300	200	200	180	90	50
code	506010	506012	506014	506015	506016	506018	506022	506028

5085 - Crossover C x C female solder end

Ø	12	14	15	16	18	22
box	300	200	200	180	120	70
code	508512	508514	508515	508516	508518	508522

5086 - Crossover C x Ftg female/male solder end

Ø	12	14	15	16	18	22
box	400	250	250	250	180	100
code	508612	508614	508615	508616	508618	508622

Brass compression fittings with brass olive

Mandatory packing applies

Recommended tightness torque: 10 to 15 Nm for 3/8", 15 to 20 Nm for 1/2", 20 to 25 Nm for 3/4" -
Mandatory packing: 10 pcs up to 1", 5 pcs above.

704 B - Male

Ø	1/4"-08	3/8"-08	3/8"-10	3/8"-12	3/8"-14	1/2"-12	1/2"-14	1/2"-15	1/2"-16	1/2"-18
box	1 000	1 000	1 000	550	550	550	550	550	500	400
code	704B0808	704B0812	704B1012	704B1212	704B1412	704B1215	704B1415	704B1515	704B1615	704B1815

Ø	3/4"-14	3/4"16	3/4"-18	1"-22
box	400	350	350	150
code	704B1420	704B1620	704B1820	704B2226

700 B - Female

Ø	1/4"-08	3/8"-08	3/8"-10	3/8"-12	3/8"-14	1/2"-10	1/2"-12	1/2"-14	1/2"-15	1/2"-16
box	1 000	1 000	1 000	500	500	500	600	500	500	400
code	700B0808	700B0812	700B1012	700B1212	700B1412	700B1015	700B1215	700B1415	700B1515	700B1615

Ø	3/4"-14	3/4"16	3/4"-18
box	400	350	350
code	700B1420	700B1620	700B1820

703 B - Equal socket

Ø	10	12	14	15	16	18
box	500	400	400	400	400	200
code	703B10	703B12	703B14	703B15	703B16	703B18

703 BR - Reduced socket

Ø	12/10	14/10	14/12
box	400	400	400
code	703BR1210	703BR1410	703BR1412

Wall connection

Ø	1/2"-12	1/2"-14
box	12	14
code	AMB1215	AMB1415

705 B - Elbow

Ø	10	12	14	15	16	18
box	500	300	300	300	300	250
code	705B10	705B12	705B14	705B15	705B16	705B18

706 B - Tee

Ø	10	12	14	15	16	18
box	300	200	200	200	200	110
code	706B10	706B12	706B14	706B15	706B16	706B18

707 B - Elbow male

Ø	3/8"-10	3/8"-12	1/2"-12	1/2"-14	1/2"-16	3/4"-18	1"-22
box	500	400	350	350	350	200	100
code	707B1012	707B1212	707B1215	707B1415	707B1615	707B1820	707B2226

ES 700 - Nut

Ø	3/8"-10	3/8"-12	1/2"-12	1/2"-14	1/2"-16	5/8"-18	3/4"-18	1"-22
code	ES7001210	ES7001212	ES7001512	ES7001514	ES7001516	ES7001716	ES7002018	ES7002622

BS700 - Olive

Ø	8	10	12	14	16	18	20	22
code	BS70008	BS70010	BS70012	BS70014	BS70016	BS70018	BS70020	BS70022

Brass threaded fittings

Mandatory packing applies

For heating & sanitary applications - Material: brass - Use flat gasket for tightness when possible - Use PTFE band or Loctite® type glue, no oakum - Tight with flat key (max. torque 3 to 4 kg/m) - **Mandatory packing:** 10 pcs up to 1", 5 pcs above.

90 GC - Elbow female threaded/female copper

Ø	12-3/8"	14-3/8"	12-1/2"	14-1/2"	15-1/2"	16-1/2"	18-1/2"	14-3/4"	15-3/4"	16-3/4"
box	400	400	360	360	300	300	200	200		200
code	90GC1212	90GC1412	90GC1215	90GC1415	90GC1515	90GC1615	90GC1815	90GC1420	90GC1520	90GC1620

Ø	18-3/4"	22-3/4"
box	200	150
code	90GC1820	90GC2220

90 GCL - Elbow female threaded/female copper

Ø	3/8"-12	3/8"-14	1/2"-12	1/2"-14	1/2"-15	1/2"-16
code	90GC1212L	90GC1214L	90GC1512L	90GC1514L	90GC1515L	90GC1516L

92 GC - Elbow male threaded/female copper

Ø	12-3/8"	14-3/8"	12-1/2"	14-1/2"	15-1/2"	16-1/2"	18-1/2"	16-3/4"	18-3/4"	22-3/4"	22-1"
box	480	480	450	450	450	360	250	200	200	170	120
code	92GC1212	92GC1412	92GC1215	92GC1415	92GC1515	92GC1615	92GC1815	92GC1620	92GC1820	92GC2220	92GC2226

130 GC - Tee center female threaded/female copper

Ø	12-3/8"-12	14-3/8"-14	12-1/2"-12	14-1/2"-14	15-1/2"-15	16-1/2"-16	18-1/2"-18	22-1/2"-22
box	300	250	250	200	180	180	150	120
code	130GC121212	130GC141214	130GC121512	130GC141514	130GC151515	130GC161516	130GC181518	130GC221522

243 GC - Welding socket male threaded/female copper

Ø	10-3/8"	12-3/8"	14-3/8"	16-3/8"	10-1/2"	12-1/2"	14-1/2"	14-1/2"-B.14.5	15-1/2"	16-1/2"	18-1/2"
box	750	750	750	750	500	500	500	500	500	500	500
code	243GC1012	243GC1212	243GC1412	243GC1612	243GC1015	243GC1215	243GC1415	243GC1415G	243GC1515	243GC1615	243GC1815

Ø	14-3/4"	15-3/4"	16-3/4"	18-3/4"	20-3/4"	22-3/4"	28-3/4"	18-1"	22-1"	28-1"	32-1"
box	350	350	350	350	400	300	220	200	200	180	160
code	243GC1420	243GC1520	243GC1620	243GC1820	243GC2020	243GC2220	243GC2820	243GC1826	243GC2226	243GC2826	243GC3226

Ø	28-1"1/4	32-1"1/4	35-1"1/4	36-1"1/4	32-1"1/2	36-1"1/2	40-1"1/2	42-1"1/2	52-2"	54-2"
box	100	100	120	120	100	100	70	70	40	40
code	243GC2833	243GC3233	243GC3533	243GC3633	243GC3240	243GC3640	243GC4040	243GC4240	243GC5250	243GC5450

270 GC - Welding socket female threaded/female copper

Ø	10-3/8"	12-3/8"	14-3/8"	12-1/2"	14-1/2"	15-1/2"	16-1/2"	18-1/2"	14-3/4"	15-3/4"
box	700	700	700	700	700	540	540	500	400	400
code	270GC1012	270GC1212	270GC1412	270GC1215	270GC1415	270GC1515	270GC1615	270GC1815	270GC1420	270GC1520

Ø	16-3/4"	18-3/4"	20-3/4"	22-3/4"	28-3/4"	18-1"	22-1"	28-1"	32-1"	28-1"1/4
box	400	300	100	300	160	300	160	160	100	80
code	270GC1620	270GC1820	270GC2020	270GC2220	270GC2820	270GC1826	270GC2226	270GC2826	270GC3226	270GC2833

Ø	32-1"1/4	35-1"1/4	36-1"1/4	32-1"1/2	40-1"1/2	42-1"1/2	52-2"	54-2"
box	80	80	80	80	80	80	42	16
code	270GC3233	270GC3533	270GC3633	270GC3240	270GC4040	270GC4240	270GC5250	270GC5450

359 GC - 2 piece union female threaded/female copper

Ø	10-3/8"	12-3/8"	10-1/2"	12-1/2"	14-1/2"	15-1/2"	12-3/4"	14-3/4"	16-3/4"	18-3/4"
box	720	720	600	600	600	600	400	400	300	300
code	359GC1012	359GC1212	359GC1015	359GC1215	359GC1415	359GC1515	359GC1220	359GC1420	359GC1620	359GC1820

Ø	20-3/4"	18-1"	20-1"	22-1"	28-1"1/4	32-1"1/4	36-1"1/2	40-2"
box	300	200	200	100	80	80	80	30
code	359GC2020	359GC1826	359GC2026	359GC2226	359GC2833	359GC3233	359GC3640	359GC4050

340 CU - Welding union female copper 2 ends

Ø	10	12	14	16	18	20	22	28	32	40	42	52
code	340CU10	340CU12	340CU14	340CU16	340CU18	340CU20	340CU22	340CU28	340CU32	340CU40	340CU42	340CU52

340 GC - Welding union female threaded/female copper - Metal/metal, conical bearing

Ø	10-3/8"	12-3/8"	14-3/8"	12-1/2"	14-1/2"	15-1/2"	16-1/2"	18-1/2"	14-3/4"	15-3/4"
box			300	260	250	320	200	150	200	200
code	340GC1012	340GC1212	340GC1412	340GC1215	340GC1415	340GC1515	340GC1615	340GC1815	340GC1420	340GC1520

Ø	16-3/4"	18-3/4"	20-3/4"	22-3/4"	28-3/4"	22-1"	28-1"	32-1"	28-1"1/4	32-1"1/4
box	160	160		100		100	50	40	60	30
code	340GC1620	340GC1820	340GC2020	340GC2220	340GC2820	340GC2226	340GC2826	340GC3226	340GC2833	340GC3233

Ø	35-1"1/4	36-1"1/4	40-1"1/4	32-1"1/2	40-1"1/2	42-1"1/2	52-2"	54-2"
box	50	50	50	20	20	20	15	15
code	340GC3533	340GC3633	340GC4033	340GC3240	340GC4040	340GC4240	340GC5250	340GC5450

341 GC - Welding union male threaded/female copper - Metal/metal, conical bearing

Ø	10-3/8"	12-3/8"	12-1/2"	14-1/2"	15-1/2"	16-1/2"	18-1/2"	14-3/4"	15-3/4"	16-3/4"
box	400	400	200	300	320	300	200	200	200	200
code	341GC1012	341GC1212	341GC1215	341GC1415	341GC1515	341GC1615	341GC1815	341GC1420	341GC1520	341GC1620

Ø	18-3/4"	20-3/4"	22-3/4"	22-1"	28-1"	32-1"	28-1"1/4	32-1"1/4	35-1"1/4	36-1"1/4
box	200	200	150	150	70	50	50	50	50	50
code	341GC1820	341GC2020	341GC2220	341GC2226	341GC2826	341GC3226	341GC2833	341GC3233	341GC3533	341GC3633

Ø	40-1"1/4	32-1"1/2	40-1"1/2	42-1"1/2	52-2"	54-2"
box	50	50	30	20	10	15
code	341GC4033	341GC3240	341GC4040	341GC4240	341GC5250	341GC5450

331 GC - Welding union with flat bearing & flat gasket - Male threaded/female copper

Ø	10-3/8"	12-3/8"	14-3/8"	12-1/2"	14-1/2"	16-1/2"	18-1/2"	14-3/4"	16-3/4"	18-3/4"
code	331GC1012	331GC1212	331GC1412	331GC1215	331GC1415	331GC1615	331GC1815	331GC1420	331GC1620	331GC1820

Ø	20-3/4"	22-3/4"	18-1"	20-1"	22-1"	28-1"	28-1"1/4	36-1"1/2
code	331GC2020	331GC2220	331GC1826	331GC2026	331GC2226	331GC2826	331GC2833	331GC3640

96 GCU - Elbow union female threaded/female copper

Ø	12-3/8"	14-3/8"	14-1/2"	15-1/2"	16-1/2"	15-3/4"	16-3/4"	18-3/4"	22-3/4"	22-1"	28-1"
box	120	120	120	120	120	120	120	120	120	120	60
code	96GCU1212	96GCU1412	96GCU1415	96GCU1515	96GCU1615	96GCU1520	96GCU1620	96GCU1820	96GCU2220	96GCU2226	96GCU2826

98 GCU - Elbow union male threaded/female copper

Ø	12-3/8"	14-3/8"	14-1/2"	15-1/2"	16-1/2"	15-3/4"	16-3/4"	18-3/4"	22-3/4"	22-1"	28-1"
box	120	120	120	120	120	120	120	120	120	96	96
code	98GCU1212	98GCU1412	98GCU1415	98GCU1515	98GCU1615	98GCU1520	98GCU1620	98GCU1820	98GCU2220	98GCU2226	98GCU2826

359 GCL - 2 piece socket copper/brass - Flat bearing

HECAPO

Ø	10-3/8"	12-3/8"	14-3/8"	12-1/2"	14-1/2"	15-1/2"	16-1/2"	18-1/2"	14-3/4"	15-3/4"
box	800	800	800	500	500	500	500	500	400	400
code	359GCL1012	359GCL1212	359GCL1412	359GCL1215	359GCL1415	359GCL1515	359GCL1615	359GCL1815	359GCL1420	359GCL1520

Ø	16-3/4"	18-3/4"	20-3/4"	22-3/4"	22-1"	28-1"	28-1"1/4	32-1"1/4	40-1"1/4	42-1"1/2
box	400	400	300	300	200	200	100	100	60	60
code	359GCL1620	359GCL1820	359GCL2020	359GCL2220	359GCL2226	359GCL2826	359GCL3228	359GCL3233	359GCL4040	359GCL4042

5002 GC - 2 piece elbow copper/brass - Flat bearing

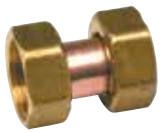
HECAPO

Ø	12-3/8"	14-3/8"	12-1/2"	14-1/2"	15-1/2"	16-1/2"	14-3/4"	15-3/4"	16-3/4"	18-3/4"
box	500	400	500	400	400	400	250	200	250	250
code	5002GC1212	5002GC1412	5002GC1215	5002GC1415	5002GC1515	5002GC1615	5002GC1420	5002GC1520	5002GC1620	5002GC1820

Ø	22-3/4"	22-1"	28-1"
box	200	100	100
code	5002GC2220	5002GC2226	5002GC2826

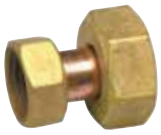
R 80 - Equal socket female/female - Flat bearing

HECAPO



Ø	3/8"	1/2"	3/4"	1"
box	300	500	200	100
code	R8012	R8015	R8020	R8026

R 81 - Reduced socket female/female - Flat bearing



Ø	1/2"-3/8"	3/4"-1/2"
box	100	100
code	R811512	R812015

CR 80 - Equal elbow female/female - Flat bearing

HECAPO

Ø	1/2"-1/2"	3/4"-3/4"	1"-1"
box	400	200	100
code	CR8015	CR8020	CR8026

CR 80 - Reduced elbow female/female - Flat bearing

Ø	3/4"-1/2"
box	200
code	CR802015

90 G - Elbow female/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
box	300	300	170	100	50	30	20	12
code	90G08	90G12	90G15	90G20	90G26	90G33	90G40	90G50

92 G - Elbow male/female

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
box	1 000	300	200	180	80	50	25	15	10
code	92G05	92G08	92G12	92G15	92G20	92G26	92G33	92G40	92G50

92 G - Compact elbow male/female

Ø	3/8"	1/2"	3/4"	1"	1"1/4
box	600	400	200	120	60
code	92G12C	92G15C	92G20C	92G26C	92G33C

92 G - Reduced elbow female/male

Ø	3/4"-1/2"
box	300
code	92G2015

94 G - Elbow male

Ø	1/4"	10-3/8"	12-1/2"	14-1/2"	16-3/4"	18-3/4"	1"
box	1000	500	300	250	170	170	100
code	94G08	94G1012	94G1215	94G1415	94G1620	94G1820	94G26

94 G - Reduced elbow male

Ø	1/2"-3/8"
box	400
code	94G1512R

130 G - Tee female

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
box	800	300	200	180	50	40	20	15	10
code	130G05	130G08	130G12	130G15	130G20	130G26	130G33	130G40	130G50

130 G - Reduced tee female

Ø	1"1/4-3/4"-1"1/4
box	20
code	130G332033

135 G - Tee male

Ø	1/4"	10-3/8"	12-1/2"	14-1/2"	16-3/4"	18-3/4"	1"
box	700	300	300	300	120	120	50
code	135G08	135G1012	135G1215	135G1415	135G1620	135G1820	135G26

Tee 3/4 male/male/female

Ø	3/4"
box	100
code	ZTMMF

Chrome-plated tee 3/4 male/male/female

Ø	3/4"
box	80
code	ZTMMFN

180 G - Cross female

Ø	1/2"	3/4"	1"
box	80	50	30
code	180G15	180G20	180G26

270 R - Socket

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
box	700	450	300	130	90	70	40
code	270R12	270R15	270R20	270R26	270R33	270R40	270R50

280 G - Equal nipple male

Ø	1/8"	1/4"	3/8"	1/2"	1/2" B. 14.5	3/4"	1"	1"1/4	1"1/2	2"
box	2 000	1 500	900	500	500	300	150	100	70	40
code	280G05	280G08	280G12	280G15	280G15G	280G20	280G26	280G33	280G40	280G50

Ø	2"1/2	3"
box	40	40
code	280G65	280G80

280 GR - Multi threaded fitting (sold by 2)

Ø	M3/4"-F1/2" & M3/4"-M1/2"
code	280GR2015

245 G - Reduced nipple male

Ø	1/4"-1/8"	3/8"-1/8"	3/8"-1/4"	1/2"-1/8"	1/2"-1/4"	1/2"-3/8"	3/4"-3/8"	3/4"-1/2"	1"-1/2"	1"-3/4"
box	1 800	1 000	1 000	650	650	550	400	350	250	180
code	245G0805	245G1205	245G1208	245G1505	245G1508	245G1512	245G2012	245G2015	245G2615	245G2620

Ø	1"1/4-3/4"	1"1/4-1"	1"1/2-1"	1"1/2-1"1/4	2"-1"1/4	2"-1"1/2	2"1/2-2"
box	120	100	80	80	50	60	30
code	245G3320	245G3326	245G4026	245G4033	245G5033	245G5040	245G6550

374 G - Nut female

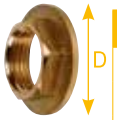
Ø	10-3/8"	12-3/8"	10-1/2"	12-1/2"	14-1/2"	15-1/2"	16-1/2"	12-3/4"	14-3/4"	16-3/4"
box	1 000	1 000		700	700	700	700	450	450	450
code	374G1012	374G1212	374G1015	374G1215	374G1415	374G1515	374G1615	374G1220	374G1420	374G1620

Ø	18-3/4"	20-3/4"	22-3/4"	20-1"	22-1"	26-1"	28-1"1/4	32-1"1/4	42-1"1/2
box	450	450	450	250	250	250	150	150	150
code	374G1820	374G2020	374G2220	374G2026	374G2226	374G2626	374G2833	374G3233	374G4240

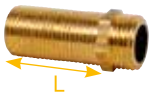
169 G - Nut

Ø	3/8"	1/2"	3/4"	1"
box	1 600	1 500	1 000	1 000
code	169G12	169G15	169G20	169G26

169 GL - Lock nut

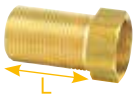


Ø	3/8"	1/2"	3/4"	1"
box	900	620	350	220
D	30	35	45	54
code	169GL12	169GL15	169GL20	169GL26



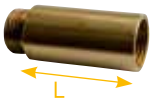
280 GL - Extension male/male

Ø	3/8"	1/2"	3/4"	1"
box	400	250	140	80
L	40	40	40	40
code	280GL12	280GL15	280GL20	280GL26



246 EL - Extension male/female

Ø	3/8"	1/2"	3/4"	1"
box	350	250	150	90
L	40	40	40	40
code	246EL12	246EL15	246EL20	246EL26



RD - Straight extension

Ø	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"
L	25	50	75	100	25	50	75	100	25	50	75	100
code	RD02512	RD05012	RD07512	RD10012	RD02515	RD05015	RD07515	RD10015	RD02520	RD05020	RD07520	RD10020

Elbow union - Conical bearing

Ø	3/8"	1/2"	3/4"	1"	1"1/4*	1"1/2*	2"*
box	80	70	60	40	25	24	12
code	CU12	CU15	CU20	CU26	CU33	CU40	CU50

* with o-ring

Elbow union - Nickel-plated - Conical bearing

Ø	1/2"	3/4"	1"
box	70	60	40
code	CU15N	CU20N	CU26N

Union fitting - Conical bearing

Ø	3/8"	1/2"	3/4"	1"	1"1/4*	1"1/2*	2"*
box	160	180	90	60	40	20	10
code	RU12	RU15	RU20	RU26	RU33	RU40	RU50

* with o-ring

Union fitting - Nickel-plated - Conical bearing

Ø	1/2"	3/4"	1"
box	180	90	60
code	RU15N	RU20N	RU26N

Elbow union - Flat bearing & gasket

Ø	3/4"	1"
box	20	8
code	CU20PP	CU26PP

2 piece fitting female/female

Ø	1"-1/2"	1"1/4-3/4"	1"1/2-1"	2"-1"1/4
box	10	10	10	10
code	ZRU2615F	ZRU3320F	ZRU4026F	ZRU5033F

Union fitting female/female - Conical bearing

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
box	120	120	120	48	36	30	24
code	RU12F	RU15F	RU20F	RU26F	RU33F	RU40F	RU50F

2 piece fitting female/male - Flat bearing

Ø	1/2"-3/8"	3/4"-1/2"	1"-1/2"	1"-3/4	1"-1"	1"1/4-3/4"	1"1/4-1"
code	ZRU1512	ZRU2015	ZRU2615	ZRU2620	ZRU2626	ZRU3320	ZRU3326

300 G - Female cap

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
box	1 500	1 000	750	400	250	140	100	60
code	300G08	300G12	300G15	300G20	300G26	300G33	300G40	300G50

292 G - Male cap

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
box	1 500	1 500	800	320	200	100	80	50	40
code	292G08	292G12	292G15	292G20	292G26	292G33	292G40	292G50	292G65

199 G - Reduced nut female/male

Ø	1/2"-3/8"	3/4"-3/8"	3/4"-1/2"	1"-1/2"	1"-3/4	1"1/4-1"	1"1/2-1"1/4
box	1 000	1 000	1 000	1 000	600	350	200
code	199G1512	199G2012	199G2015	199G2615	199G2620	199G3326	199G4033

241 G - Reduced nipple female/male

Ø	1/4"-1/8"	3/8"-1/8"	3/8"-1/4"	1/2"-1/8"	1/2"-1/4"	1/2"-3/8"	3/4"-3/8"	3/4"-1/2"	1"-1/2"	1"-3/4"
box	2 200	1 500	1 500	1 000	1 000	750	750	500	300	450
code	241G0805	241G1205	241G1208	241G1505	241G1508	241G1512	241G2012	241G2015	241G2615	241G2620

Ø	1"1/4-3/4"	1"1/4-1"	1"1/2-1"	1"1/2-1"1/4	2"-1"1/4	2"-1"1/2	2"1/2-2"
box	150	120	120	100	75	75	40
code	241G3320	241G3326	241G4026	241G4033	241G5033	241G5040	241G6550

240 G - Reduced socket female

Ø	1/4"-1/8"	3/8"-1/4"	1/2"-1/4"	1/2"-3/8"	3/4"-3/8"	3/4"-1/2"	1"-3/8"	1"-1/2"	1"-3/4"	1"1/4-3/4"
box	720	720	550	500	400	400	200	200	200	100
code	240G0805	240G1208	240G1508	240G1512	240G2012	240G2015	240G2612	240G2615	240G2620	240G3320

Ø	1"1/4-1"	1"1/2-1"	1"1/2-1"1/4	2"-1"1/2
box	100	100	100	100
code	240G3326	240G4026	240G4033	240G5040

270 G - Equal socket with thrust female

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
box	1 000	400	300	200	100	60	36
code	270G12	270G15	270G20	270G26	270G33	270G40	270G50

272 G - Equal socket female

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
box	1 000	1 000	1 000	400	300	200	100	80	40
code	272G05	272G08	272G12	272G15	272G20	272G26	272G33	272G40	272G50

246 E - Equal nipple male/female

Ø	1/8"	1/4"	3/8"	1/2"	1/2"B.14.5	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
box	1 000	1 000	1 000	500	500	300	200	100	80	50	20	20
code	246E05	246E08	246E12	246E15	246E15G	246E20	246E26	246E33	246E40	246E50	246E65	246E80

246 G - Reduced nipple male/female

Ø	1/4"-1/8"	3/8"-1/8"	3/4"-1/4"	1/2"-1/4"	1/2"-3/8"	3/4"-3/8"	3/4"-1/2"	1"-3/8"	1"-1/2"	1"-3/4"
box	900	200	650	650	650	450	350	130	300	200
code	246G0805	246G1205	246G1208	246G1508	246G1512	246G2012	246G2015	246G2612	246G2615	246G2620

Ø	1"1/4-3/4"	1"1/4-1"	1"1/2-1"	1"1/2-1"1/4	2"-1"	2"-1"1/4	2"-1"1/2	2"1/2-2"
box	100	100	100	90	50	50	50	50
code	246G3320	246G3326	246G4026	246G4033	246G5026	246G5033	246G5040	246G6550

243 G - Nipple male/reduced female

Ø	1/4"-1/8"	3/8"-1/8"	3/8"-1/4"	1/2"-1/4"	1/2"-3/8"	3/4"-3/8"	3/4"-1/2"	1"-1/2"	1"-3/4"	1"1/4-3/4"
box	1 000	750	750	750	750	450	350	250	250	150
code	243G0805	243G1205	243G1208	243G1508	243G1512	243G2012	243G2015	243G2615	243G2620	243G3320

Ø	1"1/4-1"	1"1/2-1"	1"1/2-1"1/4	2"-1"1/4	2"-1"1/2	2"1/2-2"
box	150	100	80	50	50	50
code	243G3326	243G4026	243G4033	243G5033	243G5040	243G6550

Wall connection elbow 1/2" female/female copper

Ø	12	14	16
box	300	300	250
code	AMS1512	AMS1514	AMS1516

Wall connection

Ø	1/2"	12*	14*
code	AM	AM12	AM14

* with nut & gasket

Chrome-plated threaded fittings

Mandatory packing applies

For sanitary applications - Material: chrome-plated brass CW617N or CW615N - Use flat gasket for tightness when possible - Use PTFE band or Loctite® type glue, no oakum - Tight with flat key (max. torque 3 to 4 kg/m) - **Mandatory packing:** 10 pcs up to 1", 5 pcs above.

280 GCH - Equal nipple male

Ø	3/8"	1/2"	3/4"	1"
box	400	250	300	150
code	280G12CH	280G15CH	280G20CH	280G26CH

245 GCH - Reduced nipple male

Ø	1/2"-3/8"	3/4"-1/2"	1"-3/4"
box	550	300	130
code	245G1512CH	245G2015CH	245G2620CH

300 GCH - Female cap

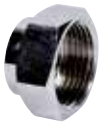
Ø	3/8"	1/2"	3/4"
box	300	400	350
code	300G12CH	300G15CH	300G20CH

292 GCH - Male cap

Ø	3/8"	1/2"	3/4"
box	500	450	250
code	292G12CH	292G15CH	292G20CH

270 GCH - Equal socket with thrust female

Ø	3/8"	1/2"	3/4"
box	300	200	200
code	270G12CH	270G15CH	270G20CH



240 GCH - Reduced socket female

Ø	1/2"-3/8"	3/4"-1/2"
box	250	200
code	240G1512CH	240G2015CH

243 GCH - Nipple male/reduced female

Ø	1/2"-3/8"	3/4"-1/2"
box	300	300
code	243G1512CH	243G2015CH

246 ECH - Equal nipple male/female

Ø	3/8"	1/2"	3/4"	1"
box	250	250	200	150
code	246E12CH	246E15CH	246E20CH	246E26CH

241 GCH - Reduced nipple female/male

Ø	1/2"-3/8"	3/4"-1/2"	1"-3/4"
box	250	300	250
code	241G1512CH	241G2015CH	241G2620CH

246 GCH - Reduced nipple male/female

Ø	1/2"-3/8"	3/4"-1/2"	1"-3/4"
box	300	200	200
code	246G1512CH	246G2015CH	246G2620CH

199 GCH - Nut reduced female/male

Ø	1/2"-3/8"	3/4"-1/2"	1"-3/4"
box	400	350	300
code	199G1512CH	199G2015CH	199G2620CH

Wall connection

Ø	1/2"	12*	14*
code	AMC	AMC12	AMC14

* with nut & gasket

90 GCH - Elbow female/female

Ø	3/8"	1/2"	3/4"	1"
box				
code	90G12CH	90G15CH	90G20CH	90G26CH

92 GCH - Elbow male/female

Ø	3/8"	1/2"	3/4"	1"
box	600	350	250	120
code	92G12CH	92G15CH	92G20CH	92G26CH

130 GCH - Tee female

Ø	3/8"	1/2"	3/4"	1"
box				
code	130G12CH	130G15CH	130G20CH	130G26CH

270 RCH - Socket

Ø	3/8"	1/2"	3/4"
box	700	450	300
code	270R12CH	270R15CH	270R20CH

Straight extension

Ø	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"
box	320	240	160	80	192	144	96	48	128	96	64	32
L	25	50	75	100	25	50	75	100	25	50	75	100
code	RD02512CH	RD05012CH	RD07512CH	RD10012CH	RD02515CH	RD05015CH	RD07515CH	RD10015CH	RD02520CH	RD05020CH	RD07520CH	RD10020CH

Brass fittings for PE pipes

Material: brass CW617N - Agreement: DIN 8076-1 - Excluded from 2014/68/EU directive (article 1, §2.b) - PS: 16 bar up to Ø 63, 10 bar above - TS: +4°C/+40°C - Male conical bearing - NBR o-ring.

Male

Ø	20-1/2"	25-1/2"	25-3/4"	32-1"	40-1"1/4	50-1"1/2	63-2"	75-2"1/2	90-3"
code	811420	811524	811525	811632	811740	811850	811963	811075	811090

Female

Ø	20-1/2"	25-1/2"	25-3/4"	32-1"	40-1"1/4	50-1"1/2	63-2"	75-2"1/2	90-3"
code	810420	810524	810525	810632	810740	810850	810963	810075	810090

Equal socket

Ø	20	25	32	40	50	63	75	90
code	813020	813025	813032	813040	813050	813063	813075	813090

Reduced male

Ø	25-1/2"	32-3/4"	40-1"	50-1"1/4	63x1"1/2
code	862425	862532	862640	862750	862863

Elbow 90° male

Ø	20-1/2"	25-3/4"	32-1"	40-1"1/4	50-1"1/2	63-2"	75-2"1/2
code	817420	817525	817632	817740	817850	817963	867075

Elbow 90° female

Ø	20-1/2"	25-3/4"	32-1"	40-1"1/4	50-1"1/2	63-2"
code	818420	818525	818632	818740	818850	818963

Elbow 90° socket

Ø	20	25	32	40	50	63	75
code	816020	816025	816032	816040	816050	816063	866075

Equal tee

Ø	20	25	32	40	50	63	75	90
code	814020	814025	814032	814040	814050	814063	814075	814090

Tee female/male

Ø	20-1/2"M-3/8"F	25-1/2"M-3/8"F	25-3/4"M-1/2"F	32-1"M-3/4"F	40-1"1/4M-1"F	50-1"1/2M-1"1/4F	63-2"M-1"1/2F	75-2"1/2M-2"F	90-3"M-2"1/2F
code	815420	815524	815525	815632	815740	815850	815963	865075	865090

Fitting with free nut & flat gasket

Ø	20-3/4"	25-3/4"	25-1"	32-1"
code	806520	806525	806625	806632

Long socket for repairing

Ø	25	32	40	50
code	807025	807032	807040	807050

Wall connection female

Ø	20-1/2"	25-1/2"	25-3/4"
code	819420	819425	819525

Ball valve w/ free nut

After water meter

Ø	25-3/4"	25-1"	32-3/4"	32-1"
code	490254	490264	490354	490364

Ball valve w/ free nut & drain outlet

After water meter

Ø	25-3/4"
code	491254

Polyethylene pipes

Black pipes

For underground watering and irrigation.

Ø 20 - 6,3 bar	
length (m)	code
25	005620
50	005720

Ø 25 - 12,5 bar	
length (m)	code
25	005625
50	005725

Ø 32 - 12,5 bar	
length (m)	code
25	005632
50	005732

Blue strip pipes

High density - For drinking water distribution.

Ø 20 - 16 bar	
length (m)	code
10	006520
25	006620
50	006720

Ø 25 - 16 bar	
length (m)	code
10	006525
25	006625
50	006725

Ø 32 - 12,5 bar	
length (m)	code
	-
25	005682
50	005782

Polypropylene fittings for PE pipes

Excluded from 2014/68/EU directive (article 1, §2.b) - Polypropylene body - Nylon clamping ring - NBR gasket - PS: 16 bar up to Ø 63, 10 bar above - TS: -10°C/+45°C.

Male

Ø	20-1/2"	25-3/4"	32-1"	40-1"1/4	50-1"1/2	63-2"	75-2"1/2
box	10	10	10	1	1	1	1
code	1001020	1001025	1001032	1001040	1001050	1001063	1001075

Enhanced male

Ø	20-3/4"	25-1"	32-1"1/4	40-1"1/2	50-2"
box	10	10	10	1	1
code	1002020	1002025	1002032	1002040	1002050

Female

Ø	16-1/2"	20-1/2"	25-3/4"	32-1"	40-1"1/4	50-1"1/2	63-2"
box	10	10	10	10	1	1	1
code	1003016	1003020	1003025	1003032	1003040	1003050	1003063

Equal socket

Ø	16	20	25	32	40	50	63	75	90	110
box	10	10	10	10	1	1	1	1	1	1
code	1005016	1005020	1005025	1005032	1005040	1005050	1005063	1005075	1005090	1005110

Equal tee

Ø	16	20	25	32	40	50	63
box	10	10	10	10	1	1	1
code	1007016	1007020	1007025	1007032	1007040	1007050	1007063

Center female threaded tee

Ø	20-1/2"F	25-3/4"F	32-1"F	40-1"1/4F	50-1"1/2F	63-2"F
box	10	10	10	1	1	1
code	1009020	1009025	1009032	1009040	1009050	1009063

Center male threaded tee

Ø	25-3/4"	32-3/4 "	40-1"1/4	63-2"
box	10	10	1	1
code	1017025	1017032	1017040	1017063

Elbow 90°

Ø	16	20	25	32	40	50	63	75
box	10	10	10	1	1	1	1	1
code	1012016	1012020	1012025	1012032	1012040	1012050	1012063	1012075

Elbow 90° female

Ø	20-1/2"	25-3/4"	32-1"	40-1"1/4	50-1"1/2
box	10	10	10	1	1
code	1013020	1013025	1013032	1013040	1013050

Elbow 90° reduced female

Ø	25-1/2"*	32-3/4"*
box	10	10
code	1015025	1015032

* while stocks last

Elbow 90° male

Ø	16-1/2"	20-1/2"	25-3/4"	32-1"	40-1"1/4	50-1"1/2
box	10	10	10	10	1	1
code	1014016	1014020	1014025	1014032	1014040	1014050

Cap

Ø	20	25	32	40	50	63	75
box	10	10	10	1	1	1	1
code	1020020	1020025	1020032	1020040	1020050	1020063	1020075

PTFE band (sold by 10)

12 m long, 0,075 mm thick.

width	12mm	19mm
code	262204	262304

Excluded from 2014/68/EU Directive (article 1, §2.b) - For water supply & distribution networks (polyethylene and PVC pipes) - Polypropylene body - NBR o-ring - PS: 12,5 bar - TS: -10°C/+45°C.

Tapping bridge

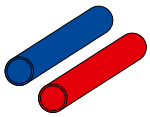
ext. pipe Ø	25	25	32	32	40	40	40	50	50	50
thread	1/2"	3/4"	1/2"	3/4"	1/2"	3/4"	1"	1/2"	3/4"	1"
pack	10/170	10/170	10/170	10/170	5/140	5/140	5/140	5/130	5/130	5/130
code	1189254	1189255	1189324	1189325	1189414	1189415	1189416	1189514	1189515	1189516

ext. pipe Ø	63	63	63	63	63
thread	1/2"	3/4"	1"	1"1/4	1"1/2
pack	5/120	5/120	5/120	5/120	5/120
code	1189634	1189635	1189636	1189637	1189638

PER pipes

Heating & sanitary installations - Corrosion resistent - Flexible & easy to use - Low head loss thanks to PER pipe interior surface.

PER bare pipe



PER pre-sheated pipe

PER pre-sheated insulated pipe

Ø	coil length (m)	blue code	red code
10 x 12	120	PERB12120	PERR12120
	240	PERB12240	PERR12240
13 x 16	80	-	PERR1680
	120	PERB16120	PERR16120
	200	-	PERR16200
	240	PERB16240	PERR16240
	600	-	PERR16600
16 x 20	120	PERB20120	PERR20120
	240	PERB20240	PERR20240
20 x 25	50	PERB2550	PERR2550
	100	PERB25100	PERR25100

coil length (m)	blue code	red code
25	PERPB1225	PERPR1225
50	PERPB1250	PERPR1250
100	PERPB12100	PERPR12100
25	PERPB1625	PERPR1625
50	PERPB1650	PERPR1650
100	PERPB16100	PERPR16100
25	PERPB2025	PERPR2025
50	PERPB2050	PERPR2050
50	PERPB2550	PERPR2550

coil length (m)	blue code	red code
50	PERPB1250C9	PERPR1250C9
50	PERPB1650C9	PERPR1650C9
50	PERPB2050C9	PERPR2050C9
50	PERPB2550C9	PERPR2550C9

Radial press fittings

Mandatory packing applies

For PER & PB pipes - CW617N body, stainless steel socket, plastic ring - Tracking: "Pbtub" marked - Pressure: sanitary hot water 6 bar, sanitary cold water (20°C) 10 bar, radiators & floor heating 6 bar, cold water (min. 5°C) 10 bar - Max. torque tightness: 30 KN/m - Series 5 (acc. to ISO 4065): 12x1,3, 16x1,5, 20x1,9, 25x2,3, 32x2,9 - ⚠ Take into account the potential pipe extension while installing - Do not use oakum - **Mandatory packing:** 25 pcs up to Ø20, individually above.

Free nut

Ø	3/8"-12	3/8"-16	1/2"-12	1/2"-16	1/2"-20	3/4"-12	3/4"-16	3/4"-20	3/4"-25	1"-25
box	225	150	225	225	225	100	150	150	100	100
code	RE812	RE816	RE212	RE216	RE220	RE412	RE416	RE420	RE425	RE1025

Male

Ø	3/8"-12	3/8"-16	1/2"-12	1/2"-16	1/2"-20	3/4"-16	3/4"-20	3/4"-25
box	225	225	225	225	150	150	150	100
code	RM812	RM816	RM212	RM216	RM220	RM416	RM420	RM425

Female

Ø	3/8"-12	3/8"-16	1/2"-12	1/2"-16	1/2"-20	3/4"-16	3/4"-20	3/4"-25
box	225	225	225	150	150	150	100	100
code	RF812	RF816	RF212	RF216	RF220	RF416	RF420	RF425

Equal socket

Ø	12	16	20	25
box	225	225	150	100
code	RMA12	RMA16	RMA20	RMA25

Reduced socket

Ø	12-16	12-20	16-20	16-25	25-20
box	225	150	150	150	100
code	RMA1216	RMA1220	RMA1620	RMA1625	RMA2520

Elbow free nut

Ø	3/8"-12	1/2"-12	1/2"-16	1/2"-20	3/4"-16	3/4"-20	3/4"-25
box	150	100	100	100	100	75	75
code	RCE812	RCE212	RCE216	RCE220	RCE416	RCE420	RCE425

Elbow

Ø	12	16	20	25
box	150	150	150	100
code	RC12	RC16	RC20	RC25

Elbow female

Ø	3/8"-12	3/8"-16	1/2"-12	1/2"-16	1/2"-20	3/4"-25
box	150	150	150	150	100	100
code	RCF812	RCF816	RCF212	RCF216	RCF220	RCF425

Elbow male

Ø	3/8"-12	1/2"-12	1/2"-16	1/2"-20	3/4"-25
box	150	150	150	100	100
code	RCM812	RCM212	RCM216	RCM220	RCM425

Elbow wall connection

Ø	short 1/2"-12	short 1/2"-16	short 1/2"-20	long 1/2"-12	long 1/2"-16	long 1/2"-20
box	100	100	100	100	100	100
code	RCA212	RCA216	RCA220	RCAL212	RCAL216	RCAL220

Tee wall connection*

Ø	12-M3/8"-F1/2"	16-M3/8"-F1/2"
box	80	80
code	RTAMF12	RTAMF16

*pack of 20 pcs

Equal tee

Ø	12	16	20	25
box	100	100	100	75
code	RT12	RT16	RT20	RT25

Tee female

Ø	1/2"-12	1/2"-16	1/2"-20
box	100	100	100
code	RTF212	RTF216	RTF220

Tee male

Ø	1/2"-16
box	100
code	RTM216

Reduced tee

Ø	16-12-12	16-16-12	16-12-16	16-20-16	20-12-12	20-12-16	20-12-20	20-16-16	20-16-20	20-20-16	25-20-25*
box	100	100	100	100	100	100	100	100	100	100	60
code	RT161212	RT161612	RT161216	RT162016	RT201212	RT201216	RT201220	RT201616	RT201620	RT202016	RT252025

*pack of 20 pcs

Adaptor for copper pipe

Ø	10x12-10	10x12-12	10x12-14	13x16-14	13x16-16	13x16-18	16x20-16	16x20-18	16x20-20	16x20-22	20x25-22
box	225	225	225	225	225	225	150	150	150	150	100
code	RAC1210	RAC1212	RAC1214	RAC1614	RAC1616	RAC1618	RAC2016	RAC2018	RAC2020	RAC2022	RAC2522

Elbow adaptor for copper pipe

Ø	10x12-12	10x12-14	13x16-14	13x16-16	16x20-16
box	150	150	150	150	150
code	RCAC1212	RCAC1214	RCAC1614	RCAC1616	RCAC2016

Eurocone free nut

Ø	3/4"-12	3/4"-16
box	150	150
code	REC412	REC416

Ball valve for press fitting

Ø	1/2"-12	1/2"-16
box	150	150
code	VANPR212	VANPR216

Wall outlet*

Ø	pipe 10x12	pipe 13x16
box	40	40
code	RSC12	RSC16

*pack of 5 pcs

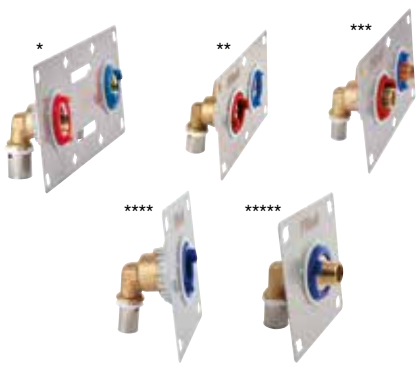
Bracket for wall outlet

box	50
code	EQU

Mounting set

code	COFPIN

Includes mounting pliers, cutting pliers & flaring pliers for Ø12 to Ø15 pipes.



Support system for plasterboard

	Ø	center distance (mm)	pack	code
*	F 1/2" - 10 x 12	150	16	PLACR212
	F 1/2" - 13 x 16	150	16	PLACR216
**	F 1/2" - 10 x 12	55	32	PLACRF212
	F 1/2" - 13 x 16	55	32	PLACRF216
***	M 3/8" - 10 x 12	55	32	PLACRM812
	M 3/8" - 13 x 16	55	32	PLACRM816
****	F 1/2" - 10 x 12		32	PLACR212MONO
	F 1/2" - 13 x 16		32	PLACR216MONO
*****	M 3/8" - 10 x 12		32	PLACRM812MONO
	M 3/8" - 13 x 16		32	PLACRM816MONO

Stainless steel board set

	center distance (mm)	pack	code
*	150	16	PLACINOX
**	55	32	PLACINOX55
***		32	PLACINOXMONO

Sliding sleeve fittings

Mandatory packing applies

For PER & PB pipes - CW617 & CW614 brass - Tracking: "Pbtub" marked - Pressure: sanitary hot water 6 bar, radiators & floor heating 6 bar, cold water (min. 5°C) 10 bar - Max. torque tightness: 30 KN/m - Series 5 (acc. to ISO 4065:1996): 12x1,3, 16x1,5, 20x1,9, 25x2,3, 32x2,9 - ⚠ Take into account the potential pipe extension while installing - Do not use oakum -
Mandatory packing: 25 pcs up to Ø20, individually above.

Free nut

Ø	3/8"-12	3/8"-16	1/2"-12	1/2"-16	1/2"-20	3/4"-16	3/4"-20	3/4"-25	1"-25
box	225	225	225	225	150	150	150	150	150
code	E812	E816	E212	E216	E220	E416	E420	E425	E1025

Male

Ø	3/8"-12	3/8"-16	1/2"-12	1/2"-16	1/2"-20	3/4"-16	3/4"-20	3/4"-25
box	225	225	225	225	150	150	150	150
code	M812	M816	M212	M216	M220	M416	M420	M425

Female

Ø	3/8"-12	3/8"-16	1/2"-12	1/2"-16	1/2"-20	3/4"-20
box	225	225	225	150	150	100
code	F812	F816	F212	F216	F220	F420

Elbow

Ø	12	16	20	25
box	150	150	150	100
code	C12	C16	C20	C25

Elbow male

Ø	3/8"-12	3/8"-16	1/2"-12	1/2"-16	1/2"-20	3/4"-25
box	150	150	150	150	100	75
code	CM812	CM816	CM212	CM216	CM220	CM425

Elbow female

Ø	3/8"-12	3/8"-16	1/2"-12	1/2"-16	1/2"-20	3/4"-25
box	150	150	150	150	150	100
code	CF812	CF816	CF212	CF216	CF220	CF425

Elbow free nut

Ø	3/8"-16	1/2"-12	1/2"-16	1/2"-20	3/4"-16	3/4"-20	3/4"-25
box	100	150	150	100	100	100	75
code	CE816	CE212	CE216	CE220	CE416	CE420	CE425

Short elbow wall female connection

Ø	1/2"-12	1/2"-16	1/2"-20
box	100	100	100
code	CA212	CA216	CA220

Long elbow female wall connection

Ø	1/2"-12	1/2"-18	1/2"-20
box	100	100	100
code	CAL212	CAL216	CAL220

Tee wall connection*

Ø	12-M3/8"-F1/2"	16-M3/8"-F1/2"
box	80	80
code	TAMF12	TAMF16

* pack of 20 pcs

Tee female

Ø	12-1/2"-12	16-1/2"-16	20-1/2"-20	25-3/4"-25*
box	100	100	100	75
code	TF212	TF216	TF220	TF425

* pack of 20 pcs

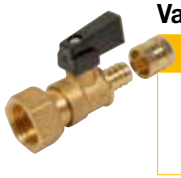
Tee male

Ø	12-1/2"-12	16-1/2"-16	20-1/2"-20	25-3/4"-25
box	150	100	100	75
code	TM212	TM216	TM220	TM425

Equal tee

Ø	12-12-12	16-16-16	20-20-20	25-25-25
box	100	100	100	80
code	T12	T16	T20	T25

Valve for sliding sleeve fitting



Ø	1/2"-10x12	1/2"-13x16
box	150	150
code	VANP212	VANP216

Reduced tee

Ø	16-12-12	16-12-16	16-16-12	16-20-16	20-12-16	20-16-16	20-16-20	20-20-16	20-25-20	25-20-20	25-20-25
box	100	100	100	100	100	100	100	100	75	75	75
code	T161212	T161216	T161612	T162016	T201216	T201616	T201620	T202016	T202520	T252020	T252025

Equal socket

Ø	12	16	20	25
box	225	225	150	100
code	MA12	MA16	MA20	MA25

Reduced socket

Ø	12-16	12-20	16-20	20-25
box	225	225	225	75
code	MA1216	MA1220	MA1620	MA2025

Adaptor for copper pipe

Ø	10x12-12	10x12-14	13x16-12	13x16-14	13x16-16	13x16-18	16x20-16	16x20-18
box	225	225	225	225	225	225	150	150
code	AC1212	AC1214	AC1612	AC1614	AC1616	AC1618	AC2016	AC2018

Elbow adaptor for copper pipe

Ø	10x12-12	10x12-14	13x16-14	13x16-16	16x20-16	16x20-18
box	150	150	150	150	150	150
code	CAC1212	CAC1214	CAC1614	CAC1616	CAC2016	CAC2018

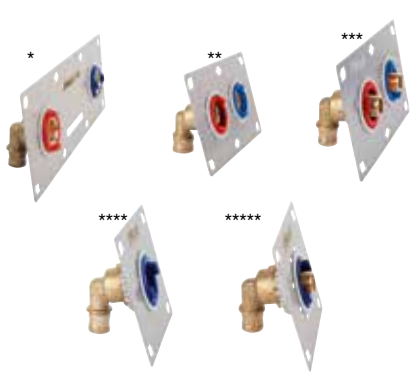
Wall outlet*

Ø	pipe 10x12	pipe 13x16
box	40	40
code	SC12	SC16

*pack of 5 pcs

Bracket for wall outlet

box	50
code	EQU



Support system for plasterboard

	Ø	center distance (mm)	pack	code
*	F 1/2" - 10 x 12	150	16	PLAC212
	F 1/2" - 13 x 16	150	16	PLAC216
**	F 1/2" - 10 x 12	55	32	PLACF212
	F 1/2" - 13 x 16	55	32	PLACF216
***	M 3/8" - 10 x 12	55	32	PLACM812
	M 3/8" - 13 x 16	55	32	PLACM816
****	F 1/2" - 10 x 12		32	PLAC212MONO
	F 1/2" - 13 x 16		32	PLAC216MONO
*****	M 3/8" - 10 x 12		32	PLACM812MONO
	M 3/8" - 13 x 16		32	PLACM816MONO

Stainless steel board set

	center distance (mm)	pack	code
*	150	16	PLACINOX
**	55	32	PLACINOX55
***		32	PLACINOXMONO

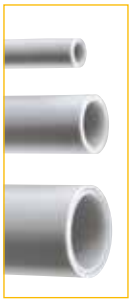
Multilayer pipes

PE-RT/AL/PE-RT (Aluminium core with an inner & outer layer of high temperature stabilized polyethylene - PE) - Aluminium thickness: min. 0,2 mm - Each meter stamped - Made in Germany -
Pipes & fittings system: 10 year guarantee.

