thermador
international

CATALOGUE JULY 2017

Distribution to wholesalers & resellers

Industry, HVAC & waterworks

sferaco SECTORIEL

Heating, plumbing & sanitary

thermador PBtub T-METER Axelair VENTILATION TheWa LAGGI

Pumps & garden

SPID'O jetly T-WATER aello

Quick delivery all over Europe

COMPANY PROFILE

International team (17 spoken languages) & extensive geographical presence

MARKET COMMITMENT

Trade shows & professional medias

Testing equipment

Quality control

ISO certified actuation center

PRODUCT MANAGEMENT

On-line specification sheet @ www.thermador-international.fr

66,000 references on stock

95,000 m² warehouse

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Foreword on the new 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. This recast of the former 97/23/EC Directive is meant to be transferred and enforced in 2 steps:
- **June 1st, 2015**: Start of application of the Art. 13 of the new PED, introducing a new determination of fluid groups according to the Classification, Labelling and Packaging (CLP) Regulation (EC 1272/2008). This article replaces the Art. 9 of the 97/23/EC Directive.
- **July 19th, 2016**: Start of full application of the new 2014/68/EU Directive.

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, in addition to the classification of fluids, the new PED defines the obligations and responsibilities of importers (Art.8) and distributors (Art. 9), and it reevaluates four of the conformity assessment modules (Annex III) as follows:

97/23/EC	A1	B1	B	C1
2014/68/EU	A2	B (design type)	B (production type)	C2

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.

Finally, the Article 48, §3 of the new PED establishes that "certificates and decisions issued by conformity assessment bodies under Directive 97/23/EC shall be valid under this Directive," therefore all the certificates issued under the former PED by our manufacturers remain valid until their renewal. We decided to summary of the 97/23/EC Directive. The references to the PED corresponding to each item are related to the certifications valid on the date of issue of this catalogue.

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

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 according to regulation (EC) 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 - Hazardous fluids	
explosive, extremely flammable, highly flammable, flammable (max. allowable temp. above flashpoint), pyrophoric, very toxic, toxic, oxidizing.		other fluids not reffered 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	A3 § 3															
	6					Category I											
	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	A3 § 3																	
	6					A3 § 3													
	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	A3 § 3																	
	6						A3 § 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	A3 § 3																	
	6															A3 § 3			
	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 97/23/EC & 2014/68/EU Directives:

0035	0036	0038	0045	0056	0062	0409	0496	0497	0948	1115
TÜV Rheinland Industrie Service	**TÜV Süd Industrie Service**	**Lloyd's Register Verification**	**TÜV Nord Systems**	**ECA Grupo Bureau Veritas**	**Bureau Veritas**	**Inspecta Sweden**	**DNV GL Business Assurance Italia**	**CSI**	**TÜV Italia**	**Consorzio Pascal**
Germany Köln	Germany München	UK London	Germany Hamburg	Spain Barcelona	France Neuilly	Sweden Stockholm	Italy Vimercate	Italy Bollate	Italy Sesto San Giovanni	Italy Milano

ATEX Directive (2014/34/EU)

Directive on equipment and protective systems intended for use in potentially explosive atmospheres.

1 - Area classification

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.

2 - ATEX marking - Example & explanation

Ex	II	2	G	Eex	ia	IIC	T6

"T6" Max. surface temperature class:
T1 450°C
T2 300°C
T3 200°C
T4 135°C
T5 100°C
T6 85°C

"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
ia/ib Intrinsic safety ("ia" for zone 0 / "ib" sufficient for zone 1)
ma/mb Encapsulated ("ma" for zone 0 / "mb" sufficient for zone 1)

"Eex" Explosion protection

"G" Environment:
G Gas group
D Dust group

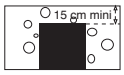
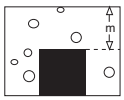
"2" Equipment Category:
1 Category 1 - Equipment that is intended for use in zone 0 or 20
2 Category 2 - Equipment that is intended for use in zone 1 or 21
3 Category 3 - Equipment that is intended for use in zone 2 or 22
M1 Mining
M2 Mining