Single pipe

Coil

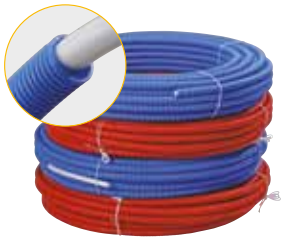
Ø	coil length (m)	code
16 x 2	100	MCT16100
	200	MCT16200
	500	MCT16500
20 x 2	100	MCT20100
	200	MCT20200
26 x 3	50	MCT2650
32 x 3	50	MCT3250



Bar (2,5 m & 5 m)

Ø	pack (m)	code
16 x 2	5 x 15	MCT16
20 x 2	5 x 10	MCT20
26 x 3	5 x 10	MCT26
32 x 3	5 x 4	MCT32
40 x 3,5	5 x 5	MCS40
50 x 4	5 x 5	MCS50
63 x 4,5	5 x 3	MCS63
75 x 5	5 x 1	MCS75

Pre-sheathed pipes



Coil

Ø	coil length (m)	blue sheath code	red sheath code
16 x 2	50	MCTPB1650	MCTPR1650
	100	MCTPB16100	MCTPR16100
20 x 2	100	MCTPB20100	MCTPR20100
26 x 3	50	MCTPB2650	MCTPR2650

Cutter-pipe

Ø	code
16 to 26	MCCT
16 to 75	MCCT75

Radial press fittings

Mandatory packing applies

Exclusively for Fränkische pipes - F & TH type press jaw from Ø 16 to Ø 32, F type above - Pipes & fittings system: 10 year guarantee.

Ø 16-32

Ø 40-63

Ø 40-63

Ø 40-63

Ø 16-32

Ø 40-75

Free nut

Ø	3/8"-16	1/2"-16	3/4"-16	1/2"-20	3/4"-20	1"-20	3/4"-26	1"-26	1"-32	1"1/4-32
pack	10	10	10	10	10	10	5	5	5	5
code	MCRXSE816	MCRXSE216	MCRXSE416	MCRXSE220	MCRXSE420	MCRXSE1020	MCRXSE426	MCRXSE1026	MCRXSE1032	MCRXSE1432

Ø	1"1/2-32	1"1/4-40	1"1/2-40	2"-50	2"-63
box	5	3	3	2	2
code	MCRXSE1232	MCRE1440	MCRE1240	MCRE2050	MCRE2063

Female

Ø	1/2"-16	1/2"-20	3/4"-20	3/4"-26	1"-26	1"-32	1"-40	1"1/4-40	1"1/2-50	2"-63
pack	10	10	10	5	5	5	5	3	2	1
code	MCRXSF216	MCRXSF220	MCRXSF420	MCRXSF426	MCRXSF1026	MCRXSF1032	MCRF1040	MCRF1440	MCRF1250	MCRF2063

Male

Ø	3/8"-16	1/2"-16	3/4"-16	1/2"-20	3/4"-20	1"-20	3/4"-26	1"-26	1"-32	1"-40
pack	10	10	10	10	10	10	5	5	5	3
code	MCRXSM816	MCRXSM216	MCRXSM416	MCRXSM220	MCRXSM420	MCRXSM1020	MCRXSM426	MCRXSM1026	MCRXSM1032	MCRM1040

Ø	1"1/4-40	1"1/2-40	1"1/2-50	2"-50	2"-63	2"1/2-75
box	3	3	2	2	1	1
code	MCRM1440	MCRM1240	MCRM1250	MCRM2050	MCRM2063	MCRM2275

Equal socket

Ø 16-32
Ø 40-63
Ø 75

	PPSU							Brass
Ø	16	20	26	32	40	50	63	75
pack	10	10	5	5	3	2	1	1
code	MCRXSMA16	MCRXSMA20	MCRXSMA26	MCRXSMA32	MCRMA40P	MCRMA50P	MCRMA63P	MCRMA75

Reduced socket

Ø 16-32
Ø 32-50
Ø 40-63

	PPSU							
Ø	16-20	16-26	20-26	20-32	26-32	26-40	32-40	32-50
pack	10	5	5	5	5	3	3	2
code	MCRXSMA1620	MCRXSMA1626	MCRXSMA2026	MCRXSMA2032	MCRXSMA2632	MCRXSMA2640	MCRXSMA3240	MCRXSMA3250

	PPSU		
Ø	40-50	40-63	50-63
pack	2	1	1
code	MCRMA4050P	MCRMA4063P	MCRMA5063P

	Brass		
Ø	40-75	50-75	63-75
pack	1	1	1
code	MCRMA4075	MCRMA5075	MCRMA6375

Elbow 90° male

Ø 16-32
Ø 40-50

	Brass							
Ø	3/8"-16	1/2"-16	1/2"-20	3/4"-20	3/4"-26	1"-32	1"1/4-40	1"1/2-50
pack	10	10	10	10	5	5	3	2
code	MCRXSCM816	MCRXSCM216	MCRXSCM220	MCRXSCM420	MCRXSCM426	MCRXSCM1032	MCRCM1440	MCRCM1250

Elbow 90° female

	Brass				
Ø	1/2"-16	1/2"-20	3/4"-20	3/4"-26	1"-32
pack	10	10	10	5	5
code	MCRXSCF216	MCRXSCF220	MCRXSCF420	MCRXSCF426	MCRXSCF1032

Elbow 90° with free nut

	Brass			
Ø	1/2"-16	3/4"-16	3/4"-20	1"-26
pack	10	10	10	5
code	MCRXSCE216	MCRXSCE416	MCRXSCE420	MCRXSCE1026

Elbow 90°

Ø 16-32
Ø 40-63
Ø 75

	PPSU							Brass
Ø	16	20	26	32	40	50	63	75
pack	10	10	5	5	3	2	1	1
code	MCRXSC16	MCRXSC20	MCRXSC26	MCRXSC32	MCRC40P	MCRC50P	MCRC63P	MCRC75

Elbow 45°

Ø 16-32
Ø 40-63
Ø 75

	PPSU					Brass
Ø	26	32	40	50	63	75
pack	5	5	3	2	1	1
code	MCRXSC2645	MCRXSC3245	MCRC4045P	MCRC5045P	MCRC6345P	MCRC7545

Elbow fitting 90°

	Brass			
Ø	16	20	26	32
pack	10	10	5	2
code	MCRXSCB16	MCRXSCB20	MCRXSCB26	MCRXSCB32

Tee female

Ø 16-32
Ø 40-75
Ø 16-32

	Brass									
Ø	16-1/2"-16	20-1/2"-20	20-3/4"-20	26-1/2"-26	26-3/4"-26	32-1/2"-32	32-3/4"-32	32-1"-32	40-1/2"-40	40-3/4"-40
pack	10	10	10	5	5	5	5	5	1	1
code	MCRXSTF216	MCRXSTF220	MCRXSTF420	MCRXSTF226	MCRXSTF426	MCRXSTF232	MCRXSTF432	MCRXSTF1032	MCRTF240	MCRTF440

Ø	50-3/4"-50	75-1"-75
box	1	1
code	MCRTF450	MCRTF1075

Equal tee

Ø 16-32
Ø 40-63
Ø 75

	PPSU							Brass
Ø	16	20	26	32	40	50	63	75
pack	10	10	5	5	3	2	1	1
code	MCRXST16	MCRXST20	MCRXST26	MCRXST32	MCRT40P	MCRT50P	MCRT63P	MCRT75

Reduced tee with reduced central outlet

Ø 40-63

	PPSU							
Ø	20-16-20	26-16-26	26-20-26	32-16-32	32-20-32	32-26-32	40-20-40	40-26-40
pack	10	5	5	5	5	5	3	3
code	MCRXST201620	MCRXST261626	MCRXST262026	MCRXST321632	MCRXST322032	MCRXST322632	MCRXST402040	MCRXST402640

Ø 75

	PPSU					Brass	
Ø	40-32-40	50-20-50	50-26-50	50-32-50	63-32-63	75-40-75	75-50-75
pack	3	2	2	2	1	1	1
code	MCRXST403240	MCRXST502050	MCRXST502650	MCRXST503250	MCRXST633263	MCRT754075	MCRT755075

Reduced tee with reduced central and end outlets

	PPSU		
Ø	20-16-16	26-20-20	32-26-26
pack	10	5	5
code	MCRXST201616	MCRXST262020	MCRXST322626

Reduced tee with enhanced central outlet

	PPSU	
Ø	16- 20-16	20-26-20
pack	10	5
code	MCRXST162016	MCRXST202620

Reduced tee with reduced end outlet

	PPSU	
Ø	20-20-16	26-26-20
pack	10	5
code	MCRXST202016	MCRXST262620

Reduced tee with 3 differents Ø

	PPSU
Ø	26-16-20
pack	5
code	MCRXST261620

Adaptor for PER pipe

Ø	13x16-16x2	16x20-20x2	10x12-16x2	13x16-20x2	20x25-26x3
pack	10	10	10	10	5
code	MCRXSPER16	MCRXSPER20	MCRXSPER1612	MCRXSPER2016	MCRXSPER2625

Press cap

Ø	16	20	26	32
pack	10	10	5	5
code	MCRXSBOU16	MCRXSBOU20	MCRXSBOU26	MCRXSBOU32

Adaptor for copper pipe

	Brass		
Ø	16x2-14	16x2-16	20x2-18
pack	10	10	10
code	MCRXSAC1614	MCRXSAC1616	MCRXSAC2018

Stainless steel sleeve

Ø 16-32

Ø 40-75

Ø	16	20	26	32	40	50	63	75
pack	10	10	5	5	1	1	1	1
code	MCRXSB16	MCRXSB20	MCRXSB26	MCRXSB32	MCRB40	MCRB50	MCRB63	MCRB75

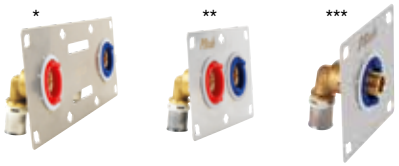
Elbow wall connection

	35 mm length			52 mm length	78 mm length	
Ø	1/2"-16	1/2"-20	3/4"-26	1/2"-16	1/2"-16	1/2"-20
pack	10	10	5	10	10	10
code	MCRXSCA216	MCRXSCA220	MCRXSCA426	MCRXSCAM216	MCRXSCAL216	MCRXSCAL220

Outlet wall connection set

Ø	ext. 3/4"-int.1/2"-16
pack	10
code	MCRXSSOR16

Support system for plasterboard



	Ø	center distance (mm)	pack	code
*	F 1/2" - 16 x 2	150	16	PLACMCRXS216
	F 1/2" - 20 x 2	150	16	PLACMCRXS220
**	F 1/2" - 16 x 2	55	32	PLACMCRXSF216
***	M 3/8" - 16 x 2		32	PLACMCRXSM816MON

Stainless steel board set

	center distance (mm)	pack	code
*	150	16	PLACINOX
**	55	32	PLACINOX55
***		32	PLACINOXMONO

Multilayer piping system

Compression fittings

For 16 x 2, 20 x 2 & 26 x 3 multilayer pipes - ⚠ **Add a PTFE gasket for male fittings before connecting - While stocks last.**

Female

Ø	3/8"-16	1/2"-16	3/4"-16	1/2"-20	3/4"-20	1"-26
code	120034	120044	120054	120144	120154	120264

Male

Ø	3/8"-16	1/2"-16	1/2"-20	3/4"-20	3/4"-26	1"-26
code	121034	121044	121144	121154	121254	121264

Elbow female

Ø	1/2"-16
code	127044

Elbow male

Ø	1/2"-16
code	128044

Reduced tee

Ø	20-16-20	20-16-16
code	124304	124404

Equal tee

Ø	16	20	26
code	124004	124104	124204

PTFE gaskets

1,5 mm thickness - Sold by 10.

Ø	3/8"	1/2"	3/4"	1"
code	123034	123044	123054	123064

Equal socket

Ø	16	20	26
code	126004	126104	126204

Reduced socket

Ø	20-16
code	126304

Equal elbow

Ø	16	20	26
code	125004	125104	125204

Wall connection

Ø	1/2"-16
code	129044

Sizing tool

For pipes Ø 16 to 26.

Ø	16-1/2"
code	123604

Compression fittings - Radiators connections

Free nut Eurocone

Connection on radiators & lockshields valves 3/4" male Eurocone (sold by 2)

Ø	code
F 3/4"-16	MCCEC416
F 3/4"-20	MCCEC420

Distribution manifolds

Flat bearing manifolds

Sanitary manifolds with built-in valves

3/4" - Ø body 28 mm

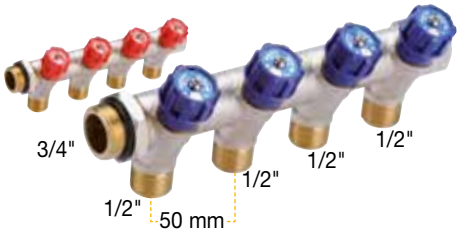
Ø outlet 1/2" - Center distance 50 mm.

outlets	2	3	4	5	6	7	8
code	COLV42	COLV43	COLV44	COLV45	COLV46	COLV47	COLV48

3/4" - Ø body 27 mm

Ø outlet 1/2" - Center distance 50 mm.

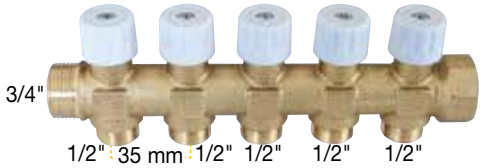
outlets	2	3	4	5
blue code	COLRB42	COLRB43	COLRB44	COLRB45
red code	COLRR42	COLRR43	COLRR44	COLRR45



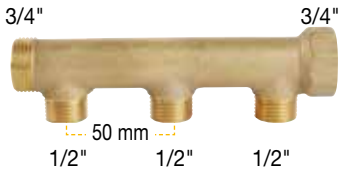
3/4" - Ø body 24,5 mm

Ø outlet 1/2" - Center distance 35 mm (compact).

outlets	2	3	4	5
code	SANR42	SANR43	SANR44	SANR45



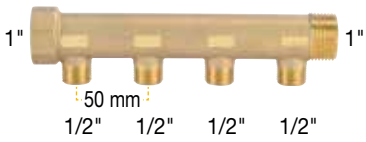
Modular manifolds



Male/female - 3/4" - Ø body 24 mm for 2 to 6 outlets - Ø body 26 mm for 7 outlets

Ø outlet 1/2" - Center distance 50 mm.

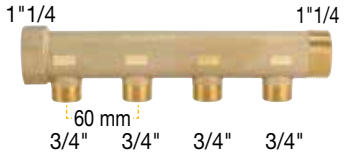
outlets	2	3	4	5	6	7
code	ECOMPF42	ECOMPF43	ECOMPF44	ECOMPF45	ECOMPF46	CCOMF47



Male/female - 1" - Ø body 30 mm

Ø outlet 1/2" - Center distance 50 mm.

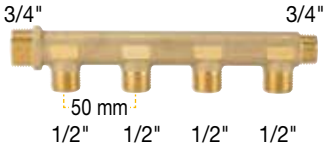
outlets	2	3	4	5	6	7
code	CCOMP102	CCOMP103	CCOMP104	CCOMP105	CCOMP106	CCOMP107



Male/female - 1"1/4 - Ø body 39 mm

Ø outlet 3/4" - Center distance 60 mm.

outlets	2	3	4	5	6
code	CCOMP142	CCOMP143	CCOMP144	CCOMP145	CCOMP146

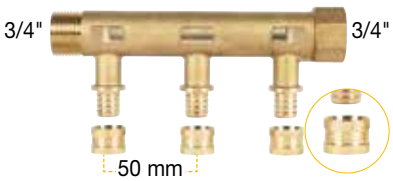


Male/male - 3/4" - Ø body 19 mm for 1 outlet - Ø body 23 mm for 2 to 9 outlets

Ø vertical outlet 1/2" - Center distance 50 mm.

outlets	1	2	3	4	5	6	7	8	9
code	CCOMP41	CCOMP42	CCOMP43	CCOMP44	CCOMP45	CCOMP46	CCOMP47	CCOMP48	CCOMP49

Modular manifolds with built-in fittings



With radial press fittings - 3/4" - Ø body 26 mm

Center distance 50 mm.

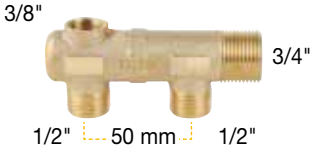
	For PER pipe 10 x 12					For PER pipe 13 x 16				
outlets	2	3	4	5	6	2	3	4	5	6
code	GCOL4212	GCOL4312	GCOL4412	GCOL4512	GCOL4612	GCOL4216	GCOL4316	GCOL4416	GCOL4516	GCOL4616

With sliding fittings - 3/4" - Ø body 26 mm

Center distance 50 mm.

	For PER pipe 10 x 12					For PER pipe 13 x 16				
outlets	2	3	4	5	6	2	3	4	5	6
code	RCOL4212	RCOL4312	RCOL4412	RCOL4512	RCOL4612	RCOL4216	RCOL4316	RCOL4416	RCOL4516	RCOL4616

Single manifolds with draining outlet



3/4" - Ø body 25 mm for 2 to 5 outlets - Ø body 28 mm for 6 to 7 outlets

Ø outlet 1/2" - Center distance 50 mm.

outlets	2	3	4	5	6	7
code	SIMPP42	SIMPP43	SIMPP44	SIMPP45	SIMPP46	SIMPP47

1" - Ø body 30 mm for 2 to 4 outlets - Ø body 32 mm for 5 to 6 outlets

Ø outlet 1/2" - Center distance 50 mm.

outlets	3	4	5	6
code	SIMPP103	SIMPP104	SIMPP105	SIMPP106

Accessories for manifolds

Compact ball valves (FM1/2")

	code
For flat bearing manifolds	VANP2E

	code
For flat bearing manifolds	678004

Ball valves with free nut (FM1/2")

	code
For conical bearing manifolds	VANP2

	code
For flat bearing manifolds	VANDERP

Drain cock ball valve

Ø	code
1/2" FM	ROB554

Fitting 2 outlets (F3/8" & F1/2")

Ø	code
3/4"	BOU599D4
1"	BOU599D10

Fitting 1 outlet (F3/8")

Ø	code
3/4"	BOU599R4
1"	BOU599R10

Plain cap for flat bearing

Ø	code
1/2"	BOUFP2
3/4"	BOUFP4
1"	BOUFP10

Plain cap for conical bearing

Ø	code
3/4"	BOU599C4

Thermometer holder

F1/2" - M1/2"
(threaded F1/4")

	code
	PORDER2

Thermometer with glove finger

1/4" M - Ø 40 mm

	code
	THE391

Housing cabinet

For 3/4" & 1" manifolds - Plastic.

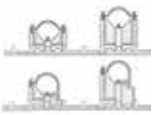
dimension (mm)	center distance (mm)	max. outlets	code
320 x 250 x 90	35	8	COF320
	50	6	
500 x 250 x 90	35	12	COF500
	50	9	

Brackets (sold by 2)

Ø	code
3/4"	SUP4
1"	SUP10
1"1/4	SUP658U

Clips for housing cabinet

For 3/4" & 1" manifolds (sold by 4)



	code
Center distance 35 mm	SUP35
Center distance 50 mm	SUP50

Single clips for pipe sheathes

(sold by box of 100). Price for 1 box.

Ø clip	16	20	22	25	28
pack	16 boxes	16 boxes	16 boxes	12 boxes	12 boxes
code	FIXS16	FIXS20	FIXS22	FIXS25	FIXS28

Pipe guide angle

Ø pipe	12	16	20
pack	10	10	10
code	GT12	GT16	GT20

Double clips for pipe sheathes

(sold by box of 100, except Ø 28: box of 50). Price for 1 box.

Ø clip	16	20	22	25	28
pack	16 boxes	12 boxes	9 boxes	9 boxes	12 boxes
code	FIXD16	FIXD20	FIXD22	FIXD25	FIXD28

Quadruple clips for pipe sheathes

(sold by box of 50). Price for 1 box.

Ø clip	20	25
pack	12 boxes	9 boxes
code	FIXQ20	FIXQ25

Braided rubber flexible hoses

Mandatory packing applies

Sanitary - Bore Ø 8 mm

For hot & cold water, sanitary taps, toilet tank, coffee machine, etc... - Stainless steel 304 braid (minimal cover 95%) - EPDM inner hose - Brass fittings - Nickel-plated brass or stainless steel sockets - EPDM gaskets - Max. temperature & pressure: 90°C / 10 bar - Water PH: 6 to 8 - Water & glycol: max. 30% glycol - Min. radial bending 30 mm - **Mandatory packing:** 10 pcs.

Female/female

	fittings	length (mm)	pack	code
Ø 8 mm	F 3/8" - F 3/8"	150	10	FF88 0150S
		200	10	FF88 0200S
		300	10	FF88 0300S
		400	10	FF88 0400S
		500	10	FF88 0500S
		600	10	FF88 0600S
		800	10	FF88 0800S
		1000	10	FF88 1000S
		1500	10	FF88 1500
	F 3/8" - F 1/2"	200 *	10	FF82 0200S
		300	10	FF82 0300S
		400	10	FF82 0400S
		500	10	FF82 0500
		600	10	FF82 0600S
	F 1/2" - F 1/2"	150	10	FF22 0150S
		300	10	FF22 0300S
		400	10	FF22 0400S
		500	10	FF22 0500S
		600	10	FF22 0600S
		800	10	FF22 0800S
		1000	10	FF22 1000S
		1500	10	FF22 1500
		2000	10	FF22 2000
	F 3/4" - F 3/4"	300	10	FF44 0300S
		500	10	FF44 0500S
		800	10	FF44 0800
		1000	10	FF44 1000

* while stocks last

Female/male

	fittings	length (mm)	pack	code
Ø 8 mm	F 3/8" - M 3/8"	150	10	FM88 0150S
		200	10	FM88 0200S
		300	10	FM88 0300S
		400	10	FM88 0400S
		500	10	FM88 0500S
		800	10	FM88 0800
	F 3/8" - M 1/2"	150	10	FM82 0150
		300	10	FM82 0300S
		500	10	FM82 0500
	F 1/2" - M 1/2"	150	10	FM22 0150S
		300	10	FM22 0300S
		400 *	10	FM22 0400S
		500	10	FM22 0500S
		600 *	10	FM22 0600S
		800	10	FM22 0800
		1000	10	FM22 1000S
	F 1/2" - M 3/8"	300	10	FM28 0300S
		500	10	FM28 0500
	F 3/4" - M 3/4"	300	10	FM44 0300
		500	10	FM44 0500

* while stocks last

Elbow female/female

	fittings	length (mm)	pack	code
Ø 8 mm	EF 3/8" - F 3/8"	300	10	CFF88 0300
		500	10	CFF88 0500
		700	10	CFF88 0700
	EF 1/2" - F 1/2"	300	10	CFF22 0300S
		500	10	CFF22 0500S
		800	10	CFF22 0800
		1000	10	CFF22 1000
	EF 3/4" - F 3/4"	1200	10	CFF44 1200
		1500	10	CFF44 1500

Elbow female/male

	fittings	length (mm)	pack	code
Ø 8 mm	EF 3/4" - M 3/4"	500	10	CFM44 0500S

Female/sleek end

	fittings	length (mm)	pack	code
Ø 8 mm	F 3/8" - SE 10	300	10	FTL810 0300
	F 1/2" - SE 10	300	10	FTL210 0300

Male/female

	fittings	length (mm)	pack	code
Ø 8 mm	M 10 - 1 short - F 3/8"	300	10	MXF8 0300S
	M 10 - 1 middle - F 3/8"	300	10	MYF8 0300S

Female/bicone

	fittings	length (mm)	pack	code
Ø 8 mm	F 3/8" - Bicone 10	300	10	FB8810 0300S
		500	10	FB8810 0500
	F 3/8" - Bicone 12	300	10	FB8812 0300
		500	10	FB8812 0500
	F 1/2" - Bicone 10	300	10	FB2810 0300S
	F 1/2" - Bicone 14	300	10	FB2214 0300

Male/bicone

	fittings	length (mm)	pack	code
Ø 8 mm	M 1/2" - Bicone 14	300	10	MB8810 0300S
	M 1/2" - Bicone 12	300	10	MB8812 0300
	M 1/2" - Bicone 10	300	10	MB2810 0300

Bicone/bicone

	fittings	length (mm)	pack	code
Ø 8 mm	Bicone 10 - Bicone 10	300	10	BB881010 0300

Plumbing - Bore Ø 13 mm

For hot & cold water, sanitary taps, plumbing, water heater, etc… - Stainless steel 304 braid (minimal cover 95%) - EPDM inner hose - Nickel-plated brass fittings - Nickel-plated brass or stainless steel sockets - EPDM gaskets - Max. temperature & pressure: 5°C to 90°C / 10 bar - Water PH: 6 to 8 - Min. radial bending 45 mm.

Female/female

	fittings	length (mm)	pack	code
Ø 13 mm	F 1/2" - F 1/2"	300	10	GFF22 0300S
		500	10	GFF22 0500S
		700	10	GFF22 0700S
		1000	10	GFF22 1000S
		1200	10	GFF22 1200
		1500	10	GFF22 1500
		2000	1	GFF22 2000
	F 3/4" - F 3/4"	300	10	GFF44 0300S
		500	10	GFF44 0500S
		700	10	GFF44 0700S
		1000	10	GFF44 1000S
		1200	10	GFF44 1200
		1500	1	GFF44 1500
		2000	1	GFF44 2000

Female/male

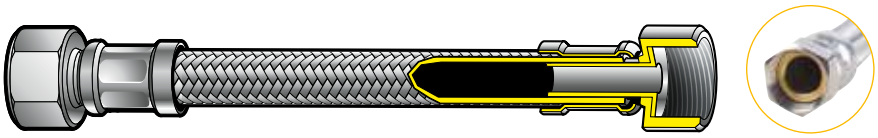
	fittings	length (mm)	pack	code
Ø 13 mm	F 1/2" - M 1/2"	300	10	GFM22 0300S
		500	10	GFM22 0500S
		700	10	GFM22 0700S
		1000	10	GFM22 1000S
	F 3/4" - M 1/2"	300	10	GFM42 0300
		500	10	GFM42 0500S
	F 3/4" - M 3/4"	300	10	GFM44 0300S
		500	10	GFM44 0500S
		700	10	GFM44 0700S
		1000	10	GFM44 1000S

Elbow female/female

	fittings	length (mm)	pack	code
Ø 13 mm	EF 1/2" - F 1/2"	300	10	GCFF22 0300S
		500	10	GCFF22 0500S
		700	10	GCFF22 0700S
		1000	10	GCFF22 1000S
		1200	10	GCFF22 1200
		1500	10	GCFF22 1500
	EF 3/4" - F 3/4"	500	10	GCFF44 0500S
		700	10	GCFF44 0700S
		800	10	GCFF44 0800
		1000	10	GCFF44 1000S
		1200	10	GCFF44 1200S
		1500	10	GCFF44 1500S
		2000	1	GCFF44 2000

Elbow female/male

	fittings	length (mm)	pack	code
Ø 13 mm	EF 1/2" - M 1/2"	300	10	GCFM22 0300
		500	10	GCFM22 0500



Plumbing, heating, air conditioning & pressurisation set - Bore Ø 15 to 50 mm

For hot & cold water, boiler, water heater, air conditioning & pressurisation set - Stainless steel 304 braid (minimal cover 95%) - EPDM inner hose - Nickel-plated brass fittings - Anodised aluminium sockets - Max. temperature & pressure: -5°C to 100°C / 10 bar up to Ø 3/4" & 6 bar above - Water PH: 6 to 8.

Female/female

	fittings	length (mm)	min. radial bending (mm)	pack	code
Ø 15 mm	F 1/2" - F 1/2"	300	70	10	HFF22 0300S
		500	70	10	HFF22 0500S
		700	70	10	HFF22 0700S
		1000	70	10	HFF22 1000S
		1500	70	1	HFF22 1500
	F 3/4" - F 3/4"	300	70	10	H15FF44 0300
		500	70	10	H15FF44 0500
		700	70	10	H15FF44 0700
		1000	70	10	H15FF44 1000
		1500	70	1	H15FF44 1500
Ø 19 mm	F 3/4" - F 3/4"	300	80	5	HFF44 0300S
		500	80	5	HFF44 0500S
		700	80	5	HFF44 0700S
		1000	80	5	HFF44 1000S
		1500	80	1	HFF44 1500
Ø 25 mm	F 1" - F 1"	300	100	5	HFF1010 0300S
		500	100	5	HFF1010 0500S
		700	100	5	HFF1010 0700S
		1000	100	1	HFF1010 1000S
Ø 32 mm	F 1"1/4 - F 1"1/4	500	160	1	HFF1414 0500S
		700	160	1	HFF1414 0700S
		1000	160	1	HFF1414 1000S
Ø 40 mm	F 1"1/2 - F 1"1/2	500	180	1	HFF1212 0500S
		700	180	1	HFF1212 0700S
		1000	180	1	HFF1212 1000S
Ø 50 mm	F 2" - F 2"	500	230	1	HFF2020 0500S
		700	230	1	HFF2020 0700S
		1000	230	1	HFF2020 1000S

Female/male

	fittings	length (mm)	min. radial bending (mm)	pack	code
Ø 15 mm	F 1/2" - M 1/2"	300	70	10	HFM22 0300S
		500	70	10	HFM22 0500S
		700	70	10	HFM22 0700S
		1000	70	1	HFM22 1000S
Ø 19 mm	F 3/4" - M 3/4"	300	80	10	HFM44 0300S
		500	80	10	HFM44 0500S
		700	80	10	HFM44 0700S
		1000	80	1	HFM44 1000S
Ø 25 mm	F 1" - M 1"	300	100	5	HFM1010 0300S
		500	100	5	HFM1010 0500S
		700	100	5	HFM1010 0700S
		1000	100	1	HFM1010 1000S
Ø 32 mm	F 1"1/4 - M 1"1/4	500	160	1	HFM1414 0500S
		700	160	1	HFM1414 0700S
		1000	160	1	HFM1414 1000S
Ø 40 mm	F 1"1/2 - M 1"1/2	500	180	1	HFM1212 0500S
		700	180	1	HFM1212 0700S
		1000	180	1	HFM1212 1000S
Ø 50 mm	F 2" - M 2"	500	230	1	HFM2020 0500S
		700	230	1	HFM2020 0700
		1000	230	1	HFM2020 1000S

Elbow female/female

	fittings	length (mm)	min. radial bending (mm)	pack	code
Ø 15 mm	EF 1/2" - F 1/2"	300	70	10	HCFF22 0300S
		500	70	10	HCFF22 0500S
		700	70	10	HCFF22 0700
		1000	70	10	HCFF22 1000S
Ø 19 mm	EF 3/4" - F 3/4"	300	80	5	HCFF44 0300S
		500	80	5	HCFF44 0500S
		700	80	5	HCFF44 0700S
		1000	80	5	HCFF44 1000S
Ø 25 mm	EF 1" - F 1"	500	100	5	HCFF1010 0500S
		700	100	5	HCFF1010 0700S
		1000	100	1	HCFF1010 1000S

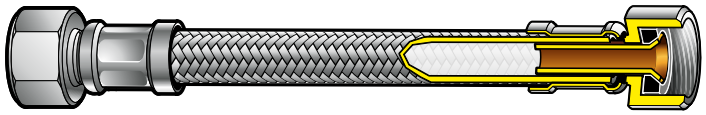
Elbow female/male

	fittings	length (mm)	min. radial bending (mm)	pack	code
Ø 25 mm	EF 1" - M 1"	500	100	5	HCFM1010 0500S
		700	100	5	HCFM1010 0700S
		1000	100	5	HCFM1010 1000S
Ø 32 mm	EF 1"1/4 - M 1"1/4	700 *	130	5	HCFM1414 0700S

* while stocks last

Braided rubber flexible hoses

Mandatory packing applies



Hospital & collective housing - Bore Ø 8,2 mm

For chlorine treatment - Stainless steel 304 braid (minimal cover 95%) - PEX inner hose - Nickel-plated brass fittings - Stainless steel sockets - Max. temperature & pressure: 90°C / 10 bar.

	fittings	length (mm)	pack	code
Ø 8 mm	F 3/8" - F 3/8"	300	10	PFF88 0300
		500	10	PFF88 0500
		700	10	PFF88 0700
		1000	10	PFF88 1000
	F 1/2" - F 1/2"	300	10	PFF22 0300
		500	10	PFF22 0500
		700	10	PFF22 0700
		1000	10	PFF22 1000

Corrugated stainless steel flexible piping system

AYVAZ

Flexible & extensible hoses - Boilerflex

Guarantee 10 Years

Extensible (twice the initial length) - Flexible in any direction - Suitable for: water, steam, hydrocarbons… - Stainless steel 316 hose - Stainless steel 303 male fittings - Nickel-plated brass nut with stainless steal 303 flat bearing - PS: 10 bar - TS: 250°C.

Ø pipe (mm)	fittings	extensible length (mm)	interior Ø (mm)	exterior Ø (mm)	code
12	F 1/2" - M 1/2"	90 to 140	12	16,5	RFM22 090
		130 to 220	12	16,5	RFM22 130
		220 to 420	12	16,5	RFM22 220
16	F 3/4" - M 3/4"	60 to 120	16	21,5	RFM44 060
		90 to 140	16	21,5	RFM44 090
		130 to 220	16	21,5	RFM44 130
		220 to 420	16	21,5	RFM44 220
25	F 1" - M 1"	130 to 220	25	32,0	RFM1010 130
		220 to 420	25	32,0	RFM1010 220

Flexible pipes & fittings

Insulated solar panel connections

Guarantee 10 Years

Material: stainless steel 316L - Anti-UV insulation foam socket - Supplied with probe - Insulation thickness 13 mm - PS: 10 bar - TS: -57°C/+127°C (temporarely: +175°C).

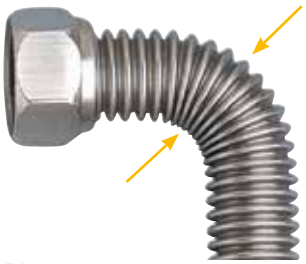
Bi-pipe set

1 coil & 4 fitting set

Ø pipe (mm)	fittings	coil length (m)	code
16	FF 3/4"	10	ECO1610C13
		15	ECO1615C13
		20	ECO1620C13

Heating, plumbing & air-conditioning connections

Material: stainless steel 316L - Max. temperature & pressure: 300°C / 10 bar.



Pipe

Sold only by coil.

Ø pipe (mm)	coil length (m)	interior Ø (mm)	exterior Ø (mm)	working pressure (bar)	max pressure (bar)	min. radial bending (mm)	code
12	25	12,1	16,5	10	40	45	I1225
	50	12,1	16,5	10	40	45	I1250
16	25	16,1	21,5	10	40	58	I1625
	50	16,1	21,5	10	40	58	I1650
20	25	20,1	26,5	10	40	70	I2025
25	25	25,3	32	7	28	85	I2525

Cutter-pipe

code
ICT

Mandatory packing applies

Fittings with tool - Flat bearing

Fittings set

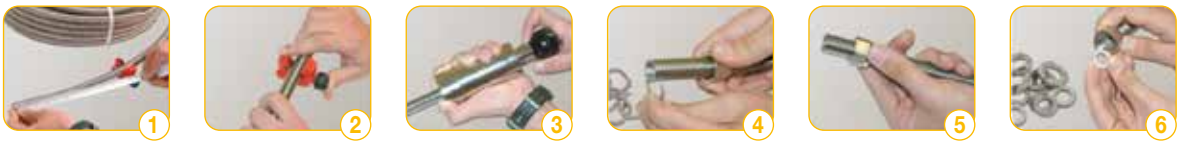
Ø pipe (mm)	fitting	pack	code
12	1/2"	10	IR12
16	3/4"	10	IR16
20	1"	10	IR20
25	1"1/4	10	IR25

Head

Ø pipe (mm)	code
12	ITE12
16	ITE16
20	ITE20
25	ITE25

Piston

code
IPISTON



Nipple

Ø	pack	code
1/2"	10	IM2
3/4"	10	IM4
1"	10	IM10
1"1/4	10	IM14

For male connection to the pipe - May replace piston & head when tight.

Heating, ventilation & air conditioning

- Radiator equipment 384
- Heating floor components 388
- Circulators 390
- Expansion tanks 392
- Air vents & separators 394
- Safety valves 395
- Building control 396
- Instrumentation 399
- Solid fuel boiler equipment 403
- Solar heating equipment 404
- Renewable energy tanks 405
- Self-regulating heating cable 408
- Industrial building heating 409
- Ventilation - Commercial use 411
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- Air conditioning 416

What's new!

Regulation device

p. 397

Connected aquastats

p. 399

High efficiency decentralised dual flow air fan unit

p. 412

Hydraulic & transfer units

p. 398 & 404

Mixing water tanks for heat pumps

p. 405

Hot water air heater with EC or AC motor

p. 410

Centrifugal air extract unit

p. 415

Thermostatic radiator valves

Control head

Acc. to EN 215 - Built-in sensor with liquid-filled element - Connection M30 x 1,5.

EN215

Thermostatic control head

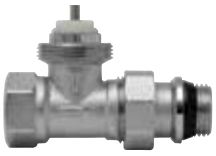
pack	code
1/126	TTH

Female radiator valves

Chrome-plated - With internal o-ring & external gasket.

Angle type

Ø	pack	code
3/8"	15/90	RTH12E
1/2"	6/48	RTH15E



Straight type

Ø	pack	code
3/8"	15/120	RTH12D
1/2"	6/48	RTH15D

Reverse type

Ø	pack	code
3/8"	9/72	RTH12EI
1/2"	9/72	RTH15EI

Female lockshield valves

Chrome-plated - With internal o-ring & external gasket.

Angle type

Ø	pack	code
3/8"	20	CR12CH
1/2"	15	CR15CH

Straight type

Ø	pack	code
3/8"	20	TR12CH
1/2"	15	TR15CH

Manual radiator valves

Mandatory packing 12 pcs

Nickel-plated brass CW617N body - Internal o-ring - Max. temperature: +110°C - Max. pressure: 10 bar.

Female radiator valves

Angle type

Ø	pack	code
1/2"	12/144	RRI15E

Female lockshield valves

Angle type

Ø	pack	code
1/2"	12/156	CRI15

Straight type

Ø	pack	code
1/2"	12/96	RRI15D

Straight type

Ø	pack	code
1/2"	12/156	TRI15

Male radiator valves

Angle type

Ø	pack	code
1/2"	12/96	RRI15EM

Male lockshield valves

Angle type

Ø	pack	code
1/2"	12/156	CRI15M

Straight type

Ø	pack	code
1/2"	12/96	RRI15DM

Straight type

Ø	pack	code
1/2"	12/156	TRI15M

Mandatory packing 12 pcs

Thermostatic radiator valves

Control head

Acc. to EN215 - Built-in sensor with oil-filled element - Adjustable temperature range: +5°C/+28°C - Antifreeze position set: +5°C - Locking temperature setting - Connection M30x1,5 - Class A energy saving.

EN215

Thermostatic control head

pack	code
1/120	TTI

Nickel-plated brass CW617N body - Internal o-ring & external gasket - Max. temperature: +110°C - Max. pressure: 10 bar - Max. glycol: 30%.

Female radiator valves

Angle type

Ø	pack	code
1/2"	4/96	RRTI15E

Straight type

Ø	pack	code
1/2"	4/96	RRTI15D

Female lockshield valves

Angle type

Ø	pack	code
1/2"	12/156	CRTI15

Straight type

Ø	pack	code
1/2"	12/132	TRTI15

Nickel-plated brass CW617N body - Internal o-ring & external gasket - Max. temperature: +110°C - Max. pressure: 10 bar - Max. glycol: 30%.

Male radiator valves

Angle type

Ø	pack	code
1/2"	4/96	RRTI15EM

Straight type

Ø	pack	code
1/2"	4/96	RRTI15DM

Male lockshield valves

Angle type

Ø	pack	code
1/2"	12/192	CRTI15M

Straight type

Ø	pack	code
1/2"	12/156	TRTI15M

Fittings for radiator valve

Fitting 1/2" for multilayer pipes

Ø	pack	code
1/2" - M 16x2,0	10/500	MCI1516X2

Fitting 1/2" for copper pipes

Ø	pack	code
1/2"x15	50/600	CUI1515

Radiator air vents & drain cocks

For carbon steel radiators.

Packaging: blister of 10 pcs or bulk

blister of 10 pcs

bulk

Angle type air vent

5 mm key

Ø	packaging	pack	code
1/2"	blister of 10	50/200	BP15
1/2"	bulk	100/500	BP15V

Plain cap

Ø	packaging	pack	code
1/2"	blister of 10	50/200	BPL15
1/2"	bulk	100/500	BPL15V

Reduction nipple

Ø	packaging	pack	code
1/2" - 3/8"	blister of 10	50/200	R1512
1/2" - 3/8"	bulk	100/500	R1512V
1/2" - 1/8"	blister of 10	50/200	R1505
1/2" - 1/8"	bulk	100/500	R1505V

Mini drain cock with adjustable outlet

5 mm key

Ø	packaging	pack	code
1/2"	blister of 10	50/200	RV15
1/2"	bulk	100/500	RV15V

Mini drain cock with o-ring

Ø	packaging	pack	code
3/8"	blister of 10	50/200	RV12
3/8"	bulk	50	RV12V

Automatic hygroscopic air vent

horizontal mounting

Ø	pack	code
1/8"	25	PD05
1/4"	25	PD08
3/8"	25	PD12
1/2"	25	PD15

Wheel air vent

Ø	packaging	pack	code
1/8"	blister of 10	50/200	PV05C
1/8"	bulk	100	PV05CV

Wheel air vent with adjustable outlet

Ø	packaging	pack	code
1/8"	blister of 10	50/200	PV05B
1/8"	bulk	50	PV05BV
1/4"	blister of 10	50/200	PV08B
1/4"	bulk	50/200	PV08BV

Hostaform wheel air vent

Rubber seat & PTFE ring

Ø	packaging	pack	code
1/8"	bulk	50	PV05L

Square driving air vent

4 mm key

Ø	packaging	pack	code
1/8"	blister of 10	50/200	PC05C
1/8"	bulk	100	PC05CV

Key for square driving air vent

	pack	code
4 mm	10	ZCLE4
5 mm	10	ZCLE5

Drain cock ball valve

Ø	pack	code
1/2"	150	RVC15T

For iron radiators - Includes: 4 threaded caps F1/2", 1 plain cap M1/2", 1 air vent with adjustable outlet M1/2", 1 key for square driving air vent.

Cap & air vent set

Ø	code
1"	KRUR26
1"1/4	KRUR33

Electric sets for towel heater

When the boiler is off, the device offers the requested temperature & dries the towels - Includes: heating cartridge, tee, control panel, o-rings & key.

Digital

Temperature setting: +5 to +30°C - 1 ou 2 h boost mode.

power (W)	white code	grey code
300	KM0300DB	KM0300DG
500	KM0500DB	KM0500DG
750	KM0750DB	KM0750DG
1000	KM1000DB	KM1000DG
1250	KM1250DB	KM1250DG

Analogue

Temperature setting: +7 to +30°C. 2 h boost mode - 6 order pilot wire.

power (W)	code
300	KM0300AB
500	KM0500AB
750	KM0750AB
1000	KM1000AB
1250	KM1250AB

Hydraulic towel heaters

Acc. to EN 442-1 - White RAL 9016 - Support set & drain cock included - Max. temperature: +110°C - ⚠ Do not use any electric resistor with a power (W) higher than the one mentionned in the chart -power Δt = 50°C (W).

straight

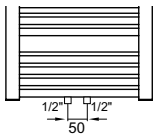
curved

Mahana

Laquered carbon steel 22 mm diameter vertical radiant bodies - 30 x 40 mm horizontal manifolds - Connections 2 x 1/2"F & 1 x 1/2" for drain cock - Max. pressure: 8 bar.

height (mm)	width (mm)	center distance (mm) straight	center distance (mm) curved	weight (kg)	volume (l)	power Δt = 50°C (W)	straight code	curved code
700	500	450	444	4,1	2,9	301	MAH500700D	MAH500700G
1238	500	450	444	7,1	5,0	514	MAH5001238D	MAH5001238G
1238	600	550	546	7,9	5,7	598	MAH6001238D	MAH6001238G
1496	500	450	444	8,5	6,0	631	MAH5001496D	MAH5001496G
1496	600	550	546	9,5	6,8	728	MAH6001496D	MAH6001496G
1775	600	550	546	11,2	8,0	858	MAH6001775D	MAH6001775G
1775	750	700	695	13,9	9,0	1027	MAH7501775D	MAH7501775G

height (mm)	width (mm)	center distance (mm)	weight (kg)	volume (l)	power Δt = 50°C (W)	chromed straight code
700	500	450	4,1	2,9	202	MAH500700DCH
1238	500	450	7,1	6	342	MAH5001238DCH
1238	600	550	7,9	5,7	396	MAH6001238DCH
1496	500	450	8,5	6	418	MAH5001496DCH
1496	600	550	9,5	6,8	483	MAH6001496DCH
1775	500	450	10	7,1	509	MAH5001775DCH
1775	600	550	11,2	8	584	MAH6001775DCH



straight central

height (mm)	width (mm)	center distance (mm)	weight (kg)	volume (l)	power Δt = 50°C (W)	straight central code
700	500	50	4,1	2,9	301	MAH500700DC
1238	500	50	7,1	5	514	MAH5001238DC
1238	600	50	7,9	5,7	598	MAH6001238DC
1496	500	50	8,5	6	631	MAH5001496DC
1496	600	50	9,5	6,8	728	MAH6001496DC
1775	600	50	11,2	8	858	MAH6001775DC
1775	750	50	13,8	9	1027	MAH7501775DC

Black color on request

Hita

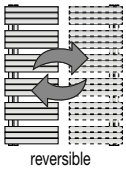
Laquered carbon steel 38 mm diameter vertical radiant bodies - 50 x 10 mm horizontal manifolds - Connections 2 x 1/2"F & 1 x 1/2" for drain cock - Max. pressure: 5 bar.

height (mm)	width (mm)	center distance (mm)	weight (kg)	volume (l)	power Δt = 50°C (W)	code
930	400	370	8,8	3,8	396	HIT400930
930	500	470	10,4	4,35	477	HIT500930
930	600	570	12	4,90	558	HIT600930
1290	400	370	12,3	5	536	HIT4001290
1290	500	470	14,5	5,75	653	HIT5001290
1290	600	570	16,7	6,50	770	HIT6001290
1640	400	370	15	6,40	673	HIT4001640
1640	500	470	17,8	7,35	812	HIT5001640
1640	600	570	20,5	8,30	952	HIT6001640

Wela

Laquered carbon steel 38 mm diameter vertical radiant bodies - 50 x 10 mm horizontal manifolds - Connections 4 x 1/2"F - Max. pressure: 5 bar.

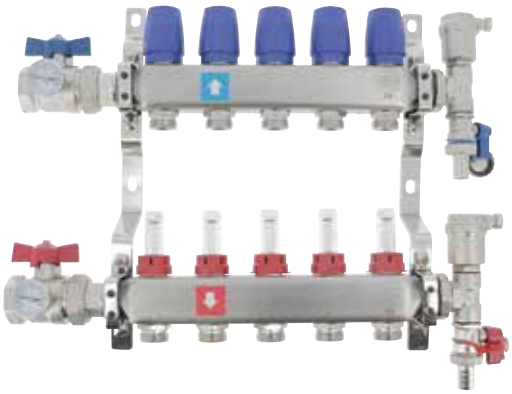
height (mm)	width (mm)	center distance (mm)	weight (kg)	volume (l)	power Δt = 50°C (W)	code
976	550	50	11,5	4,3	461	WEL550976
1421	550	50	16,4	6,2	656	WEL5501424
1869	550	50	21,4	8,1	860	WEL5501869



reversible

Distribution manifolds

For electrothermic heads - Water & glycol: max. 30% glycol - Connection 1" F - Outlets Eurocone 3/4" - Center distance 50 mm -
Supplied with 2 brass ball valves 1" with thermometer & fitting, 2 drain cock ball valves, 2 automatic air vents with check valve, 2 wall supports.



Brass complete set

Max. pressure: 6 bar - TS: +5°C/+65°C.

outlets	dimension (mm)	code
2	270	COLSTC2
3	320	COLSTC3
4	370	COLSTC4
5	420	COLSTC5
6	470	COLSTC6
7	520	COLSTC7
8	570	COLSTC8
9	620	COLSTC9
10	670	COLSTC10

Stainless steel complete set

Max. pressure: 6 bar - TS: +5°C/+80°C.

outlets	dimension (mm)	code
2	256	COLD2
3	306	COLD3
4	356	COLD4
5	406	COLD5
6	456	COLD6
7	506	COLD7
8	556	COLD8
9	606	COLD9
10	656	COLD10
11	706	COLD11
12	756	COLD12

Accessories for distribution manifolds

Flowmeter

code
DEBSTC

Wall support (sold by 2)

code
SUPSTC

Thermometer

code
THESTC

Thermometer

(sold by multiple of 10)

code
THDERH

Air vent

code
PURSTC

Drain cock ball valve

1/2" inlet & 3/4" outlet

	code
Red	ROBSTCR
Blue	ROBSTCB

Electrothermic head

No tension, normally closed - 1 m wire - 230V - 1,2W - Position indicator - M30 x 1,5.

code
TETPB

Housing

Adjustable depth 110 mm to 140 mm.

dimension (mm)	outlets	code
500 x 400	2 to 3	COF3
500 x 600	4 to 6	COF6
500 x 800	7 to 9	COF9
500 x 1000	10 to 12	COF12

Thermostatic shut-off valve

code
ROBTHSTC

Fittings for distribution manifolds

Eurocone connection.

Fitting for multilayer pipes

Ø	pack	code
3/4" - 16x2	20/300	MCEUR341620I
3/4" - 20x2	20/300	MCEUR342020I

Fitting for plastic (PEX) pipes

Ø	pack	code
3/4" - 16x1,5	25/200	PEUR341615I
3/4" - 16x2	20/300	PEUR341620I

Accessories for heating floor slabs

Slab heating cutter

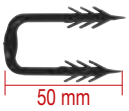
code
THE

Spare blade

code
LAM

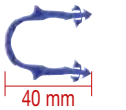
Mechanical staple
For AGR400, AGR500, AG40PLUS & AG55PLUS

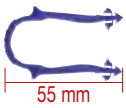
code
AGRAF



Jumpers (sold by box of 500)

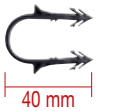
	code
50 mm	CAV





High performance thermic staples
(sold by box of 300)

	pack	code
40 mm	20 boxes	AG40PLUS
55 mm	10 boxes	AG55PLUS



Staples
For 13x16 & 16x20 pipes (sold by box of 300)

	pack	code
40 mm	20 boxes	AGR400
55 mm	10 boxes	AGR550

Peripheral insulations

Standard (sold by roll)

	pack	code
50 m x 120 mm - 8 mm thick	10 rolls	ISOST
50 m x 180 mm - 8 mm thick	6 rolls	ISOST2
50 m x 150 mm - 5 mm thick	8 rolls	ISOSTM

With wiper (sold by roll)

	pack	code
50 m x 120 mm - 8 mm thick	8 rolls	ISOFB
25 m x 180 mm - 8 mm thick	4 rolls	ISOFB2

Self-adhesive with wiper (sold by roll)

	pack	code
50 m x 150 mm - 8 mm thick	4 rolls	ISOFA

With adhesive wiper for sleek tile (sold by roll)

	pack	code
50 m x 150 mm - 8 mm thick	8 rolls	ISOFBA

Cutting pliers (for pipes up to Ø 32)

	code
Blister	PINCOU

	code
Blister	PINCT
Box of 10	PINCT10

Test pump (max. pressure: 50 bar)

code
POMEPR

Bending springs (for plastic pipes)

	code
10 x 12 mm	RES12
13 x 16 mm	RES16
16 x 20 mm	RES20
20 x 25 mm	RES25

Para-heating protection fluid (1 l)

code
PAR1

Filling pump (for Para-heating 1 l)

code
POM1

Circulators for heating

Guarantee 5 Years

Low consumption electronic circulator - Max. pressure: 10 bar - Temperature range: -10°C/+110°C - IPX5 - Insulation class: F - 230V~50/60Hz - Max. glycol: 30% - Mode button with LED indicator - Anti-calcareous protection.

DAB WATER•TECHNOLOGY

Domestic use

EVOSTA 2

0,4 to 3,6 m³/h up to 6,9 m - EEI ≤ 0,18.

	length (mm)	Ø	code
EVOSTA 2 40	180	1"1/2	EVA24070180
	130	1"1/2	EVA24070130
	130	1"	EVA2407013026
	180	2"	EVA24070180X

EVOSTA 3

0,4 to 4,2 m³/h up to 8 m - EEI ≤ 0,19.

	length (mm)	Ø	code
EVOSTA 3 40	180	1"1/2	EVA340180
	130	1"1/2	EVA340130
	180	2"	EVA340180X
	130	1"	EVA34013026
EVOSTA 3 60	180	1"1/2	EVA360180
	130	1"1/2	EVA360130
	180	2"	EVA360180X
	130	1"	EVA36013026
EVOSTA 3 80	180	1"1/2	EVA380180
	130	1"1/2	EVA380130
	180	2"	EVA380180X
	130	1"	EVA38013026

Collective use

	length (mm)	Ø	flanged	code
EVOPLUS 40	180	1"1/2		EVO40180M
EVOPLUS 40	180	2"		EVO40180XM
EVOPLUS 60	180	1"1/2		EVO60180M
EVOPLUS 60	180	2"		EVO60180XM
EVOPLUS 80	180	1"1/2		EVO80180M
EVOPLUS 80	180	2"		EVO80180XM
EVOPLUS 110	180	1"1/2		EVO110180M
EVOPLUS 110	180	2"		EVO110180XM
EVOPLUS B40	220		DN32	EVOB40220
EVOPLUS B40	250		DN40	EVOB40250
EVOPLUS D40 - Double	220		DN32	EVOD40220
EVOPLUS D40 - Double	250		DN40	EVOD40250
EVOPLUS B60	220		DN32	EVOB60220
EVOPLUS B60	250		DN40	EVOB60250
EVOPLUS D60 - Double	220		DN32	EVOD60220
EVOPLUS D60 - Double	250		DN40	EVOD60250
EVOPLUS B80	220		DN32	EVOB80220
EVOPLUS B80	250		DN40	EVOB80250
EVOPLUS D80 - Double	220		DN32	EVOD80220
EVOPLUS D80 - Double	250		DN40	EVOD80250
EVOPLUS B110	220		DN32	EVOB110220
EVOPLUS B110	250		DN40	EVOB110250
EVOPLUS D110 - Double	220		DN32	EVOD110220
EVOPLUS D110 - Double	250		DN40	EVOD110250
EVOPLUS B120	220		DN32	EVOB12032
EVOPLUS D120 - Double	220		DN32	EVOD12032
EVOPLUS B40	220		DN40	EVOB4040
EVOPLUS B60	220		DN40	EVOB6040
EVOPLUS B80	220		DN40	EVOB8040
EVOPLUS B100	220		DN40	EVOB10040
EVOPLUS B120	250		DN40	EVOB12040
EVOPLUS B150	250		DN40	EVOB15040
EVOPLUS B180	250		DN40	EVOB18040
EVOPLUS D40 - Double	220		DN40	EVOD4040
EVOPLUS D60 - Double	220		DN40	EVOD6040
EVOPLUS D80 - Double	220		DN40	EVOD8040
EVOPLUS D100 - Double	220		DN40	EVOD10040
EVOPLUS D120 - Double	250		DN40	EVOD12040
EVOPLUS D150 - Double	250		DN40	EVOD15040
EVOPLUS D180 - Double	250		DN40	EVOD18040

	length (mm)	Ø	flanged	code
EVOPLUS B40	240		DN50	EVOB4050
EVOPLUS B60	240		DN50	EVOB6050
EVOPLUS B80	240		DN50	EVOB8050
EVOPLUS B100	280		DN50	EVOB10050
EVOPLUS B120	280		DN50	EVOB12050
EVOPLUS B150	280		DN50	EVOB15050
EVOPLUS B180	280		DN50	EVOB18050
EVOPLUS D40 - Double	240		DN50	EVOD4050
EVOPLUS D60 - Double	240		DN50	EVOD6050
EVOPLUS D80 - Double	240		DN50	EVOD8050
EVOPLUS D100 - Double	280		DN50	EVOD10050
EVOPLUS D120 - Double	280		DN50	EVOD12050
EVOPLUS D150 - Double	280		DN50	EVOD15050
EVOPLUS D180 - Double	280		DN50	EVOD18050
EVOPLUS B40	340		DN65	EVOB4065
EVOPLUS B60	340		DN65	EVOB6065
EVOPLUS B80	340		DN65	EVOB8065
EVOPLUS B100	340		DN65	EVOB10065
EVOPLUS B120	340		DN65	EVOB12065
EVOPLUS B150	340		DN65	EVOB15065
EVOPLUS D40 - Double	340		DN65	EVOD4065
EVOPLUS D60 - Double	340		DN65	EVOD6065
EVOPLUS D80 - Double	340		DN65	EVOD8065
EVOPLUS D100 - Double	340		DN65	EVOD10065
EVOPLUS D120 - Double	340		DN65	EVOD12065
EVOPLUS D150 - Double	340		DN65	EVOD15065
EVOPLUS B40	340		DN80	EVOB4080
EVOPLUS B60	340		DN80	EVOB6080
EVOPLUS B80	340		DN80	EVOB8080
EVOPLUS B100	340		DN80	EVOB10080
EVOPLUS B120	340		DN80	EVOB12080
EVOPLUS D40 - Double	340		DN80	EVOD4080
EVOPLUS D60 - Double	340		DN80	EVOD6080
EVOPLUS D80 - Double	340		DN80	EVOD8080
EVOPLUS D100 - Double	340		DN80	EVOD10080
EVOPLUS D120 - Double	340		DN80	EVOD12080
EVOPLUS B40	450		DN100	EVOB40100
EVOPLUS B60	450		DN100	EVOB60100
EVOPLUS B80	450		DN100	EVOB80100
EVOPLUS B100	450		DN100	EVOB100100
EVOPLUS B120	450		DN100	EVOB120100
EVOPLUS D40 - Double	450		DN100	EVOD40100
EVOPLUS D60 - Double	450		DN100	EVOD60100
EVOPLUS D80 - Double	450		DN100	EVOD80100
EVOPLUS D100 - Double	450		DN100	EVOD100100
EVOPLUS D120 - Double	450		DN100	EVOD120100

Low consumption electronic circulator - Max. pressure: 10 bar - Temperature range: -2°C/+95°C - IP42 - Insulation class: H - 230V~50/60Hz - Max. glycol: 30% - 6 position control command & night mode - Union fitting Ø 1"& 230V cable included.

Domestic use

0,4 to 3,3 m³/h - EEI ≤ 0,23.

	length (mm)	Ø	code
Manual control panel	180	1"1/2	008520
Digital control panel	180	1"1/2	008521

Sanitary hot water circulators - Domestic use

Brass body - Ball turbine rotor motor - Includes valve, check valve & 1/2" M union fittings, except V155R - IP44 - 1~115-230V-50/60Hz - 2,5 to 9 W - Max. pressure: 10 bar - Max. temperature: +95°C.

Very low consumption

	code
Self-regulating	V155SL
With digital clock	V155VZ
Without clock	V155TR
Without clock & thermostat	V155M
Without clock, thermostat & fitting	V155R

Standard

	code
With clock & thermostat	V155HT
With clock, without thermostat	V155H

Bronze body.

	length (mm)	Ø	code
EVOSTA 2 SAN 40	150	1"1/2	EVA24070150SAN
EVOSTA 2 SAN 60	150	1"1/2	EVA280150SAN

Accessories for circulators

Thermostop check valves

Direct mounting on union connected circulator - Declutchable for drainage - Max. temperature: +130°C - Max. pressure: 10 bar - Opening pressure: 0,02 bar.

Ø	code
1"1/2	CT26
2"	CT33
25	CTB026
32	CTB033
40	CTB040
50	CTB050
65	CTB065
80	CTB080
100	CTB100

Ball valve free nut

Ø	code
1"1/2 - 1"F	ZVSC4026

Pressure set

Includes: manometer, shut-off valve with drainage, extension, copper connection pipe 4/6, brass fittings 1/4" & 1/8".

code
KPC

Free nut check valve

Direct mounting on union connected circulator - Declutchable for drainage.

Ø	code
1"1/2 - 1"M	CATET

Adaptors with gaskets

(sold by set of 2)

Ø	code
1"1/2 - 2"	ZF4050

Union fittings

For threaded circulators Ø 1"1/2

Threaded (sold by 2)

	Ø	pack	code
Cast iron	3/4" F	24	ZRU20
Cast iron	1" F	24	ZRU26
Carbon steel	1"1/4 M	24	ZRU33M
Brass	1/2" F	50	ZRUL15
Brass	3/4" F	50	ZRUL20
Brass	1" F	50	ZRUL26

For threaded circulators Ø 1"1/2

Welding (sold by 2)

	Ø	pack	code
Brass	22	50	ZRCU22
Brass	28	50	ZRCU28

For threaded circulators Ø 2"

Threaded (sold by 2)

	Ø	pack	code
Cast iron	1"1/4 F	24	ZRU33F

Closed tanks - SBR membrane

Guarantee 5 Years

Carbon steel body - SBR membrane according to DIN 4807 - Test pressure: 6 bar - Working pressure: 4 bar, except 6 bar for 80 l - Working temperature: -10°C/+99°C - Max. temperature: +110°C - Max. glycol: 30%.

Standard

volume (l)	set pressure (bar)	connection	Ø (mm)	height (mm)	code
4	0,5	3/4" M	225	195	V004
8	0,5	3/4" M	220	295	V008
12	1	3/4" M	294	281	V012
18	1	3/4" M	290	400	V018
25	1	3/4" M	324	415	V025

Standard

volume (l)	set pressure (bar)	connection	Ø (mm)	height (mm)	code
35	1,5	3/4" M	404	387	V035
50	1,5	3/4" M	404	507	V050

Standard

volume (l)	set pressure (bar)	connection	Ø (mm)	height (mm)	code
80	2	3/4" M	450	608	V080
105	2	3/4" M	500	665	V105
150	2	3/4" M	500	897	V150
200	2,5	3/4" M	600	812	V200
250	2,5	3/4" M	630	957	V250
300	2,5	3/4" M	630	1105	V300
400	2,5	3/4" M	630	1450	V400
500	2,5	1" M	750	1340	V500
600	2,5	1" M	750	1555	V600
700	2,5	1" M	750	1755	V700
800*	2,5	1" M	750	1855	V800
1000*	1,5	1"1/2 M	850	2100	VMIL

* please consult for specific freight charges

Flat*

volume (l)	set pressure (bar)	connection	Ø (mm)	height (mm)	code
8	1	3/8" M	387	100	VC53108
10	1	3/4" M	387	110	VC53110
12	1	3/8" M	387	140	VC53112
18	1	3/4" M	387	200	VC53118
6	1	3/4" M	324	100	VC54106
8	1	3/8" M	324	129	VC54108
10	1	3/4" M	324	139	VC54110
12	1	3/4" M	324	170	VC54112

* working pressure: 3 bar

Closed tanks - NBR membrane - 10 bar

Carbon steel body - NBR membrane - Working pressure: 10 bar - Max. temperature: +90°C - Max. glycol: 30%.

volume (l)	set pressure (bar)	connection	Ø (mm)	height (mm)	code
80	2	1" M	450	830	VCE080
100	2	1" M	450	910	VCE100
200	2	1" 1/2 M	550	1235	VCE200
300	2	1" 1/2 M	630	1365	VCE300
500	2	1" 1/2 M	750	1560	VCE500

Open tanks

Use: for solid fuel (coal, biomass, ...) boilers.

Stainless steel

volume (l)	connection	length (mm)	width (mm)	height (mm)	code
22	1/2" F	500	290	155	VI22
30	1/2" F	500	290	215	VI30
50	1/2" F	500	350	300	VI50

Galvanised steel

volume (l)	connection	length (mm)	width (mm)	height (mm)	code
20	1" F	500	260	160	VGR020
30	1" F	500	380	150	VGR030
50	1" F	500	380	255	VGR050

Polypropylene

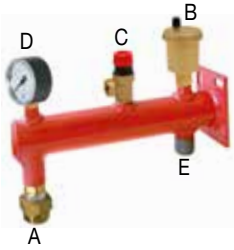
Standard (3 inserts)

volume (l)	connection	length (mm)	width (mm)	height (mm)	code
22	3/4" F	540	290	200	VP22
33	3/4" F	540	290	300	VP33
45	3/4" F	540	290	395	VP45

Universal (4 inserts)

volume (l)	connection	length (mm)	width (mm)	height (mm)	code
22	3/4"	540	290	225	VP22U

Tank accessories

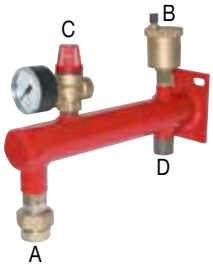


Equipped wall brackets

(for tanks up to 25 l)

Includes:
A. tank union fitting
B. air vent 3/8" F
C. safety valve 1/2"
D. manometer
E. heating circuit outlet 3/4" M

code
ZSMCI



Includes:
A. tank union fitting
B. air vent 3/8" F
C. safety valve 1/2"
with manometer
D. heating circuit outlet 3/4" M

code
ZSMC

Quick union fitting

(with built-in check valve)

code
RDV20MF

Pressure controller

(0 to 4 bar)

code
ZCP

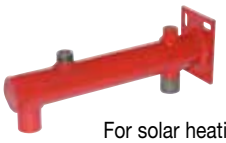
Wall brackets

(for tanks up to 25 l)

With manometer outlet

code
ZSMI

Without manometer outlet



code
ZSM

For solar heating

code
ZSMSO

Wall support

(for tanks up to 25 l)

code
SUPVAS

Square for tank

(for tanks up to 25 l)

code
ZSEQ

Automatic air vents

Compact

Brass - Check valve not included.

Ø	pack	code
3/8" M	10	41013V
1/2" M	10	41014V

Check valve for air vents

Ø	pack	code
3/8"	10	39903V
1/2"	10	39904V

Standard

Brass - Check valve not included.

Ø	pack	code
3/8" M	10	42003V
1/2" M	10	42004V

Check valve for air vents

Ø	pack	code
3/8"	10	39903V
1/2"	10	39904V

Solar

Brass - Max. temperature: +180°C -
Shut-off valve not included.

Ø	pack	code
3/8" M	10	PRHT12V
1/2" M	10	PRHT15V

Shut-off valve
Brass - Max. temperature: +180°C.

Ø	code
3/8"	ZVS12HTV
1/2"	ZVS15HTV

Heavy duty

Cast iron - Max. pressure: 10 bar -
Max. temperature: +120°C - Max. glycol: 50%.

Ø	code
3/4"	PF20

Dirt separators

For domestic use
Carbon steel

volume (l)	Ø	code
4	1"	PID05
10	1"1/4	PID07

For collective use
Carbon steel - Threaded male connections for 2", flanged PN16 above.

volume (l)	DN	code
80	2"	PD050
100	65	PD065
130	80	PD080
200	100	PD100
300	125	PD125

Flexible & extensible hoses - Boilerflex, see page 381

Safety valves

Brass

pre-set (bar)	Ø	pack	code
1,5	1/2" FF	10	23100V
2	1/2" FF	10	23121V
2,5	1/2" FF	10	23120V
3	1/2" FF	10	23130V
4	1/2" FF	10	23140V
2,5	3/4" FF	10	23220V
3	3/4" FF	10	23230V
4	3/4" FF	10	23240V

pre-set (bar)	Ø	pack	code
3	1/2" MF	10	23030V

With manometer (mandatory packing: 10 pcs)

pre-set (bar)	Ø	pack	code
3	1/2" FF	10	23132V

Sanitary

pre-set (bar)	Ø	pack	code
6	1/2" FF	10	23160V
7	1/2" FF	10	23170V
8	1/2" FF	10	23180V
10	1/2" FF	10	23110V
6	3/4" FF	10	23260V
7	3/4" FF	10	23270V
8	3/4" FF	10	23280V
10	3/4" FF	10	23210V

Bronze

Max. temperature: +120°C.

pre-set (bar)	discharge capacity kW	kcal/h	Ø	code
3	169	146 000	1/2" FF	S15G
3	269	232 000	3/4" FF	S20G3
4	337	290 000	3/4" FF	S20G4
5	400	344 000	3/4" FF	S20G5
3	503	433 000	1" FF	S26G3
4	627	540 000	1" FF	S26G4
5	748	643 000	1" FF	S26G5
3	656	565 000	1"1/4 FF	S33G3
4	822	707 000	1"1/4 FF	S33G4
3	813	700 000	1"1/2 FF	S40G3
4	1017	875 000	1"1/2 FF	S40G4
3	998	858 000	2" F - 2"1/2 F	S50G3
4	1227	1 056 000	2" F - 2"1/2 F	S50G4

Sanitary

pre-set (bar)	Ø	code
7	1/2" FF	S15GS07
10	1/2" FF	S15GS10
7	3/4" FF	S20GS07
10	3/4" FF	S20GS10
7	1" FF	S26GS07
10	1" FF	S26GS10
7	1"1/4 FF	S33GS07
7	1"1/2 FF	S40GS07
7	2" FF	S50GS07

High temperature - Solar heating

Brass body - Max. temperature: +110°C.

pre-set (bar)	Ø	code
3	1/2"F-3/4"F	27030V
6	1/2"F-3/4"F	27060V

Bronze body - Max. temperature: +160°C - Max. power: 100 kW.

pre-set (bar)	Ø	code
6	3/4" FF	SHT20G6
10	3/4" FF	SHT20G10

Funnel

Carbon steel	Ø	code
250 x 100 mm	2"	ZE50
400 x 100 mm	2"1/2	ZE65

Differential valve

Brass body - With free nuts - Max. temperature: +110°C - Max. pressure: 10 bar - Max. glycol: 30% - Adjustable 0,1 to 0,6 bar differential.

Ø	code
3/4"	SDD

Mixing valves

Max. temperature: +110°C - Max. pressure: 10 bar - Rotation 90° - Brass stem - Tightness with 2 EPDM o-rings - Can be equipped with any electric actuator - Brass: recommended for heating floor & installations with plastic & multilayer pipes - Excluded from 2014/68/EU Directive (art. 4, §3).

Threaded

Cast iron

	3-way				
Ø	3/4"	1"	1"1/4	1"1/2	2"
kvs	13	17	24	31	41
code	V3V20	V3V26	V3V33	V3V40	V3V50

4-way				
3/4"	1"	1"1/4	1"1/2	2"
13	17	24	31	41
V4V20	V4V26	V4V33	V4V40	V4V50

Brass female

	3-way					
Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
kvs	2,5	6,3	8	15	24	40
code	VC3V15	VC3V20	VC3V26	VC3V33	VC3V40	VC3V50

4-way					
1/2"	3/4"	1"	1"1/4	1"1/2	2"
2,5	6,3	8	15	24	40
VC4V15	VC4V20	VC4V26	VC4V33	VC4V40	VC4V50

Brass male

	3-way		
Ø	3/4"	1"	1"1/4
kvs	2,5	6,3	8
code	VC3V20M	VC3V26M	VC3V33M

4-way		
3/4"	1"	1"1/4
2,5	6,3	8
VC4V20M	VC4V26M	VC4V33M

Insulation for threaded mixing valves

	code
For F1/2", F3/4", M3/4" & M1"	CIS187107
For F1", F1"1/4 & M1"	CIS187108

Electric actuators for threaded mixing valves

Guarantee 5 Years

3 positions - Direct mounting on Thermador mixing valves - IP40.

230V / 50 Hz

SME 130
5 Nm - Complete opening: 140 s - 1,5 m wire.

SME 20S with auxiliary contact
10 Nm - Complete opening: 140 s - 1,5 m wire.

SME 23 for thermostat regulation
10 Nm - Complete opening: 670 s - 1,5 m wire.

SME 96L
15 Nm - Complete opening: 280 s.

code
SME130
SME20S
SME23
SME96L

SM 230S
5 Nm - Complete opening: 120 s - 2 m wire.

code
SM230S

24V

SME 24

SME 212 with connection for Automix 30 regulator (to be used with Automix 30 only) - 5 Nm - Complete opening: 140 s - 1,5 m wire.

SME 140 signal 0-10V

code
SME24
SME212
SME140V

Mounting set

For:

Esbe/Danfoss
Centra (DR & ZR)
Oventrop/Meibes/Wita
VCI/VBG31/VBF21

code
MSNRE6
MSNRC
MSNRO
MSNRL

Flanged PN6

Cast iron

	3-way						4-way					
Ø	50	65	80	100	125	150	50	65	80	100	125	150
kvs	65	100	185	310	510	820	65	100	185	310	510	820
code	VB3V050	VB3V065	VB3V080	VB3V100	VB3V125	VB3V150	VB4V050	VB4V065	VB4V080	VB4V100	VB4V125	VB4V150

Set of flanges PN6 with gaskets and bolts

Ø	50	65	80	100	125	150
code	ZCBP050	ZCBP065	ZCBP080	ZCBP100	ZCBP125	ZCBP150

Electric actuator for flanged mixing valves

Opening/closing: 120s - 230V~50Hz -
Max. torque: 18Nm - IP65.

code
SMEB

Regulation devices

Based on outdoor temperature - Includes: regulator, mounting accessories, power adaptor, room probe with radio receiver, external probe (15m wire), starting probe & antenna.

RA130

code
RA130

Option

Circulator starter set	code
	ZKCRA130

NEW

Based on outdoor temperature - Built-in regulating fonctions - Includes: regulator, water probe, external probe (20 m), power supply, actuator, connectors & mounting pad.

RA110

code
RA110

Options

	code
Room thermostat	ZTA110F
Remote control thermostat	ZTA110R

Based on indoor temperature - Radio transmission between transmitter & actuated mixing valve - Night & vacation energy saving - Includes: regulator, radio receiver, power supply, actuator & water probe.

Automix 20

code
RA20

Based on outdoor temperature - 2 circuits - Digital programer -
Includes: regulator, water probe, external probe (20m), power supply, actuator, connectors & antenna.

Automix 40

code
RA40

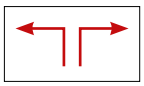
Options

	code
Room probe - 1st circuit	ZSARA40
Actuator & starting probe - 2nd circuit	ZK2CRA40
Room probe - 2nd circuit	ZSA2RA40

Diverting valves

3-way valve - 3-thread 230V actuator, with 60° rotating cycles - Position indicator on the actuator - Operating time: 8 s. - Temperature: 0°C/+90°C - Max. pressure: 10 bar - IP40 - Max. glycol: 50% - Supplied with quick connector & 1 m wire.

Ø	Kv	Δps (bar)	code
1"M	7,5	1	VDB3V26M



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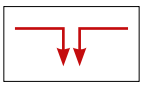
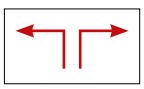


3-way valve, normally closed, spring return - 2-thread 230V actuator - Opening time: 18 s - Closing time: 5 s. - Temperature: +2°C/+93°C - Max. pressure: 21 bar - IP20 - Max. glycol: 50%.

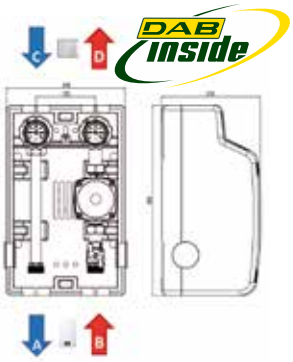
Ø	Kv	Δps (bar)	code
1"F	6,9	1,3	VDL3V26



Hydraulic units

Units

Supplied with insulation - Optimised hydraulic connections - 3-way mixing valves (potentially actuated with SME actuator, Automix regulation) - Ball valves with built-in thermometers & antithermo-siphon check valve - Built-in wall support - Connection to the installation: 1"F for DN20 & 25, 1"1/4F for DN32 - Connection to the collector: 1"M for DN20 & 25, 1"1/4M for DN32 - Supplied with adapters - Highly energy-efficient circulator.



Direct unit

For 130 mm center distance circulator.

DN	code
20	GHD20
25	GHD25
32	GHD32

Direct unit with pump

Includes EVA265130GH circulator.

DN	code
20	GHD20C
25	GHD25C
32	GHD32C

Mixing unit

Includes mixing valve (SME130 as an option) - For 130 mm center distance circulator.

DN	code
20	GHM20
25	GHM25
32	GHM32

Mixing unit with pump

Includes mixing valve (SME130 as an option) & EVA265130GH circulator.

DN	code
20	GHM20C
25	GHM25C
32	GHM32C

Actuated mixing unit with pump

Includes mixing valve with SME130 actuator & EVA265130GH circulator.

DN	code
20	GHM20CM
25	GHM25CM
32	GHM32CM

Mixing unit with pump & RA130 regulation device

Includes mixing valve, EVA265130GH circulator & RA130 regulation device.

DN	code
20	GHM20CRA130
25	GHM25CRA130
32	GHM32CRA130

NEW

Mixing unit with pump & RA110 regulation device

Includes mixing valve, EVA265130GH circulator & RA110 regulation device.

DN	code
20	GHM20CR
25	GHM25CR
32	GHM32CR

NEW

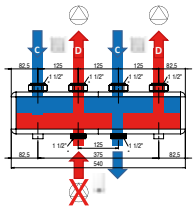
Mixing unit with pump & Automix 20 regulation device

Includes mixing valve, EVA265130GH circulator & Automix 20 regulation device.

DN	code
20	GHM20CRA20
25	GHM25CRA20
32	GHM32CRA20

Manifolds

For installations without energy source circulator - Flow: 3m³/h - Center distance: 125 mm - MF 1"1/2 connection - Supplied with 2 mounting brackets.



Manifold for DN20 & DN25

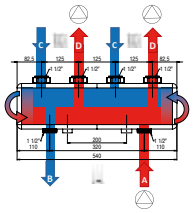
	code
2 outlets	COL2GH
3 outlets	COL3GH
4 outlets	COL4GH
NEW 5 outlets	COL5GH

Manifold for DN32

	code
2 outlets	COL2GH32
3 outlets	COL3GH32
4 outlets	COL4GH32
NEW 5 outlets	COL5GH32

Separators

Hydraulic insulation between primary & secondary circuit - For installations with energy source circulator - Flow: 3m³/h - Center distance: 125 mm - MF 1"1/2 connection - Supplied with 2 mounting brackets.



Separator for DN20 & DN25

	code
2 outlets	SEP2GH
3 outlets	SEP3GH

Separator for DN32

	code
2 outlets	SEP2GH32
3 outlets	SEP3GH32

Fitting for manifold & separator

Ø	code
1" x 1"1/2	RC4025GH
1"1/4 x 1"1/2	RC4032GH

See:
- SME 130 page 396
- RA110 page 397
- RA130 page 397
- Automix 20 page 398

Thermostats

Standard mechanical

Shut-off 16 (2,5) A 250V - IP20.

	code
Basic	TA2
With season change switch	TA2EH

Programmable

Heating & cooling - 1/2 hour period setting - Shut-off 5A (1A) - IP20.

		code
Wire	battery	TAFB
	mains	TAFS

Standard digital

Temperature setting: -5°C/+30°C - ON/OFF regulation - Shut-off 5 (2) A - IP30.

		code
Wire	battery	TASF
Radio transmission	battery	TASOR

Programmable +

Temperature setting: -5°C/+30°C - 3 modifiable comfort ranges / day, weekly programming - Boost mode for comfort setting during 1 h - Shut-off 5 (2) A - IP30.

		code
Wire	battery	TAPF
Radio transmission	battery	TAPOR

In tight container

Changeover contact 16 (2,5) A 250V - IP54.

	code
Temperature setting: -5°C/+35°C	TAE2

Changeover contact 16 (2,5) A 250V - IP54.

	code
Temperature setting: 0°C/+60°C - Probe Ø 6 x 119 mm - Capillary 0,9 m.	TAC32
Temperature setting: -35°C/+35°C - Probe Ø 6 x 140 mm - Capillary 1 m.	TAC33

NEW Connected

Compatible with most electric or hydraulic heating systems - Directly connectable to the Internet through the Internet service provider's box Internet, without any other accessory - Remotely controlled from a smartphone, tablet or a computer thanks to a mobile application - Self-programmable - Amazon Alexa and Google Home compatible - Management of several radio bases.

		code
Wire	white	THOM
	black	THOMN

		code
Radio transmission	black	THOMRN

Aquastats

With spring

Manual reset - Pre-set +60°C - Temperature setting: -40°C/+70°C - Changeover contact 10 (2,5) A 250V - IP40.

Aquanorm

code
AARM

With plunger

Temperature setting: 0/+90°C - Δt 6° ± 2°K - 1/2" fitting - Changeover contact 10 (2,5) A 250V - IP40.

	code
Sensor 100 mm	ATC2
Sensor 200 mm	ATC21

Temperature setting: -20°C/+90°C - Δt 8° ± 2°K - IP20.

Standard external setting
Changeover contact 16 (2,5) A 250V.

code
AAR

Setting under protection housing
Dry contact 16 (2,5) A 250V.

code
AARC

Aquastat & safety limiter
1/2" fitting - Sensor 100 mm - IP40.
Aquastat: temperature setting 0/+90°C - Δt 4° ± 1°K - Changeover contact 10 (2,5) A 250V -
Safety limiter: temperature setting +90°C/+110°C - Pre-set +110°C - Contact 10 (2,5) A 250V.

code
ATLSC

Remote sensors

Control

temperature setting	capillary length (mm)	sensor	code
0°C/+90°C	1500	Ø 6,5 - L95	TH549074
+30°C/+90°C	1500	Ø 6,5 - L95	TH549170

With adjustment stop

temperature setting	capillary length (mm)	sensor	code
0°C/+90°C	1500	Ø 6,5 - L95	TH540359

Safety

Manual resetting - Pre-set 110°.

temperature setting	capillary length (mm)	sensor	code
+90°C/+110°C	1500	Ø 6,5 - L95	TH542286

Flow switch

Flow detection - For pipes 1" to 8" - 230V - 15 (5) A - IP54 - Connection M1" - Max. pressure: 10 bar - Temperature range: -25°C/+120°C - Max. glycol: 50% - Max. room temperature: +55°C - 4 blade sets.

code
FLUSD

Pressure switch

Control, surveillance & alarm - For oil & water - Temperature range: -20°C/+70°C - IP33 - 230V AC: 10A - Adjustable hysteresis - Connection M1/4" - SPDT changeover contact.

setting range (bar)	code
-0,4 - 7	PRES07B
6 - 15	PRES615B
6 - 30	PRES630B

Thermometers

Infrared

Laser sighting industrial thermometer - LCD - °C or °F display - 500 ms response time - Temperature range: -50°C/+550°C - 2% accuracy - Tension 1 9V 6LR61 battery.

code
TIRVL

Temperature probe

Class A acc. to IEC 60751 - Ø 8 mm stainless steel 316 sheath - Wire inlet M 20 x 15 - Temperature range: -50°C/+250°C (temperature range to be set on 2-thread type) - Sleak plunger - IP65 - 2-thread 4-20mA outlet with head analogue/ digital converter or 3-thread outlet.

2-thread 4-20mA outlet

length (mm)	code
50	SPT100L50
63	SPT100L63
100	SPT100L100

3-thread 4-20mA outlet

length (mm)	code
50	SPT100MAL50
63	SPT100MAL63
100	SPT100MAL100

Bi-metal

With spring tie
For pipe up to 1".

Ø dial	temperature	pack	code
63	0°C/+120°C	50	TR

With copper tie
For pipe up to 1"1/2.

Ø dial	temperature	pack	code
63	0°C/+120°C	50	TB

With plunger

Ø dial	temperature	Ø connection	plunger length (mm)	pack	code
63	0°C/+120°C	1/2"	45	50	T063A
80	0°C/+120°C	1/2"	45	50	T080A
100	0°C/+120°C	1/2"	45	50	T100A

Ø dial	temperature	Ø connection	plunger length (mm)	pack	code
63	0°C/+120°C	1/2"	100	50	T063AL100
100	0°C/+120°C	1/2"	100	50	T100AL100
100	0°C/+120°C	1/2"	200	50	T100AL200
80	-30°C/+50°C	1/2"	100	50	T3050

Ø dial	temperature	Ø connection	plunger length (mm)	pack	code
80	0°C/+120°C	1/2"	45	50	T080R

Quick reactivity

Ø dial	temperature	Ø connection	plunger length (mm)	code
60	0°C/+100°C	3/8"	45	TRI

Gas & smoke

Ø dial	temperature	plunger length (mm)	code
80	0°C/+500°C	150	TGAZ

Boilers

Temperature range: 0°C/+130°C - Brass case - Ø 1/2".

Straight

height (mm)	Ø	plunger length (mm)	code
160	20	45	TV160D
260	25	60	TV260D

NEW

Angle

NEW

height (mm)	Ø	plunger length (mm)	code
160	20	45	TV160E
260	25	60	TV260E

Industry

Easy reading - Glass pipe filled with alcohol - Ø 1/2".

Plastic - Straight

Temperature range: 0°C/+120°C.

height (mm)	plunger length (mm)	code
150	63	TI150DP
200	63	TI200DP
200	100	TI200DL100P

Temperature range: -30°C/+50°C.

height (mm)	plunger length (mm)	code
150	63	TI150D3050P
200	63	TI200D3050P
200	100	TI200DL1003050P

Plastic - Angle

Temperature range: 0°C/+120°C.

height (mm)	plunger length (mm)	code
150	63	TI150EP
200	63	TI200EP
200	100	TI200EL100P

Temperature range: -30°C/+50°C.

height (mm)	plunger length (mm)	code
150	63	TI150E3050P
200	63	TI200E3050P
200	100	TI200EL1003050P

Brass - Straight

Temperature range: 0°C/+120°C.

height (mm)	plunger length (mm)	code
150	63	TI150D
200	63	TI200D
200	100	TI200DL100

Temperature range: -30°C/+50°C.

height (mm)	plunger length (mm)	code
150	63	TI150D3050
200	63	TI200D3050
200	100	TI200DL1003050

Brass - Angle

Temperature range: 0°C/+120°C.

height (mm)	plunger length (mm)	code
150	63	TI150E
200	63	TI200E
200	100	TI200EL100

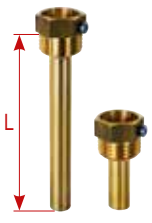
Temperature range: -30°C/+50°C.

height (mm)	plunger length (mm)	code
150	63	TI150E3050
200	63	TI200E3050
200	100	TI200EL1003050

Thermowells

Copper tube with M 1/2" NPT brass fitting

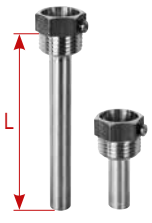
length (mm)	Ø int./Ø ext.	code
47	7 x 8	ZDG555001
47	10 x 11	ZDG555006
97	7 x 8	ZDG555002
97	10 x 11	ZDG555007
97	14,7 x 16	ZDG555034
117	10 x 11	ZDG555008
117	14,7 x 16	ZDG555035
147	10 x 11	ZDG555009
187	10 x 11	ZDG555010
197	7 x 8	ZDG555027
277	10 x 11	ZDG555011



Brass

M 1/2" connection with blocking screw - 9 mm Ø int., 11 Ø ext.

length (mm)	code
45	ZDG15045
60	ZDG15060
100	ZDG15100
160	ZDG15160



Stainless steel

M 1/2" connection with blocking screw - 8 mm Ø int., 10 Ø ext.

length (mm)	code
45	ZDG15045I
63	ZDG15063I
100	ZDG15100I

Manometers

Dry - ABS plastic box

Acc. to EN837-1 - Temperature range: -20°C/+60°C - Brass connection - Acrylic glass - IP43 - Class 2,5 for Ø 50 & 63, class 1,6 for Ø 80 & 100.

Ø 50 - Axial

pressure (bar)	Ø connection	code
0 - 4	1/4"	MA04
0 - 6	1/4"	MA06
0 - 10	1/4"	MA10

Ø 63 - Axial

pressure (bar)	Ø connection	code
0 - 6	1/4"	M63A06
0 - 10	1/4"	M63A10

Ø 50 - Radial

pressure (bar)	Ø connection	code
0 - 4	1/4"	MR04
0 - 6	1/4"	MR06
0 - 10	1/4"	MR10

Ø 63 - Radial

pressure (bar)	Ø connection	code
0 - 6	1/4"	M63R06
0 - 10	1/4"	M63R10

Ø 80 - Radial

pressure (bar)	Ø connection	code
0 - 4	1/2"	M80R04
0 - 10	1/2"	M80R10

Ø 100 - Radial

pressure (bar)	Ø connection	code
0 - 6	1/2"	M100R06
0 - 10	1/2"	M100R10

Glycerin filled - Stainless steel box

Acc. to EN837-1 - Temperature range: -20°C/+60°C - Brass connection - Plexiglass glass - IP65 - Safety vent - Class 1,6.

Ø 50 - Axial

pressure (bar)	Ø connection	code
0 - 10	1/4"	MA10G

Ø 63 - Axial

pressure (bar)	Ø connection	code
0 - 4	1/4"	M63A04G
0 - 6	1/4"	M63A06G
0 - 10	1/4"	M63A10G

Ø 50 - Radial

pressure (bar)	Ø connection	code
0 - 10	1/4"	MR10G

Ø 63 - Radial

pressure (bar)	Ø connection	code
0 - 4	1/4"	M63R04G
0 - 6	1/4"	M63R06G
0 - 10	1/4"	M63R10G

Other pressure settings, see page 473

Thermomanometer

Ø 80

Temperature range: 0°C/+120°C -
With socket for draining without dismantling.

	pressure (bar)	Ø connection	code
Axial	0 - 4	1/2"	MTA
Radial	0 - 4	1/2"	MTR

Hydrometer

Ø 63 - Radial

pressure (bar)	Ø connection	code
0 - 10	3/8"	H10
0 - 20	3/8"	H20

Electronic

Ø 80- Radial

Stainless steel 304 housing - Noryl protection cap - LCD display 50 x 27 mm, 4,5 digits - Bargraph 7 segments - Temperature range: -20°C/+70°C - Connection 1/4" - Class 0,4 - 3V tension, 2 AAA batteries (non supplied) - Measuring units: bar, Mpa, mH20, mmHg, T or Kpa, PSI, Kgf/mm² - IP65.

pressure (bar)	permissible overpressure (bar)	code
0 - 6	9	MER06
0 - 10	15	MER10
0 - 16	24	MER16
0 - 25	32	MER25

Accessories

Holder valve

Ø	code
1/4"	ZRI08
3/8"	ZRI12
1/2"	ZRI15

Push-button valve

Ø	code
1/4"	9880302
1/2"	9880304

Holder valve with handle

Ø	code
1/4"	1306002
3/8"	1306003
1/2"	1306004

Coil siphon

Ø	code
M1/4"-F1/4"	9880202
M1/2"-F1/2"	9880204

Solid fuel boiler equipment

Thermic valves

Thermovar

Ø	Kvs	opening temperature setting	code
1"	9	45°C	T2645
1"1/4	12	45°C	T3345
1"	9	61°C	T2661
1"1/4	12	61°C	T3361
1"	9	72°C	T2672
1"1/4	12	72°C	T3372

Thermobac

Check valve to be added to Thermovar in some installations.

Ø	code
1"	CTB26
1"1/4	CTB33

Thermovar set

For max. 65 Kw boilers - Max. temperature: +110°C - Supplied with insulation.

Ø	opening temperature setting	code
1"1/4	61°C	TC61L
1"1/4	72°C	TC72L

Pump actuator

code
ZMCTC-2

Draught stabilizers

Moderator (Georgin)

Ø	steel code	epoxy paint code
97 to 140	SB1	SB1N
140 to 200	SB2	SB2N
200 to 280	SB3	SB3N
280 to 344	SM4	-
400 to 448	SM5	-

Regulator

Stainless steel - Counterweight adjustment.

Ø	code
108 to 110	ST1
150 to 153	ST2
180 to 183	ST3

Draught regulator

Calorstat

Temperature range: +30°C/+90°C - Double sight according to horizontal & vertical position - 3/4" connection - Lever 140 mm - Chain 1,2 m - Lifting torque 10Nm.

code
R85

NEW Transfer units

Insulated transfer unit

ErP solar circulator - Air separator with manual return - Valves - Thermometer - Flow regulator with flowmeter.

	code
Without solar controller	GTSDN
With RS4 solar controller	GTSDNR

Return unit

ErP solar circulator - Safety valve 6 bar setting (-30°C to +160°C) - Flow regulator with flowmeter (1 to 13 l/mn) - Filling & drainage valve - Shut-off valve with thermometer & built-in check valve.

code
GTS

Solar controllers

3-configuration solar heating system

Speed monitoring of high effeciency pump - 1 outlet Grundfos Direct Sensor VFD probe - System-Monitoring screen - 4 PT1000 temperature probes - 2 semiconductor relays for speed monitoring - Calorimetric balance.

code
RS4

10-configuration solar heating system

Speed monitoring of high effeciency pump, acc. to VDI 2169 Directive - 3-relay outlets (incl. low voltage relay without potential) - System-Monitoring screen - 4 inlets for temperature probes Pt1000, Pt500 or KTY - 1 V40 pulse inlet - 2 PWM oulets for speed monitoring.

code
RS10

Circulators

Guarantee 5 Years

Low consumption electronic circulator - Max. pressure: 10 bar - Temperature range: -10°C/+110°C - IPX5 - Insulation class: F - 230V~50/60Hz - Max. glycol: 30% - Mode button with LED indicator - Anti-calcareous protection.

EVOSTA 2

0,4 to 3,3 m³/h up to 6,9 m - EEI ≤ 0,20.

	length (mm)	Ø	code
EVOSTA 20	180	1"1/2	EVA22075180SOL
	130	1"1/2	EVA22075130SOL
	130	1"	EVA2207513026SOL
	180	1"1/2	EVA220105180SOL
	130	1"1/2	EVA220105130SOL
	130	1"	EVA2201013026SOL

	length (mm)	Ø	code
EVOSTA 30	180	1"1/2	EVA230145180SOL
	130	1"1/2	EVA230145130SOL
	130	1"	EVA2301413026SOL

Expansion tank

* except 12 l

Solar expansion tank

Preset pressure: 2,5 bar - Max. working pressure: 10 bar - TS: -10°C/+99°C (temporarely: +110°C) - Butyl membrane - Connection M 3/4" up to 50 l, 1" M above - Max. glycol: 50%.

volume (l)	code
12	V012S
18	V018S
24	V024S
35**	V035S
50**	V050S
80**	V080S
105**	V105S

** on base

volume (l)	code
150**	V150S
200**	V200S
250**	V250S
300**	V300S
400**	V400S
500**	V500S
600**	V600S

** on base

Tank support set (up to 25 l)

Includes: square, 50 cm stainless steel flexible hose, FF 3/4" quick union fitting, high temperature fiber gaskets.

code
KMVS

Wall bracket

code
ZSMSO

Solar panel connections, see page 381

Mixing water tanks for heat pumps

Standard - ErP class B & C

Reversible insulated tank (to be installed between the heat pump & the boiler, at any side) - Supplied with 4 caps up to 50 l - Carbon steel body - Expanded polyurethane insulation - Threaded connections.