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

Ex Marking for explosion protection

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

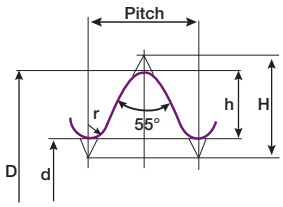
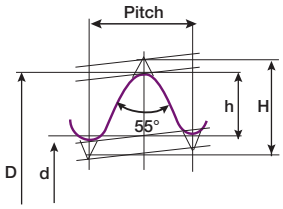
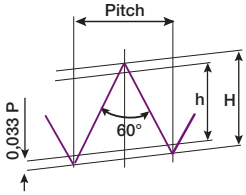
Concerns the wetted parts of our pressure gauges (pages 155 to 158).

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 cylindrical thread ISO 228	BSPT conical thread ISO 7	NPT conical thread ANSI B1.20
		
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
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"
Metric	8/13	8/13	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.

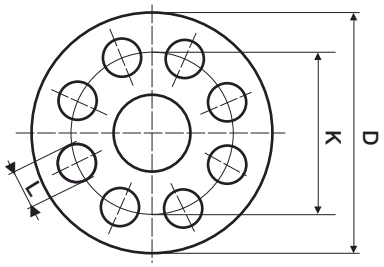
EN 1092-1 - Steel flanges

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	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										
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	M 14	95,3	66,5	15,8	4	M 14
3/4"	20	98,6	69,9	15,8	4	M 14	117,4	88,6	19	4	M 16
1"	25	108	79,4	15,8	4	M 14	124	88,9	19	4	M 16
1"1/4	32	117	88,9	15,8	4	M 14	133	98,4	19	4	M 16
1"1/2	40	127	98,4	15,8	4	M 14	156	114,3	22,2	4	M 20
2"	50	152	120,4	19	4	M 16	165	127	22,2	8	M 20
2"1/2	65	178	139,7	19	4	M 16	190	149,2	22,2	8	M 20
3"	80	190	152,4	19	4	M 16	210	168,3	22,2	8	M 20
4"	100	229	190,5	19	8	M 16	254	200	22,2	8	M 20
5"	125	254	215,9	22,2	8	M 20	279	235	22,2	8	M 20
6"	150	279	241,3	22,2	8	M 20	318	269,9	22,2	12	M 20
8"	200	343	298,4	22,2	8	M 20	381	330,2	25,4	12	M 24
10"	250	406	362	25,4	12	M 24	444	387,4	28,5	16	M 27
12"	300	483	431,8	25,4	12	M 24	521	450,8	31,8	16	M 30
14"	350	533	476,2	28,5	12	M 27	584	514,4	31,8	20	M 30
16"	400	597	539,8	28,5	16	M 27	648	571,5	35	20	M 33



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

Materials (EN 1503)

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	DIN 17-440	WN°	ASTM	Min. temp.	Max. temp.
AF Z6 CN18-09	X5 CrNi 18-10	1.4301	A 182 F 304	-196°C	+815°C
AF Z2 CN18-10	X2 CrNi 19-11	1.4306	A 182 F 304 L	-196°C	+425°C
AF Z6 CND17-11	X5 CrNiMo 17-12-2	1.4401	A 182 F 316	-196°C	+815°C
AF Z2 CND17-12	X2 CrNiMo 17-12-2	1.4404	A 182 F 316 L	-196°C	+455°C

Cast stainless steel (EN 10213-4)

NF A	DIN 17-445	WN°	ASTM	Min. temp.	Max. temp.
Z6 CN 18.10 N	GX6 CrNi 18-9	1.4308	A 351 CF8	-196°C	+815°C
	GX2 CrNi 19-11	1.4309	A 351 CF3	-196°C	+425°C
Z6 CND18.12N	GX6 CrNiMo 19-11-2	1.4408	A 351 CF8M	-196°C	+815°C
	GX2 CrNiMo 19-11-2	1.4409	A 351 CF3M	-196°C	+455°C

Cast iron & ductile iron (EN 1503-3)

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 1503-4 / 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 510L	Cu Zn42		B 124 C28500	-10°C	+200°C

Bronze (EN 1503-4)

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
EPDM	-10°C/+110°C	Cold and hot water, sea water, alkaline products, sodium hydroxide.	Hydrocarbons, steam, gases, acids, oil, freon.
NBR	-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	-30°C/+150°C	High temperature, air or inert gases.	Steam and hot water (max. 100°C), solvents.
Food silicone	-30°C/+150°C	Food.	Other applications.

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

TRIM number chart according 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		304 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 -100ºC and 320ºC. Steam & gas up to 370ºC. Oil & oil vapor up to 480ºC.
2	For moderate pressure in corrosive, low erosive service between -265ºC and 450ºC.
3	For moderate pressure in corrosive or non corrosive service between -265ºC and 450ºC.
4	As Trim 1 but for medium pressure and more corrosive service.
5	For high pressure slightly erosive & corrosive service between -265ºC and 650ºC. 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 540ºC.
8A	As Trim 8 where Co is not allowed.
9	For corrosive service up to 450ºC such as acids, alkalies, salt solutions, etc. For very corrosive fluids. For erosive & corrosive service between -240ºC and 480ºC. 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 -45ºC and 320ºC.
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.

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
NACE	National Association of Corrosion Engineers

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, according to ISO 228 / BSPT: Tapered, according to ISO 7)
NPT	National Pipe Tapered, according to ANSI B1.20
BW	Butt Weld, according to ASME B16.9
SW	Socket Weld, according to ASME B16.11
RF	Raised flange, according to ISO 1092-1 & ANSI B16.5
M	Male
F	Female
PDW	Potable Drinking Water

IP	Ingress Protection (see page 6)
ATEX	Explosive Atmosphere (see page 5)

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

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
PES	Polysulfone
PEX	Cross-linked Polyethylene
POM	Polyoxymethylene
PP	Polypropylene
PPG	Polypropylene Glycol
PTFE	Polytetrafluoroethylene
PU	Polyurethane
PVC	Polyvinyl Chloride
PVDF	Polyvinylidene Fluoride
RTFE	Reinforced Polytetrafluoroethylene (with 15% glass fiber)
SAN	Styrene Acrylonitrile
SBR	Styrene Butadiene Rubber

Main pictograms used in this publication

Connections

BSP threaded, see usual abbreviations above.

NPT threaded, see usual abbreviations above.

SMS threaded.

Socket weld, see usual abbreviations above.

Butt weld, see usual abbreviations above.

General certifications

Products certified in conformity with the 97/23/EC Directive. Apply only for valve above 1".
May refer to 2006/95/EC Directive when apply.

Products certified in conformity with the 97/23/EC 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 ISO 9001 certified company.

Product delivered by an API Spec Q1 registered company.

Product certified in conformity with the 94/9/EC Directive.

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).

Specific certifications on products

3.1 certification available. 10€/DN when ordered along with the products. ⚠ 30€/DN when ordered afterwards.

ATEX marking & certification available.
3€/pc, to be ordered along with the products.

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

Safety Integrity Level certification under IEC EN 61508 (X: grade from 1 to 4, see page 6).

Ingress protection rating (XX: grade, see page 6)

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.

Marine approval on products

Bureau Veritas Marine recognition MODE II

Bureau Veritas Type Approval

Lloyd's Register Type Approval

Det Norske Veritas Type Approval

Germanischer Lloyd Type Approval

American Bureau of Shipping Type Approval

Technical data & prices are subject to change without prior notice.

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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 up to 2" - 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

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

Dry cleaned for oxygen service

97/23/EC Directive - Risk category I / module A - PN40 - Nickel plated CW617N brass body - PTFE seats & gland pack - Full bore - Anti-blowout stem - 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

Excluded from 2014/68/EU Directive (article 1, §2.f) - Valve for public gas network XPE 29141- MOP 5 category - CW617N brass body - Chrome-plated brass ball - PTFE seats - NBR o-ring - PS: 0 to 5 bar - Full bore - Anti-blowout stem - TS: -5°C/+60°C.