2 x 2 connections

volume (l)	height (mm)	Ø (mm)	center distance connection (mm)	Ø connections	ErP class	code
8	382	254	126	1"	B	BMEL08SK
12	526	254	270	1"	B	BMEL12SKE
25	790	290	450	1"1/4	C	BMEL25SKE
50	1008	343	600	1"1/4	C	BMEL50SKE

2 x 4 connections

volume (l)	height (mm)	Ø (mm)	center distance connection (mm)	Ø connections	ErP class	code
12	526	254	90	1"	B	BMEL12SK
25	790	290	150	1"1/4	C	BMEL25SK
50	1008	343	200	1"1/4	C	BMEL50SK
100	870	450	175	1"1/4	C	BMEL100SKM

2 x 4 connections - Ground standing

volume (l)	height (mm)	Ø (mm)	center distance connection (mm)	Ø connections	ErP class	code
100	954	450	175	1"1/4	C	BMEL100SK
200	1438	510	330	1"1/4	C	BMEL200SK
300	1515	620	275/300	1"1/4	C	BMEL300SK
500	1816	750	350/380/350	2"	C	BMEL500SK

NEW

Premium - ErP class A

Reversible insulated tank (to be installed between the heat pump & the boiler, at any side) - Carbon steel body - Corrosion resistant with zinc/aluminium/magnesium coating - Expanded polyurethane insulation - Threaded connections.

volume (l)	height (mm)	Ø (mm)	center distance connection (mm)	Ø connections	ErP class	code
12	566	344	270	1	A	BMEL12SKP
25	830	340	450	1"1/4	A	BMEL25SKP
50	1037	423	600	1"1/4	A	BMEL50SKP
100	930	550	525	1"1/4"	A	BMEL100SKP

Hydraulic insulation

Carbon steel body - 3/8"F for automatic air vent - 3/8"F for draining valve - 1"F connections.

volume (l)	code
2	BDH026F

Injection tank

For heating and air conditioning: anti-frost and glycol filling - 3/4" & 1"MM connections - Supplied with funnel.

volume (l)	Ø	code
12	3/4"M - 1"M	BI12J
25	3/4"M - 1"M	BI25J

Resistors

Incoloy thermoplungers - 1"1/2 connection - For 100 to 500 l tanks - Control & safety thermostats (manual reset) - 2 m wire - IP65 - ⚠ **Not suitable for glycol.**

Thermostats 230V +30/+70°C, safety +90°C.

power (kW)	max. power (W/cm²)	plunger length (mm)	code
2	9,1	320	RES2000TM
3	13,5	320	RES3000TM
6	12,6	400	RES6000TM

Thermostats 3~400V +30/+75°C, safety +98°C.

power (kW)	max. power (W/cm²)	plunger length (mm)	code
2	8,7	300	RES2000TT
3	13,1	300	RES3000TT
4	10,0	395	RES4000TT
5	10,0	480	RES5000TT
6	10,1	600	RES6000TT
9	12,5	800	RES9000TT

Heating or cold water storage tanks

Indoor or outdoor installation - Carbon steel coated body - Rigid polyurethane foam insulation with low heat loss - White galvanized metal sheath - 1"1/2 outlet for additional electric resistor - Max. pressure 4 bar - Temperature range -10°C/+90°C. ErP C class.

capacity (l)	height (mm)	Ø (mm)	power (W)	ErP class	code
100	948	460	62	C	BREV0100HE
200	1336	510	83	C	BREV0200HE
300	1395	610	89	C	BREV0300HE
500	1970	750	102	C	BREV0500HE
800*	1996	900	106	C	BREV0800HE
1000*	2035	1000	125	C	BREV1000HE
1500*	2366	1100	159	C	BREV1500HE
2000*	2436	1300	158	C	BREV2000HE

* please consult for specific freight charges

Sanitary hot water tanks

Polywarm® carbon steel coated body & coil - 50 mm thickness polyurethane insulation up to 500 l, 100% recycable polyester fiber insulation above - White PVC sheath - Cathodic protection: magnesium anode - 1"1/2 outlet for additional electric resistor - 1/2" outlet for probe or thermometer - Standard & 2 exchangers: storage max. pressure 10 bar (except 1000 & 1500 l: 8 bar) & max. temperature +90°C; exchanger max. pressure 12 bar & max. temperature +110°C - Wall mounting: storage max. pressure 6 bar & max. temperature +90°C; exchanger max. pressure 12 bar & max. temperature +110°C - ErP B or C class.

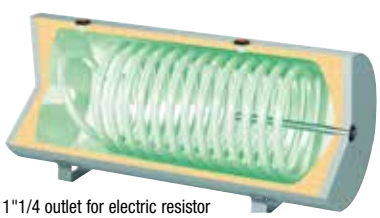
Standard

capacity (l)	height (mm)	Ø (mm)	power (W)	ErP class	code
150	-	-	55	B	PECS0150HE
200	1434	550	59	B	PECS0200HE
300	1486	650	69	B	PECS0300HE
500	1786	750	102	B	PECS0500HE
800*	2163	950	118	B	PECS0800HE
1000*	2217	1050	134	B	PECS1000HE
1500*	2240	1150	164	C	PECS1500HE

* please consult for specific freight charges

2 exchangers

capacity (l)	height (mm)	Ø (mm)	power (W)	ErP class	code
200	1434	550	59	B	PECS022STHE
300	1486	650	69	B	PECS032STHE
500	1786	750	102	C	PECS052STHE



1"1/4 outlet for electric resistor

Wall mounting

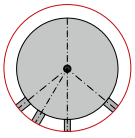
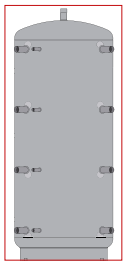
capacity (l)	height (mm)	Ø (mm)	power (W)	ErP class	code
80	800	456	63	C	PECS0080MHE
100	954	456	67	C	PECS0100MHE
150	1330	456	75	C	PECS0150MHE
200	1350	510	77	C	PECS0200MHE

* please consult for specific freight charges

Storage & exchanger tanks

Heating water storage tanks

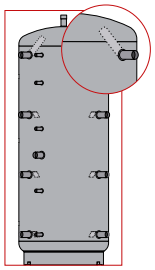
For discontinous heating boilers (such as wood boilers) - Carbon steel body - 50 mm injected foam or 100 mm soft polyester insulation, white plastic coated - 1"1/2 outlet for additional electric resistor for PLUS range - Storage: max. pressure 3 bar, max. temperature +99°C - Exchanger: max. pressure 12 bar, max. temperature +110°C - ErP C class.

Standard

capacity (l)	height (mm)	Ø (mm)	power (W)	ErP class	code
500	1640	750	109	C	B0500HE
800*	1740	1010	132,3	C	B0800HE
1000*	2090	1010	141,5	C	B1000HE

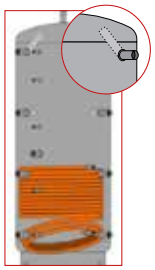
* please consult for specific freight charges



PLUS range - Without exchanger

capacity (l)	height (mm)	Ø (mm)	power (W)	ErP class	code
300	1340	650	85,6	C	BS0300VHE
500	1620	750	109	C	BS0500VHE
800*	1840	1010	135,2	C	BS0800VHE
1000*	2130	1010	143,7	C	BS1000VHE
1500*	2250	1210	166,5	C	BS1500VHE
2000*	2320	1360	187,6	C	BS2000VHE

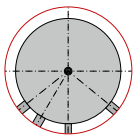
* please consult for specific freight charges



PLUS range - Carbon steel pipe exchanger

capacity (l)	height (mm)	Ø (mm)	power (W)	ErP class	code
300	1340	650	85,6	C	BS0300SEHE
500	1620	750	109	C	BS0500SEHE
800*	1840	1010	135,2	C	BS0800SEHE
1000*	2130	1010	143,7	C	BS1000SEHE
1500*	2250	1210	166,5	C	BS1500SEHE

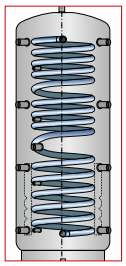
* please consult for specific freight charges



Heating water storage & sanitary hot water production tanks

Up to 3 different heating sources, with an additional electric supply - Used for solid fuel boilers, biomass & solar heating system - Carbon steel body & exchanger - Stainless steel 316L exchanger for instant sanitary hot water production - 50 mm injected foam or 100 mm soft polyester insulation - Grey PVC sheath - 1"1/2 outlet for additional electric resistor - Storage: max. pressure 3 bar, max. temperature +99°C - Stainless steel exchanger: max. pressure 6 bar - Carbon steel exchanger: max. pressure 12 bar, max. temperature +110°C - ErP B or C class.

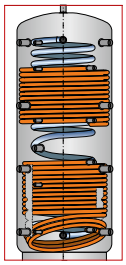
Without carbon steel pipe exchanger



capacity (l)	height (mm)	Ø (mm)	power (W)	ErP class	code
200	1310	590	59	B	BSES0200HE
300	1585	650	55	B	BSES0300HE
600	1869	750	116	C	BSES0600HE
800*	1838	1010	135	C	BSES0800HE
1000*	2128	1010	144	C	BSES1000HE
1500*	2250	1210	167	C	BSES1500HE
2000*	2319	1360	188	C	BSES2000HE

* please consult for specific freight charges

2 carbon steel pipe exchangers



capacity (l)	height (mm)	Ø (mm)	power (W)	ErP class	code
600	1869	750	116	C	BSE0600HE
800*	1838	1010	135	C	BSE0800HE
1000*	2128	1010	144	C	BSE1000HE
1500*	2250	1210	167	C	BSE1500HE
2000*	2319	1360	188	C	BSE2000HE

* please consult for specific freight charges

Self-regulating heating cable

Sold by coil of 150 m or by multiple of 10 m - The heat emission intensity varies according to indoor or outdoor temperature (depending on the application) - Every meter marked - 230V.

Anti-frost protection
Self-regulating
temperature: +55°C.

material	output power at 10°C	150 m coil code	multiple of 10 m code
Metal braid & polyolefine sheath	12 W/m	5BMX	5BMXM
Metal braid & polyolefine sheath	20 W/m	10BMX	10BMXM

Temperature control
Self-regulating
temperature: +65°C.

material	output power at 10°C	150 m coil code	multiple of 10 m code
Metal braid & polyolefine sheath	31 W/m	20BMX	20BMXM

Roof snow removal & ramp protection
Electric protection: IPX7 -
Self-regulating
temperature: +65°C.

material	output power at 10°C	150 m coil code	multiple of 10 m code
Metal braid & fluorised polymere sheath	31 W/m	20BMF	20BMFM

Single connection
1 cable connection - IP68.

code
AUT1

Pipe clamps
(sold by 100)

code
COL

Y - connection
2 cable connection - IP65.

code
AUT2

Fiber glass self-adhesive tape
50 m x 12 mm

code
FIB

Connection set
Rubber pieces & gland-pack
for connection or termination.

code
AUTOKIT

Aluminium self-adhesive tape
50 m x 50 mm

code
ALU

Terminations
(sold by 5)

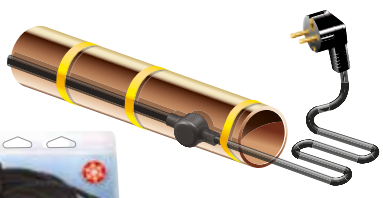
code
MANTER

Thermostats with 3 m contact probe
Anti-frost protection
(for 5BMS & 5BMX)
0°C/+40°C (16A)

code
TH40

Temperature control (for 20BMS & 20BMX) +10°C/+110°C (10A)

code
TH110



Ready-to-use cable set
Anti-frost protection - Includes electric plug & thermostat
for shut-off above +5/+8°C (energy saving) - 230V -
Under tension max. use temperature: +50°C -
T6 (85°) acc. to EN 50014 -
Min. installation temperature: -20°C -
Non-heated section: 2 m - IP54.

cable length	code
5 m	CAB5
10 m	CAB10
15 m	CAB15

Wall fan coil unit

Long-lasting copper-aluminium battery, tested at 20 bar - Silent AC tangential motorised fan - 3 speed blowing - Wall installation - White ABS housing & air damper - EU2 air filter - ABS condensate tank.

max. air flow (m^3/h)	max. heating capicity (kW)	max. cooling capicity (kW)	infrared remote control code	wired remote control code
410	5,1	2,38	VCMIR023	VCM023
560	6,6	2,7	VCMIR043	VCM043
860	10	4,6	VCMIR123	VCM123

Infrared remote control

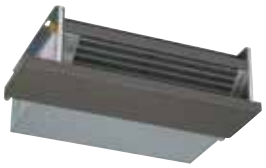
code
TIRVCM

Fan coil unit

built-in thermostat

Thick housing with RAL 9002 white epoxy painting - Long-lasting copper heat exchanger, 24 bar & 120°C tested - 6 speed (3 connected) motorised fan, 230V AC, silent bloc with self-lubricating bearings, IP42 & thermal built-in protection - Static & dynamic balanced turbine - Easy maintenance EU-G3-M1 air filter - Condensate container under heat exchanger - ABS airing grid - Hot water 70/60°C, cold water 7/12°C.

Vertical with underneath intake



max. air flow (m^3/h)	max. heating capicity (kW)	max. cooling capicity (kW)	standard code	with built-in thermostat code	uncased code
370	3,74	1,50	VCVA013	VCVAR013	VNHA013
400	4,91	2,00	VCVA023	VCVAR023	VNHA023
500	5,98	2,53	VCVA033	VCVAR033	VNHA033
550	6,71	3,02	VCVA043	VCVAR043	VNHA043
670	8,16	3,75	VCVA053	VCVAR053	VNHA053
720	9,44	4,25	VCVA063	VCVAR063	VNHA063
1 000	12,00	5,52	VCVA073	VCVAR073	VNHA073
1 050	13,30	6,42	VCVA083	VCVAR083	VNHA083
1 280	15,50	7,53	VCVA093	VCVAR093	VNHA093
1 500	19,79	9,82	VCVA103	VCVAR103	VNHA103

EC (brushless) motor on request

Electronic remote control

For without built-in thermostat types

code
CADVC

Remote control room sensor

To be combined with remote control

code
SAVC

3/4" 3-way valve set

code
KV3VC

Digital remote control

For without built-in thermostat types

code
TAE

Control interface for 4 fan coil units

To be combined with remote control

code
R4VC

Under valves & pipes condensate container

TFor vertical types

code
BCVC

Feet

For vertical with underneath intake types

code
PIEDSVC

Hot water air heater with EC or AC motor

Compact - Horizontal or vertical installation - AC or EC (brushless) motor - Rotary console (vertical axis) & 3 position orientable (horizontal axis) - Right side hydraulic connection - Galvanised carbon steel housing - Copper aluminium exchanger - 230V AC - IPS54.

	power (W)	air flow (m³/h)	air range (m)	consumption (W)	motor speed (tr/min)	sound pressure (Lp dB(A) at 5m)	code
AC motor	11,5/17	2 100	14	115	1 450	52	AWMIN
NEW	13/21	2 000	14	115	1 450	52	AWMIN3
	17/24	5 300	23	280	1 380	56	AW1
	26,5/40	4 850	33	280	1 380	56	AW2
	40/60	5 700	25	450	1 380	57	AW3
NEW	42,5/66	5 300	23	410	1 380	56	AW4
EC motor	3..17	2 100	14	95	1 450	50	AWSMIN
NEW	4..21	2 000	14	95	1 450	50	AWSMIN3
	4..24	5 300	23	250	1 380	54	AWS1
	7..40	4 850	33	250	1 380	54	AWS2
	10..60	5 700	25	370	1 380	55	AWS3
NEW	10..66	5 300	23	370	1 380	54	AWS4

Power & air temperature are given for a 15°C recovery temperature.

NEW **Drain pan**

code
BCAWMIN
BCAW4

Control panel for AC motor

code
CADRA

Control panel for EC motor

code
CADAWS

Weekly programmable thermostat for EC

code
CADRAS2

Shut-off valve

code
KEVIRA

Monophased 20A proximity switch

code
IPM

Suspended support set

code
KSV

Hot water air heater unit

Compact - Water coil (tested 30 bar) - Motorised fan IP54 with gland pack - Wall or suspended installation - Right side hydraulic connection - 230V AC - 1 speed fan - Galvanised steel housing - Supply grille with carbon steel adjustable blades - Copper heat exchanger with aluminium blades.

Other types on request

type	sound pressure (Lp dB(A) at 5m)	power consumption (W)	current consumption (A)	dimensions (mm)	code
AW22	35	1 x 90	1 x 0,42	L 520 x W 440 x H 350	AW22
AW23	36	1 x 95	1 x 0,44	L 520 x W 440 x H 350	AW23
AW32	38	1 x 140	1 x 0,65	L 620 x W 540 x H 350	AW32

type	water regime +90/+70°C			water regime +70/+60°C			water regime +50/+45°C		
	power (kW)	air temperature (°C)	water flow (l/h)	power (kW)	air temperature (°C)	water flow (l/h)	power (kW)	air temperature (°C)	water flow (l/h)
AW22	16,3	42	702	12,6	36	1 080	8,2	29	1 404
AW23	20,9	52	898	16,1	43	1 381	10,5	34	1 796
AW32	26,7	44	1 146	20,5	37	1 763	13,3	30	2 292

Power & air temperature are given for a 15°C recovery temperature.

Dual deflection grille

code
For AW22 & AW23 types: GDD2
For AW32 type: GDD3

Venturi jet grille

code
For AW22 & AW23 types: GJV2
For AW32 type: GJV3

Weekly programmable thermostat

code
TAP

Monophased 20A proximity switch

code
IPM

Wall support set

code
For AW22 & AW23 types: KMF2
For AW32 type: KMF36

Vertical metal beam support set

code
KPM234

Control panel

code
1 zone: BCTAWF900
1 zone, programmable: BCPAW900

Helicoidal air extract units

Low pressure air extract unit

Carbon steel frame with polyester coating - Steady polypropylene blades - Low sound level - IP44 - Temperature range: -25°C/+70°C.

max. flow (m³/h)	voltage (V AC)	power consumption (W)	sound pressure (Lp dB(A) at 3m)	speed (tr/mn)	code
1 000	1~230	55-65	50,5	1 400	VHIBPM254
1 350	1~230	55-70	54	1 400	VHIBPM304
1 500	1~230	95-105	71	2 800	VHIBPM252
1 850	1~230	85-95	66,5	1 400	VHIBPM354
1 000	3~400	55-70	53	1 400	VHIBPT254
1 400	3~400	65-80	53	1 400	VHIBPT304
1 900	3~400	90-100	61	1 400	VHIBPT354

High flow extract unit

Carbon steel frame with resistant atmospheric agent coating - Galvanised carbon steel blades - IP54 - Temperature range: -30°C/+50°C.

max. flow (m³/h)	voltage (V AC)	power consumption (W)	available pressure (Pa)	sound pressure (Lp dB(A) at 3m)	speed (tr/mn)	code
764	1~230	38	61	38,5	1 400	VHIM254
1 365	1~230	95	177	53	2 500	VHIM252
1 563	1~230	81	130	43	1 400	VHIM304
2 960	1~230	170	100	49,5	1 400	VHIM354
4 310	1~230	300	152	55,6	1 400	VHIM404
4 805	1~230	290	152	57,2	1 000	VHIM506
785	3~400	50	134	39	1 400	VHIT254
1 696	3~400	79	129	46	1 400	VHIT304
2 980	3~400	166	115	48,7	1 400	VHIT354
3 862	3~400	318	246	62,5	1 400	VHIT404
5 040	3~400	250	96	52,7	1 000	VHIT506
5 187	3~400	370	155	58	1 350	VHIT454
6 966	3~400	485	128	60,5	1 400	VHIT504
8 050	3~400	480	175	56,7	1 000	VHIT566
9 255	3~400	925	285	54,9	1 400	VHIT564
9 502	3~400	522	154	58	1 000	VHIT636

Other types with flow up to 12 000 m³/h on request

Accessories

Speed variator

	code
For 1~230V AC	SVHIBP
For 3~400V AC, flow up to 5040 m³/h	SVHIBPT
For 3~400V AC, flow above 5040 m³/h	SVHIBPT3

Proximity switch

	code
For 1~230V AC, 20A	IPM
For 3~400V AC, 25A	IPT

Spacer for panel installation

	code
For 252/254 types	ENT250
For 304 type	ENT304
For 354 type	ENT354
For 404 type	ENT404

External protection grille

	code
For 252/254 types	GS250
For 304 type	GS300
For 354 type	GS350
For 404 type	GS450
For 454/504/506 types	GS550

Gravity shutter grille

	code
For 252/254 types	GVPI250
For 304 type	GVPI300
For 354 type	GVPI350
For 404 type	GVPI400
For 454/504/506 types	GVPI500

Other types on request

Commercial use air fan

Commercial use fan - Air outlet aligned with air inlet - Proximity switch in series - Compact - 2 operating speeds - Extraction or insufflation - Indoor or outdoor all position installation - Wall or ceiling installation, without additional accessories - Low noise - Galvanised steel, 10/10e thickness - Removable rain-protection cover - Direct coupling motor with built-in thermal protection - Low consumption on request.

	flow (m^3/h)	available pressure (Pa)	power consumption (W)	outlet/inlet (mm)	dimensions (mm)	code
	340	350	52	125	L 515 x W 235 x H 370	CM125
*	340	350	52	125	L 515 x W 260 x H 370	CMISO125
	355	350	52	160	L 515 x W 235 x H 370	CM160
*	355	350	52	160	L 515 x W 260 x H 370	CMISO160
	700	460	102	200	L 590 x W 260 x H 420	CM200
*	700	460	102	200	L 590 x W 285 x H 420	CMISO200
	940	550	155	250	L 540 x W 335 x H 450	CM250
*	940	550	155	250	L 540 x W 360 x H 450	CMISO250

* 25 mm mineral wool insulation.

NEW High efficiency decentralised dual flow air fan unit

Compact - Double-skinned carbon steel housing - 230V AC - IP54 - High efficiency reverse flow aluminium exchanger - EC motor with thermal protection - Filters with clogging detection pressostat - Electrical compartment - Proximity swich - Built-in clocks - Condensate tank - Flow control pressostat on each fan - 100% automatic by-pass - DIVA flow modulation - EASY regulation with MODBUS or BACNET protocol.

flow (m^3/h)	pressure (Pa)	elec. defrost (kW)	water battery heating* (kW)	water battery heating* code	electric battery heating (kW)	electric battery heating code
660	300		2,5	CE0500PC	1	CE0500PE
660	300	1	2,5	CE0500IC	1	CE0500IE
770	300		4,1	CE0750PC	1,25	CE0750PE
770	300	1,25	4,1	CE0750IC	1,25	CE0750IE
1100	300		4,5	CE0900PC	1,25	CE0900PE
1100	300	1,25	4,5	CE0900IC	1,25	CE0900IE
1390	300		6,3	CE1100PC	1,25	CE1100PE
1390	300	1,25	6,3	CE1100IC	1,25	CE1100IE

* water regime 80/60°C, air inlet 15°C.

Differential thermostat
(non mounted)

code
AMDD

NEW Digital remote control
10 m wire

code
TFTCN

Soft cuff

	code
For CE0500 types	MS250
For other types	MS315

NEW Condensate lifting station

code
PMPCE

High density PE ducts

For heat recovery ventilation - Semi-rigid PEHD duct - Gaskets connection (no adhesive tape nor putty) - Antibacterian & antistatic - Socket mounting - Max. pressure: 2500 Pa - Temperature range: -25°C/+60°C.

Duct

	Ø	code
Length 20 m	75	CPH07520
	90	CPH09020
Length 50 m	75	CPH07550
	90	CPH09050

"Clip" mounting flange

Ø	code
75	FIXPH075

Straight nipple

Ø	code
75	MPH075J
90	MPH090J

Rigid elbow 90°

Ø	code
75	COUPH075J
90	COUPH090J

Connection for plenum chamber
Reduction 75/90.

Ø	code
90	PF090J

NEW Distribution plenum chamber
1 outlet Ø125 - 6 outlets Ø75 - Requested adaptators for Ø90.

code
P06075

Distribution plenum chamber
1 outlet Ø125/160 - 8 outlets Ø75 - Requested adaptors for Ø90.

code
P08075

Aluminium ducts

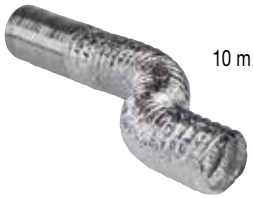
For ventilation (and hot air distribution & air conditionning for insulated type) - Gear clamp connection - Adhesive tape tightness - Max. pressure: 3 000 Pa (except insulated type: 2 500 Pa) - Temperature range: -30°C/+250°C.

Flexible & sleek duct

3 m length

Ø	code
100	CAF10003
125	CAF12503
150	CAF15003
160	CAF16003
200	CAF20003

Soft & sleek duct



10 m length

Ø	code
100	CAS10010
125	CAS12510
150	CAS15010
160	CAS16010
200	CAS20010

Soft & insulated duct

10 m length, 25 mm fiber wool insulation

Ø	code
100	CASLV2510010
125	CASLV2512510
150	CASLV2515010
160	CASLV2516010
200	CASLV2520010
250	CASLV2525010
315	CASLV2531510

10 m length, 25 mm polyester wool insulation

Ø	code
125	CASOP2512510
160	CASOP2516010
200	CASOP2520010
250	CASOP2525010

10 m length, 50 mm glass wool insulation

Ø	code
100	CASLV5010010
125	CASLV5012510
150	CASLV5015010
160	CASLV5016010
200	CASLV5020010

Mandatory packing 10 pcs

Monothread gear clamp

Ø	code
100	STM100
125	STM125
150	STM150
160	STM160
200	STM200
250	STM250
315	STM315

Coupling sleeve

Ø	code
100	M100
125	M125
150	M150
160	M160
200	M200

Reduction male/female

(scoring fitting)

Ø	code
125-100	RMF125100
125-100-80	RMF12580
150-125	RMF150125
160-125	RMF160125
200-160	RMF200160

Mandatory packing 100 pcs

Nylon gear clamp

Ø	code
80-125	STN080125
125-160	STN125160

Coupling sleeve with gasket

Ø	code
250	MMGJ250
315	MMGJ315

Metal roof outlet cap

Ø	code
125	CTTM125
160	CTTM160
200	CTTM200
250	CTTM250
315	CTTM315
355	CTTM355
400	CTTM400

Aluminium adhesive tape

50 m x 50 mm

code
BAN50

Reinforced adhesive tape

50 m x 50 mm

code
BANR50

Expanded polyethylene ducts

For dual flow ventilation, air intake & air extract for thermodynamic water heaters - Rigid EPE ducts & fittings - Easy use - Clamp connection (no adhesive tape nor putty) - Insulation thickness: 16 mm - Density: 30 kg/m³ - Temperature range: -30°C/+60°C.

Duct

2 m length

Ø	code
160	CPE16002

Sold by multiple of 6.

Soft adhesive tightness set

Ø	code
160	KESCPE160

ISO elbow 90°

Ø	code
160	COUPE90160

Clamp

Ø	code
160	FIXPE160

Plastic straight socket

Ø	code
160	MPE160

ISO elbow 45°

Ø	code
160	COUPE45160

Stainless steel air intake

Ø	code
160	PAFI160

Network accessories

Manually adjustable air extract units

Plastic air extract & air intake

Ø	code
100	BRP100
125	BRP125
160	BRP160
200	BRP200

Metal air extract & air intake

Ø	code
100	BRM100
125	BRM125
160	BRM160
200	BRM200

Stainless steel air extract & air intake

Ø	code
100	BTRX100
125	BTRX125
160	BTRX160
200	BTRX200

Plastic air extract & air intake

Ø	code
125	BR125

Square air intake

NEW

Ø	code
100	BFCD100
125	BFCD125
160	BFCD160
200	BFCD200

Metal socket

Ø	code
100	MTG100100
125	MTG125100
160	MTG160100
200	MTG200100

Flow regulator

Adjustable

dimension mm	flow section (cm²)	code
100	15-50	RDR10030
100	50-100	RDR10075
125	15-50	RDR12530
125	50-100	RDR12575
125	100-180	RDR125120

Self-adjusting extract unit

Single flow

flow (m³/h)	code
15	BTA15
30	BTA30
45	BTA45
60	BTA60
75	BTA75
90	BTA90

Cuff with gasket

Ø (mm)	code
100	MJ100
116	MJ116
125	MJ125

Ceiling diffuser

Aluminium circular

(with adjustable ABS central cone)

Ø	ext. dimension (mm)	flow (m³/h)	code
160	288	200-600	BTOR160
200	370	200-900	BTOR200
250	461	300-1200	BTOR250

Wall deflection grille

Dual deflection

dimension mm	flow (m³/h)	code
300 x 100	60-360	GSDABLC3010
400 x 100	100-500	GSDABLC4010
300 x 150	120-620	GSDABLC3015
400 x 150	160-860	GSDABLC4015
400 x 200	220-1220	GSDABLC4020

Plenum

ABS with rear outlet & adjustable flow (for deflection grid)

dimension mm	Ø (mm)	code
300 x 100 x 110	160-200	PGPA3010
400 x 100 x 110	160-200	PGPA4010
300 x 150 x 110	160-200	PGPA3015
400 x 150 x 110	160-200-250	PGPA4015
400 x 200 x 110	200-250	PGPA4020

Aluminium ventilation grilles with mosquito net

White pre-lacquered rectangle

dimension mm	flow (m³/h)	code
150 x 50	13	GABLAM1505F13B
250 x 50	25	GABLAM2505F25B
400 x 50	44	GABLAM4005F44B
200 x 100	50	GABLAM2010F50B
100 x 200	50	GABLAM1020F50B
300 x 100	66	GABLAM3010F66B
300 x 150	80	GABLAM3015F80B
150 x 300	80	GABLAM1530F80B
300 x 200	125	GABLAM3020F128B
400 x 200	183	GABLAM4020F100B

Anodised aluminium rectangle

dimension mm	flow (m³/h)	code
200 x 100	50	GAGRAM2010F50B
100 x 200	50	GAGRAM1020F50B
300 x 100	66	GAGRAM3010F66B
300 x 150	80	GAGRAM3015F80B
150 x 300	80	GAGRAM1530F80B
300 x 200	125	GAGRAM3020F128B
400 x 200	183	GAGRAM4020F100B

White pre-lacquered square

dimension mm	flow (m³/h)	code
100 x 100	25	GABLAM1010F25B
150 x 150	60	GABLAM1515F60B
170 x 170	150	GABLAM1717F150B
200 x 200	95	GABLAM2020F95B
250 x 250	150	GABLAM2525F150B
300 x 300	240	GABLAM3030F240B

Anodised aluminium square

dimension mm	flow (m³/h)	code
100 x 100	25	GAGRAM1010F25B
150 x 150	60	GAGRAM1515F60B
170 x 170	150	GAGRAM1717F150B
200 x 200	95	GAGRAM2020F95B
250 x 250	150	GAGRAM2525F150B
300 x 300	240	GAGRAM3030F240B

Air extract units

Low consumption silent intermittent air extract unit

ABS anti-UV cover - White color - 230V AC - IP45 - Insulation class II - Thermal circuit breaker - Polypropylene conical propeller - ABS check valve - Max. temperature use: 50°C.

max. flow (m³/h)	pressure (Pa)	consumption (W)	sound pressure (Lp dB(A) at 3m)	standard code	NEW tempo code
90	39	9	26,9	XEF100	XEFT100
175	49	13	32,3	XEF120	XEFT120

Ultra thin cover air extract unit

ABS anti-UV cover - White color - 230V AC - IPX4 - Insulation class II - Long life motor - Thermal circuit breaker - Polypropylene propeller - Mylar check valve - Max. temperature use: 50°C.

max. flow (m³/h)	pressure (Pa)	consumption (W)	sound pressure (Lp dB(A) at 3m)	standard code	NEW tempo code
85	29	15	31	XF100	XFT100
175	49	20	34,4	XF120	XFT120
335	59	28	40,1	XF150	XFT150

Universal short depth air extract unit

ABS anti-UV cover - White color - 230V AC - IPX4 - Insulation class II - Thermal circuit breaker - Polypropylene propeller - Max. temperature use: 50°C.

max. flow (m³/h)	pressure (Pa)	consumption (W)	sound pressure (Lp dB(A) at 3m)	standard code	tempo code
90	29	18	37,5	XP100	XPT100
175	44	20	39,5	XP120	XPT120
335	59	30	46	XP150	XPT150

Centrifugal air extract unit

NEW

Self-extinguishing (acc. to UL norm) polypropylene body - 230V AC - IP44 - Insulation class II - 2-speed rotation motor - Thermal circuit breaker - Polypropylene impeller - Max. temperature use: 60°C.

max. flow (m³/h)	pressure (Pa)	consumption (W)	sound pressure (Lp dB(A) at 3m)	standard code	tempo code
155/200	64/74	12/15	29,4/37,9	XL100Q	XLT100Q
180/255	127/162	20/23	30,7/39,4	XL100	XLT100
250/365	127/167	25/33	33,9/43	XL125	XLT125
385/550	206/265	40/58	41,4/50,5	XL150	XLT150

Speed variator

code
SX

Window mounting set

	code
For 100 type	KVP100
For 120 type	KVP120
For 150 type	KVP150

Exterior air extract grille

	code
Ø 100 mm	GF100
Ø 150 mm	GF150

Non-return pressure relief damper grid

	code
For 100 type	GVP100
For 120 type	GVP125
For 150 type	GVP160

Heat recovery air extract unit

XW30

XW40

ABS cover - White color - 230V AC - IPX2 - ABS adjustable shutter - Washable G4 filter - Heat accumulator in honeycomb ceramic - 5-speed & low consumption EC (brushless) motor - 3-mode function: heat recovery, air extract, air intake - Sound comfort: Lp = 19 dB(A) at 3 m - Infrared remote control, humidity & brightness probe (hygrostat) for XWTH types.

type	max. flow (m³/h)	consumption (W)	sound pressure (Lp dB(A) at 3m)	code
standard	30	4	19,1 to 49,2	XW30
hygrostat	30	4	19,1 to 49,2	XWTH30
standard	40	5	19,0 at 31,8	XW40
hygrostat	40	5	19,0 at 31,8	XWTH40

Pipe for wall installation (max. thickness 700 mm)

	code
For XW30 & XW30TH types	TUBXW30
For XW40 & XW40TH types	TUBXW

3 spare filter set

	code
For XW30 & XW30TH types	KFXW30
For XW40 & XW40TH types	KFXW

Tight reversible air conditioning unit

Hot/cold reversible - No external unit - Wall installation - Galvanised carbon steel housing - Oscillating fin - Anti-dust washable filter - 3 speed air intake tengential motor - Thermal exchanger centrifugal motor - Inverter compressor - R290 ecofriendly refrigerant gas - 230V AC - IPX0 - Insulation class I - LCD screen control - Tuya smart wifi connection - Infrared remote control - Supplied with installation accessories (supports, bolts, external grilles, duct).

max. flow (m^3/h)	max. heating (W)	max cooling (W)	room volume (m^3)/(m^2)	dehumidification capacity l/j at 30°, 50% HR	EER/COP	sound pressure (Lp dB(A) at 3m)	code
500	2 930	2 350	90/36	20	2,6/3,1	31	CMM3000

Accessories included

Wall & floor supports

Wall support

Epoxy resin coated galvanised carbon steel - Fastener, spirit level & vibration damper feet included.

width (mm)	height (mm)	arm length (mm)	weight (kg)	code
780	375	420	150	SUPME42
780	375	450	150	SUPME45
780	375	500	160	SUPME50
780	375	550	160	SUPME55

Vibration damper conical floor support

PVC - Height 80 mm - Ø 105 mm - Max. weight 200 kg.

code
SUPSC

Floor support

PVC - 80x80 mm - Length 450 mm - Max. weight 300 kg - RA9013 - Fastener (M10) included - Sold by 2.

code
SUPS8045X2

SBR rubber floor support

130x95 mm - Fastener (M10) included - Sold by 2.

length (mm)	max. weight (kg)	code
400	180	SUPSN40X2
600	300	SUPSN60X2

Condensate discharge

Discharge hose

Rigid PVC spiral hose - Length 30 m - Ø 16 mm.

code
TUYS1630

Discharge hose

Soft PVC creased pipe - Length 50 m - Ø 16 mm.

code
TUYA1650

Tee

For spiral or creased pipe - Ø 16 & 20 mm - Sold by 20.

code
TTUY16X20

Socket fitting

For spiral or creased pipe - Ø 16, 18 & 20 mm - Sold by 20.

code
MTUY16X20

Asymmetrical Y fitting

For spiral or creased pipe - Ø 16 & 18 mm - Sold by 20.

code
YTUY16X20

Symmetrical Y fitting

Transparent - For spiral or creased pipe - Ø 16, 18 & 20 mm - Sold by 20.

code
Y2TUY16X20

Siphon

Transparent PVC - For spiral or creased pipe - Ø 16, 18 & 20 mm - Sold by 10.

code
STUY16X10

Condensate pump discharge hose

Food use transparent PVC - TS: -15°C to +60°C - Length 50 m - Ø ext. 6, Ø int. 9.

code
TUYC6950

Quick fitting

For connection of spiral or creased pipe to condensate tank.

	Ø (mm)	code
*	16 (yellow)	RR16X5
*	18 (red)	RR18X5
*	20 (blue)	RR20X5
	25 (green)	RR25
	32 (grey)	RR32

* Ø 16 to 20, sold by 5.

Condensate lifting station,
see page 467

Plumbing

- Water heater safety 418
- Pressure reducing valves 420
- Thermostatic mixing valves 421
- Washing machine & toilet supplies 422
- Metering 424
- Water filtration 428

What's new!

Pressure reducing valves

p. 420

Thermostatic mixing valves

p. 421

Sanitary expansion tanks

Standard

VAREM

Food quality & safety butyl membrane -
Legionellosis prevention system - Stainless steel fitting -
Max. pressure: 8 bar - Max. temperature: +99°C.

	Volume (l)	water heater tank volume (l)	Ø connection	pre-set (bar)	code
	5	75	3/4" M	3	VEX05
	8	100	3/4" M	3	VEX08
	12	150	3/4" M	3	VEX11
*	12	150	3/4" M	3	VEX11FM
*	18	200	3/4" M	3	VEX18
*	25	300	3/4" M	3	VEX25

* Built-in wall support

High capacity

VAREM

Food quality & safety butyl removable membrane -
Stainless steel connection -
Max. pressure: 10 bar - Max. temperature: +99°C.

Volume (l)	height (cm)	Ø connection	pre-set (bar)	code
60	693	1"	2	VEX060
100	760	1"	2	VEX100
200	1080	1"1/2	2	VEX200
300	1180	1"1/2	2	VEX300

Vexbal connection set

For 5 l to 12 l tanks - Includes wall bracket, flexible hose 50 cm & tee.

code
ZKVEX

Square for expansion tank

(up to 25 l)
Threaded 3/4"

code
ZSEQ

Expansion tank fitting

3/4" MMF

code
ZTMMFN

Hammer arresters

With membrane

ZILMET

Max. pressure: 10 bar
Test pressure: 10 bar
Pre-set: 3,5 bar
Max. temperature: +99°C
Butyl membrane - Stainless steel 304 body.

Volume (l)	Ø connection	code
0,16	1/2" M	Z160
0,5	1/2" M	Z050
2	1/2" M	Z200

With spring

Brass body

Ø	female code	male code
1/2"	ABR15	ABR15M
3/4"	ABR20	ABR20M
1"	ABR26	ABR26M
1"1/4	ABR33	ABR33M
1"1/2	ABR40	ABR40M
2"	ABR50	ABR50M

Sanitary safety valves

With built-in check valve

Standard

Ø	pack	pre-set (bar)	code
1/2"	20	7	GTH15

With lever

Ø	pack	pre-set (bar)	code
1/2"	25	8,5	GTH15L

To be ordered by multiple of 25 pieces.

Brass

Ø	pack	pre-set (bar)	code
1/2"	10	6	23160V
1/2"	10	7	23170V
1/2"	10	8	23180V
1/2"	10	10	23110V
3/4"	10	6	23260V
3/4"	10	7	23270V
3/4"	10	8	23280V
3/4"	10	10	23210V

Pre-set 2,5 to 5 bar, see page 395

Bronze

GOETZE

Ø	pre-set (bar)	code
1/2"	7	S15GS07
1/2"	10	S15GS10
3/4"	7	S20GS07
3/4"	10	S20GS10
1"	7	S26GS07
1"	10	S26GS10
1"1/4	7	S33GS07
1"1/2	7	S40GS07
2"	7	S50GS07

Check valve

ACS Drinking water

Thermostop

For flat bearing fitting - Carbon steel or stainless steel construction - Compact - Easy to install - Horizontal or vertical mounting - Full bore - No turbulence - No headloss - Opening at 20 mbar - Max. temperature: +130°C.

Ø	for fitting	carbon steel code	stainless steel code
1/2"	1"	CT15SL	CT15SLI
3/4"	1"1/4	CT20SL	CT20SLI
1"	1"1/2	CT26SL	CT26SLI
1"1/4	2"	CT33SL	CT33SLI
1"1/4	2"1/2	CT40SL	CT40SLI

Boiler accessories

Electric insulation fitting

3 piece fitting - Direct mounting on water heater.

MF

FF

Ø	code
1/2" MF	ZRICE15
3/4" M 1/2" F	ZRICE2015MF
3/4" MF	ZRICE
1" MF	ZRICE26
1/2" FF	ZRICE15F
3/4" FF	ZRICE20F
1"FF	ZRICE26F
1" 1/4 FF	ZRICE33F
1" 1/2 FF	ZRICE40F
2" FF	ZRICE50F

Free flow 2 handle mixers

For water heater max. 50 l - Includes 2 chrome-plated pipes.

code
MEL

Siphon for safety device

code
ZES26

Sanitary hot water production & storage tanks, see pages 406 & 407

Sanitary circulators, see page 391

Standard - Brass

Nickel-plated CW617N brass - With manometer 1/4" outlet - Pre-set pressure: 3 bar - Max. upstream pressure: 15 bar - Downstream adjustable pressure: 1 to 4 bar.

Ø	pack*	code
1/2"	4/44	RPI15
3/4"	4/44	RPI20

* Mandatory packing: 4pcs.

Heavy duty - Brass

Nickel-plated CW617N brass - With manometer 1/4" outlets - Pre-set pressure: 3 bar - Max. upstream pressure: 25 bar - Downstream adjustable pressure: 1 to 6 bar - ACS up to 1".

Female

Ø	pack	face to face (mm)	code
1/2"	34	77	RPI15H
3/4"	34	85	RPI20H
1"	18	91	RPI26H
1"1/4	9	118	RPI33H
1"1/2	9	126	RPI40H
2"	8	142	RPI50H

Male union fittings

Ø	pack	face to face with fittings (mm)	code
1/2"	34	123	RPI15HM
3/4"	24	135	RPI20HM
1"	18	156	RPI26HM

NEW

Lead free bronze

Stainless steel seat - Built-in filter - Downstream adjustable pressure: 1,7 to 7 bar - Max. upstream pressure: 16 bar - TS: +5°C/+85°C - With manometer outlets - Includes fittings MM 1/2" to 2" - Replaceable cartridge.

Ø	face to face with fittings (mm)	code
1/2"	136	R90015
3/4"	152	R90020
1"	170	R90026
1"1/4	191	R90033
1"1/2	220	R90040
2"	254	R90050

NEW

Cast iron

Polyamide coating - Corrosion & cavitation resistant - Flanged PN16 - Downstream adjustable pressure: 1,7 to 7 bar - Max. upstream pressure: 16 bar - Includes manometer.

Ø	face to face (mm)	code
50	230	R38250
65	290	R38265

Heavy duty - Bronze

Stainless steel seat - Built-in filter - Downstream adjustable pressure: 1 to 8 bar.

Male union fittings

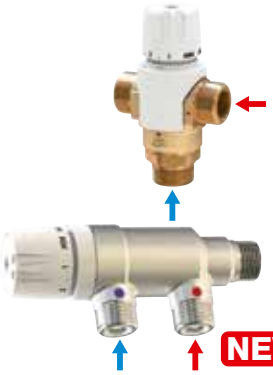
Max. upstream pressure: 40 bar - With manometer outlets.

Ø	face to face with fittings (mm)	code
1/2"	135	R68115
3/4"	160	R68120
1"	178	R68126
1"1/4	226	R68133
1"1/2	226	R68140
2"	260	R68150

Flanged PN16

Max. upstream pressure: 16 bar - Includes manometers.

DN	face to face (mm)	code
50	230	246827
65	290	246828
80	310	246829



Standard

Max. pressure: 5 bar - Max. temperature: +90°C - TS: +30°C/+65°C -
Built-in anti-scalding safety device -
Flow rate (at 1 bar): 1,5 Kv (m³/h).

Ø	code
3/4"	MTB20

Under basin

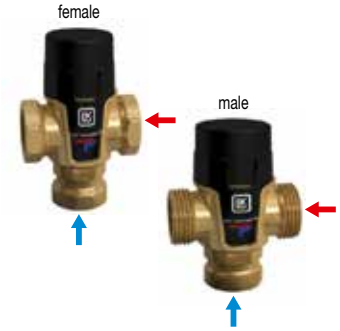
Nickel-plated - Max. pressure: 5 bar - Max. temperature: +80°C -
TS: +34°C/+40°C - Built-in anti-scalding safety device -
Flow rate (at 1 bar): 1,5 Kv (m³/h).

Ø	code
1/2"	MT100

NEW

High pressure

Max. pressure: 10 bar - Max. temperature: +65°C & +95°C - TS: +25°C/+45°C & 35°C/+65°C -
Adjustable temperature - Built-in anti-scalding safety device.



Female

Ø	flow (m³/h, Δp 1)	temperature range	code
1/2"	1,5	25 - 45°C	MTL152545
1/2"	1,6	35 - 65°C	MTL153565
3/4"	1,5	25 - 45°C	MTL202545
3/4"	1,6	35 - 65°C	MTL203560
1"	4,2	25 - 45°C	MTL262545
1"	3,5	35 - 65°C	MTL263565

Male

Ø	flow (m³/h, Δp 1)	temperature range	code
1/2"	1,3	25 - 45°C	MTL152545M
1/2"	1,3	35 - 65°C	MTL153565M
3/4"	1,5	25 - 45°C	MTL202545M
3/4"	1,5	35 - 65°C	MTL203560M
1"	1,6	25 - 45°C	MTL262545M
1"	1,6	35 - 65°C	MTL263565M

High flow

Nickel-plated brass & dezincification resistant alloy body - Male union connections -
Max. pressure: 5 bar - Max. temperature: +85°C - TS: +30°C/+50°C -
Pre-set temperature: +45°C - Built-in anti-scalding safety device -
Flow rate (at 1 bar): 2,2 Kv (m³/h).

Ø	code
3/4"	MTY49A20

while stocks last

Solar

Nickel-plated brass & dezincification resistant alloy body - Male union connections -
Max. pressure: 10 bar - Max. temperature: +110°C - TS: +30°C/+65°C -
Adjustable setting temperature - Built-in anti-scalding safety device -
Flow rate (at 1 bar): 1,8 Kv (m³/h).

Ø	code
3/4"	MTP04A20

Heavy duty - Bronze

Union connections (supplied without fittings)

flow (m³/h, Δp 1)	temperature range	Ø fitting (R)	threaded body (G)	code
1,440	20 - 30°C	1/2"	1"1/8	JRG341525
	30 - 45°C			JRG341540
	36 - 53°C			JRG341548
	45 - 65°C			JRG341555
2,500	20 - 30°C	3/4"	1"1/4	JRG342025
	30 - 45°C			JRG342040
	36 - 53°C			JRG342048
	45 - 65°C			JRG342055
4,000	20 - 30°C	1"	1"1/2	JRG342625
	30 - 45°C			JRG342640
	36 - 53°C			JRG342648
	45 - 65°C			JRG342655

flow (m³/h, Δp 1)	temperature range	Ø fitting (R)	threaded body (G)	code
8,000	20 - 30°C	1"1/4	2"	JRG343325
	30 - 45°C			JRG343340
	36 - 53°C			JRG343348
	45 - 65°C			JRG343355
12,200	20 - 30°C	1"1/2	2"1/4	JRG344025
	30 - 45°C			JRG344040
	36 - 53°C			JRG344048
	45 - 65°C			JRG344055
16,200	20 - 30°C	2"	2"3/4	JRG345025
	30 - 45°C			JRG345040
	36 - 53°C			JRG345048
	45 - 65°C			JRG345055

3 fitting set (supplied with gaskets)

Bronze - Threaded

Ø R	code
1/2"	ZRBJRG15
3/4"	ZRBJRG20
1"	ZRBJRG26
1"1/4	ZRBJRG33
1"1/2	ZRBJRG40
2"	ZRBJRG50

Brass - Welding

Ø	code
18	ZRSJRG15
22	ZRSJRG20
28	ZRSJRG26
35	ZRSJRG33
45	ZRSJRG40
54	ZRSJRG50

Flanged (supplied with gaskets)

flow (m³/h, Δp 1)	temperature range	DN	code
28,800	20 - 30°C	65	JRG34B6525
	30 - 45°C		JRG34B6540
	36 - 53°C		JRG34B6548
	45 - 65°C		JRG34B6555

flow (m³/h, Δp 1)	temperature range	DN	code
45,000	20 - 30°C	80	JRG34B8025
	30 - 45°C		JRG34B8040
	36 - 53°C		JRG34B8048
	45 - 65°C		JRG34B8055

Toilet pipes & bellows

Extensible
PVC bellow with weaved spiral (carbon steel thread) - Inlet: soft PVC universal fitting adaptable for Ø 80 to 105 mm - Outlet: PVC male end for Ø 90 to 100 mm; with glue - Extension: straight 250/540 mm, elbow 350/650 mm.

	pack	code
straight	15	PIPEXT
elbow	12	PIPEC650

Extensible with rim fitting
PVC bellow with weaved spiral (carbon steel thread) - Inlet: soft PVC universal fitting adaptable for Ø 80 to 105 mm - Outlet: rim fitting for Ø 90 to 100 mm; without glue - Extension 250/540 mm.

pack	code
15	PIPEXTJ

Soft
PVC bellow with reinforced fitting: naked internal face - Inlet: soft PVC universal fitting adaptable for Ø 80 to 105 mm - Outlet: PVC male end for Ø 90 to 100 mm - Temperature: -10°C to +60°C.

length (mm)	pack	code
400	15	PIP400
540	15	PIP540

Elbow
PVC & PP - Outlet Ø 100 - Toilet outlet Ø 85 to 107 mm.

length (mm)	Ø	pack	code
120	F	12	PIPF120
120	M	12	PIPM120
350	M	12	PIPM350

length (mm)	Ø	pack	code
120	F	12	PIPFP120
120	M	12	PIPMP120
350	M	12	PIPMP350

Straight
PVC & PP - Outlet Ø 100 - Toilet outlet Ø 85 to 107 mm.

length (mm)	Ø	pack	code
160	M	12	PIPMD160

length (mm)	Ø	pack	code
160	F	12	PIPFD160

Coil
Reinforced ABS bellow - Sleak interior Ø 25 & 32 mm - Max. temperature: +60°C.

Ø	coil length (m)	code
25 x 32	20	GTL32020
32 x 40	20	GTL40020

Female end fitting

Ø	pack	code
32 x 32	10	E32FL
40 x 32	10	E4032FL
40 x 40	10	E40FL

Free nut end fitting

Ø	pack	code
32 x 1"1/4	10	ET114
40 x 1"1/4	10	ET40114
40 x 1"1/2	10	ET112

Male end fitting

Ø	pack	code
32 x 32	10	E32ML
40 x 32	10	E4032ML
40 x 40	10	E40ML

PVC bellows for siphon

Weaved spiral (conical end) bellow
Direct mounting on standard siphons - Extension 300/600 mm.

Ø	code
32 x 32	RECM32
40 x 40	RECM40

Weaved spiral (flat end) bellow
Extension 300/600 mm.

Ø	free nut	code
32	1"1/4	REC32
40	1"1/2	REC40

Siphon mounted bellow

Ø	free nut	length (mm)	code
25 x 32	1"1/4	750	GTL32 0750
32 x 40	1"1/2	750	GTL40 0750

Extensible LATOREX bellows

Extensible bellow
Extension 300/600 mm - Perfect tightness.

Ø	pack	code
40	50	LAT40

Union fitting

Ø	pack	code
1"1/4	10	LATE114
1"1/2	10	LATE112

Male fitting

Ø	pack	code
32	10	LAT32ML
40	10	LAT40ML

Toilet macerators, see page 470

Mandatory packing applies

Valves for washing machines & toilet flush tanks

Sanitary valve with gland pack

Ø	pack	code
3/8"	10	1341003

Sanitary valve for copper pipe

Ø	pack	code
1/2" - 3/8"	2	640043
1/2" - Ø 10	1	640410

Sanitary valve set

Ø	pack	code
1/2" - 3/4"- 10	1	1336045

Washing machine valve - Standard

Ø	pack	code
1/2" - 3/4"	10/100	1325004

Washing machine valve - Self-drilling

Ø	pack	code
10 to 14 - 3/4"	1/10/50	1330005

Washing machine valve - Vertical double outlet

Ø	pack	code
1/2" - 3/4" - 3/4"	1/10	1328004

Wall valve connection - 1/2"

Ø	pack	code
14 - 1/2"	10	1312004

Screw driving ball valve

Male/male with flat bearings

Ø	pack	code
3/8"	10	688033
3/8"-1/2"	10	688043
1/2"	10	688044

Sanitary valve - Straight

Ø	pack	code
3/8" - 3/8"	10/200	679003

Sanitary valve - Angle

Ø	pack	code
3/8" - 3/8"	10/200	689003

Washing machine ball valve

Ø	pack	code
1/2" - 3/4"	10/200	685045

Washing machine ball valve with rose

Ø	pack	code
1/2" - 3/4"	10/200	684045

Washing machine valve - Y double outlet

Ø	pack	code
1/2" - 1/2"	1/10	1334004

Wall valve connection - 1/2" with nut

Ø	pack	code
12 - 1/2"	10	1311412
14 - 1/2"	10	1311414

Washing machine bellows

Alimentation set

Max. pressure: 20 bar -
Temperature range: 0°C/+25°C - Ø 10 mm.

Elbow outlet FF 3/4"

length (mm)	code
1500	1371001
2000	1371002
2500	1371003

Straight outlet FM 3/4"

length (mm)	code
2000	1371004

Straight outlet FF 3/4"

length (mm)	code
1500	1373001
2000	1373002
2500	1373003

Drainage set

Temperature range: 0°C/+60°C.

Ø 19x24 mm - Removable crock & rubber end.

length (mm)	code
1500	1372001
2000	1372002
2500	1372003

Ø 19x28 mm - Extensible - Elbow outlet.

length (mm)	code
600-2000	1374001

Ø 19x28 mm - Extensible - Straight outlet.

length (mm)	code
600-2000	1375001

Washing machine siphons

PVC pipe - ABS body & elbow - Polypropylene cap - NBR gasket - Pipe Ø 40 mm -
Temperature: 0°C to +90°C.

Horizontal male

pack	code
25	1370001

Funnel

pack	code
100	1370003

Vertical male

pack	code
30	1370002

Water meters

Single jet

Use: water distribution - Acc. to MID 2014/32/EU - M-Bus transmission protocol - Pre-equipped for radio or wired M-Bus - Brass body - Magnetic transmission - Dry dial - Max. pressure: 16 bar - Cold water: 0°C/+30°C - Hot water: +30°C/+90°C.

Cold water - MID R100 / Hot water - MID R100

bore	Ø	length (mm)	nominal flow (m^3/h)	max. flow (m^3/h)	cold water code	hot water code
15	3/4"	110	2,5	3,1	1701015	1702015
20	1"	130	4	5	1701020	1702020

M-Bus clip-on pulser
Wireless.

code
1749001

Receiving antenna

code
1749007

M-Bus clip-on pulser
2 thread wire - 3 m length.

code
1749004

M-Bus micromaster
Primary address setting.

code
1749016

Single jet - Pulse transmitter

Use: water distribution - Acc. to MID 2014/32/EU - Brass body - Magnetic transmission - Dry dial - Max. pressure: 16 bar - Cold water: 0°C/+30°C - Hot water: +30°C/+90°C - REED contact for pulse transmitter types (please advise the required number of pulses at the order).

Cold water - MID R100 / Hot water - MID R100

bore	Ø	length (mm)	nominal flow (m^3/h)	max. flow (m^3/h)	cold water 1x1l code	hot water 1x1l code
15	3/4"	110	2,5	3,1	1714015	1727015
20	1"	130	4	5	1714020	1727020

Pulse transmitter

code
9811018

Use: water distribution - Acc. to EN ISO 4064 & MID MI001 2014/32/EU - Pre-equipped for pulse transmitter (1 pulse per 10l) - Brass body - Dry dial - Max. pressure: 16 bar - Cold water: max. 50°C - Hot water: max. 90°C - Q3/Q1: Horizontal = R160; Vertical = R63 - Vertical or horizontal mounting.

Cold water - MID R160 / Hot water - MID R160

bore	Ø	length (mm)	nominal flow (m^3/h)	cold water code	hot water code
15	3/4"	110	2,5	2703015	2704015
20	1"	130	4	2703020	2704020

REED switch pulser
1 pulse per 10l.

code
2749030

Use: water distribution - Acc. to EN ISO 4064 & MID MI001 2014/32/EU - Pre-equipped for pulse transmitter (1 pulse per 10l) - Brass body - Dry dial - Max. pressure: 16 bar - Cold water: max. 50°C - Hot water: max. 90°C - Q3/Q1: Horizontal = R160; Vertical = R100 - Vertical or horizontal mounting.

Cold water - MID R160 / Hot water - MID R160

bore	Ø	length (mm)	Q3 (m^3/h)	cold water code	hot water code
15	3/4"	110	2,5	2740015	2743015
20	1"	130	4	2740020	2743020
25	1"1/4	160	6,3	2740025	2743025

REED switch pulser
1 pulse per 10l.

code
2749031

Woltmann & irrigation water meters, see page 212

Multi jet - Remote reading

NEW

Use: water distribution - Acc. to MID 2014/32/EU - M-Bus transmission protocol - Pre-equipped for wireless M-Bus, wired M-Bus or static pulses - Brass body - Magnetic transmission - Dry dial - 50 m scope - IP68 - Cold water: 0°C/+30°C - Hot water: +30°C/+90°C.

Cold water - MID R100 — Hot water - MID R100

bore	Ø	length (mm)	nominal flow (m^3/h)	max. flow (m^3/h)	cold water code	hot water code
15	3/4"	170	2,5	3,1	1770015	1707115
20	1"	190	4	5	1770020	1707120
25	1"1/4	260	6,3	7,8	1770025	1707125
30	1"1/2	260	10	12,5	1770030	1707130
40	2"	300	16	20	1770040	1707140
50	2"1/2	300	25	31,2	1770050	1707150

Programmable static pulse head
For smartphone NFC function.

code
1749060

M-Bus clip-on pulser
2 thread wire - 3 m length.

code
1749061

M-Bus micromaster
Primary address setting.

code
1749016

Use: water distribution - Acc. to EN ISO 4064 & MID MI001 2014/32/EU - Pre-equipped for pulse transmitter (1 pulse per 1l, 10l or 100l) - Brass body - Tempered glass - Dry dial - Protected rolls - Max. pressure: 16 bar - Cold water: max. 50°C - Q3/Q1: Horizontal = 160 - Horizontal mounting only.

Cold water - MID R160

bore	Ø	length (mm)	Q3 (m^3/h)	1=1l code	1=10l code	1=100l code
15	3/4"	170	2,5	2771015	2771016	2771017
20	1"	190	4	2771020	2771021	2771022
25	1"1/4	260	6,3	2771025	2771026	2771027
32	1"1/2	260	10	2771032	2771033	2771034
40	2"	300	16	2771040	2771041	2771042
50	2"1/2	300	25	2771050	2771051	2771052

REED switch pulser
1 pulse per 1l, 10l or 100l.

code
2749034

Static inductive bidirectional pulser
1 pulse per 1l or 10l.

code
2749035

Accessories

Remote digital display
Up to 4 water meters.

code
1749021

Remote digital display with reset

code
2749023

Free nut with sealing hole & gasket (sold by single piece)

Ø F	1/2"	3/4"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	2"3/8*
Ø M	3/8"	1/2"	3/4"	3/4"	1"	1"1/4	1"1/2	2"	2"
bore	-	15	15	20	25	30	40	50	50
pack	10	10	10	10	1	1	1	1	1
code	9811093	9811054	9811094	9811065	9811076	9811087	9811098	9811099	9811199

* sold by 2 pcs. For thermal energy meter, bore 50.

Positive displacement - Remote reading - Static pulse

* composite

Use: water distribution - Acc. to EN ISO 4064 & MID MI001 2014/32/EU - M-Bus transmission protocol - Pre-equipped for radio or wired M-Bus - Brass or composite body - Positive displacement rotary piston - Dry dial - Max. pressure: 16 bar - Cold water: max. 50°C - Q3/Q1: Ø15 to 32 = R400; Ø40 = R315 (approved R800) - Horizontal or vertical mounting.

Cold water - MID R400

	bore	Ø	length (mm)	Q3 (m³/h)	code
*	15	3/4"	110	2,5	2775115
	15	3/4"	110	2,5	2775215
	15	3/4"	170	2,5	2775015
	20	1"	190	4	2775020
	25	1"1/4	260	6,3	2775025
	32	1"1/2	260	10	2775032
	40	2"	300	16	2775040

Wireless M-Bus module radio

868 MHz.

bore	code
15-20	2749025
25-32-40	2749125

Remote receiver set

USB or Bluetooth connections.

code
2749024A

Arrow mobile radio software

code
2749014

Static inductive bidirectional pulser

1 pulse per 1l (bores 15 to 32),
1 pulse per 10l (bore 40).

bore	code
15-20	2749036
25-32-40	2749136

Wired M-Bus pulser

1 pulse per 1l (bores 15 to 32),
1 pulse per 10l (bore 40).

bore	code
15-20	2749033
25-32-40	2749133

M-Bus micromaster

Primary address setting.

code
1749016

Thermal energy meters

Single jet - Mechanical design

Domestic use - Acc. to EN1434 - Class 3 & MID 2014/32/EU - M-Bus transmission protocol - Bidirectional inductive transmission - microCLIMA electronic calculator - PT1000 temperature probes - 1,5 m external probe wire - Replaceable battery (10 year service) - All positions - Max. temperature: 90°C - Inlet or outlet circuit installation - Pre-equipped for external power supply - Probes mounting tee included.

		bore	Qp	length (mm)	heating code	cooling & heating code
Standard	*	15	1,5	110	2730915	-
		15	1,5	110	2730015	2731015
		20	2,5	130	2730020	2731020
2 pulse outlets	*	15	1,5	110	2730916	-
		15	1,5	110	2730016	2731016
		20	2,5	130	2730021	2731021
M-Bus	*	15	1,5	110	2730917	-
		15	1,5	110	2730017	2731017
		20	2,5	130	2730022	2731022

* non detachable housing.

Single jet - Ultrasonic design

Commercial use - Acc. to EN1434 - Class 2 & MID 2014/32/EU - M-Bus transmission protocol - Reverse flow & air detection - microCLIMA electronic calculator - PT1000 temperature probes - 1,5 m wire - Replaceable battery (10 year service) - All positions - Max. temperature: 90°C (130°C on request) - Inlet or outlet circuit installation - Probes mounting tee included.

	bore	Qp	length (mm)	heating code	cooling & heating code
Standard	15	1,5	110	2751015	2761015
	20	2,5	130	2751020	2761020
	20GD	3,5	130	2751120	2761120
	25	3,5	150	2751025	2761025
	25GD	6	150	2751125	2761125
	25GD	6	260	2751225	2761225
	40	10	200	2751040	2761040
	40	10	300	2751140	2761140
2 pulse outlets	15	1,5	110	2751016	2761016
	20	2,5	130	2751021	2761021
	20GD	3,5	130	2751121	2761121
	25	3,5	150	2751026	2761026
	25GD	6	150	2751126	2761126
	25GD	6	260	2751226	2761226
	40	10	200	2751046	2761046
	40	10	300	2751146	2761146
M-Bus	15	1,5	110	2751017	2761017
	20	2,5	130	2751022	2761022
	20GD	3,5	130	2751122	2761122
	25	3,5	150	2751027	2761027
	25GD	6	150	2751127	2761127
	25GD	6	260	2751227	2761227
	40	10	200	2751047	2761047
	40	10	300	2751147	2761147

Optical head

Programming modification & meter reading.

code
2749070

Multi jet

Collective use - Acc. to EN1434 - Class 3 & MID 2014/32/EU - M-Bus transmission protocol - Meter + calculator + probes + tees or fittings - Multi jet meter - microCLIMA electronic calculator - PT500 temperature probes - 3 m wire - Replaceable batteries (10 year service) - Horizontal mounting - Max. temperature: 90°C - Pre-equipped for external power supply.

	bore	tee	Qn	length (mm)	heating code	cooling & heating code
2 pulse outlets	15	1/2"	1,5	165	2744015	2745015
	20	3/4"	2,5	190	2744020	2745020
	25	1"	3,5	260	2744025	2745025
	25GD	1"	6	260	2744125	2745125
	32	1"1/4	6	260	2744032	2745032
	40	1"1/2	10	300	2744040	2745040
	50	2"	15	300	2744050	2745050
M-Bus with 3 pulse inlets	15	1/2"	1,5	165	2744016	2745016
	20	3/4"	2,5	190	2744021	2745021
	25	1"	3,5	260	2744026	2745026
	25GD	1"	6	260	2744126	2745126
	32	1"1/4	6	260	2744033	2745033
	40	1"1/2	10	300	2744041	2745041
	50	2"	15	300	2744051	2745051

Optical head

Programming modification & meter reading.

code
2749070

High flow - Woltman

Collective use - Acc. to EN1434 - Class 3 & MID 2014/32/EU - M-Bus transmission protocol - Meter + calculator + probes + fittings - Woltman meter - microCLIMA electronic calculator - PT500 temperature probes - 3 m wire - Replaceable batteries (10 year service) - All positions - Max. temperature: 130°C - Pre-equipped for external power supply.

	DN	Qn	length (mm)	heating code	cooling & heating code
2 pulse outlets	50	15	200	2746050	2747050
	65	25	200	2746065	2747065
	80	32	225	2746080	2747080
	100	60	250	2746100	2747100
	125	100	250	2746125	2747125
	150	150	300	2746150	2747150
	200	250	350	2746200	2747200
M-Bus with 3 pulse inlets	50	15	200	2746051	2747051
	65	25	200	2746066	2747066
	80	32	225	2746081	2747081
	100	60	250	2746101	2747101
	125	100	250	2746126	2747126
	150	150	300	2746151	2747151
	200	250	350	2746201	2747201

Optical head

Programming modification & meter reading.

code
2749070

Accessories

Valve with probe holder outlet

Ø	1/2"	3/4"	1"
code	9811004	9811005	9811006

Domestic water filtration

Solo & Duo BX filtration sets

Solo A - I
Anti-impurity. 3 pieces - 3/4" -
Includes: 1 filter Senior Single 3P - AFP - BX - AS, 1 cartridge RL 10 BX 50 µ, 1 wall support with screws, 1 key, 2 nipples MM 3/4", 1 spare gasket - Food quality & safety - Max. pressure: 4 bar - Optimal flow: 1600 l/h - Working temperature: +20°C.

code
491141

Solo A - C
Anti-calcareous - 3 pieces - 3/4" -
Includes: 1 filter 3 pieces 3/4" with proportional system, 1 polyphosphates cartridge HA 10 BX, 1 wall support with screws, 1 key, 2 nipples MM 3/4", 1 spare gasket - Food quality & safety - Max. pressure: 4 bar - Optimal flow: 1400 l/h - Mounting on cold water inlet only.

code
491646

Duo
3 pieces - 3/4". Includes:
1 filter Duplex 3/4" with proportional system, 1 cartridge RL 10 BX 50 µ, 1 polyphosphates cartridge HA 10 BX, 1 wall support with screws, 1 key, 2 nipples MM 3/4", 2 spare gaskets - Food quality & safety - Max. pressure: 4 bar - Optimal flow: 1400 l/h - Mounting on cold water inlet only.

code
491151

Spare BX cartridges

RL 10 BX - 50 µ
Food use -
Max. temperature: +40°C -
Optimal flow: 1600 l/h.

code
493822

HA 10 BX
Contains polyphosphate to eliminate calcareous deposit.

code
493834

Casing for BX cartridges

Food quality & safety - Max. temperature: +45°C at 2 bar - Working pressure: 4 bar at +20°C - Brass female inserts.

Senior Single 3P - AFO - BX
3 pieces - 3/4" -
For 10" BX cartridges.

code
491140

Senior Single 3P - BFO - BX
3 pieces - 1" -
For 10" BX cartridges.

code
491145

Senior Duplex 3P - AFO - BX
3 pieces - 3/4" -
For 10" BX cartridges.

code
491150

Senior Triplex 3P - AFO - BX
3 pieces - 3/4" -
For 10" BX cartridges.

code
491170

Master Single 3P - BFO - BX
3 pieces - 1" -
For 20" BX cartridges.

code
491155

Master Duplex 3P - AFO - BX
3 pieces - 3/4" -
For 20" BX cartridges.

code
491160

BX cartridges

Water & agressive liquids filtration - Polypropylene fiber on polypropylene support - Max. temperature: +40°C - Does not fit on 1"1/2 & 2" brass heads.

	height	optimal flow (l/h)	code
FA 10 BX - 1 to 3 µ	10"	1 000	493812
FA 10 BX - 5 µ			493813
FA 10 BX - 10 µ			493814
FA 10 BX - 25 µ			493815
Set 3 FA 10 BX - 25 µ			493461
FA 10 BX - 50 µ			493816
FA 10 BX - 100 µ			493817
FA 20 BX - 5 µ	20"	2 000	493818
FA 20 BX - 25 µ			493819
FA 20 BX - 50 µ			493820
FA 20 BX - 100 µ			493821

Food use - ACS agreement - Water filtration - Washable - Polyester net on polypropylene support - Max. temperature: +40°C.

	height	optimal flow (l/h)	code
RL 10 BX - 50 µ	10"	2 500	493822
RL 20 BX - 50 µ	20"	4 000	493823

Food use - ACS agreement - Water & agressive liquids filtration - Washable - Polypropylene pleaded fabric on polypropylene support - Max. temperature: +40°C.

	height	optimal flow (l/h)	code
RS 10 BX - 50 µ	10"	2 500	493826
RS 20 BX - 50 µ	20"	4 000	493827

Container filled with polyphosphate - Cold water (max. +20°C) - Do not fit on 1"1/2 & 2" brass heads.

	height	optimal flow (l/h)	code
HA 10 BX	10"	1 500	493834
HA 20 BX	20"	2 800	493835

	code
Set 2 FA 10 BX + 1 HA 10 BX	493451

Food use - Water & agressive liquids filtration - Washable - Stainless steel 304 pleaded fabric on polypropylene support - Max. temperature: +40°C.

	height	optimal flow (l/h)	code
SA 10C BX - 50 µ	10"	3 000	493830
SA 20C BX - 50 µ	20"	4 500	493831

Food use - Drinkable water filtration - Ceramic cartridge - Very thin filtration & bacterias / micro-organisms elimination - Working temperature: +35°C.

	height	optimal flow (l/h)	code
AB 10 BX - 0,45 µ	10"	300	493798

Food use - Water with chemical products filtration - Activated carbon & polyester fiber.

	height	optimal flow (l/h)	code
CA 10 BX - 25 µ	10"	600	493836
CA 20 BX - 25 µ	20"	1 200	493837

Polyphosphate doses for calcareous water filtration

Dosal
Uses 3 to 5 g polyphosphate per m³ - Fittings F 3/4" - M 3/4" - 150 g polyphosphate - Max. pressure: 4 bar at +20°C - Mounting on cold water inlet.

code
491630

Dosadrop Mignon L 3P
Mounting on cold water inlet (+20°C) - Anti-calcareous - Proportional dosing - Food use - Max. pressure: 4 bar - Fitting F 1/2".

code
491637

HA - M - SX
Cartridge for Dosadrop Mignon L 3P

code
493799

Polyphosphate

	code
25 kg	494250
1,5 kg	494015

pH test

code
494010

Filters accessories

		code
L key	For Mignon 3 P	494300
U key	For 2 P & 3 P filters	494317

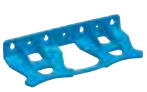
By-pass 3/4" for Duplex, Biplex & Duo

code
494350

Brass nipples with o-ring
(sold by 2)

	code
MM 3/4"	938080
MM 1"	938081

Single filter wall support
Screws included



Duplex filter wall support
Screws included

code
494325
494330

Triplex filter wall support
Screws included

code
494332

Biplex SX filtration set

Includes: 1 filter Senior Duplex 3/4" with proportional system, 1 cartridge FA 10 SX 25 µ, 1 cartridge HA 10 SX, 1 wall support with screws, 1 key - Food quality & safety - Max. pressure: 4 bar - Optimal flow: 1400 l/h - Mounting on cold water inlet only (max. +20°C).

	code
Biplex SX 3/4"	491161

Casing for SX cartridges

Food quality & safety - Max. temperature: +45°C at 2 bar - Max. pressure: 4 bar at +20°C - Brass female inserts.

Mignon Single S - 3P - MFO
3 pieces - 1/2" -
For 5" SX cartridges.

code
491101

Junior Single 3P - AFO - SX
3 pieces - 3/4" -
For 7" SX cartridges.

code
491113

Senior HOT 3P - AFP - SX
3 pieces - 3/4" -
Special hot water up to 80°C -
For FA 10 HOT & CPP 110 cartridges.

code
491121

Senior Single 3P - AFO - SX
3 pieces - 3/4" -
For 10" SX cartridges.

code
491120

Senior Single 3P - BFO - SX
3 pieces - 1" -
For 10" SX cartridges.

code
491125

Senior Duplex 3P - AFO - SX
3 pieces - 3/4" -
For 10" SX cartridges.

code
491135

Senior Triplex 3P - AFO - SX
3 pieces - 3/4" -
For 10" SX cartridges.

code
491180

SX cartridges

Water & agressive liquids filtration - Polypropylene.

Max. temperature: +40°C	height	optimal flow (l/h)	code
FA Mignon SX - 5 µ	5"	500	493800
FA Mignon SX - 25 µ	5"	500	493801
FA 7 SX - 5 µ	7"	1 400	493802
FA 7 SX - 25 µ	7"	1 400	493803
FA 10 SX - 1 to 3 µ	10"	2 000	493902
FA 10 SX - 5 µ	10"	2 000	493804
FA 10 SX - 10 µ	10"	2 000	493839
FA 10 SX - 25 µ	10"	2 000	493805
***Set 3 FA 10 SX - 25 µ**	10"	2 000	493460

Max. temperature: +80°C

FA 10 HOT SX - 25 µ	10"	2 000	493951

Potable water filtration & reversed osmose systems pre-filtration - ACS agreement - Polypropylene - Max. temperature: +80°C.

	height	optimal flow (l/h)	code
CPP 110 SX - 1 µ	10"	2 000	493760
CPP 110 SX - 5 µ	10"	2 000	493761
CPP 110 SX - 25 µ	10"	2 000	493763

	code
Set 2 FA 10 SX + 1 HA SX	493450

Food use - Water with chemical products filtration - Activated carbon & polyester fiber.

	height	optimal flow (l/h)	code
CA 10 SX - 25 µ	10"	600	493806

Food use - ACS agreement - Washable - Pleaded polyester fabric - Especially used for swimming pools - Usable for air filtration - Max. temperature: +40°C.

	height	optimal flow (l/h)	code
TS 10 SX - 50 µ	10"	2 500	493807

Food use - ACS agreement - Washable - Polyester net - Max. temperature: +40°C.

	height	optimal flow (l/h)	code
RL 10 SX - 50 µ	10"	2 500	493808

Container filled with polyphosphate - For 10" filters - Cold water (max. +20°C).

	height	optimal flow (l/h)	code
HA 10 SX	10"	1 500	493811

Hydra manual self-cleaning filters

Upstream cleaning by draining valve opening - Stainless steel 316 RAH cartridge (90 µ filtration) - Min. pressure: 1 bar; max. pressure: 8 bar - Max. temperature: 45°C - Includes bracket & key.

	max. flow (l/h)	recommended flow (l/h)	code
Hydra 3/4"	5 000	2 500	491801
Hydra 1"	6 000	4 000	491802
Hydra 1"1/4	8 000	6 000	491803
Hydra 1"1/2	10 000	8 000	491804

Anti-calcareous - 3/4" manual self-cleaning filter with stainless steel 316 RAH cartridge (90 µ filtration), 3/4" polyphosphate HA 10 SX cartridge, bracket & key.

	max. flow (l/h)	code
Hydra Duo 3/4" HA	2 500	491810

Activated carbon - 3/4" manual self-cleaning filter with stainless steel 316 RAH cartridge (90 µ filtration), 3/4" activated carbon LA 10 SX cartridge, bracket & key.

	max. flow (l/h)	code
Hydra Duo 3/4" LA	2 500	491811

For Hydra filters self-cleaning automation - Includes 230V digital programmer, 24V outlet in housing supplied with 1,8 m cable, normalised plug, 1 m cable for coil connection, bronze solenoid valve with 1/2" connection, 24V coil - 2h to 99h backwash programmation, 5 to 99s backwash duration - Max. pressure: 8 bar.

	code
Automatism set	494345

Cartridge	code
RAH 90 µ	494000
RSH 50 µ	494005JE
HA 10 SX	493811
LA 10 SX	493739
Set FA 10 SX 25µ + CB	493465

Domestic water filtration

Manual self-cleaning filters

Straight fitting - FF 1"1/4 or MM 1" - Discharge valve - Max. pressure: 16 bar.

	code
Smile 1"1/4	491535

Reinforced polyamide head & fittings - Easy opening quick fitting - 89 µ stainless steel cartridge - 360° rotation head - Max flow: 14 m³/h - Max. temperature: 40°C - Max. pressure: 16 bar.

	code
Pico 3/4"	491510
Pico 1"	491520
Pico 1"1/4	491530

Reinforced polyamide head & fittings - Easy opening quick fitting - 89 µ stainless steel cartridge - Backwash cartridge cleaning command - 360° rotation head - Max flow: 14 m³/h - Max. temperature: 40°C - Max. pressure: 16 bar.

	code
Dido 3/4"	491410
Dido 1"	491420
Dido 1"1/4	491430
Dido 1"1/2	491440
Dido 2"	491450

Liquids filtration

Complete filters - Smart line - Domestic use

Max. temperature: +50°C - Max. pressure: 8 bar - Includes 1 filter 25 µ or filled CTN cartridge, bracket & key.

	flow (l/h) for Δp = 0,2 bar	code
SL 240 3/4"	3 000	506010JE
SL 240 1"	3 500	506011

	flow (l/h) for Δp = 0,2 bar	code
SL 240 TE-CTN 3/4"	500	506015JE
SL 240 TE-CTN 1"	500	506016JE

Complete filters - Domestic use

Max. temperature: +50°C - Max. pressure: 10 bar - Includes 1 filter 25 µ - NW 25/32: includes union fitting & key.

	flow (l/h) for Δp = 0,2 bar	code
NW 18 3/4"	3 500	506018JE

	flow (l/h) for Δp = 0,2 bar	code
NW 25 3/4"	5 500	506025
NW 25 1"	5 500	506026

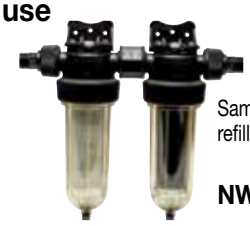
	flow (l/h) for Δp = 0,2 bar	code
NW 32 1"1/4	6 500	506032

Double function filters - Domestic use

25 µ mechanical filtration & water treatment with refillable cartridge (activated carbon or polyphosphates) - Use filter sleeves for NW 25 - Includes empty CTN cartridge, 2 fittings 3/4" & 2 fittings 1".

	code
TIO 1"	506027

	code
CTN cartridge filled with actived carbon	493960
Empty CTN cartridge	493961



Same as NW 25 DUO, except supplied with CTN refillable empty cartridge.

	code
NW 25 DUO-CTN	506091

	code
Activated carbon	506700
3,4 l - For 60 m³ water.	

Complete filters - Industry

Protection of the installations with filtration of water suspension solid particles - Concentration of the biggest particles in the bottom end thanks to the centrifugal propeller - Easy replacement of the filter sleeve - High constant flow - Low loss factor: 0,2 bar - Max. temperature: +50°C - Pressure use: 10 bar - Includes 25 µ filter sleeve, 2 glycerine filled manometers & drain cock valve.

	flow (l/h) for Δp = 0,2 bar	code
NW 280 1"	7 500	506190
NW 340 1"1/4	8 500	506191
NW 400 1"1/2	12 000	506192

	flow (l/h) for Δp = 0,2 bar	code
NW 500 2"	18 000	506151

	flow (l/h) for Δp = 0,2 bar	code
NW 650 2"1/2	25 000	506163
NW 800 3"	32 000	506176

Filters with water treatment device

	code
NW 32 TE 1"1/4 1 700 l, supplied empty.	506085
NW 500 TE 2" 4 850 l, supplied empty.	506187
NW 25 TE-CTN 1" Supplied with CTN empty cartridge.	506081

Wall brackets

	code
Single For NW 18/25/32 & TIO.	506597

	code
Single	
For NW 280/340/400.	506595
For NW 500/650/800.	506596

	code
Double For NW 25/32.	506599

Filter sleeves (sold by 5)

Filtration	For NW 18 code	For NW 25, TIO & SL240 code	For NW 32 code	For NW 500/650/800 & NW 50/62/75 code	For NW 280 code	For NW 340 code	For NW 400 code
1 µ	-	506108	506109	506119	506200	506210	506220
5 µ	506096	506100	506110	506120	506201	506211	506221
10 µ	506097	506101	506111	506121	506202	506212	506222
25 µ	506098	506102	506112	506122	506203	506213	506223
50 µ	506095	506104	506114	506124	506204	506214	506224
100 µ	506099	506103	506113	506123	506205	506215	506225
150 µ nylon	-	506105	506115	506125	506206	506216	506226
300 µ nylon	-	506107	506118	506300	506207	506217	506227

UV filters

UV 25 or 40 Watts lamp set - Max. flow: 2000 l/h - Max. pressure: 10 bar - Max. water temperature: +50°C - 2 3/4" fittings for inlet & 2 1" fittings for outlet. ⚠ Mandatory: the lamp has to be changed once a year.

Mono-UV 25 W
Mono-UV 40 W

code
498210
498209

Trio-UV 25 W
Trio-UV 40 W

Includes CTN cartridge filled with activated carbon - Filtration, purification& sterilisation.

code
498212
498213

Duo-UV

Includes 1 filter NW25 (25 µ).

code
498211

5° rotation to take out & replace the UV lamp

	code
25 W lamp set	937748
40 W lamp set	937749
Quartz housing	937753

Domestic water filtration & disinfection

UV devices

Domestic water & rain water filtration & disinfection - Electronic control panel with digital display, control lamp & sound alarm - Easy installation - Pressure: 4 bar at 20°C - 230V (50 Hz or 60 Hz) - Connections FF 3/4" - Wall support. ⚠ Mandatory: the lamp has to be changed once a year.

Germi Ultra 500E

Duplex BX 3P 3/4" with cartridge FA 10 BX 25 µ, UV lamp 11 W - Average filtered flow 800 l/h.

code
498001

Quartz housing

code
937723

Germi Ultra 1000E

Master Duplex BX 3P 3/4" with cartridge FA 10 BX 25 µ, UV lamp 25 W - Average filtered flow 2 300 l/h.

code
498005

Quartz housing

code
937724

Maintenance set

code
937890

Sea water & wastewater disinfection & purification

UV devices

Installation in wet areas with agressive atmosphere - Compatible with sea water & its applications - Compatible with wastewater & autonomous sewerage network for reuse in irrigation. ⚠ Mandatory: the lamp has to changed once a year.

Germi Reuse 60 W

Electronic control panel with lamp operation indicator light, fault indicator & sound alarm - UV lamp 60 W - Max. flow 3 m³/h - PS: 8 bar - Electric connection 230V 50/60 Hz - PEHD processing chamber - Ø inlet DN25, Ø outlet PVC32 - Dimensions (mm): 204 x 75 x 54 - IP68 - Horizontal installation - Includes clamps for wall mounting.

code
498030

Germi Reuse Power 95 W

Electronic control panel with lamp operation indicator light, fault indicator & sound alarm - UV lamp 95 W - Max. flow 6 m³/h - PS: 8 bar - Electric connection 230V 50/60 Hz - PEHD processing chamber - Ø inlet DN40, Ø outlet PVC50 - Dimensions (mm): 204 x 75 x 54 - IP68 - Horizontal installation - Includes clamps for wall mounting.

code
498031

Accessories

	code
UV lamp 60 W	937721
UV lamp 95 W	937700

	code
Quartz housing	937702

	code
Tightness fitting	937811

	code
NBR o-ring	937810

Outdoor water filtration

Complete lamella filters

For irrigation, industrial applications, wastewater recycling, sea water, network protection - Reinforced nylon or fiberglass plastic body - Stainless steel fastener, spring & clamp - Polypropylene lamellas - Max. pressure: 10 bar at 20°C - Max. flow for head loss 0.2 bar with clean filter & clean water - Max. fluid temperature: 80°C.

3/4" 1"

1"1/2 short

	max. flow (m³/h)	filtration	code
3/4" red	3	130 µ	481010
3/4" yellow	4	200 µ	481015
1" red	5	130 µ	481020
1" yellow	6	200 µ	481025
1"1/2 red short	8	130 µ	481030
1"1/2 yellow short	8	200 µ	481035

1"1/2 long

2" leader

	max. flow (m³/h)	filtration	code
1"1/2 red long	9	130 µ	481040
1"1/2 yellow long	10	200 µ	481045
2" red leader	25	130 µ	481071
2" yellow leader	25	200 µ	481076

Accessories

3/4" to 1"1/2 2" leader

Cartridges

	filtration 130 µ	filtration 200 µ
	code	code
3/4"	485050	485055
1" & 1"1/2 short	485060	485065
1"1/2 long	485070	485075
2" leader	485110	485115

	code
Cover gasket 3/4"	485000
Cover gasket 1" & 1"1/2	485005JE
Cover gasket 2"	485014
Wrench for filter 1 & 1"1/2	484999

Taps

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What's new!

Design

p. 436

Design

p. 437

Design

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Spare parts

p. 442

NEW Madi+

Articulated handshower

- "Coin slot" aerator
- Ceramic cartridge Ø 35 mm
- Height under nozzle 270 mm
- Total height 395 mm

	code
Black	MPL13FLEXNE

Tubig

Flexible hose high rise mixer

- 1-jet flexible hose
- Silicone sheath, metal for TUB13C
- Ceramic cartridge Ø 25 mm
- Height under nozzle 237 to 254 mm
- Total height 468 to 482 mm

	code
Chrome	TUB13C
Grey	TUB13W
Red	TUB13R
Green	TUB13A
White	TUB13B
Black	TUB13N

Danum

Pull-out hose high rise mixer

- Flexible 2-jet handshower
- Ceramic cartridge Ø 35 mm
- Height under nozzle 180 mm
- Total height 395 mm

	code
Chrome	DAN14

Kome

High rise mixer

- Total black look
- Ceramic cartridge Ø 35 mm
- Height under nozzle 281 mm
- Total height 354 mm

	code
Black	KOM3N

Telo

Pull-out hose high rise mixer

- 1-jet pull-out handshower
- Ceramic cartridge Ø 35 mm
- Height under nozzle 210 mm
- Total height 392 mm

	code
Chrome	TEL11

High rise mixer

- Total black look
- Ceramic cartridge Ø 35 mm
- Height under nozzle 214 mm
- Total height 334 mm

	code
Black	KOM2N

NEW Pact

Basin mixer

- Ceramic cartridge Ø 35 mm
- High under nozzle 9 cm
- Total height 15 cm

	code
Black	PACT15N

Thermostatic shower mixer

- Thermostatic cartridge
- Ceramic head
- "Cold" body
- Center distance 150±20 mm

	code
Black	PACT50N

High rise basin mixer

- Ceramic cartridge Ø 35 mm
- Height under nozzle 22 mm
- Total height 28 mm

	code
Black	PACT17N

Thermostatic bath/shower mixer

- Thermostatic cartridge
- Ceramic head
- "Cold" body
- Ceramic change-over on handle
- Center distance 150±20 mm

	code
Black	PACT55N

Basin built-in system

- Mechanical
- Ceramic cartridge Ø 35 mm
- Hose length 171 mm
- Flush-mounted box (depth 60 to 72 mm)

	code
Black	PACT155N

Mechanical shower set

- Metal shower spray Ø 250 mm
- PVC flexible 150 cm
- 3-jet shower
- Mechanical change-over
- Adjustable pipe

	code
Black	PACT100N

Thermostatic shower set

- Metal shower spray Ø 250 mm
- PVC flexible 150 cm
- 3-jet shower
- Ceramic change-over on handle
- Adjustable pipe

	code
Black	PACT250N

2-way mechanical built-in system

- Change-over on deck
- Flush-mounted box (depth 69 to 82 mm)

	code
Black	PACT60N

2-way thermostatic shower set

- Change-over on deck
- Flush-mounted box (depth 73 to 85 mm)

	code
Black	PACT80N

NEW Dour +

Basin mixer

- Ceramic cartridge Ø 25 mm
- Brass "pop-up" drain
- Height under nozzle 105 mm
- Total height 158 mm

	code
Chrome	DOU14
Black	DOU14N
Brass	DOU14L

High rise basin mixer

- Ceramic cartridge Ø 25 mm
- Brass "pop-up" drain
- Height under nozzle 245 mm
- Total height 298 mm

	code
Chrome	DOU17
Black	DOU17N
Brass	DOU17L

Shower mixer

- Ceramic cartridge Ø 25 mm
- Center distance 150±20 mm

	code
Chrome	DOU21
Black	DOU21N
Brass	DOU21L

Bath/shower mixer

- Ceramic cartridge Ø 25 mm
- Center distance 150±20 mm

	code
Chrome	DOU31
Black	DOU31N
Brass	DOU31L

Dilo

DIL17

DIL16

DIL15

Basin mixer

- Ceramic cartridge Ø 35 mm
- ABS "pop-up" drain
- Height under nozzle 97,140 & 236 mm
- Total height 146, 185 & 288 mm

		code
Chrome	Small	DIL15
	Medium	DIL16
	High	DIL17

Shower mixer

- Ceramic cartridge Ø 35 mm
- Center distance 150±20 mm

	code
Chrome	DIL20

Bath/shower mixer

- Ceramic cartridge Ø 35 mm
- Center distance 150±20 mm
- Manual semi-automatic change-over

	code
Chrome	DIL30

Madi +

Mixer

- Ceramic cartridge Ø 35 mm
- Metal base Ø 43 mm
- 2-jet hose
- Height under nozzle 118 mm
- Total height 172 mm

	code
Chrome	MPL11

Basin mixer

- Ceramic cartridge Ø 35 mm
- Metal base Ø 43 mm
- ABS "pop-up" drain
- Height under nozzle 64 mm
- Total height 137 mm

	code
Chrome	MPL15

High rise mixer

- Ceramic cartridge Ø 35 mm
- Metal base Ø 43 mm
- Height under nozzle 281 mm
- Total height 354 mm

	code
Chrome	MPL13

Shower mixer

- Ceramic cartridge Ø 35 mm
- Center distance 150±20 mm

	code
Chrome	MPL20

Bath/shower mixer

- Ceramic cartridge Ø 35 mm
- Center distance 150±20 mm
- Manual change-over

	code
Chrome	MPL30

Mixer

- Ceramic cartridge Ø 35 mm
- Metal base Ø 43 mm
- Height under nozzle 130 mm
- Total height 145 mm

	code
Chrome	MPL10

Bath/shower monohole mixer

- Ceramic cartridge Ø 40 mm
- Manual change-over

	code
Chrome	MAA32

Wata +

Thermostatic shower mixer

- Ceramic cartridge
- Thermostatic cartridge
- ABS crosspieces
- "Cold" body
- Flow limiter
- Scalding protection
- Center distance 150±20 mm

	code
Chrome	WPL50

Thermostatic bath/shower mixer

- Ceramic cartridge
- Thermostatic cartridge
- ABS crosspieces
- "Cold" body
- Manual ceramic change-over
- Scalding protection
- Center distance 150±20 mm

	code
Chrome	WPL55

Mizu

Thermostatic shower mixer

- Ceramic cartridge
- Thermostatic cartridge
- ABS crosspieces
- Flow limiter
- Scalding protection
- Center distance 150±20 mm

	code
Chrome	MIZ50

Thermostatic bath/shower mixer

- Ceramic cartridge/change-over
- Thermostatic cartridge
- ABS crosspieces
- Manual change-over
- Flow limiter
- Scalding protection
- Center distance 150±20 mm

	code
Chrome	MIZ55

Thermostatic shower set

- Mechanical shower mixer
- Ceramic cartridge
- Metal handle
- ABS shower head Ø 207 mm
- 3-jet ABS shower
- Chrome plated flexible 150 cm
- Chrome plated adjustable & sliding pipe 82 to 137 cm

	code
Chrome	MIZ15

Thermostatic shower set

- Mechanical shower mixer
- Ceramic cartridge
- Metal handle
- ABS adjustable shower head Ø 220 mm
- 2-jet ABS shower
- "Cold" body
- Chrome plated flexible 150 cm
- Chrome plated pipe 135 cm

	code
Chrome	MIZ22

Utility

Sensor basin mixer

- Monofluid
- 4AA battery waterproof housing
- Safety: automatic shut-off 60s

	code
Chrome	VAT72IR

Basin mixer

- Shock absorbing long handle
- Ceramic cartridge Ø 35 mm
- Height under nozzle 102 mm

	code
Chrome	ABB80PMR

Mixer

- Shock absorbing long handle
- Ceramic cartridge Ø 35 mm
- Adjustable nozzle
- Height under nozzle 140 mm

	code
Chrome	ABB82PMR

Basin taps

- Monofluid
- Temporisation 15 s
- Flow limiter 6l/mn

	code
Chrome	WET80TMP

- Monofluid
- Temporisation 15 s
- Flow limiter 6l/mn

	code
Chrome	WET82TMP

Basin tap & mixer

- Monofluid
- Temporisation 15 s
- Flow limiter 6l/mn

	code
Chrome	WET84TMP

Budget

Mandatory packing applies

Mandatory packing: as indicated below.

Sink mixer

- Checks head • ABS handles

pack	code
10	3456630013069

Basin mixer

- Checks head • ABS handles
- ABS "pop-up" drain

pack	code
10	3456630013106

Shower mixer

- Checks head • ABS handles
- Center distance 150 ± 15 mm

pack	code
6	3456630013120

Bath/shower mixer

- Checks head • ABS handles
- Center distance 150 ± 15 mm

pack	code
6	3456630013113

Shower thermostatic mixer

- 1/4 turn heads • Scalding protection
- Center distance 150 ± 15 mm

pack	code
10	3456630013045

Bidet mixer

- Adjustable aerator • Projection 96 mm

pack	code
10	3456630013311

Sink mixer

- Cartridge Ø 35 • Body Ø 40

pack	code
10	3456630013076

Basin mixer

- Cartridge Ø 35 • Body Ø 40
- ABS "pop-up" drain

pack	code
6	3456630013137

Shower mixer

- Cartridge Ø 35 • Body Ø 40
- Center distance 150 ± 15 mm

pack	code
6	3456630013151

Bath/shower mixer

- Cartridge Ø 35 • Body Ø 40
- Center distance 150 ± 15 mm

pack	code
6	3456630013144

Bath/shower thermostatic mixer

- 1/2 turn ceramic heads
- Thermostatic cartridge with scalding protection
- Center distance 150 ± 15 mm

pack	code
10	3456630013052

Flexible hose

- PVC • Length 150 cm
- Antitwist • Flow limiter 9l/mn

code
UDE10FLA

Flexible hose

- Chrome • Double interlocking
- Length 150 cm

code
UDE15FLA

Flexible hose

- Chrome • Double interlocking
- Length 175 cm

code
UDE17FLA

NEW

Flexible hose

- Black • Anti-twist
- Length 175 cm

code
AGH25FLANE

Shower set

- Spray: chrome plated stainless steel, 1 normal jet, Ø 84 mm, anti-calcareous
- Flexible: chrome plated/black, PVC, length 150 cm, antitwist, flow limiter 9l/mn
- Bar: chrome plated stainless steel, usable length 50 cm, 2 steady points, Ø 19 mm

code
UDE150BA

Shower set

- Spray: chrome plated stainless steel, 1 normal jet, Ø 84 mm, anti-calcareous
- Flexible: chrome plated stainless steel, double interlocking, lenght 175 cm,
- Bar: chrome plated stainless steel, usable length 47 cm, 1 steady point, 1 adjustabe point, Ø 25 mm

code
UDE175BA

Shower set

- Spray: chrome plated stainless steel, rain jet, massage jet, Ø 84 mm, anti-calcareous
- Flexible: chrome plated, double interlocking, length 175 cm
- Bar: chrome plated stainless steel, usable length 47 cm, 1 steady point, 1 adjustabe point, Ø 25 mm

code
AGH175BA

Shower spray

- White ABS • Normal jet
- Ø 65 mm • Anti-calcareous

code
UDE100DO

Shower spray

- Chrome ABS • Normal jet
- Ø 84 mm • Anti-calcareous

code
UDE180DO

Shower spray

- Chrome ABS • Normal jet & rain jet
- Ø 84 mm • Anti-calcareous

code
UDE380DO

NEW

Shower spray

- Black ABS • Normal jet
- Ø 100 mm

code
UDE204DO

Aerator

- Anti-calcareous

	code
M 18/100	AERT0
F 22/100	AERT1
M 24/100	AERT2
M 28/100	AERT3

Aerator

- Flow 6l/mm • Flow limiter

	code
F 22/100	AERTECO1
M 24/100	AERTECO2

Universal push-open basin waste

- Chrome plated brass extension M 33/42, length 120 mm, Ø 30 mm, for sink with overflow Ø 30 to Ø 40 mm

BOND1 BOND2

	code
with overflow	BOND1
without overflow	BOND2

Pillar unions

- Height 70 mm

	code
MM 15/21 - 20/27	COLONLUX

Pumps & garden

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What's new!

Rainwater collecting sets

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Grinder dirty water pump

p. 482

Swimming pool pipe

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Swimming pool filtration

p. 465

ABS plastic quick fittings

blister packaging

Individual packing

Clic connect

Standard male connector 15 mm - Non-mandatory packing (indicative purpose).

Adaptor for nozzle valve
For Ø 15 to 17 mm nozzle

pack	code
5	295301

Coupling

pack	code
18	295901

Valve nozzle
F1/2"-3/4"
F3/4"-1"

pack	code
18	295251
14	295261

Female coupling
For pipe Ø 15 mm
For pipe Ø 19 mm

pack	code
14	295501
14	295511

Female coupling with aquastop
For pipe Ø 15 mm
For pipe Ø 19 mm

pack	code
14	295601
14	295611

2 way valve nozzle
w/ shut-off valves F3/4"

pack	code
16	295921

3 way selector

pack	code
3	295211

3 way metal selector

pack	code
3	291441

MINUT'O
Timer - 0 to 120 min

pack	code
12	006041

TEMP'O 12
Programmable timer - 12 pre-set programms + solenoid valve + 2 AA batteries

pack	code
15	006051

8 position sprinkler

pack	code
6	298701

3 arm sprinkler

pack	code
6	298711

Male coupling
M3/4"

pack	code
18	295451

3 way junction

pack	code
18	295911

Nipple
Ø 15 mm
Ø 19 mm

pack	code
18	295701
14	295711

Male coupling
M3/4"

pack	code
14	295111

Fittings set
Includes: 1 valve nozzle F3/4"-1" + 1 quick fitting + 1 aquastop quick fitting

For pipe Ø 15 mm
For pipe Ø 19 mm

pack	code
16	295001
16	295011

Multijet water-hose nozzle

pack	code
16	298301

Multijet water-hose nozzle
Includes: 1 value nozzle F1/2"-3/4" + 1 quick fitting + 1 aquastop quick fitting

For pipe Ø 15 mm
For pipe Ø 19 mm

pack	code
16	298311
16	298321

BASIC'O jet
2 jet spray gun

pack	code
16	298401

BASIC'O multi
9 jet spray gun

pack	code
10	298411

Spray gun set
Includes: 1 valve nozzle F1/2"-3/4" + 1 quick fitting + 1 aquastop quick fitting

For pipe Ø 15 mm
For pipe Ø 19 mm

pack	code
12	298351
12	298361

Watering box, see page 340

POUSSE'O jet
2 jet spray gun

x 2

pack	code
10	300001

POUSSE'O multi
8 jet spray gun

x 8

pack	code
10	300011

POUSSE'O ergo
8 jet spray gun

x 8

pack	code
10	300111

TERRASS'O
Hose with reel
10 m

pack	code
12	006611

COMPACT'O
Wall automatic reel
20 m
30 m

pack	code
-	006021
-	006031

METALE'O jet
Metal 2 jet spray gun

x 2

pack	code
12	299001

METALE'O multi
Metal 8 jet spray gun

x 8

pack	code
10	299011

TELESCOP'O
6 jet spray telescopic gun 70 to 105 cm

pack	code
5	298531

Wall PVC hose rack
25 m - Ø 15 pipe

pack	code
10	006011

Wall metal hose rack
25 m - Ø 15 pipe

pack	code
6	006111

High flow

For pipe Ø 25 mm - Male connector 27 mm - Non-mandatory packing (indicative purpose).

Quick fitting

pack	code
3	295801

Adapter
M1"

pack	code
3	295291

Pipe connection

pack	code
3	295821

Coupling

pack	code
3	295841

Repairing element

pack	code
3	295831

3 way junction

pack	code
3	295851

Watering hose

pack	code
3	295861

Fitting set

pack	code
12	295891

For pipe Ø 19 mm - Male connector 22 mm - Non-mandatory packing (indicative purpose).

Quick fitting

pack	code
3	295811

Valve nozzle
F1" + reducer F3/4"

pack	code
3	295271

Elbow fitting set

pack	code
-	263001

Fitting set

pack	code
12	295881

Brass fluted fittings

blister packaging

2 piece hose nozzle captive gasket

Ø	1/2"-13	3/4"-15	3/4"-19	1"-19	1"-25	1"1/4-30
code	290401	290501	290511	290611	290621	290731

Male fitting

Ø	1/2"-13	3/4"-15	3/4"-19	1"-25	1"1/4-30
code	293401	293501	293511	293621	293731

3 piece captive gasket

Ø	1/2"-13	3/4"-15	3/4"-19	1"-25	1"1/4-30
code	292401	292501	292511	292621	292731

Hose nozzle

Ø	1"1/2-15	3/4"-20	1"-25	1"1/4-30
code	263141	263151	263161	263171

2 piece elbow

Ø	3/4"-15	1"-19
code	290001	290011

Spare gaskets (sold by 10)

Ø	1/2"-13	3/4"-15	3/4"-19	1"-19	1"-25	1"1/4-30
code	290139	290159	290199	290209	290259	290309

Nipple

Ø	15	19	25
code	294001	294011	294021

Elbow free nut

Ø	1/2"-13 to 15	3/4"-15 to 19
code	290101	290201

Tee

Ø	15	19
code	296001	296011

Water-hose nozzle

Ø	15	19
code	298001	298021

Y junction

F3/4" - M3/4"

code
297551

Y junction w/shut-off valves

F3/4" - M3/4"

code
297001

Brass quick fittings

blister packaging

Compatible with ABS plastic quick fittings (page 436 & 437).

Coupling

Ø	15	19
code	291101	291111

Coupling stop pipe

Ø	15	19
code	291201	291211

Hose coupling nipple

Ø	15	19
code	291301	291311

Adaptor male

Ø	3/4"
code	291021

Elbow free nut

Ø	1/2"	3/4"
code	291241	291251

Nipple

Ø	15	19
code	291131	291231

Adaptor female

Ø	1/2"	3/4"	1"
code	291041	291051	291061

Double connection

code
291401

Water-hose nozzle

code
291421

Y junction

code
291411

Y junction shut-off valves

F3/4"

code
291431

Spare gaskets

(sold by 10)

code
291009

Plastic couplings

Mandatory packing applies

Mandatory packing: 4 pcs.

blister packaging

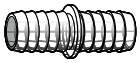
Fluted straight

	code
M1" - Fluted M20/25/19	262131
F1" - Fluted M30/25 - With gasket	262091
M1"1/4	262481
F1"1/4 - MM1"1/4 - Fluted M25	262141
F1"1/4 - Fluted M35/25	261071
F1"1/4 - Fluted M38/25	261021
M1"1/2 - Fluted M50/40 - With gasket	261081
F1"1/2 - Fluted M24/32/40 - Free nut - With gasket	261171
M2" - Fluted M50	262511
F2" - Fluted M50	262491

Fluted elbow

	code
M1"	262471
F1" - Fluted M25	261011
M1"1/4 - Fluted M25 - With gasket	262151
M1"1/4 - Fluted M30 - With gasket	262161
M1"1/4 - Fluted M25/30 - Dismountable	262031
F1"1/4 - Fluted M30 - Free nut - With gasket	261191
M1"1/2 - Fluted M25/38	261051
F1"1/2 - Fluted M40 - Free nut - With gasket	261181
M2" - Fluted M50	262501

Fluted socket



	code
1/2" - 1/2"	261361
3/4" - 3/4"	261371
1" - 1"	261381
1"1/2 - 1"1/2	261391

Threaded elbow male/female

	code
MF1"	262111
M1"1/4 - F1"	262101
MF1"1/2	262121

Threaded elbow male/male

	code
M1"1/4 - M1"	262171

Threaded nipple male/female

	code
M3/4" - F1"	261121
M1" - F3/4"	261101
M1" - F1"1/4	261131
M1" - F1"1/2	261141
M1"1/4 - F1"	261111
M1"1/4 - F1"1/2	261151
M1"1/2 - F1"1/4	261161

Threaded nipple male/male

	code
M1" - M1/2"	262661
M1" - M3/4"	262681
MM1"	262061
M1"1/4 - M3/4"	262671
MM1"1/4	262071
M1"1/2 - M1"1/4	262691
MM1"1/2	262081
M2" - M1"1/2	262701

Threaded nipple female/female

	code
FF3/4"	262011DI
FF1"	262021
FF1"1/4	262031
FF1"1/2	262041

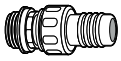
Check valve

	code
MM1"	262461
FM1"	262561

Polyamide couplings

blister packaging

Fluted union male straight

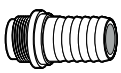


	code
M1" - Fluted M25	264001
M1"1/4 - Fluted M30	264011
M1"1/2 - Fluted M40	264021

Fluted union male elbow

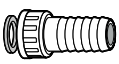
	code
M1" - Fluted M25	264201
M1"1/4 - Fluted M30	264211
M1"1/2 - Fluted M35	264221

Fluted male



	code
M3/4" - Fluted M20	264401
M1" - Fluted M25	264411
M1"1/4 - Fluted M30	264421
M1"1/4 - Fluted M35	264431
M1"1/2 - Fluted M40	264441

Fluted female with gasket

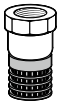


	code
F3/4" - Fluted M20	264501
F1" - Fluted M25	264511
F1"1/4 - Fluted M30	264521
F1"1/2 - Fluted M40	264531

Threaded nipple male/male

	code
M1"1/4 - M1"	264301
M1"1/2 - M1"1/4	264311

Check valve with strainer



	code
F3/4"	269001
F1"	269011
F1"1/4	269021

Spid'O® fittings

Gear clamps

Stainless steel endless worm

8 mm wide, 3 m long & 8 heads, Ø 9 to 18 mm
13 mm wide, 3 m long & 6 heads, Ø 24 mm

code
299101
299111

Zinc-plated carbon steel 9 mm - Plain worm (sold by 2)

Ø	9/18	13/24	18/28	24/36	25/45	40/60
code	299092	299122	299112	299132	299142	299262

Stainless steel 9 mm - Plain worm (sold by 2)

Ø	9/18	13/24	18/28	24/36	25/45	40/60
code	299202	299212	299222	299232	299242	299462

Stainless steel 12 mm - Plain worm (sold by 2)

Ø	18/28	24/36	25/45	32/52	40/60
code	299322	299332	299342	299352	299362

Stainless steel double thread (sold by 2)

Ø	15/18	17/21	20/23	24/27	27/31	31/35	33/37	38/43	43/48	49/55
code	299512	299522	299582	299532	299592	299542	299547	299552	299562	299572

Zinc-plated carbon steel 9 mm with tightened key - Plain worm (sold by 2)

Ø	12/22	16/27	23/35
code	299602	299612	299622

6 pcs set NEW

1 pc 32/50, 1 pc 10/16,
2 pcs 10/27, 2 pcs 23/35

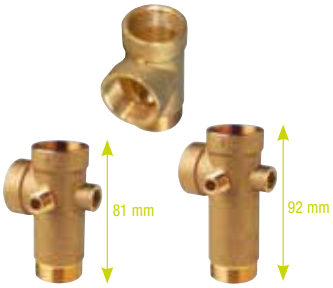
code
299699

PTFE band (sold by 10)

12 m long, 0,075 mm thick	code
12 mm wide	262204
19 mm wide	262304

Spid'O® accessories

Pumps accessories



3-way fitting

Ø	code
1" FF 1"	BB11-008

5-way fitting

Ø	height (mm)	code
1" FF 1" - F 1/4" - M 1/4"	81	RP5V
1" FF 1" - F 1/4" - M 1/4"	92	BB11-007

Pre-filter

For pumps - Sand & solid particles (250 µ) - Brass drainage - Brass 1" inlet x 1" outlet - Easy maintenance.

code
260065

Plastic suction set

PVC pipe - Food quality & safety - Includes plastic check valves & strainer.

length (m)	Ø pipe	Ø	code
4	22	F 1"	003000
7	22	F 1"	003005

Brass suction set

PVC pipe - Food quality & safety - Includes brass check valve & stainless steel strainer.

length (m)	Ø pipe	Ø	code
5	22	F 1"	003010
7	22	F 1"	003020

Metal suction set

PVC pipe - Food quality & safety - Includes brass fitting & check valve, stainless steel strainer, aluminium socket.

length (m)	Ø pipe	Ø	code
7	25	F 1"	003025
7	30	F 1"1/4	003030

Universal drainage set

For all drainage/sewage/dirty water pumps PVC pipe.

length (m)	Ø pipe	Ø	code
5	25	F 1"1/4	002200
5	32	F 1"1/2	002205

Spid'O® accessories

Pumps accessories

		code
Hydrotech 200	Lack of water & hammer protection - For 1~230V surface pumps - (max. power: 1,3 kW) - Max. pressure: 10 bar - Max. flow: 5 m³/h - Fittings MM 1".	003189
Brio 2000 M	Lack of water protection device - For surface & submersible pumps with pressure over 1,5 bar (max. power: 1,2 kW) - Max. pressure: 10 bar - Connections FM 1" - 1,5 m wire.	003251
Protection	Lack of water protection device - For surface pumps 1~230V, max. 10A - 2,3 kW - Pressure: 0,6 to 6 bar - Connections FM 1" - 1,2 m wire.	003361
HTX	Lack of water protection device - Manual ressetting (restart) - For surface pumps 1~230V, 3 A to 8 A - Temperature: 5°C to 45°C.	003161

Spid'O® specialities

Portable engine driven pumps (SP 95)

Pallet of 24 pcs

	power supply (hp)	max. flow (m³/h)	max. height (m)	max. suction (m)	fuel tank (l)	code
T 414	2,1	12	36	5	1,6	002814

Inlet & outlet M1".

Pallet of 20 pcs

	power supply (hp)	max. flow (m³/h)	max. height (m)	max. suction (m)	fuel tank (l)	code
T 420	2,2	18	25	5	1,3	002820

Inlet & outlet M1"1/2.

Pallet of 12 pcs

	power supply (hp)	max. flow (m³/h)	max. height (m)	max. suction (m)	fuel tank (l)	code
T 435	5,6	25	60	6	3,6	002835

Inlet M1"1/2 & outlet M1"1/2 or M1".

Gas oil transfer pump

For gas oil, fuel oil & biofuel.

	power supply (W)	power supply (hp)	voltage (V-50Hz)	max. flow (m³/h)	max. pressure (bar)	code
TR 50	500	0,7	1~230	2,1	3,5	002650

Includes 2 m suction set with M1" connections & check valve, gas oil nozzle, 4 m pipe with connections.

Spid'O® specialities

Rainwater pumps & manifolds

Pallet of 200 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	min. suction level (mm)	outlet Ø	code
E 160	80	0,1	1~230	3	3	3	M 3/4"	002201

Pallet of 80 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	min. suction level (mm)	outlet Ø	code
EC 300	350	0,5	1~230	3	10	3	M 3/4"	002800

		code
Sand	Universal: can be mounted on any diameter of zinc, PVC or copper gutter (from Ø 80 to 110 mm) - Easy mounting: without any cutting or removing of gutter - Ready to be mounted: supplied with a drilled saw.	050646
Grey		050645

		Ø	code
Tank set	For 1000 l rainwater tank. Includes ball valve, fitting & PTFE band.	M 3/4"	262361
		M 1"	263371

Booster pump

Pallet of 360 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (l/h)	max. height (m)	outlet Ø	code
Booster	45	0,06	1~230	250	7,5	M 1/2"	002730

Pool pump

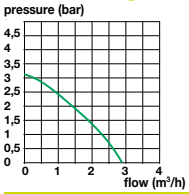
Pallet of 64 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m3/h)	max. height (m)	code
ECC 150	320	0,4	1~230	7,5	6	002217

Vertical or horizontal position - Includes: support for horizontal position.

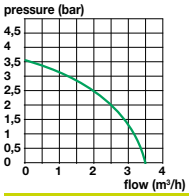
Spid'O® pumps - Ecop

Surface pumps



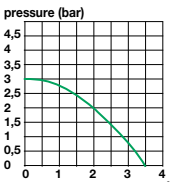
Pallet of 48 pcs
sold by 2 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Ecop 150	600	0,8	1~230	2,8	32	5	002002



Pallet of 40 pcs
sold by 2 pcs

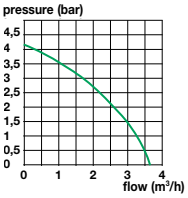
	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Ecop 140	600	0,8	1~230	3,6	35	5	002020



Pallet of 40 pcs
sold by 2 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
JE 600 P	600	0,8	1~230	3	35	7	002023

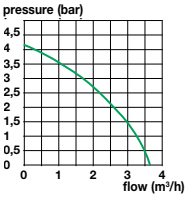
pressure (bar)



Pallet of 30 pcs
sold by 2 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Ecop 160	900	1,2	1~230	3,6	42	5	002040

pressure (bar)



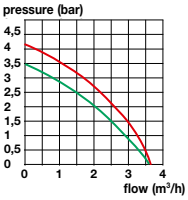
Pallet of 28 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Ecop Bis 160	800	1,1	1~230	3,6	40	7	002165

Includes press control.

Booster sets

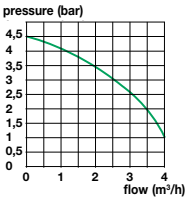
pressure (bar)



Pallet of 18 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	tank (l)	code
– **Ecop 140/20**	600	0,8	1~230	3,6	35	5	20	002161
– **Ecop 160/20**	1000	1,3	1~230	3,6	42	5	20	002120

pressure (bar)

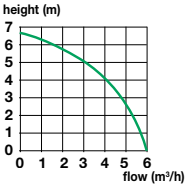


Pallet of 12 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	tank (l)	code
Ecop Bis 160/20	1000	1,3	1~230	4,5	45	7	24	002169

Drainage clear water pump

height (m)

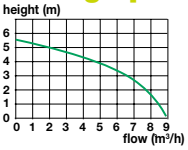


Pallet of 72 pcs
sold by 4 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	code
Ecop 100	250	0,3	1~230	6	6	002236

Sewage pumps

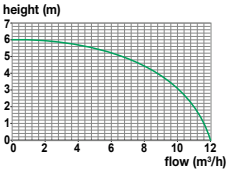
height (m)



Pallet of 72 pcs
sold by 4 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	code
Ecop 105	400	0,5	1~230	9	5,5	002237

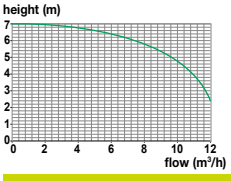
height (m)



Pallet of 60 pcs
sold by 4 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	code
Ecop 115	550	0,7	1~230	12	6	002260

height (m)



Pallet of 72 pcs
sold by 4 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	code
Ecop Bis VC 550	550	0,7	1~230	13,5	7	002264

Surface pumps

pressure (bar) / flow (m³/h)

Pallet of 24 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Jetcom 550 pack	550	0,7	1~230	2,8	42	7	002056

Includes 4 m suction set, check valve, quick fittings F1" & F Ø15, aquastop quick fitting Ø 15, 20 m watering pipe, water-hose nozzle with quick connection.

pressure (bar) / flow (m³/h)

Pallet of 24 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
JC 800 P	800	1,1	1~230	3,6	37	7	002091

Includes 5 m suction set (with plastic check valve and strainer).

pressure (bar) / flow (m³/h)

Pallet of 35 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
JC 800 P2	800	1,1	1~230	3,5	40	7	002063

pressure (bar) / flow (m³/h)

Pallet of 40 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Jetinox 800	800	1,1	1~230	3,3	46	7	002064

pressure (bar) / flow (m³/h)

Pallet of 30 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
AF 100	1000	1,3	1~230	4	45	7	002034

pressure (bar) / flow (m³/h)

Pallet of 18 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
– **AMX 50/4**	1100	1,5	1~230	5,4	45	7	002745
– **AMX 50/5**	1300	2,0	1~230	5,4	55	8	002755

Automatic surface pumps

pressure (bar) / flow (m³/h)

Pallet of 40 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
K 800 automatic	800	1,1	1~230	3,3	46	7	002164

Includes automatic & lack of water protection device & built-in manometer.

pressure (bar) / flow (m³/h)

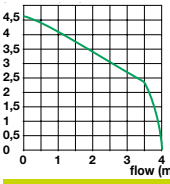
Pallet of 28 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
JCA 800 P2	800	1,1	1~230	3,5	40	7	002163

Automatic & built-in lack of water protection device.

Booster sets

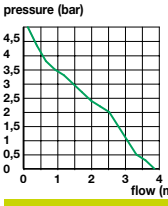
pressure (bar)



BF 100/20: pallet of 18 pcs
BF 100/50: pallet of 8 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	tank (l)	code
BF 100/20	1000	1,3	1~230	4	45	7	24	002142
BF 100/50	1000	1,3	1~230	4	45	7	50	002155

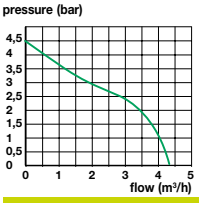
pressure (bar)



Pallet of 15 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	tank (l)	code
GC 1100 P 24B	1100	1,5	1~230	4,5	45	7	24	002143

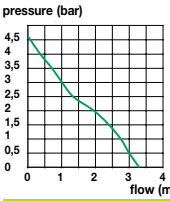
pressure (bar)



Pallet of 15 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	tank (l)	code
GC 1100 F 50H5	1100	1,5	1~230	4,5	45	7	50	002159

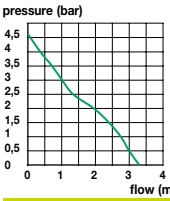
pressure (bar)



Pallet of 12 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	tank (l)	code
GC 800 I 24H5	800	1,1	1~230	3,3	46	9	24	002137

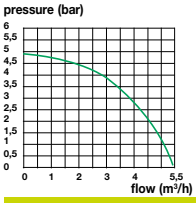
pressure (bar)



Pallet of 8 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	tank (l)	code
GC 1200 I 50H5	1200	1,6	1~230	4,4	50	7	50	002176

pressure (bar)

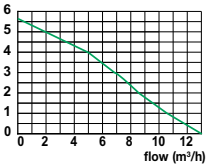


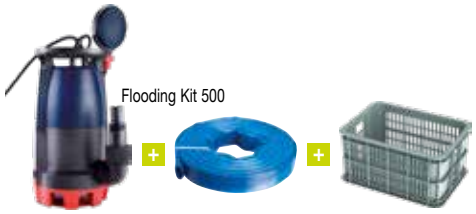
Pallet of 14 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	tank (l)	code
BMX 4/24	1100	1,5	1~230	5,4	48	7	24	002186

Drainage & sewage pumps

pressure (bar)





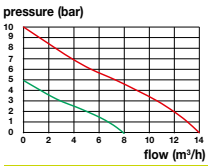
Pallet of 55 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	residual level (mm)	outlet Ø	code
VCDC 500 P2	500	0,7	1~230	12,5	6	1 (clear water) 40 (waste water)	F 1"1/2	002262
Flooding Kit 500*								002290

Passing through Ø 30 mm.

* Includes VCDC 500 P2 pump, 10 m flat pipe Ø 35 mm, clamp ring & case.

pressure (bar)



Manual/automatic switch

Clear water

Sewage water

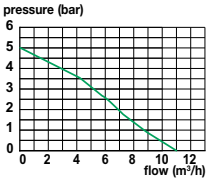
Pallet of 34 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	residual level (mm)	outlet Ø	code
– **CDW 400**	400	0,5	1~230	7	5	5 (clear water) 25 (waste water)	M 1"1/2	002250
– **CDW 800**	800	1,1	1~230	14	9		M 1"1/2	002261

Passing through Ø 25 mm - Built-in level switch.

Sewage pumps

pressure (bar)

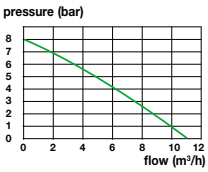


Pallet of 72 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	outlet Ø	code
VCD 400 P2	400	0,5	1~230	9	5	M 1"1/4	002255

Passing through Ø 35 mm.

pressure (bar)

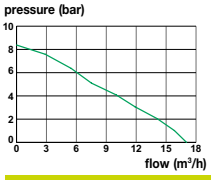


Pallet of 60 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	residual level (mm)	outlet Ø	code
ECC 190	750	1	1~230	12,5	8	45	F 1"1/2	002227

Passing through Ø 30 mm.

pressure (bar)

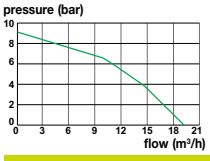


Pallet of 48 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	outlet Ø	code
VCD 750 PI	750	1	1~230	17	9	F 1"1/2	002258

Passing through Ø 35 mm.

pressure (bar)



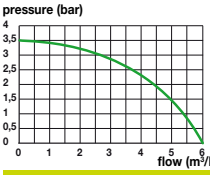
Pallet of 60 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	outlet Ø	code
VCD 1000 I	1000	1,3	1~230	19,5	9	F 1"1/2	002259

Passing through Ø 35 mm.

Well pump

pressure (bar)



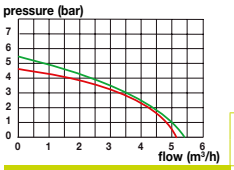
Pallet of 40 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. submersion depth (m)	pump Ø (mm)	outlet Ø	code
B 90/3	950	1,3	1~230	6	34	7	157	M 1"1/4	002509

Includes 10 m rope.

Spid'O® pumps - Classic

Borehole pumps Ø 4"



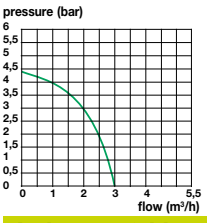
Pallet of 40 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. submersion depth (m)	outlet Ø	code
Subinox 6	800	1,1	1~230	5,1	42	12	F 1"1/4	002306
Subinox 7	900	1,2	1~230	5,1	51	20	F 1"1/4	002307

Includes starting panel, electric cable & 20 m rope.

Spid'O® pumps - Pro

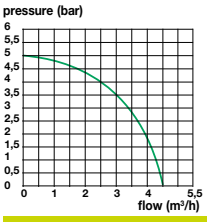
Surface pumps



Pallet of 24 pcs

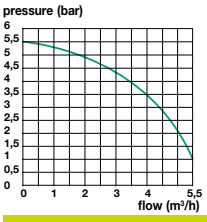
	power supply (W)	(hp)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Jetinox 550 kit	550	0,7	1~230	2,4	2,9	42	7	002051

Includes 4 m suction set with check valve.



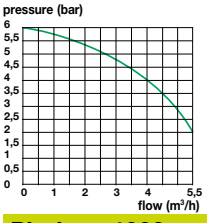
Pallet of 30 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Jetinox 1200	1200	1,6	1~230	5,2	4,5	50	7	002074



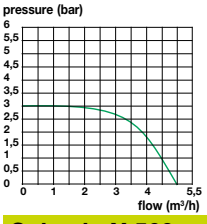
Pallet of 30 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Plurinox 1200	1200	1,6	1~230	5,2	6	55	8	002756



Pallet of 28 pcs

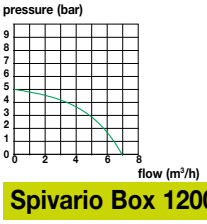
	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Plurinox 1900	1900	2,5	1~230	6,4	57	7	002758



Pallet of 30 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Spivario X 560	560	0,75	1~230	4,9	32	7	002768

Speed variation.



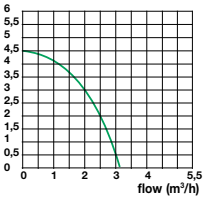
Pallet of 15 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Spivario Box 1200	1200	1,6	1~230	7,2	50	6	002188

Speed variation.

Booster sets

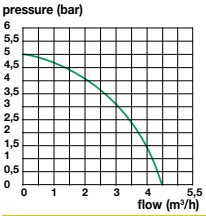
pressure (bar)



Pallet of 18 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	max. suction (m)	tank (l)	code
X80/20 Protec	800	1,1	1~230	3,5	3,3	46	7	22	002136

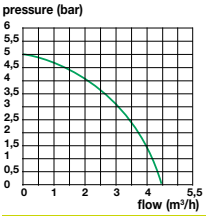
pressure (bar)



Pallet of 18 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	max. suction (m)	tank (l)	code
X120/50 Protec	1200	1,6	1~230	5,2	4,4	50	7	50	002156

pressure (bar)

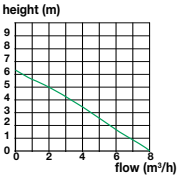


Pallet of 4 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	tank (l)	code
GP 1300F 100H5	1300	1,7	1~230	4,5	52	7	100	002166

Sewage pumps

height (m)

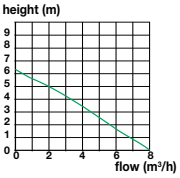


Pallet of 36 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	outlet Ø	code
KTP 300	300	0,4	1~230	8	6,2	F 1"	KTP300

Passing through Ø 10 mm.

height (m)



Pallet of 12 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	outlet Ø	code
MINI LIFT S	300	0,4	1~230	8	6,2	F 1"	MINI LIFT S

Passing through Ø 10 mm - Dimension: 438 x 332 x 300 mm.

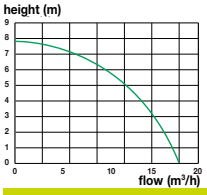
height (m)

Pallet of 96 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	outlet Ø	code
Maxinox 500	500	0,7	1~230	10,5	7	M 1"1/4	002213

Passing through Ø 25 mm.

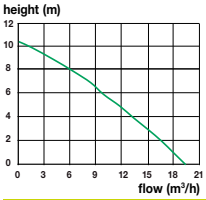
height (m)



Pallet of 72 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	outlet Ø	code
Maxinox 700	700	0,9	1~230	18	8	M 1"1/2	002214

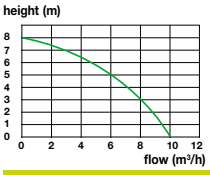
Passing through Ø 30 mm.



Pallet of 40 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	residual level (mm)	outlet Ø	code
ECC Pro 300	1200	1,6	1~230	19,5	10,5	55	M 1"1/2	002253

With Vortex stainless steel impeller - Passing through Ø 40 mm.

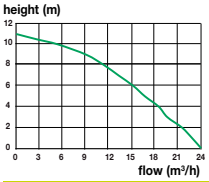


Pallet of 36 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	outlet Ø	code
KTP 500 II	500	0,7	1~230	10	8	F 1"1/4	002266

Passing through Ø 10 mm - Includes 10 m cable.

Dirty water pump

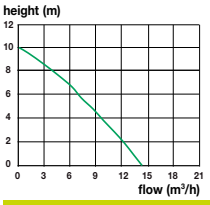


Pallet of 40 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	residual level (mm)	outlet Ø	code
ECC Pro 400	1500	2,0	1~230	24	11	55	F 2"	002254

With Vortex stainless steel impeller - Passing through Ø 40 mm.

Grinder dirty water pumps



Pallet of 18 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	outlet Ø	code
STZ 1000	1080	1,45	1~230	14	10	F 1"1/4	STZ1000

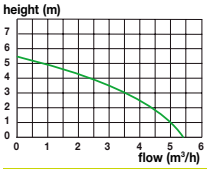
Passing through Ø 10 mm - Includes 10 m cable.

Pallet of 28 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	outlet Ø	code
ECC Pro 500	1600	2,2	1~230	18	15	F 2"	002270

Passing through Ø 40 mm - Includes 10 m cable.

Borehole pump Ø 4"



Pallet of 40 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	max.submer. depth (m)	outlet Ø	code
50/8 Auto	1100	1,5	1~230	4,8	6	57	17	F 1"	002518

Includes starting panel & lack of water protection, electric cable & 20 m rope.

Self-priming pumps

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Jet 82 M	600	1~230	3,8	3,6	47	8	016080
Jet 82 T	600	3~400	1,6	3,6	47	8	016085
Jet 102 M	750	1~230	5,1	3,6	54	8	016100
Jet 102 T	750	3~400	1,9	3,6	54	8	016105
Jet 112 M	1000	1~230	6,2	3,6	60	8	016112
Jet 112 T	1000	3~400	2,5	3,6	60	8	016113
Jet 132 M	1000	1~230	6,6	4,8	48	8	016132
Jet 132 T	1000	3~400	2,7	4,8	48	8	016133

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Jet 151 M	1100	1~230	7,2	4,2	58	8	010150
Jet 151 T	1100	3~400	3	4,2	58	8	010155
Jet 251 M	1850	1~230	10	7,2	60	8	010250
Jet 251 T	1850	3~400	4	7,2	60	8	010255

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Euro Inox 30/30 M	450	1~230	3,2	3,3	46,0	8	030080
Euro Inox 30/50 M	550	1~230	3,9	4,8	42,2	8	030100
Euro Inox 30/50 T	550	3~400	1,6	4,8	42,2	8	030105
Euro Inox 40/50 M	550	1~230	5,3	4,8	57,7	8	030110
Euro Inox 40/50 T	550	3~400	2,2	4,8	57,7	8	030115
Euro Inox 50/50 M	1000	1~230	6,3	4,8	72	8	030120
Euro Inox 50/50 T	1000	3~400	2,5	4,8	72	8	030125

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Multi Inox 3M	550	1~230	3,7	3,6	34,0	8	030163
Multi Inox 4M	750	1~230	4,5	5	46,0	8	030164
Multi Inox 5M	1000	1~230	5,5	5	58,0	8	030165

With stainless steel F304 impellers.

Peripheral pumps

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	code
KPS 30/16 M	300	1~230	2	1,8	32,5	031090
KPS 30/16 T	300	3~400	0,9	1,8	32,5	031095

Booster sets

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m3/h)	max. height (m)	max. suction (m)	tank (l)	code
Aquajet 82/20 M	600	1~230	3,8	3,6	47	8	20	201029
Aquajet 102/20 M	750	1~230	5,1	3,6	54	8	20	201032
Aquajet 102/60 M	750	1~230	5,1	3,6	54	8	60	201026

Supplied mounted.

esybox

Steady pressure booster set - Includes: self-priming pump, frequency regulator, pressure sensor, flow sensor, LCD screen & expansion tank.
- Economical: energy saving thanks to the frequency regulator - Silent.
- Compact: installation everywhere (even in tiny rooms) - 30% smaller than a traditional set - No additional tank.
- Convenient: easy maintenance & installation - Direct access to the pump stem, the filling cap & the expansion tank.
- Various connections.
- Wireless: up to 4 Esybox connected.

	power supply (W)	voltage (V-50Hz)	hp	amp. (A)	max. flow (m3/h)	max. height (m)	max. suction (m)	code
Esybox Mini	850	1~230	1,1	7	4,2	55	8	209501
Esybox 40/80	1550	1~230	2,1	10	7,2	62	8	209500

For Esybox & Esybox Mini - Includes float valve, check valve, suction & discharge pipe.

	tank (l)	code
Esytank	250	450160

Esybox Max on request

	code
Pack Esydock	209511

Drainage pumps

	power supply (W)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	min. suction level (m)	outlet Ø	code
Verty Nova 200	220	1~230	6	6,2	3	M 1" 1/4	131003
Verty Nova 400	400	1~230	10	9	3	M 1" 1/4	131004

Built-in level switch - Max. particles 5 mm - Includes 10 m cable.

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	min. suction level (m)	outlet Ø	code
Nova 180R automatic	200	1~230	0,9	4	5	77	F 1"	131150

Max. particles 5 mm - Includes 5 m cable.

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	min. suction level (m)	outlet Ø	code
Nova 300R automatic	220	1~230	1,5	12	7,1	85	F 1"1/4	131157

Max. particles 10 mm - Includes 5 m cable.

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	min. suction level (m)	outlet Ø	code
Nova-up 300 MAE	210	1~230	1,5	9	7,6	86	M 1"1/4	131123
Nova-up 600 MAE	520	1~230	3,4	12,9	9,8	150	M 1"1/4	131133

Electronic level detection - 5 mm suction height - Max. particles 10 mm - Includes 10 mm cable - Vertical outlet.

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	min. suction level (m)	outlet Ø	code
Nova-up 600 automatic	520	1~230	3,4	13	9,8	150	M 1" 1/4	131090

Max. particles 10 mm - Includes 10 m cable - Vertical outlet.

Sewage pump

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	min. suction level (m)	outlet Ø	code
Nova 600R automatic	500	1~230	3	12	10,4	190	F 1" 1/4	131160

Max. particles 10 mm - Includes 5 m cable.

NEW

650
900

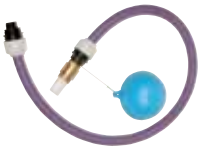
600 aut.
900 aut.

600-X
900-X

Well pumps

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	max. suction (m)	pump Ø (mm)	outlet Ø	code
Divertron 650	0,42	1-230	2,9	4,8	34	12	160	1"	152640
Divertron 650 aut.	0,42	1-230	2,9	4,8	34	12	160	1"	152641
Divertron 900	0,55	1-230	4,2	4,8	43	12	160	1"	152650
Divertron 900 aut.	0,55	1-230	4,2	4,8	43	12	160	1"	152651
Divertron 650-X*	0,42	1-230	2,9	4,8	30,4	12	160	1"	152646
Divertron 900-X*	0,55	1-230	4,2	4,8	45,8	12	160	1"	152656

Built-in automatic device with lack of water protection & check valve - Includes 15 m cable.
*For connection to rainwater collecting tank.



		length (m)	code
Suction set for rainwater collecting tank	Includes strainer basket & floating ball.	1,5	355253
		3	355237

	length (m)	code
Rope	20	550504

NEW Rainwater collecting sets

Kit'O

		code
Kit'O garden	For 3 outdoor valves - Includes: Divertron 1000-X pump, Hydra 1" RAH 90µ filter, 230V wired solenoid valve, 5 l tank, 20 m level switch, 5 "non potable water" icons.	353020

Divertron 1000-X pump

Hydra 1" RAH 90µ filter

230 V wired solenoid valve

5 l tank

20 m level switch

" Non potable water " icons

		code
Kit'O house	For 2 outdoor valves, 2 toilets & 1 washing machine - Includes: Divertron 1000-X pump, Hydra 1" Rainmaster trio filter, 230V wired solenoid valve, 5 l tank, 20 m level switch, 5 "non potable water" icons.	353022

Divertron 1000-X pump

Hydra 1" Rainmaster trio filter

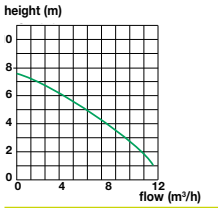
230 V wired solenoid valve

5 l tank

20 m level switch

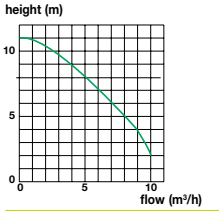
" Non potable water " icons

Drainage pumps



	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	outlet Ø	code
Oma 4	150	1~230	1,6	10	7,5	F 1"1/4	133096

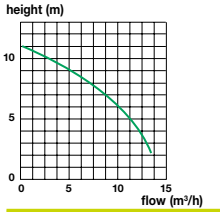
Max. particles 10 mm - Includes 10 m cable.



	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m3/h)	max. height (m)	outlet Ø	code
LSC1-4S	480	1~230	2,9	10	11	F 1"	133100
LSC E1-4S*	480	1~230	2,9	10	11	F 1"	133099

For complete drying surface - Max. particles 6 to 1 mm - Includes 10 m cable, gear clamp & 25 mm fitting.

* Pre-equipped for automatism with min. 1 mm suction height level switch.

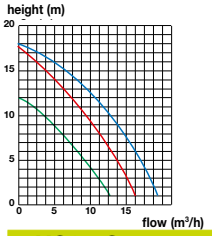


	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	outlet Ø	code
LB-480 A	480	1~230	2,9	13	11	M 2"	133107

Max. particles 6 mm.

Sandy & muddy water pumps

HS2-4S set

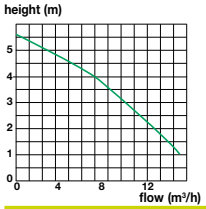


	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	outlet Ø	code
HS2-4S	400	1~230	2,6	11	12	M 2"	133101
HS2-4S set*	400	1~230	2,6	11	12	M 2"	133108
HS2-45 automatic	400	1~230	2,6	11	12	M 2"	133104
HS2-75S	750	1~230	4,6	13	18	M 2"	133106
HS3-75S	750	1~230	4,6	18	18	M 3"	133102

Max. particles 7 mm - Includes 10 m cable.

* Includes HS2-4S pump, 15 m flat pipe Ø 50 mm, clamp ring & case. Dimensions: L 190 x W 390 x H 310.

Sewage pump

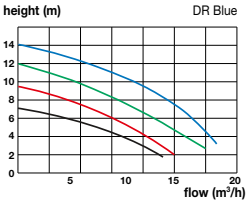


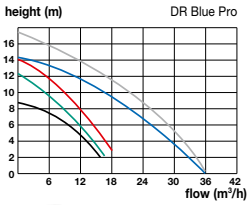
	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	outlet Ø	code
Poma	150	1~230	1,6	12,5	6	F 2"	133097

Max. particles 35 mm - Includes 10 m cable.

For non automatic pumps: level switches, see page 476

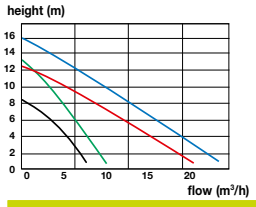
Drainage pumps





	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	min. suction level (mm)	outlet Ø	code
– DR Blue 40 automatic	300	1~230	2,3	10,8	7	77	F 1"1/4	137004
– DR Blue 50 automatic	370	1~230	2,8	14,4	9,5	77	F 1"1/4	137005
– DR Blue 75 automatic	550	1~230	4,1	14,4	12	77	F 1"1/4	137007
– DR Blue 100 automatic	750	1~230	5,6	18	14,2	77	F 1"1/4	137010
– DR Blue Pro 50 automatic	370	1~230	2,8	14,4	8,7	77	F 1"1/4	137205
– DR Blue Pro 75 automatic	550	1~230	4,1	14,4	12,3	77	F 1"1/4	137207
– DR Blue Pro 75 T	550	3~400	1,6	14,4	12,3	77	F 1"1/4	137208
– DR Blue Pro 100 automatic	750	1~230	5,6	18	14,6	77	F 1"1/4	137210
– DR Blue Pro 100 T	750	3~400	2,2	18	14,6	77	F 1"1/4	137211
– DR Blue Pro 150 automatic	1100	1~230	7,5	36	14,4	77	F 2"	137215
– DR Blue Pro 150 T	1100	3~400	3,2	36	14,4	77	F 2"	137216
– DR Blue Pro 200 automatic	1500	1~230	10	36	17	77	F 2"	137218
– DR Blue Pro 200 T	1500	3~400	4,3	36	17	77	F 2"	137219

Max. particles 7 mm for DR Blue & 15 mm for DR Blue Pro - Includes 10 m cable.

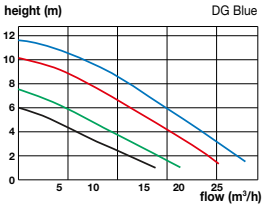


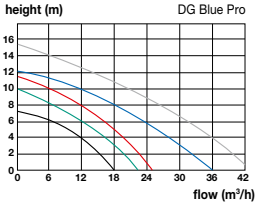
	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	passing through (mm)	outlet Ø	code
– DR Steel 25 M auto. VLS*	250	1~230	2,3	7,2	8,5	10	F 1"1/4	137607
– DR Steel 25 M automatic	250	1~230	2,3	7,2	8,5	10	F 1"1/4	137608
– DR Steel 25 M auto. set**	250	1~230	2,3	7,2	8,5	10	F 1"1/4	137609
– DR Steel 37 M automatic	370	1~230	3,1	9	13,6	10	F 1"1/4	137610
– DR Steel 55 M automatic	550	1~230	4,3	18,1	12,4	12	F 1"1/2	137612
– DR Steel 75 M automatic	750	1~230	5,6	19,9	16	12	F 1"1/2	137614
– DR Steel 75 M***	750	1~230	5,6	19,9	16	12	F 1"1/2	137615
– DR Steel 75 T	750	3~400	2,4	19,9	16	12	F 1"1/2	137616

Max. particles 10 mm for DR 25 & DR 37, 12 mm for DR 55 & DR 75 - Includes 10 m cable.

* Vertical level switch.
** Includes DR Steel 25M automatic pump, 10 m pipe with quick fitting & case (may be used as a strainer while in use) - Dimensions (mm): L 60 x W 40 x H 35.
*** Without level switch.

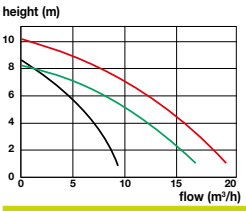
Dirty water pumps





	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	min. suction level (mm)	outlet Ø	code
– DG Blue 40 automatic	300	1~230	2,3	14,4	6	122	F 1"1/2	137104
– DG Blue 50 automatic	370	1~230	2,8	18	7,6	122	F 1"1/2	137105
– DG Blue 75 automatic	550	1~230	4,1	21,6	10,1	122	F 1"1/2	137107
– DG Blue 100 automatic	750	1~230	5,6	25,2	11,6	122	F 1"1/2	137110
– DG Blue Pro 50 automatic	370	1~230	2,8	18	7	122	F 1"1/2	137305
– DG Blue Pro 75 automatic	550	1~230	4,1	21,6	10,2	122	F 1"1/2	137307
– DG Blue Pro 75 T	550	3~400	1,6	21,6	10,2	122	F 1"1/2	137308
– DG Blue Pro 100 automatic	750	1~230	5,6	25,2	11,4	122	F 1"1/2	137310
– DG Blue Pro 100 T	750	3~400	2,2	25,2	11,4	122	F 1"1/2	137311
– DG Blue Pro 150 automatic	1100	1~230	7,5	36	12,3	122	F 2"	137315
– DG Blue Pro 150 T	1100	3~400	3,2	36	12,3	122	F 2"	137316
– DG Blue Pro 200 automatic	1500	1~230	10	43,2	15,3	122	F 2"	137318
– DG Blue Pro 200 T	1500	3~400	4,3	43,2	15,3	122	F 2"	137319

Passing through Ø 40 mm - Includes 10 m cable.

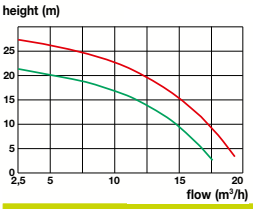


	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	passing through (mm)	outlet Ø	code
– DG Steel 25 M automatic*	370	1~230	3,1	10,8	8,7	25	F 1"1/4	137600
– DG Steel 55 M automatic	550	1~230	4,3	19,9	8,1	40	F 1"1/2	137602
– DG Steel 75 M automatic	750	1~230	5,6	21,7	10	40	F 1"1/2	137604
– DG Steel 75 T	750	3~400	2,3	21,7	10	40	F 1"1/2	137606

Passing through Ø 40 mm (except DG 37: Ø 25 mm) - Includes 10 m cable.

* Sewage only.

Grinder dirty water pumps

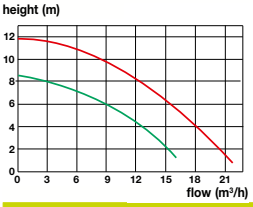


	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	outlet Ø	code
– GR Blue Pro 150 M*	1,1	1~230	7,5	18	21,1	1"1/2	137520
– GR Blue Pro 150 M automatic*	1,1	1~230	7,5	18	21,1	1"1/2	137521
– GR Blue Pro 150 T	1,1	3~400	3,2	18	21,1	1"1/2	137525
– GR Blue Pro 150 T automatic	1,1	3~400	3,2	18	21,1	1"1/2	137526
– GR Blue Pro 200 M*	1,5	1~230	10	18	27	1"1/2	137530
– GR Blue Pro 200 M automatic*	1,5	1~230	10	18	27	1"1/2	137531
– GR Blue Pro 200 T	1,5	3~400	4,3	18	27	1"1/2	137535
– GR Blue Pro 200 T automatic	1,5	3~400	4,3	18	27	1"1/2	137536

Includes 10 m cable.

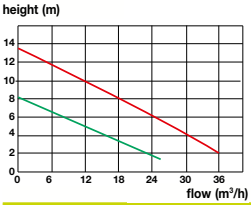
* Includes starting panel.

Sea water & brackish water pumps



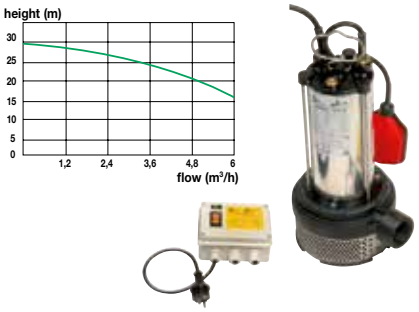
	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	passing through (mm)	outlet Ø	code
– DRB 75/2/G32V	550	1~230	3,9	21,6	11,9	15	F 2"	139510
– DRB 150/2/G32V	1100	1~230	8,2	36	15,9	15	F 2"	139520

Multicanal impeller.



	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	passing through (mm)	outlet Ø	code
– DGB 75/2/G50V	550	1~230	3,9	21,6	8,5	38	F 2"	139410
– DGB 150/2/G50V	1100	1~230	8,2	32,4	14	38	F 2"	139420

Vortex impeller.



Drainage pumps - High-head

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	outlet Ø	code
Semisom 130 H automatic*	1100	1~230	7,6	6	30	F 1"1/2	132001
Semisom 130 H M*	1100	1~230	7,6	6	30	F 1"1/2	132002
Semisom 130 H T	1100	3~400	2,9	6	30	F 1"1/2	132005

Max. particles 5 mm - Includes 10 m cable.

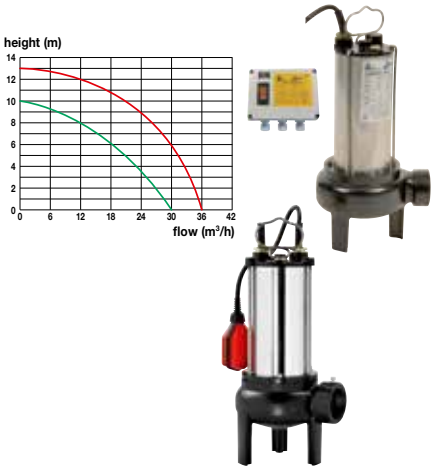
* Includes starting panel.

Dirty water pumps

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	min. suction level (mm)	outlet Ø	code
Vertical outlet								
Semisom 265 automatic	550	1~230	4,2	12	8	200	F 2"	132038
Semisom 290 automatic	550	1~230	4,2	12	8	200	F 2"	136038
Horizontal outlet								
Semisom 290 automatic	550	1~230	4,2	12	8	200	F 2"	136039
Semisom 290 M + SP*	550	1~230	4,2	12	8	200	F 2"	136040
Semisom 290 M	550	1~230	4,2	12	8	200	F 2"	136050
Semisom 290 T	550	3~400	1,7	12	8	200	F 2"	136045
Semisom 290 T automatic	550	3~400	1,7	12	8	200	F 2"	136047

Passing through Ø 40 mm for Semisom 265 & Ø 50 mm for Semisom 290 - Includes 10 m cable.

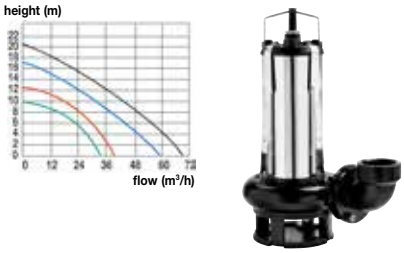
* Includes starting panel.



	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	min. suction level (mm)	outlet Ø	code
Vertical outlet								
Semisom 490 automatic	1100	1~230	7,3	29	10	200	F 2"	136073
Horizontal outlet								
Semisom 490 automatic	1100	1~230	7,3	29	10	200	F 2"	136079
Semisom 490 M + SP*	1100	1~230	7,3	29	10	200	F 2"	136075
Semisom 490 M	1100	1~230	7,3	29	10	200	F 2"	136081
Semisom 490 T	1100	3~400	2,7	29	10	200	F 2"	136076
Semisom 490 T automatic	1100	3~400	2,7	29	10	200	F 2"	136071
Semisom 590 M auto. + SP*	1500	1~230	10,5	36	13	200	F 2"	136101
Semisom 590 M + SP*	1500	1~230	10,5	36	13	200	F 2"	136100
Semisom 590 T	1500	3~400	4,1	36	13	200	F 2"	136105

Passing through Ø 50 mm - Includes 10 m cable.

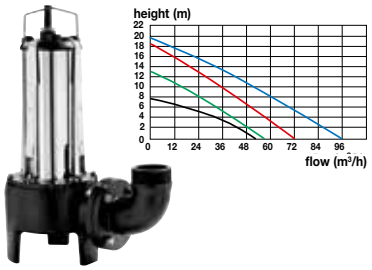
* Includes starting panel.



	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	min. suction level (mm)	outlet Ø	code
Semisom 500/50 M*	1100	1~230	9,2	30	9,5	275	F 2"	132100
Semisom 500/50 T	1100	3~400	3,3	30	9,5	275	F 2"	132105
Semisom 800/50 M*	1500	1~230	11,4	30	12	275	F 2"1/2	132110
Semisom 800/50 T	1500	3~400	4	30	12	275	F 2"1/2	132115
Semisom 900/50 M*	1500	1~230	11,4	48	16	275	F 2"1/2	132120
Semisom 900/50 T	1500	3~400	4	48	16	275	F 2"1/2	132125
Semisom 1000/50 T	2200	3~400	5,9	54	19,5	275	F 2"1/2	132135

Passing through Ø 50 mm - Includes 10 m cable.

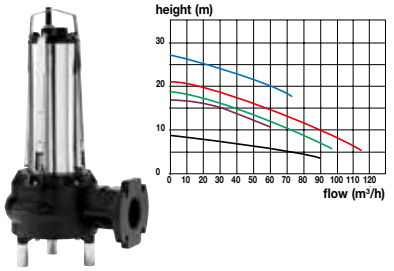
* Includes starting panel.



	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	min. suction level (mm)	outlet Ø	code
– Semisom 754/65 M*	1200	1~230	7,7	42	7,3	275	F 3"	132140
– Semisom 754/65 T	1200	3~400	3,3	42	7,3	275	F 3"	132145
– Semisom 1100/65 T	2200	3~400	6	48	12	275	F 3"	132155
– Semisom 1300/65 T	3400	3~400	8,1	54	17	275	F 3"	132165
– Semisom 1500/65 T	3400	3~400	9	78	17,5	275	F 3"	132175

Passing through Ø 65 mm - Includes 10 m cable.

* Includes starting panel.

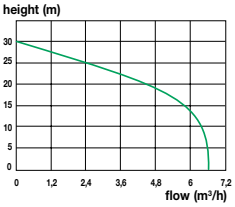


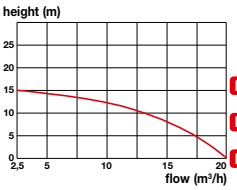
	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	min. suction level (mm)	outlet Ø	code
– Semisom 1504/80 T	2600	3~400	8,1	84	8,7	275	3"	132895
– Semisom 1055/80 T	4100	3~400	9,2	60	16,5	275	3"	132805
– Semisom 1675/80 T	5500	3~400	12	96	18,3	275	3"	132845
– Semisom 2100/80 T	7500	3~400	16	120	20,1	275	3"	132885
– Semisom 1200/80 T	7500	3~400	16	72	25,7	275	3"	132865

Passing through Ø 74 mm - Includes 10 m cable.

	code
Fork hook	455028
Foot pad*	455029
Discharge flange	455035

For non automatic pumps: level switches, see page 476



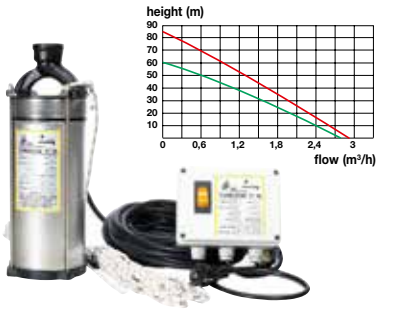


Grinder dirty water pumps

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	code
– Semisom 125 GR M aut.*	1800	1~230	9,2	6,6	27,5	132013
– Semisom 125 GR M*	1800	1~230	9,2	6,6	27,5	132014
– Semisom 125 GR T	1500	3~400	2,9	6,6	27,5	132015
– Semisom 300 GR M aut.* NEW	1180	1~230	9,2	16	21	132016
– Semisom 300 GR M* NEW	1180	1~230	9,2	16	21	132017
– Semisom 300 GR T NEW	1500	3~400	2,9	16	21	132018

Includes 10 m cable.

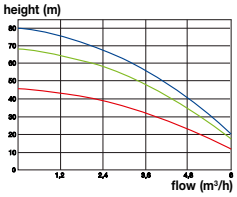
* Includes starting panel.



Well pumps

	power supply (W)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. submersion depth (m)	pump Ø (mm)	outlet Ø	code
– Turbosom 57 M*	550	1~230	2,4	60	10	136	F 1"	151020
– Turbosom 77 M*	750	1~230	2,4	84	10	136	F 1"	151030
– Turbosom 77 T	750	3~400	2,4	85	10	136	F 1"	151035

Supplied with 15 m cable and 15 m rope.



	power supply (W)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. submersion depth (m)	pump Ø (mm)	outlet Ø	code
– SRM 4/100 automatic*	650	1~230	6	46	30	130	F 1"1/4	150603
– SRM 4/100 M*	650	1~230	6	46	30	130	F 1"1/4	150602
– SRM 6/100 automatic*	950	1~230	6	69	30	130	F 1"1/4	150609
– SRM 6/100 M*	950	1~230	6	69	30	130	F 1"1/4	150608
– SRT 6/100 T	950	3~400	6	69	30	130	F 1"1/4	150610
– SRM 7/100 automatic*	1200	1~230	6	80	30	130	F 1"1/4	150612
– SRM 7/100 M*	1200	1~230	6	80	30	130	F 1"1/4	150611
– SRT 7/100 T	1200	3~400	6	80	30	130	F 1"1/4	150613

Supplied with 15 m cable and 15 m rope.

* Includes starting panel.

Rover® pumps

Liquid transfer pumps

For clear water, salty water, wine, vinegar, milk.

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (l/min)	max. height (m)	code
BE - M 20	340	1~230	1,8	27	20	093020
BE - M 25	710	1~230	3,3	40	14	093025
BE - M 30	800	1~230	3,7	76	14	093030
BE - T 30	800	3~400	1,5	76	14	093035
BE - M 40	950	1~230	4	116	20	093040
BE - T 40	1000	3~400	3	116	20	093045
BE - M 50	2100	1~230	11	202	24	093050
BE - T 50	1900	3~400	5,1	202	24	093055

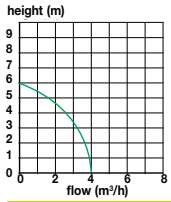
	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (l/min)	max. height (m)	code
Marina 20 - 12V	350	12V DC	25	27	18	093070
Marina 20 - 24V	350	24V DC	13	27	18	093080
Marina 25 - 24V	380	24V DC	15	40	14	093085

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (l/min)	max. height (m)	code
Novax - 20B	340	1~230	1,8	27	20	093058
Novax - 30B	800	1~230	3,7	76	14	093060

		code
Drill 20 for drilling machine	With strainer basket.	093100

Jung® pumps

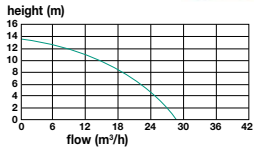
PENTAIR JUNG PUMPEN



	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	outlet Ø	code
Simer 5	190	1-230	0,5	4,3	6	F 1"1/4	132600

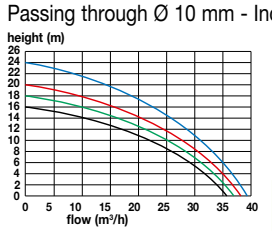
For complete drying surface - Residual water level 2 mm - Includes 10 m cable & multidiameter fitting (13/19/25 mm).

		code
Level control	For Simer 5 pump, min. 7 mm water level.	131230



	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	outlet Ø	code
UV 315-1	1360	1-230	8,2	28	13,5	F 1"1/2	131195
UV 315-3 T	1450	3-400	3,6	29	13,5	F 1"1/2	131196
UV 315-1-S automatic	1360	1-230	8,2	28	13,5	F 1"1/2	131197

Passing through Ø 10 mm - Includes 10 m cable.



	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	outlet Ø	code
– **UV 620-1**	1650	1-230	10,4	36	16	F 2"	131201JE
– **UV 620-1 S automatic**	1650	1-230	10,4	36	16	F 2"	131202JE
– **UV 620-3**	1950	3-400	4,6	37	18	F 2"	131203JE
– **UV 625-3**	2280	3-400	5,2	38	20	F 2"	131204
– **UV 635-3**	3250	3-400	6,2	39	24	F 2"	131205

Passing through Ø 10 mm - Includes 10 m cable.

Compact lifting stations

Hot water

Adjustable outlet orientation - Built-in check valve - Hot water up to 80°C - Alarm as an option - 1"1/2 female threaded outlet - US 73 HES pump (code 131840), 0,5 kW, 3,9 A, passing through Ø 30 mm, level switch, 10 m cable.

	max. flow (m^3/h)	max. height (m)	code
Hebefix 100 H	10	9	131179

Dirty water & condensates

Acc. to EN 12050-1 - Compact - Ready for installation - Easy maintenance - Silent - Dirt rinsing device - Timer with sound alarm - High quality ABS tank - Compatible for water with 10% salt - Dimensions (mm): L 320 x W 176 x H 135 - Max. temperature: 55°C.

	max. flow (m^3/h)	max. height (m)	code
Hebefix Mini	5	4,3	131181

Agressive fluids

Acc. to EN 12050-1 - Compact - Ready for installation - Easy maintenance - Silent - Dirt rinsing device - Timer with sound alarm - High quality ABS tank - Compatible for water with 10% salt - Outlet 1"1/4 with built-in check valve.

	max. flow (m^3/h)	max. height (m)	code
Hebefix Extra	5	5	131180

Condensates

Acc. to EN 12050-1 - For condensates pH > 2,7 - Timer with sound alarm - Built-in check valve - Outlet pipe 6 m & Ø 12 - Max. temperature: 40°C.

	max. flow (l/h)	max. height (m)	code
K2 Plus	520	3,5	131190

Sewage & dirty water

Compact - Ready for installation - Submersible - Vertical/horizontal additional intlets - Check valve - PE tank - Vortex impeller.

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m^3/h)	max. height (m)	outlet Ø	tank (l)	code
Compli 310E	980	1-230	4,5	30	6	80	50	131220

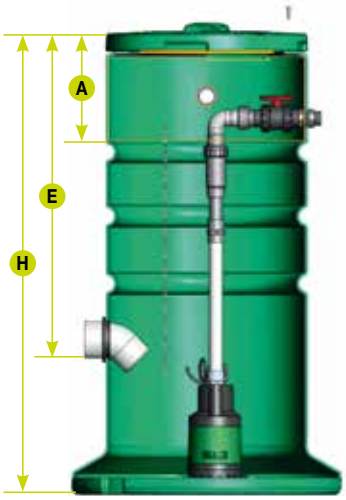
	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m^3/h)	max. height (m)	outlet Ø	tank (l)	code
Compli 300E	980	1-230	6	30	7	80	50	131221

Outlet pipe DN 80 - Includes control panel with alarm & 4 m cable.

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m^3/h)	max. height (m)	outlet Ø	tank (l)	code
Compli 400E	1100	1-230	7,1	48	6	80	64	131222

Adjustable flanges (180 or 250 mm inlet height) - Outlet pipe DN 100 - Includes control panel with alarm & 4 m cable.

Other types on request. Please consult.



Wastewater lifting stations

Acc. to EN 12050-2.

Complete set for wastewater (after wastewater tank or sand filter)

Ø 600 underground installation high density polyethylene tank - 1/4 turn closing cover - Nova-up 600 pump, 1~230V-50Hz, passing through Ø 10 mm - 100 mm PVC inlet, 1"1/4 male threaded outlet, 50 mm PVC aerator, 50 mm PVC wire outlet - Check valve - 1"1/4 ball valve.

	tank (l)	H (mm)	E (mm)	A (mm)	max. flow (m³/h)	max. height (m)	code
Altibox CE 650/600	170	650	200	175	9	13,8	131550
Altibox CE 850/600	210	850	400	270	9	13,8	131551
Altibox CE 1100/600	300	1100	660	270	9	13,8	131552
Altibox CE 1400/600	360	1400	950	270	9	13,8	131553
Altibox CE 1850/600*	480	1850	1400	270	9	13,8	131554
Altibox CE 2500/600*	650	2500	2050	270	9	13,8	131555

* please consult for specific freight charges

		code
Outlet flexible hose 1"1/4		453135

		code
Extension for Altibox 600	300 mm height.	452998

		code
Sawing set DN100	Includes hole saw, gasket & cap.	453067

		connections	code
Bipolar tight connection	2 poles - Screws connections - 23x66 mm - 32 A - Max. 450V - Wire 7 to 12 mm - IP68.	2 (level switch)	432202
		3 (1~230V pump)	432203
		4 (3~400V pump)	432204

		code
Tight connection set	For tight connection up to 5 connectors 1,5 to 6 mm² - IP68.	432106

Complete set for wastewater

Not for sewage & dirty water (toilets, etc...) - 30 l tank - Nova 300R automatic pump, 1~230V-50Hz, max. particles 5 mm - Float valve - Check valve - Dimensions (mm): L 408 x W 310 x H 360.

	power supply (W)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	tank (l)	code
Novabox 30/300R	220	1~230	12	7,1	30	131453

Sewage & dirty water lifting stations

Acc. to EN 12050-1.

Indoor & outdoor installation

1 pump - 150 l tank

Underground installation 150 l polyethylene tank - 1/4 turn closing cover - 100 mm PVC inlet, 63 mm PVC outlet, 50 mm PVC wire outlet, 2 gland packs - Dimensions (mm): L 729 x W 622 x H 650 - Domosom 270 automatic, 1~230V-50Hz, with Vortex impeller, 10 m wire, passing through Ø 50 mm - 1 mounted 2" PVC ball check valve.

	power supply (W)	voltage (V-50Hz)	max. flow (m^3/h)	max. height (m)	tank (l)	code
Domobox 150/270 M automatic	550	1~230	24	8,5	150	144055

1 pump - 270 l tank

Underground installation 270 l polyethylene tank - 12 screws closing cover - Composite guide bar device - 100 mm PVC inlet, 63 mm PVC outlet, 50 mm PVC aerator, 50 mm PVC wire outlet, 2 gland packs - Dimensions (mm): L 800 x W 640 x H 940 - Semisom 290 automatic or 490 automatic pump, 1~230V-50Hz, with Vortex impeller, 10 m wire, passing through Ø 50 mm - 1 mounted 2" PVC ball check valve.

	power supply (W)	voltage (V-50Hz)	max. flow (m^3/h)	max. height (m)	tank (l)	code
Fekafos DSD 270 PP/290 automatic	550	1~230	12	8	270	145010
Fekafos DSD 270 PP/490 automatic	550	1~230	29	10	270	145011

		height (mm)	code
Extension for Fekafos	Includes bolts & screws.	300	453018

Outdoor installation

Underground installation 270 l polyethylene tank - Ø 585 mm cover - 1/4 turn cover - Screws locking - Composite guide bar device - Foot peg welding without drilling - 2" cast iron check valve, 2" PVC valve - 180° inlet water from 200 to 500 mm, thanks to supplied drilling set - 100 mm PVC inlet, 63 mm PVC outlet, 50 mm PVC aerator, wire outlet - Dimensions (mm): L 785 x W 590 x H 1025 - Semisom 290 automatic or 490 automatic pump, 1~230V-50Hz, with Vortex impeller, 10 m wire & control panel, passing through Ø 50 mm.

	power supply (W)	voltage (V-50Hz)	max. flow (m^3/h)	max. height (m)	tank (l)	code
Fekafos Enter 271 PP/290 automatic	550	1~230	12	8	270	145000
Fekafos Enter 271 PP/490 automatic	1100	1~230	29	10	270	145001

Accessories

	height (mm)	code
Extension for Domobox & Fekafos Enter	200	452991
	400	452992

		code
Anti-smell cartridge	For lifting stations & septic tanks - 100 mm diameter - Bad smells remover & hydrogene sulphide filter.	550400

		code
Sawing set DN110	Includes Ø 114 mm hole saw, Ø 110 PVC elbow & gasket.	412619

		code
Connection set PVC 110/100	Includes FF Ø 110 nipple, M Ø 110 - F Ø 100 reduced nipple & 110 mm PVC Ø 100.	453117

Toilet macerators

According to EN 12050-3 - IP44 - Connection set for outlet 22 to 40 mm - Tank adapted to 4,6 to 9 l water volume - Easy maintenance & access to motor, pump, macerator & pressure switch - Silent - Power supply 490 W - 1~230V-50Hz - 2,3 A - Max. flow 115 l/min - Max. height 8 mm - Includes check valve - Dimensions (mm): L 456 x l 178 x H 352.

		code
Genix 110	For 1 WC + 1 sink.	131460
Genix 110 comfort*		131461

* Lower sound rating: less than 60 dB.

		code
Genix 130	For 1 WC + 1 sink + 1 shower + 1 bidet.	131462
Genix 130 comfort*		131463

* Lower sound rating: less than 60 dB.

		code
Connection set	Includes 500 mm pipe, gear clamp & fitting.	451021

Greases separators

Restaurants & collective use - According to EN 1825-1 - High density polyethylene tank - Tight polyethylene cover - Ø 620 mm cover - 110 mm PVC inlet & outlet - Underground & above ground installation.

	max. meals/day		flow	separator	sludge trap	dimensions	code
	restaurant	canteen	(l/s)	volume (l)	volume (l)	(mm)	
YGO500E	100	220	1	240	100	L 1000 x W 1000 x H 1000	457340
YGO501E	150	330	1,5	510	150	L 1200 x W 1200 x H 1230	457660
YGO502E	200	440	2	490	200	L 1200 x W 1200 x H 1230	457690

	code
Extension 200 mm	453026
Extension 400 mm	453027

Greases separators - Above ground installation

Restaurants & collective use - According to EN 1825-1 - High density polyethylene tank - Tight polyethylene cover - Ø 620 mm cover - 110 mm PVC inlet & outlet - 50 mm cable inlet for alarm installation - 80 mm PVC drainage outlet, symmetrical fitting & 110 mm PVC air vent for HG1002E & HG1004E.

	max. meals/day		flow	separator	sludge trap	dimensions	code
	restaurant	canteen	(l/s)	volume (l)	volume (l)	(mm)	
HG0502E	209	443	2	480	200	L 1635 x W 770 x H 1090	457350
HG1002E	209	443	2	480	200	L 1635 x W 770 x H 1090	457351
HG0504E	417	886	4	1200	400	L 1635 x W 770 x H 1090	457355
HG1004E	417	886	4	1200	400	L 1635 x W 770 x H 1090	457356

Greases separators - Dishwashing

Restaurants & collective use.

		code
GM1 E	High density polyethylene tank - PVC inlet & outlet - Tight polyethylene cover - Stainless steel screws - 55 l volume - Max. flow 0,75 l/s - Dimension (mm): L 600 x W 435 x H 450.	456517

		code
Drainage valve	For polyethylene separator.	658450

Restaurants & collective use - Stainless steel tank & cover - 2 drainage valves - 1 outlet valve - 4 adjustable feet (100 mm).

	meals/service	connected sinks	volume (l)	dimensions (mm)	code
MINIGR-040	1 to 40	1	39	L 480 x W 350 x H 484	456604
MINIGR-060	41 to 60	1 to 2	53	L 540 x W 350 x H 534	456606
MINIGR-080	61 to 80	1 to 3	67	L 640 x W 350 x H 574	456608
MINIGR-100	81 to 100	1 to 3	82	L 730 x W 350 x H 594	456610

Membrane tanks

Guarantee 2 years

2-year guarantee - CE certification acc. to 2014/68/EU Directive - Pre-set pressure: 2 bar - Temperature: -10°C to +90°C - Food quality & safety membrane.

WRAS APPROVED PRODUCT · ACS Drinking water · CE

5 to 19 l

24 l

Standard

volume (l)	type	max. pressure (bar)	Ø connection M	height (mm)	length (mm)	Ø tank (mm)	code
5	V	10	1"	320		160	301005JE
8	V	10	1"	335		200	302008JE
19	V	10	1"	410		270	301019
20	V	10	1"	495		250	301020
24	V	10	1"	340		350	301024

H: horizontal

V: vertical

volume (l)	type	max. pressure (bar)	Ø connection M	height (mm)	length (mm)	Ø tank (mm)	code
20	H	10	1"		500	250	303020
40	H	10	1"		560	345	303040
60	V	10	1"	815		380	309060
60	H	10	1"		650	380	309061
80	V	10	1"	790		450	309080
80	H	10	1"		640	450	309081
100	V	10	1/2" & 1"	910		450	309100
100	H	10	1/2" & 1"		750	450	309101
200	V	10	1/2" & 1"1/2	1215		554	309200
200	H	10	1/2" & 1"1/2		1020	554	309201
300	V	10	1/2" & 1"1/2	1375		625	309300
300	H	10	1/2" & 1"1/2		1190	625	309301
500	V	10	1/2" & 1"1/2	1460		775	309500
750*	V	10	1/2" & 1"1/2	1925		790	309750
1000*	V	10	1/2" & 2"	1915		935	309900

* please consult for specific freight charges

High pressure

volume (l)	type	max. pressure (bar)	Ø connection M	height (mm)	Ø tank (mm)	code
20	V	16	1"	485	250	308020
100	V	16	1/2" & 1"	915	464	309103
200	V	16	1/2" & 1"1/2	1220	556	309203
300	V	14	1/2" & 1"1/2	1370	626	309303
495	V	12	1/2" & 1"1/2	1461	777	309503

20 l

100 l to 495 l

Membranes on request

Diaphragm tanks

Guarantee 5 years

5-year guarantee - No maintenance required - CE certification acc. to 2014/68/EU Directive - Double layer - Stainless steel connections - Pre-set pressure: 2 bar - Temperature: -10°C to +99°C.

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19 l to 40 l

20 l to 100 l

60 l to 280 l

NEW

volume (l)	type	max. pressure (bar)	Ø connection M	height (mm)	length (mm)	code
19	V	10	1"	450	250	304019
19	V	16	1"	450	250	304018
24	V	10	1"	450	250	304024
40	V	10	1"	450	380	304040
20	H	10	1"	280	490	304021
60	H	10	1"	430	430	304061
100	H	10	1"	485	485	304101
60	V	10	1"	780	380	304060
100	V	16	1"	840	450	304100
140	V	16	1"	1070	450	304140
200	V	10	1"	1150	554	304200
280	V	10	1"	1250	624	304280
430	V	10	1"1/4	1580	630	304430

Diaphragm tanks

5-year guarantee - No maintenance required - CE certification acc. to 2014/68/EU Directive.

Challenger

Max. temperature: 90°C - Stainless steel 316 connections.

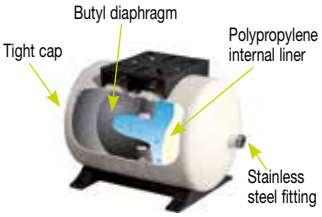
volume (l)	type	max. pressure (bar)	Ø connection M	height (mm)	length (mm)	code
8	V	10	1"	315	200	305008JE
18	V	10	1"	370	280	305018
18	V	16	1"	370	280	305019
24	V	10	1"	440	290	306024

Pre-set: 1,9 bar.

H: horizontal

volume (l)	type	max. pressure (bar)	Ø connection M	height (mm)	length (mm)	code
20	H	10	1"	290	440	305020
60	H	10	1"	410	530	305060
80	H	10	1"	425	730	305080
100	H	10	1"	480	720	305101

Pre-set: 1,9 bar.



V: vertical

volume (l)	type	max. pressure (bar)	Ø connection M	height (mm)	length (mm)	code
60	V	10	1"	620	390	305059
80	V	10	1"	815	390	305079
100	V	10	1"	805	430	305100
150	V	10	1"	820	530	305150
200*	V	10	1"1/4	1034	534	306201
240*	V	10	1"1/4	1201	534	306240
310*	V	10	1"1/4	1488	534	306310
450*	V	10	1"1/4	1505	660	306450

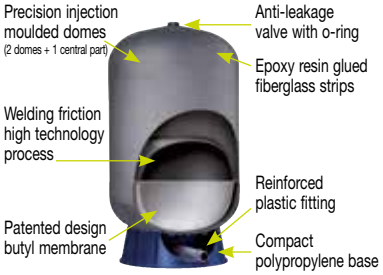
Pre-set: 1,9 bar; except * 2,6 bar.

C2-Lite

Fiberglass tank: leight weight - Max. temperature: 50°C.

volume (l)	type	max. pressure (bar)	Ø connection M	height (mm)	weight (kg)	code
60	V	8,6	1"	950	9	318060
100	V	8,6	1"	980	12	318100
130	V	8,6	1"	1241	15	318130
250	V	8,6	1" 1/4	1355	25	318250
350	V	8,6	1" 1/4	1448	33	318350
450	V	8,6	1" 1/4	1831	37	318450

Pre-set: 1,4 bar.



AWB

All weather for outdoor installation - Carbon steel tank with polypropylene shell - Stainless steel connection.

volume (l)	type	max. pressure (bar)	Ø connection M	height (mm)	length (mm)	code
18	V	10	3/4"	425	276	318018
24	V	10	1"	454	301	318024

Pre-set: 1,9 bar.

Manometers - Dry - ABS plastic box

Acc. to EN837-1 - Temperature range: -20°C/+60°C - Brass connection - Acrylic glass - IP43 - Class 2,5.

Ø 50 - Axial

pressure (bar)	Ø connection	code
0 - 6	1/4"	413006JE
0 - 10	1/4"	413010

Ø 50 - Radial

pressure (bar)	Ø connection	code
0 - 6	1/4"	413106
0 - 10	1/4"	413110JE

Other pressure settings & Ø, see page 402

Manometers - Glycerin filled - Stainless steel box

Acc. to EN837-1 - Temperature range: -20°C/+60°C - Brass connection - Plexiglass glass - IP65 - Safety vent - Class 1,6.

Ø 50 - Axial

pressure (bar)	Ø connection	code
0 - 2,5	1/4"	413203
0 - 6	1/4"	413206
0 - 10	1/4"	413210
0 - 16	1/4"	413216

Ø 50 - Radial

pressure (bar)	Ø connection	code
0 - 2,5	1/4"	413303
0 - 6	1/4"	413306
0 - 10	1/4"	413310
0 - 16	1/4"	413316

Ø 63 - Axial

pressure (bar)	Ø connection	code
0 - 2,5	1/4"	413403
0 - 6	1/4"	413406
0 - 10	1/4"	413410
0 - 16	1/4"	413416
0 - 25	1/4"	413425

Ø 63 - Radial

pressure (bar)	Ø connection	code
0 - 2,5	1/4"	413503
0 - 6	1/4"	413506
0 - 10	1/4"	413510
0 - 16	1/4"	413516
0 - 25	1/4"	413525

Other pressure settings & Ø, see page 402

Manometer holder valves

Ø	pack	code
1/4"	50	ZRI08
3/8"	50	ZRI12
1/2"	25	ZRI15

Ø	code
1/4"	1306002
3/8"	1306003
1/2"	1306004

Ø	code
1/4"	9880302
1/2"	9880304

Pressure controllers

		code
Manotroll 0-10 bar	For network - Ø 63 mm - Class 1,6 - Brass material in contact with the fluid - ABS plastic box - Max. pressure indicator - 3/4" threaded fitting & 1" adaptor.	411040
Vazpress 0-4 bar	For pressurised tank - Ø 50 mm - Class 2,5 - Brass material in contact with the fluid - ABS plastic box with protection - Needle valve for unflating - 15 cm flexible hose with quick valve fitting.	411041
Dom set 7 m - Ø 22	For network - Ø 50 mm - Class 2,5 - Brass material in contact with the fluid - Stainless steel box with protection - For 8 to 20 mm holes - Pressure ranges colour marking - Max. temperature: 60°C.	411042

Connection set

		code
Connection set GC	Includes flexible hose 500 mm - 1", 5-way fitting, pressure switch XMP 6 PM, manometer 0-6 radial, teflon roll.	455090

Pressure switches

		code
Standard	ΔP adjustable - Pre-set: 1,4 to 2,8 bar - Fitting F 1/4" - 230V 16A.	003170

		code
Standard + wire	Pre-set: 2 to 3,5 bar - Fitting F 1/4" - Supplied with wire - 230V 16A.	003121

Telemecanique

		code
XMP 6 bipolar	Max. pressure: 6 bar - Min. ΔP: 0,6 bar - Pre-set: 1,4 to 2,8 bar - Max. power: 1,5 kW (for 1~230V) - Fitting F 1/4" - Temperature: 0 to 70°C - Wired with standard take-off.	412500
NEW **XMP 6 wired bipolar**	Same as XMP 6 bipolar, except: wired included.	412504

Telemecanique

		code
XMP 6 PM bi/tripolar	Max. pressure: 6 bar - Min. ΔP: 0,6 bar. Pre-set: 2 to 3,5 bar - Max. power: 3 kW (for 3~400V) - Fitting F 1/2" - Manometer outlet F 1/4" - Temperature: 0 to 70°C.	412506
XMP 12 PM bi/tripolar	Same as XMP 6 PM, except: max. pressure: 12 bar, min. ΔP: 1 bar, pre-set: 4 to 6 bar.	412512

Telemecanique

		code
XMX Reversed with manometer inlet	Lack of water switch-off device - Pre-set: 0,5 to 1,5 bar - Usable only with remote control - Fitting F 1/2" - Manometer outlet F 1/4" - Temperature: 0 to 70°C - Max. pressure: 6 bar.	412560

HUBBELL

		code
69 WEC bipolar with switch & lack of water protection	Max. pressure: 4,5 bar - Min. ΔP: 0,9 bar - Pre-set: 1,3 to 2,6 bar - Max. power: 1,1 kW (for 1~230V) - Fitting F 1/4" - Low pressure (0,4 bar) switch-off device.	412550

HUBBELL

		code
69 WR3 Reversed	Lack of pressure switch-off device - Pre-set: 0,3 to 0,7 bar - Max. power: 1,5 kW (for 1~230V) - Fitting F 1/4".	412552

MOELLER

		code
MCS 11 Universal unipolar	Lack of water swich-off device - Pre-set: 0,2 to 0,5 bar - Usable only with remote control - Fitting F 1/4" - Temperature: -25°C to 80°C - Max. pressure: 11 bar - Protection IP55.	410501
MCS 22	Same as MCS 11, except max. pressure: 22 bar.	410502

ELEMENT

		code
ELT	Pressure setting: -0,2 - 8 bar - Differential pressure: 0,6 - 3 bar.	132001SE
	Pressure setting: 5 - 16 bar - Differential pressure: 1 - 3,5 bar.	132002SE
	Pressure setting: 5 - 28 bar - Differential pressure: 2 - 10 bar.	132003

More information page 214

Automatic devices

To be used with membrane or diaphragm pressurised tanks.

		code
Automatic device set for water tanks 8 to 60 l	For domestic pumps 1~230V, up to 1 CV - Includes pressure switch with lack of water protection, manometer, check valve.	415000

		code
Presscontrol	Lack of water & hammer protection - For 1~230V surface pumps - Max. power: 1,5 kW - Max. pressure: 10 bar - Max. flow: 6 m³/h - Restart pressure: 1,5 bar - Min. pump pressure: 3 bar - Protection IP65 - Max. temperature: 60°C - Fittings M 1".	416000

		code
Presscontrol wired	Same as Presscontrol, except: wiring included.	416001

		code
Presscontrol UP adjustable	Same as Presscontrol, wired - Except: automatic reset mode after shut-down in case of lack of water.	416040

		code
Mascontrol	Lack of water & hammer protection - For 1~230V surface pumps - Max. power: 2,2 kW - Max. pressure: 10 bar - Max. flow: 6 m³/h - Restart pressure: 1,5 bar - Min. pump pressure: 3 bar - Protection IP65 - Max. temperature: 60°C - Fittings M 1"1/4.	416006

		code
Mascontrol UP tripolar	Same as Mascontrol, except: automatic reset mode after shut-down in case of lack of water, 3~400V, pre-wiring.	416009JE

		code
Controlpres	Same as Mascontrol - Adjustable pressure: 3 to 6,5 bar - Max. pump pressure: 12 bar.	416007

		code
Electrovarem	Lack of water & hammer protection - 3 l tank included - With built-in manometer - For surface pumps 1~230V, 12 A - Max. power: 1,5 kW - Max. pressure: 10 bar - Max. temperature: 60°C - Fitting M 1".	416035

		code
Hydrotech 200	Lack of water & hammer protection - For 1~230V surface pumps - Max. power: 1,3 kW - Max. pressure: 10 bar - Max. flow: 5 m³/h - Fittings MM 1".	003189

		code
Brio 2000 M	Lack of water protection device - For surface & submersible pumps with pressure over 1,5 bar (max. power: 1,2 kW) - Max. pressure: 10 bar - Connections FM 1" - 1,5 m wire.	003251

		code
Protection	Lack of water protection device - For surface pumps 1~230V, max. 10A - 2,3 kW - Pressure: 0,6 to 6 bar - Connections FM 1" - 1,2 m wire.	003361

		code
HTX	Lack of water protection device - Manual resetting (restart) - For surface pumps 1~230V, 3 A to 8 A - Temperature: -5°C to 45°C.	003161

		code
HDS 10 A	Lack of water protection device - Manual resetting (restart) - For surface pumps 1~230V, 5 A to 10 A - Temperature: -5°C to 45°C.	433501

Level switches

With neoprene wire.

			code
Bip Stop VS 2 threads + special earth connection	Drainage use - Differential angle 110° - All directions use - Fluid density 0,60 to 1,15 - Max. pressure: 5 bar - Max. temperature: 85°C - 135 x 70 mm - Elec.: 20 (8) A 250V - Protection IP68 - Includes socket male/female.	5 m 10 m 20 m	411260 411265 411270

			code
TM-Red 3 threads	Drainage or filling use - Elec.: 10 (4) A 250V - Direct start 1,1 kW single phase - Max. temperature: 50°C - 105 x 54 x 120 mm.	5 m 10 m 20 m	411525 411530 411535

			code
Microstart VR	Drainage or filling use - Elec.: 20 (8) A 250V - 3 threads - Max. pressure: 10 bar - Max. temperature: 55°C - 142 x 80 mm - Differential angle 60° - Protection IP68.	5 m 10 m 20 m	411105 411110 411120

		code
Counter-weight	275 g.	411595

		code
Adjustable ballast	Resin - 175 g - Includes blocking fitting.	411585

		code
Cable hook		411590

Level monitors

With neoprene wire - 2 monitors needed for automatic control - All directions use - To be used with control panel for drainage & filling.

			code
Meca Small Ecolo	Elec.: 16 (6) A 250V - 130 x 70 mm - Max. temperature: 70°C - Differential angle 25°.	5 m 10 m 20 m	411405 411410 411420

			code
Meca Ecolo	Elec.: 16 (6) A 250V - 5 waterproof compartments - 170 x 80 mm - Max. temperature: 70°C - Differential angle 25°.	5 m 10 m 20 m	411705 411710 411720

			code
Soba Tech	Very dirty water use - 152 x 95 mm - Max. temperature: 70°C - Without ballast - Differential angle 25°.	5 m 10 m 20 m	411905 411910 411920

			code
Meca Ecolo "All Hypalon"	Use: liquid with oil, hydrocarbures, chlore, some acids, alcalines, etc... - Elec.: 16 (6) A 250V - 5 waterproof compartments - 200 x 92 mm - Max. temperature: 95°C - Differential angle 25°.	5 m 10 m 20 m	411725 411735 411745

			code
IFB Blue 3 threads	Lifting stations use - Wire A05 VV-F - Temperature: 55°C - 10 A 250V - Differential angle 10°.	5 m 10 m 15 m 20 m	412605 412610 412615 412620

			code
IFB compact	Same as IFB Blue 3 threads, except smaller dimensions for compact volume.	10 m	413610

Level detectors

			code
Tuba Ecolo 1"	Neoprene wire - 8 (4) A 250V - 160 x 25 mm - Differential angle 10°.	5 m 10 m	405005 405010

			code
Tuba Ecolo 1"1/4	Neoprene wire - 12 (4) A 250V - 160 x 36 mm - Differential angle 20°.	5 m 10 m	411815 411820

Control panel

Motor protection & level monitoring for 1~230V & 3~400V pumps - 6 modes: 1 electrode, 2 electrodes, without protection, reversed pressure switch, pulse meter.

		code
DSN 61 control panel	With contactor up to 12A.	471261
	With contactor up to 18A.	471263

		code
Sound alarm set	With contactor up to 12A.	471699

		code
DSN electrode		414000
Stainless steel electrode		414010
Cable*	For electrode - 1 x 1,5 mm² - Food quality & safety.	431600

* price/meter.

		code
Sound alarm	Noise intensity 90 dB - 1~230V.	471701
Sound alarm with 36 hours running reserve		471702

		connectors	Ø cable	code
Superclick tight connection set	IPX8 - Reticulated polymere gel - Max. wire Ø 14 mm - Connectors 1,5 to 6 mm².	3	14	432120
		5	20	432121

Pipes & fittings

		length (m)	Ø pipe	code
Flat discharge pipe	PVC pipe.	10	25	005110
		25	25	562525
		10	30	005111
		25	32	562532
		25	40	562540
		25	50	562550

		length (m)	Ø pipe	code
Flat discharge set	PVC pipe - 2" camlock fitting - Male or female nipple to be mounted on the pump.	10	50	454509

		length (m)	Ø pipe	code
Flat discharge pipe & fittings	PVC pipe - Symmetrical fittings at both ends - Temperature: -10°C to 60°C - Pressure 8 bar at 20°C.	10	32	454507
		20	32	454517
		10	40	454508
		20	40	454518
		10	50	454510
		15	50	454515
		10	80	454511

		code
Discharge set	For outlet Ø 53/63 - Bore 50 - Includes check ball valve, fitting MM 2", PVC ball valve with full bore & 2 end fittings.	455010
Valve set	Same as discharge set but without check ball valve.	455011

		Ø	code
PVC check ball valve	Threaded FF - Max. pressure: 10 bar - PVC body & ball - Max. temperature: 60°C.	1"1/4	334007
		1"1/2	334008
		2"	334009
		2"1/2	334010
		3"	334011

		code
Anti-smell cartridge	For lifting stations & septic tanks - 100 mm diameter - Bad smells remover & hydrogene sulphide filter.	550400

Filtration pumps

Pallet of 28 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m^3/h)	max. height (m)	code
SPR 300	300	0,5	1~230	7	8	002960

For aboveground pool (10 to 20 m^3).

Pallet of 28 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m^3/h)	max. height (m)	code
SPR 500	500	0,7	1~230	10	11	002961

For 20 to 30 m^3 pool.

Pallet of 28 pcs

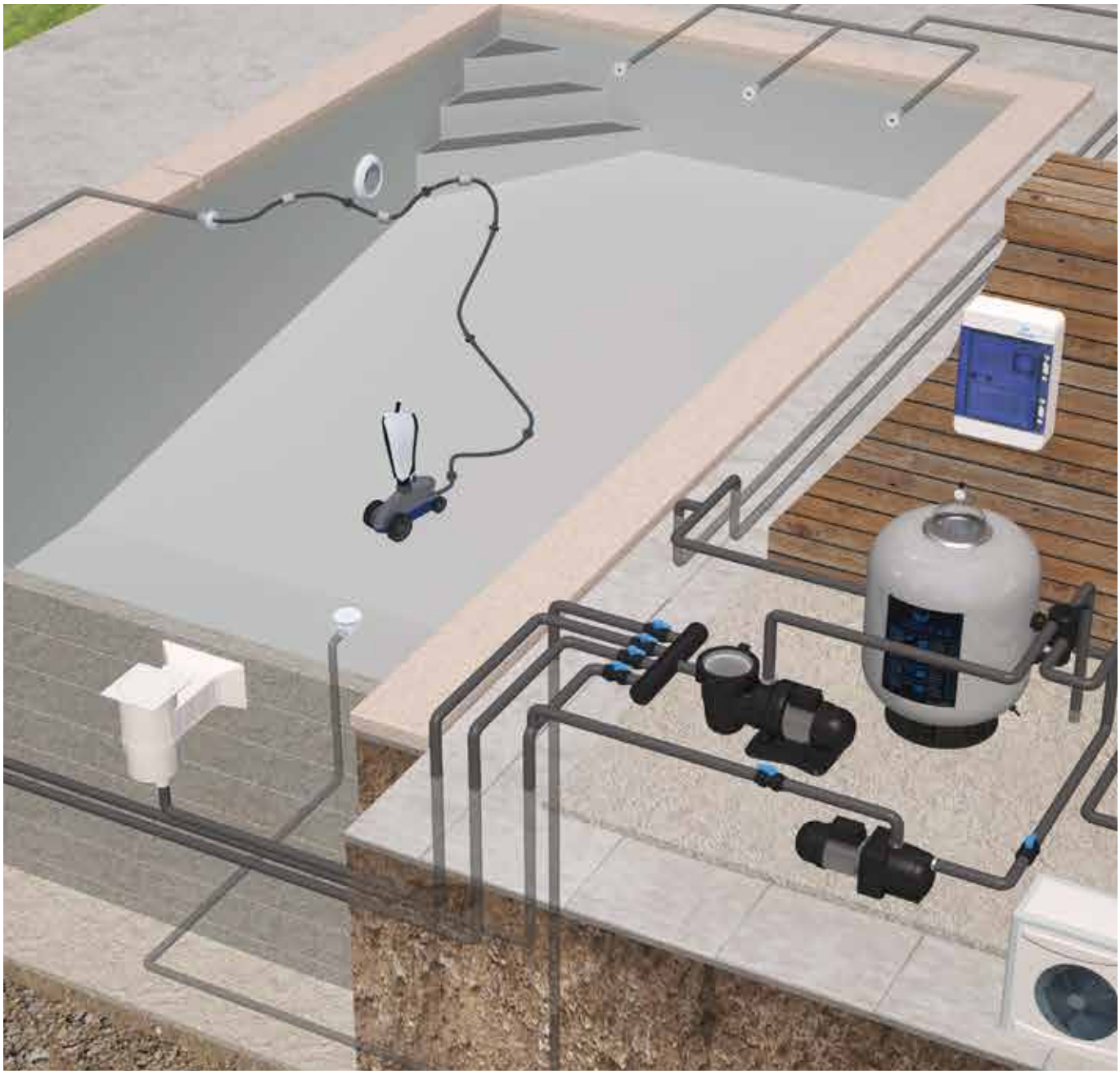
	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m^3/h)	max. height (m)	code
SPR 800	800	1	1~230	15	13,5	002962

For 25 to 50 m^3 pool.

Pallet of 28 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m^3/h)	max. height (m)	code
SPR 1100	1100	1,5	1~230	22	16	002963

For 35 to 80 m^3 pool.



Filtration

Combo filter

	pool volume (m³)*	pump power supply (W/hp)	max flow (m³/h)	tank (l)	Aqualoon included (g)	code
Combo set	6-8	90 / 0,12	3,5	2	70	002939

Combo-S1

Combo-S2

Combo-4

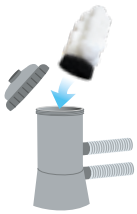
Combo-6

	pool volume (m³)*	pump power supply (W/hp)	max flow (m³/h)	tank (l)	Aqualoon included (g)	code
Combo-S1	6-10	100 / 0,15	3	12,5	320	002940
Combo-S2	10-12	200 / 0,3	4	25	550	002941
Combo-4	12-15	200 / 0,3	4	25	640	002942
Combo-6**	20-25	450 / 0,6	6	25	800	002943
Combo-10***	30-35	600 / 0,8	10	50	1000	002944

Pipes Ø 1"1/4-1"1/2. Sold with Aqualoon, see below.

*capacity varies according to climate. **Includes prefilter. ***Includes prefilter + timer

Combo-10



		code
Aqualoon recharge box 700g	3µ filtration polyethylene balls - Box of 700 g - Replaces sand: 700 g Aqualoon correspond to 25 kg sand - Advantages: light, less back-wash, less water consumption, chemical resistant, recyclable, non toxic.	002946
Filter cartridge	Textile net.	002948

PVC fittings

Reduced nipple

	code
F1"1/4 - M1"	261200
F1"1/2 - M1"1/4	261210
F2" - M1"1/2	261220
F2"1/2 - M2"	261230

Fitting to be glued

	code
F1"1/2 - M50 - F40	261280
M1"1/2 - M50 - F40	261290

Free nut nozzle

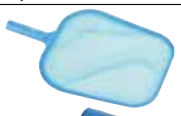
	code
F1"1/4 - Ø 27 or 25	261240
F1"1/2 - Ø 32 or 30	261250
F2" - Ø 42 or 40	261260
F2"1/4 - Ø 52 or 50	261270

EPDM flat gasket

	code
1"	261300
1"1/4	261310
1"1/2	261320
2"	261330
2"1/4	261350

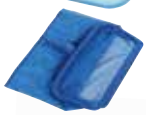
Mandatory packing applies

Maintenance accessories



Surface net

pack	code
50	002970



Depth net

pack	code
8	002971

Surface net With 120 cm handle

pack	code
12	002972

Wall brush

pack	code
48	002973

Hand brush

pack	code
56	002974

Broom head

pack	code
8	002975

Telescopic handle 3 x 120 cm

pack	code
10	002984

Floating PE pipe

	pack	code
Ø 32 mm x 5 m	3	002985
Ø 38 mm x 8 m	2	002986

Cleaning set 5 pieces

pack	code
8	002977

Triangular suction head

pack	code
7	002976

Thermometer

pack	code
100	002979

pH/Chlorine measuring set

pack	code
108	002980

pH/Chlorine bottle

pack	code
144	002981

Small pebble diffuser

pack	code
36	002982

Big pebble diffuser

pack	code
16	002983

Sliceable PE pipe

	pack	code
Ø 32 mm x 15 m	2	002987
Ø 38 mm x 15 m	2	002988

Filtration pumps

T-water	power supply (hp)	flow (m³/h)	max. height (m)	1~230V (50Hz) code	3~400V (50Hz) code
Alfa	0,3	8	13	101071030	-
	0,5	11	14	101071050	-
	0,75	13,5	15	101071070	101071073
	1	18	16	101071100	101071103
	1,5	21	19	101071150	101071153
	2	24	20	101071200	101071203
	3	29	22	101071300	101071303

T-water	power supply (hp)	flow (m³/h)	1~230V (50Hz) code
Alfa	3	5 to 30	101071999

Speed variation.

KRIPSOL	power supply (hp)	flow (m³/h)	max. height (m)	1~230V (50Hz) code	3~400V (50Hz) code
KS	0,5	7,5	14	101001050	-
	0,75	11,5	16	101001070	101001073
	1	15,4	18	101001100	101001103
	1,5	21,5	18	101001150	101001153
	2	25,7	18	101001200	101001203
	3	29,5	18	101001300	101001303

PENTAIR	power supply (hp)	flow (m³/h)	max. height (m)	1~230V (50Hz) code	3~400V (50Hz) code
Sta-Rite 5P6R Freshwater	0,75	14	16	101027070	101027073
	1	17	18	101027100	101027103
	1,5	23	19	101027150	101027153
	2	27	20	101027200	101027203
	3	32	23	101027300	101027303
Sta-Rite S5P2R Salty water	0,5	8	18	101026050	101026053
	0,75	12	18,5	101026070	101026073
	1	14	20	101026100	101026103
	1,5	18	22	101026150	101026153
Sta-Rite S5P2R Salty water	1,5	4 to 20		101026995	

Speed variation.

PENTAIR	power supply (hp)	flow (m³/h)	1~230V (50Hz) code
Whisperflo® VS2	1,5	5 to 25	101021995

Speed variation.

HAYWARD	power supply (hp)	flow (m³/h)	max. height (m)	1~230V (50Hz) code	3~400V (50Hz) code
Super Pump® Pro	0,75	10	12,5	101031070	-
	1	12,5	14	101031100	101031103
	1,5	15,5	15,5	101031150	101031153
	2	19	19	101031200	101031203

T-water	power supply (hp)	flow (m³/h)	max. height (m)	3~400V (50Hz) code
MGN 1450	2,5	32	12	101079253
	3	43	13	101079303
	4	56	15	101079403
	5	84	15	101079553
	7,5	107	15	101079753
	10	126	18	1010791003

Commercial use.

Filtration

PENTAIR	nominal flow (m³/h)	max. flow (m³/h)	filtration area (m²)	Ø filter (mm)	height (mm)	filter code	cartridge code
Clean & Clear Plus	14	27,3	22,3	546	940	152021020	157021020
	18	29,8	29,7	546	1 092	152021030	157021030
	22	32	39	546	1 244	152021039	157021039
	30	34	48,3	546	1 422	152021049	157021049

Reinforced fiberglass polyproylene tank - 20 µm filtration - Includes 4 cartridges & Ø 50 mm fitting.

NEW

T-water	flow (m³/h)	Ø filter (mm)	Ø valve (mm)	sand capacity (kg)	gravel capacity (kg)	Silverloon® capacity (boxes)	code
Elit	6,3	400	1"1/2	50	15	1	151082400
	10	510	1"1/2	75	25	1,5	151082510
	15	620	1"1/2	100	50	3	151082620
	16	620	2"	100	50	3	151082622
	18	680	2"	125	72	3,5	151082680
	22	750	2"	150	75	4	151082750
	32	900	2"	225	100	please consult	151082900

Laminated polyester tank - Includes valve - Sand, gravel & fittings not included.

PENTAIR	flow (m³/h)	Ø filter (mm)	Ø valve (mm)	sand capacity (kg)	gravel capacity (kg)	code
Eos	9	480	1"1/2	50	25	151021475
	14	610	1"1/2	100	50	151021610
	16	610	2"	100	50	151021612
	22	760	2"	200	75	151021760
	32	910	2"	250	100	151021910

One-piece fiberglass polyester tank - Includes valve - Sand, gravel & fittings not included.

		code
Silverloon®	3 µm filtration polyethylene balls with silver nano-particles - Box of 700 g - Replaces sand: 700 g Silverloon® correspond to 25 kg sand - Advantages: light, less back-wash, less water consumption, chemicals resistent, recyclable, non toxic.	159095100

		code
Retainer	Retains the balls during washing in filter without top diffuser.	159099015

		code
Silverloon® skimmer	Prefiltration & downstream filter medium protection - 10 ball basket.	1590905010

Water booster set

DAB	power supply (hp)	flow (m³/h)	max. height (m)	1~230V (50Hz) code	3~400V (50Hz) code
Jetcom	0,75	3,2	48	103011070	-
	1	4,0	52	103011100	103011103

Water booster cleaner

NEW

380 280

ZODIAC			code
Polaris 380	Energy saving water booster - 3 venturi jets - Filtration bag - Supplied with 9 m pipe - Retain valve - Max. pool dimensions: 12 m x 7 m.	3/4 hp	252061380
Polaris 280		1 hp	252061280

Hydraulic water cleaners

ZODIAC		code
MX9 pro®	1 propeller - 2 fans - Min. pump power: 3/4 hp - Pre-programmed navigation system - Max. pool dimensions: 12 m x 6 m.	253061900

HAYWARD		code
Aquanaut 250	Adjustable section with 3 interchangeable inlets - Leaf trap - V-Flex propeller - Supplied with 10 x 1 m pipes.	253031250

Drainage pump

Professional floating motor pump for quick pool emptying, maintenance & fire-fighting - Above 2 cm water suction - Immediate self-priming - Very high flow for long-range fire hose - Pool, river, lake, etc. - 4-stroke motor (Briggs & Straton for 3,5 V; Kawasaki for 6V).

	power supply (hp)	flow (m^3/h)	tank (l)	max. pressure (bar)	weight (kg)	operating time (mn)	code
Aquafast	3,5	42	0,85	1,7	21	40	108099035
	6,0	70,8	2	2,5	26	60	108099060
Red fire pipe	2" - 20 m - 2 symmetrical nozzles - Max. pressure 18 bar.						1070992052
Fire hose	With valve.						1070990001

Water treatment

Electrolyser with polarity reversal - "T" design self-cleaning cell & new technology mixed electrode - Roll-on cover power reduction mode - Up to 24 h over-chlorination mode - Salt range 2,5 to 4 g/l - Safety: salt rate too low & lake of water - Progressive polarity reversal: 2 to 16 h adjustable, depending on water hardness - Low mode & boost mode - Cell dimensions 295 mm x 86 mm x 140 mm - Cell max. pressure 2 bar - Cell max. flow 22 m3 or by-pass - Min. salt level 2,5 g/l - Recommended salt level in early season 4 to 5 g/l - Max. water temperature 40°C - Box dimension: 230 mm x 330 mm x 140 mm - Approx. total weight: 6 kg.

		code
AE Salt	10 g/h chlorine production - 50 m^3.	502021040
	17 g/h chlorine production - 80 m^3.	502021070
	23 g/h chlorine production - 110 m^3.	502021100

Electrolyser with pH control - Built-in Bluetooth for smartphone or home automation control - Compatible with INDYGO filtration control panel - Chlorine production: manual or automatic with ORP set - pH dosing pump 2,4 l/h - Proportional pH control - Water temperature measuring - Automatic wintering at 15°C - LCD screen - Adjustable lack of water protection, salt level & cell defect - Supplied with 5 connection manifold, installation elements & temperature, salt & pH probes.

		code
AE Salt Duo	10 g/h chlorine production - 50 m^3.	502022051
	17 g/h chlorine production - 80 m^3.	502022081
	23 g/h chlorine production - 110 m^3.	502022111
AE Salt Pro	REDOX option - Automatic control of chlorine production - Supplied with ORP probe, calibration solution & installation set.	502022004

		code
RCA jack cable	For roll-on cover connection.	502592109

			code
Pool earth	Connection between water & earth.	Pipe Ø 50 mm	502592201
		Pipe Ø 63 mm	502592202

		code
Earth stake	Copper - 5 m.	502599101

Acid or base dosing pump - Adjustable pH display: 6,8-7,6 - Preset pH = 7 to 10 - Probe with preserving solution - Supplied with monitoring set.

		code
AE pH	Flow: 2,4 l/h - Max. pool volume: 160 m^3.	504021110

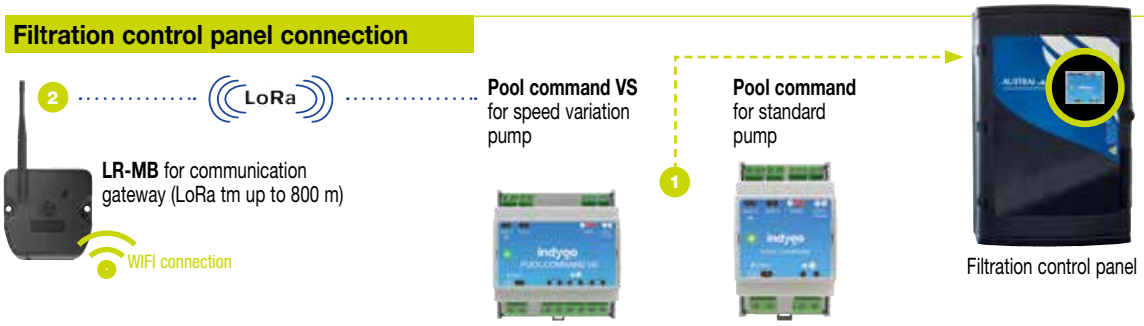
		code
Flovil Classic	Ultra concentrated flocculent/clarifier - Blister with 9 tabs.	50114012
Flovil Choc	Flocculent/clarifier for cloudy water - Box with 12 tabs.	50114031

In-line dosing device for chlorine pebbles only - 1 month duration treatment - Includes control valve - ⚠ No chlorine shock product, no powder product.

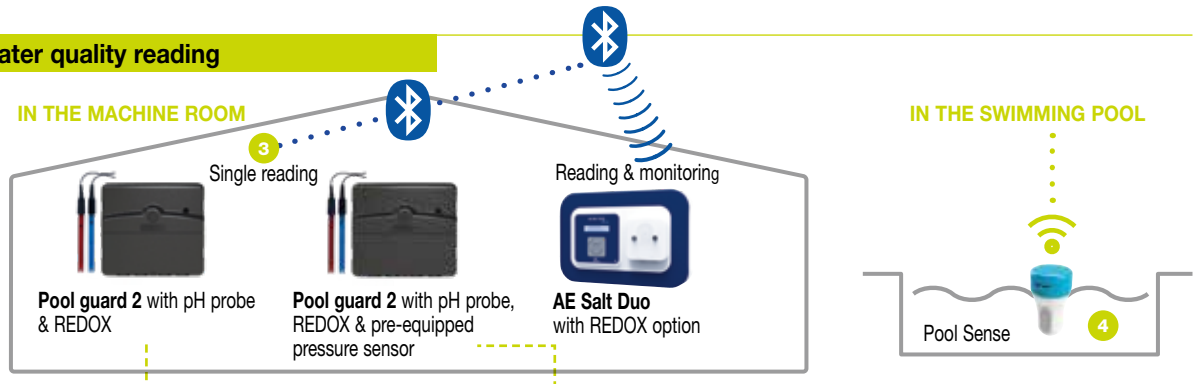
		code
In-line dosing device	450 x 127 mm - Connection 50 mm - Max. pool volume 90 m^3.	503040502
	HAYWARD 390 x 206 mm - Connection 1"1/2 - Max. pool volume 150 m^3.	503010504

Home automation filtration control

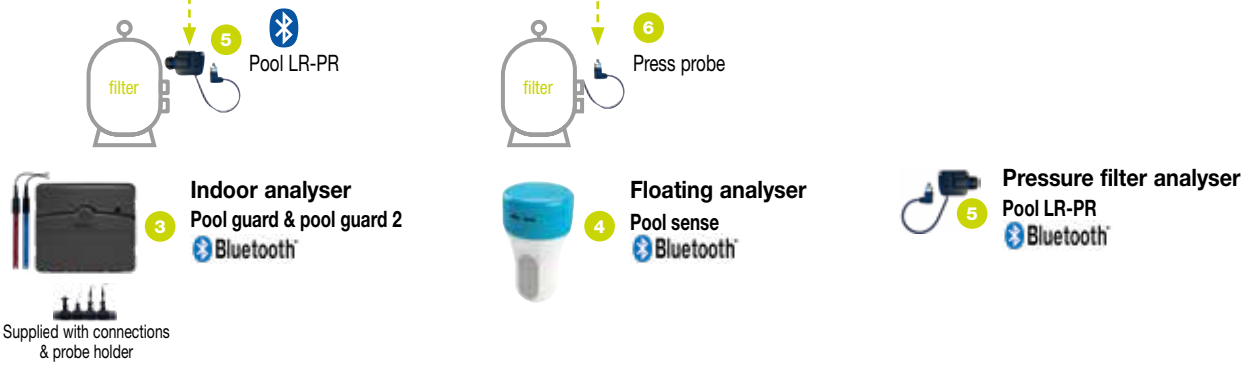
Filtration control panel connection



Water quality reading



Pressure parameters reading



Indoor analyser
3 **Pool guard & pool guard 2**
Bluetooth
Supplied with connections & probe holder

Floating analyser
4 **Pool sense**
Bluetooth

Pressure filter analyser
5 **Pool LR-PR**
Bluetooth

Electrolyser with pH control - Built-in Bluetooth for smartphone or home automation control - Compatible with INDYGO filtration control panel - Chlorine production: manual or automatic with ORP set - pH dosing pump 2,4 l/h - Proportional pH control - Water temperature measuring - Automatic wintering at 15°C - LCD screen - Adjustable lack of water protection, salt level & cell defect - Supplied with 5 connection manifold, installation elements & temperature, salt & pH probes.

		code
❶ **Pool command**	Standard pump panel plug-in.	355460401
❶ **Pool command VS**	Speed variation pump panel plug-in.	355410199
❷ **LR-MB**	Communication gateway plug-in.	355450301
❸ **Pool guard**	Indoor analiser plug-in.	355410205
❸ **Pool guard 2**	Indoor analiser plug-in & pre-equipped pressure sensor.	355410215
❹ **Pool sense**	Floating plug-in.	355410201
❺ **Pool LR-PR**	Complete sensor pressure switch plug-in.	355410206
❻ **Press probe**	Pressure sensor for Pool guard 2.	355410216

Filtration control panel with built-in INDYGO Pool command - Monophased wired pre-equipped - Intelligent clock - Thermo-regulated filtration - Supplied with temperature probe - Auxiliary 1 connected to the projectors - Bluetooth filtration monitoring - Internet connection with LR-MB communication gateway plug-in - IP55.

		code
Filtration control panel	0,75 hp - 4 to 6,3 A - 100 W - 1 to 2 LEDs.	351153058
	1 to 2 hp - 6,3 to 10 A - 100 W - 1 to 2 LEDs.	351153108

Skimmer level control panel

Level control panel for pools with skimmer & spas - Low consomption of water - 1 m wire adjustable probe - Probe/panel connection up to 80 m - Water detection without electric contact - Anti-wave temporisation, filling protection & frost protection (at 3°C) - Supplied with 2 quick & tight installation sets (with Scotchlock threads) - 24V solenoid valve to be added.

	code
Epsil'O	35220001

Above ground & small pool heat pump

Anti-corrosion & anti-UV housing - Operation up to 10°C (heating only) - 32/38 mm connection (fluted ends) - Free app connection & monitoring - Dimension: 418 x 399 x 420 mm - Wire 3 x 2,5 mm² - Sound pressure 46 d(B) at 10 m.

HAYWARD	power (kW) air 15°C water 26°C	power (kW) air 27°C water 26°C	COP at 27°C	flow (m³/h)	pool volume (m³)	power consumption (kW)	current consumption (A)	code
HP2021	1,5	2,5	4,12	1,1	10	0,6	2,7	201039090
HP2031	2,23	3,5	5,12	1,6	20	0,68	2,95	201039130

Heat exchanger

For all kind of heating techniques - Low consumption circulator - Electronic controller & flow switch - Salty water compatible.

ZODIAC	primary 90°C (kW)	primary 60°C (kW)	primary 45°C (kW)	pool volume (m³)	primary flow (m³/h)	secondary flow (m³/h)	code
Heat Line	20	8,5	4	50	0,9	10	203062020
	40	17	8	120	1,7	15	203062040
	70	30	14	200	3	20	203062070

Other colours on request

Shell fittings

Skimmer
For concrete & liner pool - White ABS - Supplied with cap - 322 mm wall bushing - 40 mm overflow - 5 to 6 m³/h.

code
301215070

Level control
Max. inlet pressure 2,5 bar - Ø 3/4" connection to potable water - 275 mm height - 209 mm diameter - 50 mm connection.

code
301252000

Projector
White ABS - White or color led 12 V - 2,5 m cable - Without cable gland.

16 W - 1485 lumen
27 W - 1100 lumen

code
301283070
301283570

Cable sheath
1 m.

code
301239001

Connection box
For projector - 3 outlets - Supplied with 2 cable glands.

code
301251000

Discharge device
For concrete & liner pool - White ABS - Supplied with cap - 6 m³/h flow - 100 mm diameter - 50/2" connection.

code
301241070

Suction point
For concrete & liner pool - White ABS - Supplied with cap - 100 mm diameter - 50/2" connection.

code
301245070

Wall bushing - Concrete
300 mm length - Usable 250 mm & 175 mm - 110 mm diameter - 50/2" connection.

code
301253010

Wall bushing - Liner
300 mm length - Usable 250 mm & 175 mm - 118 mm diameter - 50/2" connection.

code
301253070

Main drain
For concrete & liner pool - White ABS - Ø 12,5 mm grid - 6 m³/h max. flow - 230 mm diameter - 2" connection.

code
301221070

Nipple
F 50 - M 2".
F 63 - M 2".

code
5523575020
5523576320

Lamp PAR 56
300 W - 12V.

code
309011300

Extra thin led 3096
21 W - 252 led - 2100 lumen - 4 m wire.

code
3096872520
3096872528

On/off radio control
For led 3096.

code
309690003

PVC pipes valves & fittings

To be glued.

Elbow 90°

Ø	pack	code
50	60	5523105050

Elbow 45°

Ø	pack	code
50	150	5523155050

Tee

Ø	pack	code
50	80	5523305050

Threaded union

Ø	pack	code
1"1/2 - 50	45	5523625015
2" - 50	40	5523625020

Ball valve

Ø	pack	code
32	30	5523903200
50	24	5523905000
63	16	5523906300

Ball check valve (vertical mounting only)

Ø	pack	code
50	24	5523805050
63	16	5523806363

3 way manifold collector

Ø	pack	code
50 - MMM50/F50	12	5523755050

Nipple

Ø	pack	code
50	100	5523405050

Reduced nipple

Ø	pack	code
M63/F50	90	5523456350

Union

Ø	pack	code
50	100	5523605050

Threaded reduced nipple

Ø	pack	code
F40/M50 - 1"1/2	130	5523574015
F50/M63 - 2"	75	5523575020

Ball valve w/ control ball

Ø	pack	code
32	25	5521913200
50	15	5521915000
63	8	5521916300

Transparent ball check valve

Ø	pack	code
50	1	5524805000
63	1	5524806300

NEW Flexible pipe B-Active

Ø	pack	code
50	12	5513050125
63	6	5513063125

25 m coil

Rigid pipe B-Active

Ø	pack	code
50	24	5513050201
63	15	5513063201

1,18 m length

Sealing products

POOL TITE® glue

	code
118 ml	555011118
237 ml	555011237
473 ml	555011473

professional use - Contains THF

FIX ALL HIGH TACK glue

Masonry work - Powerful & immediate positioning - Grey - 290 ml cartridge.

code
5550203120

Expansive foam

Blocking & filling - 600 ml spray.

code
5550613600

Spray 8 in 1

Rust protection, lubricant, cleanser, anti-moisture, anti-corrosion, shock-proof - 400 ml spray.

code
5550310408

Silicone spray

Lubricant, hydrophobic barrier, wear-proof - 400 ml spray.

code
5550410400

FIX ALL sealant-glue

125 ml tube

code
5550203128

POOL FIX sealant-glue

290 ml cartridge

	code
White	5550213280
Transparent	5550213288

Sealing fiber

For metal fittings - 40 g braid.

code
5550303040

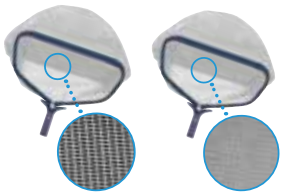
Sealing paste

For metal fittings - 100 ml tube.

code
5550303100

Maintenance accessories

			code
Maintenance set	Manual brush, liner broom head, depth net, thermometer, analysis water set (chlorine, bromine, pH).		601404899



			code
Depth net	With pickup-debris scraper.	Mesh L x 1 mm	601101200
		Mesh 5 times thinner	601101205

		code
Liner broom head	Supplied with anti-piling valve & lateral brush.	601101100

		code
12 wheel broom head	For concrete pool.	601101112

		code
Manual brush	Reinforced nylon - 48 cm width.	601101405

		code
Telescopic handle	Aluminium - For above depth net & brooms - 2,45 to 4,6 m - 2 pieces.	601121946

		code
Broom hose	EVA with PE interior spiral - 9 m - Ø 44 mm ext., Ø 38 mm int.	602013809

		code
Aquachek Yellow	4 in 1 - 50 strips - Chlorine, pH, alkalinity, cyanuric acid test.	6010880141

			code
Universal pre-filter	For skimmer basket.	36 boxes	601096033
		12 pre-filters	601096031

Outdoor showers

			code
Solar shower	25 l - 223 cm height - Polyethylene - Supplied with rinse-foot tap - Italian design & manufacturing.	Anthracite	604501107
		White	604501100

			code
Classic shower	198 cm height - Polyethylene - Hot/cold water - Italian design & manufacturing.	White	604511200

Domestic equipment & general tooling

- Heating 490
- Cooling 491
- Ventilation 492
- Humidification - Dehumidification 493
- CO_2 detection & air purification 493
- Hygiene 494
- Cleaning 495
- Compressed air equipment 496
- Power generator 496

What's new!

Mobile heating unit

p. 490

Mobile air conditioner

p. 491

CO_2 detector

p. 493

Mobile heating unit - Electric

Includes wire, adjustable thermostat, fan & overheat thermal protection - 230V AC - IPX4 for 3 000W.

NEW

heating capacity (W)	air flow (m^3/h)	surface (m^2)	pack	code
2 000	148	20	8	AME02
2 000	171	25	8	AME02C
3 000	354	30	8	AME03
3 000	420	40	6	AME03T

Mobile heating unit - Gas (butane or propane)

Includes wire, overheat thermal protection, gas shut-off safety, flexible hose & gas pressure regulator - Gas cylinder: not supplied - 230V AC.

heating capacity (W)	air flow (m^3/h)	surface (m^2)	code
15 000	320	150	AMG15
30 000	650	300	AMG30

Mobile heating unit - Gas oil

Includes wire, adjustable thermostat, overheat thermal protection, automatic shut-off safety, galvanised carbon steel tank & wheels - 230V AC.

heating capacity (W)	air flow (m^3/h)	surface (m^2)	code
30 000	850	300	AMF30

Portable blowing heater

RSP2001

RSPT2001

1 000W & 2 000W heating modes - Polypropylene body - 230V AC - Thermostat - Overheating electric protection - IP21 - Insulation class II - For RSPT2001: LCD screen control, infrared remote control, automatic oscillation, programmable timer, anti-dust filter.

	code
Standard	RSP2001
Daily programmable	RSPT2001

Portable blowing heater - With timer

800 / 1 200 / 2 000W heating modes - Carbon steel housing - 15 mn hourly or daily setting - Roll-over protection - 230V AC - 1,5 m electric cable - Mica sheet with thermostatic protection electric resistance - Mechanical room thermostat - IP20 - Insulation class I - Fireproof reinforced nylon centrifugal blower.

code
RSST2001

Convector 2 000W

3-power convector & blowing radiator: 800W, 1 200W, 2 000W - Carbon steel housing - 230V AC - 1,6 m wire - Electric resistance with thermostatic protection - Thermostat & anti-frost function - IP20 - Insulation class II - Polypropylene centrifugal fan coil.

code
CS2000

Blowing radiator

code
RSS2000

Programmable blowing radiator

code
RSST2000

Wall support set

code
KMCS

Heating

Wall blowing heater

Height intallation for downwards blowing - Motorised oscillating blowing - Window opening automatic detection - Infrared remote control - Built-in digital thermostat - Control: ventilator speed, temperature, fin blowing oscillation - White ABS housing - Tangential ventilator - 230V AC - PTC ceramic heating construction - 1 000W & 2 000W heating modes & ventilation mode - Overheating protection - Insulation class II - IP22 - Tuya smart wifi connection.

code
RSPL2000

Wall radiant heater

RID1800

Directional radiant heating - Silent - Anti-water protection - 600W, 1 200W & 1 800W heating modes - Carbon steel housing - 230V AC - Infrared lamp electric resistance - String switch - IPX4 - Insulation class I.

code
RID1800
RI1800

RI1800

Cooling

Mobile air conditioner

4 modes: automatic, cold, ventilation, dehumidification - ABS housing - 1,5 m & Ø 140 mm drainage hose - R290 refrigerant - 3-speed motor - Infrared remote control - 4-anti-dust washable air filters & 1 activated carbon filter - Anti-bactereous condensates tank - 230V AC - Insulation class I - Temperature range: 18 to 35°C - Drainage set for sliding window.

flow (m^3/h)	sound pressure (Lp at 3m dB(A))	cooling capacity (W)	heating capacity (W)	room volume (m^3)	code
360	44,5	2 600	1 000	90	CM2600

Mobile air conditioner - High thermal power

High thermal power for large rooms - 4 modes: automatic, cold, ventilation, dehumidification - ABS housing - 1,5 m & Ø 140 mm drainage home - R290 refrigerant - 3-speed motor - Rotating compressor - Infrared remote control - 4-anti-dust washable air filters & 1-activated carbon filter - Anti-bactereous condensates tank - 230V AC - Insulation class I - Temperature range: 18 to 35°C - Drainage set for sliding window.

	flow (m^3/h)	sound pressure (Lp at 3m dB(A))	cooling capacity (W)	heating capacity (W)	room volume (m^3)	code
	495	42,5	3 200	-	120	CM3200
*	495	42,5	3 220	2700	120	CMR3200
NEW **	495	42,5	3 200	-	120	CMUV3200
	430	43,5	3 700	-	140	CM3800
*	430	43,5	3 700	3 000	140	CMR3800

* hot mode additionally

** UVc photo-catalysis additionally

Door leaf window set

code
KCM

Mobile fan - Mister

3-level ultrasonic cooling technology - Air ionisation electrode - Insecticide - IceX function for performance enhancing with slab of ice - Infrared remote control - Timer & night mode - ABS black housing - 5 blades with 450 mm diameter - 3-speed ventilation - Digital pad - IP20 - Insulation class II.

room volume (m^3)	mist flow (ml/h)	air flow (m^3/h)	power (W)	tank volume (l)	code
250	220	3 100	90	3,1	BRUM200

desk

wall

pedestral

Adjustable fans

Adjustable head - 90° automatic oscillation - Removable protection grid - Infrared remote control for wall type - Light grey colour - 3-speed motor - 230V AC - Insulation class II - 140 to 180 cm adjustable height for pedestral fan.

	max. air flow (m³/h)	power (W)	sound power (Lw dB(A))	wire length (m)	IP	code
desk	2 400	35	50,8	1,8	-	VT2400
	4 000	40	57,2	1,8	-	VT4000
pedestral	4 000	40	57,2	3	-	VC4000
wall	2 400	35	50,8	-	20	VM2400
	4 000	40	57,2	-	20	VM4000

Oscillating fan

Adjustable head & closed position for easy storage - 3-speed - Automatic oscillation - 1 to 7 hour programmable stop - Touch control - Infrared remote control - ABS housing - 230V AC - Insulation class II - 1,7 m wire - Max. air flow 828 m³/h - Power consumption 42 W.

code
VTN0800

Reversible remote control indoor ceiling fan

Galvanised carbon steel pales with white rustproof epoxy coating - ABS anti-UV plastic parts - 230V AC - Insulation class I - Reversible motor - Stem 375 mm - Optional infrared remote control & built-in light.

blade diameter (cm)	flow (m³/h)	max. rotation min⁻¹	speed power (W)	sound power (Lw dB(A))	code
90	11 590	200	70	46,1	VPNE090
120	13 810	200	70	49,1	VPNE120
140	16 580	200	70	52,6	VPNE140
160	17 010	200	70	55,6	VPNE160

Transluscent light set

Energy saving bulb E27 max. 15 W & 165 mm (x 2 bulbs).

code
KLVP

Infrared remote control set

2 parts (transmitter & receiver) for speed & light control - AAA LR03 battery not included.

code
TIRVP

Stem

	code
Length 200 mm	TVP020
Length 500 mm	TVPB500E
Length 750 mm	TVP075
Length 1000 mm	TVP100

Speed variation

5 speeds - On/off - Reversible - For 1 device.

code
SVP100

VS8100

VS10800

Heavy duty fan

Big diameter for steady & powerful blowing - Attractive design - Robust carbon steel tubes - 360° orientation - 2 or 3-speed motor - 230V AC - Insulation class I - Rotary switch - 1,9 m wire.

max. air flow (m³/h)	power (W)	sound power (Lw dB(A))	diameter (mm)	code
8 100	85 - 110	67,5	650	VS8100
10 800	190 - 250	75	735	VS10800

Humidification - Dehumidification

DME10 & DME14 DME20

Mobile thermodynamic dehumidifier

Robust construction - 2 speed ventilation for DME20 - Surrounding humidity display - Programmable humidity rate setting - ABS housing with handles - Rotating compressor with automatic shut-off protection - R290 refrigerant - Anti-frost thermostat - Tank overflow protection - Anti-bactereous removable tank - Anti-dust washable filter & activated carbon filter - 230V AC - Insulation class I - Temperature use: 5 to 32°C.

room volume (m^3)	sound pressure (Lp at 1m dB(A))	condensate water volume at 30°C 80% HR (l/day)	power (W)	tank (l)	code
60	42,2	10	290	2,5	DME10
100	42	14	280	2,5	DME14
120	45,8	20	390	3	DME20

Dehumidifier - Construction site

Easy to carry - Tank overflow protection & water level detection - 24 h timer - Ergonomic interface - Automatic defrost - Air intake washable filter - Laquered carbon steel housing - 230V AC - Cooling circuit R410A - Compressor - Water tank for DMI50 - Condensates drainage hose, Ø 12 mm & 1 m length - IP22 - Sound level 55/60 dB(A) - Insulation class I - Temperature range: 5 to 35°C.

room volume (m^3)	condensate water volume at 30°C 80% HR (l/day)	air flow (m^3/h)	power (W)	tank (l)	code
300	50	350	700	7	DMI50
400	80	400	1 000	-	DMI80

CO_2 detection & air purification

NEW

CO_2 detector

White ABS housing - Built-in 2200 mAh batterie or USB wire - NDIR spectroscopic CO_2 sensor - TFT color screen - Sound alarm to be set - CO_2, temperature & humidity level reading - Data recording & data .xls generating - Includes: software, USB keys, USB wire, carrying bag.

code
DCO2

Air purifier - Domestic use

Electrostatically charged filter - High level of filtration, class e2F - Easy filter cleaning - ABS white UV-resistant housing - 3-speed motor, with 12V DC (low tension) - 230V AC - On/off function & 3-speed selection - Insulation class II.

power (W)	room volume (m^3)	code
5,3	50	PUR30

Filter

code
FPUR30

Air purifier - Professional use

4-stage high filtration level (washable polyurethane polyester pre-filter, class E10 HEPA filter, electrostatically charged filter, inosation electrode) - Robust & silent device - Thermoplastic anti-chock light grey resin housing - Self-lubricated bearing motor on 3-speed antivibration stem - 230V AC - On/off function & 3-speed selection - Adjustable base for vertical mounting - Insulation class II.

power (W)	room volume (m^3)	sound power (dB(A))	code
30	45	53	PUR45
30	70	54	PUR70

Filter

	code
For PUR45	FPUR45
For PUR70	FPUR70

Wall mounting set

code
KMPUR70

Air purifier - Professional use - Big volume

4-stage high filtration level (aluminium mesh pre-filter, electrostatic filter with electronic control, active carbon filter, ionisation electrode) - Robust & silent device - Thermoplastic anti-chock black resin housing - Self-lubricated bearing motor on 3-speed antivibration stem - 230V AC - On/off function & 3-speed selection - Adjustable base for vertical mounting - Insulation class II.

power (W)	room volume (m^3)	sound power (dB(A))	code
36	100	55	PUR100

Active carbon filter

code
FPUR100

Wall mounting set

code
KMPUR70

Soap & gel automatic dispenser

Liquid soap & hydroalcoholic gel automatic dispenser with touchless infrared detection - Adjustment of the delivered dose for each use during the installation - Remaining quantity indicator - Anti-UV resistant ABS cover - 230V AC - Power 6 W, stand-by mode 0,38 W - Peristaltic pump - Removable 0,5l PEHD soap tank - IPX4 - Shock resistance index IK9 - Class insulation II.

code
DSAVONGEL

Forced-air & water recovery automatic hand-dryer

Ultra-fast drying time & low electric consumption - Intensive use - Anti-dust air filter - Water recovery tank - Germicidal UV lamp - ABS housing - 230V AC - Heating power 1 850 W - DC EC motor - Air flow 350 m³/h - IPX4 - Insulation class I - Automatic switch-on with delay - Diffusion by pulsating nozzles - Sound pressure Lp = 76 dB(A) at 1 m.

	code
White	SMSUB
Grey	SMSUG

Forced-air automatic hand-dryer

Ultra-fast drying time & low electric consumption - Dirty filter detection light - Stainless steel cover - Antivibration resin base - Air outlet speed 100 m/s - AC motor (SMEB) & EC motor (SMESN) 30 000 turn/mn - Touchless infrared detection with automatic start & stop - Overuse safety with 50 s shut off - HEPA filter with cleanable and replaceable suction (for SMESN) - 230V AC - IPX4 - Insulation class I.

motor	air flow (m³/h)	total consumption (W)	motor consumption (W)	sound pressure (dB(A) Lp at 1 m)	code
AC	90	800	400	70	SMEBAX
EC	81	700	300	70	SMESN

Extensible magnetic hose hair-dryer

ABS nozzle with ergonomic wet hand shape - Longlasting magnetic hanging system - PU spiral hose with thermo-insulated protection coating - Timer in case of overuse - ABS cover & inner parts - Automatic start when unhooking - 2-speed axial motor-fan - 230V AC - Air flow 42 m³/h - Sound pressure Lp = 70 dB(A) at 1 m - IP24 - Insulation class II.

code
SCV

Wall-mounted hair-dryer

Self-extinguishing ABS cover - Ergonomic design - Heater thermal resistance protection - On/off power switch on wall support - Direct current 2-speed motor - Built-in support safety switch - 230V AC - IP20 - Insulation class II.

air flow (m³/h)	total consumption (W)	motor consumption (W)	sound pressure (dB(A) Lw)	code
81	1 200	20	70	SCP1200
81	1600	20	70	SCP1600

Electric wall blowing towel-dryer

Blowing heating - Wall installation - Digital panel - Infrared remote control - Window opening automatic detection - Hourly & weekly programming - White ABS cover - Black polycarbonate body - Adjustable downwards blowing grille - 230V AC - Overheating protection - Polyurethane anti-dust filter - IP23 - Insulation class II.

code
SSV1500

Vacuum cleaner

Dust, liquid & solid vacuum cleaning - Polypropylene body - Tight switch - Thermal circuit breaker - PE cartridge filter - Washable anti-clogging membrane pre-filter - Includes accessories (see picture below).

	power (W)	tank (l)	depression (mmH_2O / kPa)	sound pressure (Lp dB(A) at 1m)	flow (l/s)	code
	1 000	27	1850/18,5	76,8	64	ASPI27
*	1 000	35	1850/18,5	76,8	64	ASPI35
	1 000	35	2300/23	73,4	55	ASPI35P

* With electric socket for power tools with automatic control.

Accessories set

code
KASPI

Spare cartridge filter

code
FASPI25
FASPI35P

Vacuum cleaner - Professional use

Dust, liquid & solid vacuum cleaning - 5 m wire - Blower function - Includes cartridge filter, 2 m hose, wet or dry floor brush, crevice nozzle.

power (W)	tank (l)	depression (kPa)	flow (l/s)	code
1 600	35	20	39	559016235

Electric high pressure cleaner

Longlasting use - Induction motor - Brass body pump - Stainless steel pistons - Anti-twist 10 m hose with built-in reel - Power 2 500W - Max. power 150 bar (450 l/h), max. usable power 130 bar (400 l/h) - Includes accessories (see picture).

code
559015125

Thermal engine high pressure cleaner

Sustained use - Honda 4,8 hp petrol engine - Brass body pump - Stainless steel pistons - Metal reinforced PVC hose 8 m - Tank 3,1 l - 2 h 15 mn endurance - Max. power 210 bar (690 l/h), max. usable power 170 bar (600 l/h) - Sound level 103 dB(A) - Weight 30 kg - Includes spray gun & 4 nozzles.

code
559017948

Compressed air equipment

Air compressor - Horizontal
6 l tank - 1,5 hp - Max. pressure 8 bar - Supplied without accessories.

code
559010150

Pneumatic accessories set (34 pieces)
Reinforced case including: square 1/2" impact wrench, ratchet wrench, hammer, chisel, straight grinder with 3 chisels, empty oil can, grinding wheels, coupling sleeve, assembly wrench.

code
559011534

Air compressor - Vertical
24 l tank - 1,5 hp - Max. pressure 10 bar - Supplied without accessories.

code
559010152

Pneumatic accessories set (8 pieces)
Includes: gravitational painting gun 0,5 l, nylon hose 5 m, blowgun, inflating handle, spray gun 1l.

code
559011508

Air compressor - Vertical
50 l tank - 2 hp - Max. pressure 10 bar - Air flow 3 bar: 140 l/mm - Air flow 7 bar: 126 l/mm - Built-in filter.

code
559010202

Pneumatic hose 6 x 11 mm
Braided with end pieces 7,5 m - Max. pressure 10 bar.

code
559011008

Pneumatic dispenser
For mastic & silicone universal cartridge 300 ml.

code
559011573

Reel 20 m
Pneumatic hose 6 x 12 mm - Max. pressure 10 bar.

code
559011020

Inflating nozzle set (8 pieces)

code
559011536

Power generator

Thermal engine power generator - Construction site

4-stroke engine, 210 cm³, power 7 hp, tank 15 l - Start-up at launcher - 100 % copper alternator - Max. power 3 100W - 3 230V ports + 1 USB 5V port - Automatic voltage regulator, compatible with electronic devices - 2-wheel cart & handling arm - 10 h endurance - Sound level 96 dB(A) - Weight 66 kg.

code
559010155

GENERAL CONDITIONS OF SALE

1. CONCLUSION OF THE SALE

Any order to our Company for products, from whatever source, implies unreserved acceptance of these general conditions of sale. These conditions override any other general conditions of sale, whatever their terms and cancel any contrary clause that may figure on contracts, documents or correspondence from the purchaser.
It is understood that, should any clause that figures on the purchaser's contracts, documents or correspondence and which opposes the application of these general conditions of sale be contrary to the dispositions of these general conditions of sale, it will be considered null and void by our Company.

2. ACCEPTANCE OF ORDERS

Orders are processed following agreement on the price, delivery conditions and packaging units. Cancellation of order before shipment will be charged 10% of its value (with a minimum of €50).

3. PRICES

The prices for the products are set by the price list in force on the day the order is shipped; these are trade prices and are subject to the dispositions of article 2. They are set in the light of current economic conditions and our Company reserves the right to modify them at any time without notice should these conditions fluctuate.

4. PAYMENT TERMS

⚠ Our Company's only valid bank details are the ones stated on our invoices.

4.1. Time for payment

Our invoices are dated on the day of shipment. They are payable at 30 days at the end of the month by bank transfer, unless otherwise specified.

4.2. Advanced payment

0,3% by month of advanced payment.

4.3. Late payment penalties

For any payment that is late either in full or in part, late payment penalties shall be applied in the same amount as the amount resulting from the application of a rate equal to the interest rate applied by the European Central Bank to its most recent refinancing operation, plus 10 percentage points, calculated on a monthly basis. Furthermore, in accordance with the provisions of Article L.441-6 of the French Commercial Code stemming from Act No. 2012-387 of 22 March 2012, all late payments shall automatically give rise to the payment, by the Customer, of a fixed debt recovery fee amounting to at least 15% of the invoice total and, in all cases, of a minimum amount of €40.

5. DELIVERY

5.1 Incoterm

The delivery conditions are regulated by the Incoterm in force on the date of conclusion of the contract. In the absence of a delivery condition specifically agreed in the contract, the delivery is deemed to be FCA our warehouse in Saint Quentin Fallavier.

5.2. Delivery conditions

See spreadsheet below.

5.3. Transfer of risk

Should goods be collected they will travel at the purchaser's risks and perils. Should carriage be included in the price, our Company, together with its service providers, will assume the risk during transport on condition that the purchaser checks the number and condition of the packages in the presence of the transporter and notes any reservations on the delivery document, which it must sign and have countersigned by the transporter or its agent and confirm these reservations by registered letter within 2 days.
Without prejudice to the dispositions to be taken with regard to the transporter, any complaints on apparent faults or on the non-conformity of the goods delivered must be formulated by registered letter with acknowledgement of receipt within 48 hours of reception of the goods.
Once this period has elapsed, no claim concerning such faults will be entertained.

5.4. Late delivery

Whatever the date agreed upon for delivery, no indemnity can be claimed for late delivery, unless there is a stipulation to the contrary that has been agreed to by us.
Should the order require assembly, specific work or any other individual requirement, delivery is subject to a feasibility study and delivery time may be increased.
In any case, delivery within the delivery time or the release of the goods can be made only if the purchaser is up to date with his payment obligations to our Company.
We reserve the right to carry out delivery of all or part of the order at a time. Should delivery be partial, each part will be deemed to be a complete commercial operation. Payment will be required in proportion to the quantity delivered.

5.5. Returns

No return of goods will be accepted if a complaint has not previously been made to us and accepted by us.
Should we agree, the goods must be returned within 15 days from the date of our agreement in their original packaging or packaging that is identical to the original one. If the claim is justified, the goods returned will be replaced or a credit note issued at our choice. The purchaser is solely responsible for any damage to goods resulting from their warehousing under abnormal conditions or conditions that are incompatible with their nature. Returns under these conditions will give rise to a deduction of a minimum of 30% for taking back into stock if goods can be sold as they are. If not, the goods will have to be examined to establish the amount of additional deduction for reconditioning and renovation of the products.

6. RESERVATION OF OWNERSHIP

Our Company reserves the ownership of the goods delivered until their cost has been entered in our Company's accounts.
During the period of reserved ownership, as the risks are transferred at the time of delivery, the purchaser as a consignee must insure the goods against all the risks of damage or responsibility.
The purchaser, who is authorised to sell on the goods delivered in the normal pursuit of its activity, is required to inform our Company immediately of the seizure on behalf of third parties of goods that have been delivered with reservation of ownership.
Should there be failure to pay a fraction or all of any of the instalments agreed for the cost, and eight days after failure in part or in whole to answer a formal warning by registered letter, the sale may be cancelled as of right if our Company sees fit without prejudice to any damages and interest claimed from the purchaser. The goods must be made immediately available to our Company, unless our Company requires their return at the purchaser's expense. Taking back the goods does not mean a cancellation of the sales contract. Sums already paid by the purchaser will be retained as initial damages and interest and without prejudice to any other damages.
These dispositions do not prevent the transfer to the purchaser of the risk of loss or deterioration of the products sold or any damage they may cause, as set out in article 5.3 above.

7. FORCE MAJEURE

Our Company will be discharged from its obligations by any event that is beyond its control which prevents or delays the delivery of the products and which is assimilated contractually to force majeure. This will cover in particular events that occur in-house or with our sub-contractors such as: lock-outs, strikes, fire, epidemics, embargoes, accidents, especially to tooling, breakage of machines, interruption or delay in transport, the impossibility of obtaining procurement, defects in raw materials or any other event beyond our control that leads to staff being partially or totally laid-off in our Company or those of our suppliers or sub-contractors.

8. INTELLECTUAL PROPERTY RIGHTS

The purchaser undertakes to respect all intellectual property rights of our Company which he declares to have knowledge of.

9. GUARANTEE

For use considered to be normal, our guarantee will be limited to the replacement of parts acknowledged to be faulty within two years of delivery or more depending on the extensions to guarantees applying to certain ranges of products, without our being liable for any claim for compensation for damages and interest. The costs of disassembly, carriage both ways and reassembly are excluded from the guarantee.

10. REPLACEMENT PARTS

When a product that we have supplied is stopped by our Company or the purchaser, our Company is not responsible for carrying out any need for after sales service which will have to be the subject of special agreement.

11. RECOMMENDATIONS

Any advice or counsel, technical indications or proposals that we may give or make do not imply any guarantee on our part. It is not our responsibility to assess the specifications or descriptions supplied. It is the customer's responsibility to check that the equipment is suitable for operation in real conditions of use.

12. INSURANCE

Our Company is insured as follows (casualty insurance certificate on request):
Third party insurance after delivery:
- €10,000,000 per year for all types of damage
- €2,000,000 per year for non-consecutive intangible damage.

13. PERSONAL DATA PROTECTION

Our company carries out computer processing for the purpose of managing its customer database, website, orders, customer services department and external communications. This processing uses the personal data of our customers or the recipients of deliveries in accordance with our customers' instructions. This data is subject to the provisions of the Data Protection Act No. 78-17 of 6 January 1978, as amended, the European regulations in force, including, inter alia, European Regulation No. 2016/679, and the recommendations of the French Data Protection Authority ("DPA" or "CNIL" – *Commission Nationale de l'Informatique et des Libertés*) (hereinafter the "Applicable Regulations"). If you would like information about this processing of your personal data by our company, please refer to our "Personal Data Protection Policy", available on our website.
If our company acts in the capacity as processor for its customers, who are controllers, the customers undertake to comply with all applicable regulations on personal data protection, including, inter alia, those that relate to individuals' information in the context of the transmission of their personal data to our company for the purposes of performing the Agreement.

14. ANTI-CORRUPTION CODE OF CONDUCT

The purchaser accepts to comply with the anti-corruption laws and the Code of conduct of our company available on the following link:
https://www.thermador-groupe.fr/wp-content/uploads/Code-anti-corruptionGB.pdf

15. ATTRIBUTION OF JURISDICTION – APPLICABLE LAW

It is expressly agreed that exclusive competence will be attributed for all disputes between the parties during their commercial relations to the French courts and in particular to the Commercial Court of Vienne, wherever the place of delivery, the method of payment accepted or even for claims under guarantee or where there are several defendants. Relations with the purchaser will be governed by French law.
Should these conditions be translated into a foreign language, the text written in French will be the only one to have authentic value.

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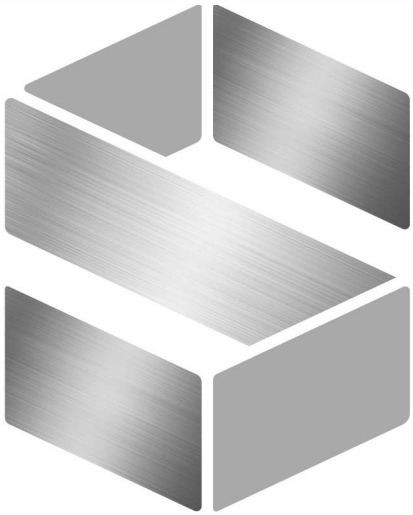
YOUR VALVE STOCKIST



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Certification

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Thermador Groupe

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