NF ISO 9001

620 - Yellow steel lever BSP

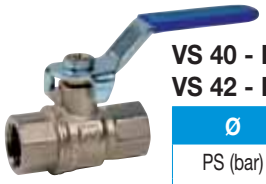
Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	5	5	5	5	5	5
code	620004	620005	620006	620007	620008	620009

Compressed air service

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 - TS: -10°C/+120°C.

CE ISO 9001

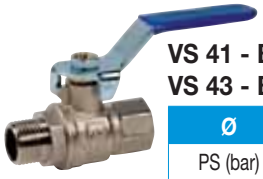
Female/female



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	179024	-	-	-

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	179124

Locking device

97/23/EC Directive - Risk category I / module A - PN40/30 - Nickel-plated CW617N brass body - PTFE seats - Full bore - Tamper-resistant stem - 4 point locking device - On/off position indicator.

CE ISO 9001

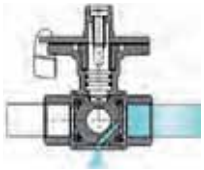
556 - Sferalock® - Female/female BSP

⚠ **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/+100°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

IVR

97/23/EC Directive - Risk category I / module A - PN40/25 - Nickel plated CW617 brass body - PTFE seats - NBR o-ring - Full bore - Anti-blowout stem - TS: -10°C/+90°C.

CE ISO 9001

531 BSP

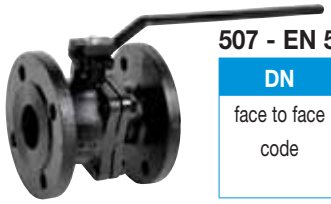
Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
PS (bar)	40	40	40	40	25	25	25	25
code	531003	531004	531005	531006	531007	531008	531009	531010

Cast iron ball valves

Split body

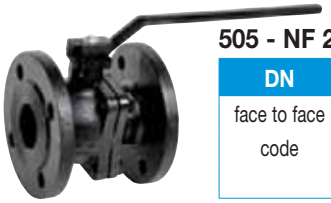
97/23/EC Directive - Risk category I / module A - Flanged RF PN16 - GG25 body - Stainless steel ball - PTFE seat - FKM o-ring - Full bore - Anti-blowout stem - ISO pad - PS: 16 bar - TS: -10°C/+200°C -
⚠ **Not suitable for steam & compressed air - Only for fluids from group 2.**

ISO 9001 | CE | Ex 3 €/pc In progress



507 - EN 558 series 14 up to DN150 & series 15 from DN125

DN	15	20	25	32	40	50	65	80	100	125/S14	125/S15	150/S14	150/S15	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

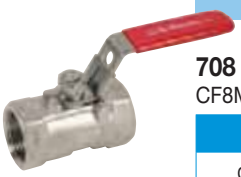
DN	40	50	65	80	100	125	150
face to face	136	142	154	160	172	186	200
code	505040	505050	505065	505080	505100	505125	505150

Carbon steel & stainless steel ball valves

1 piece body

97/23/EC Directive N°0035 - Risk category III / module H - PTFE seats - Reduced bore - Locking device - PS: 40 bar.

CE 0035 | ISO 9001 | 3.1 10 €/DN



708 - Stainless steel BSP

CF8M body & ball - TS: -20°C/+180°C.

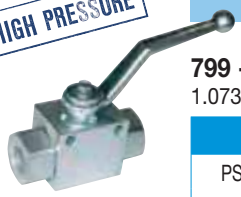
Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	708002	708003	708004	708005	708006	708007	708008	708009

1 piece body - High pressure

HIGH PRESSURE

97/23/EC Directive N°0948 - Risk category II / module A1 - POM ball seats - NBR other seats - Reduced bore.

CE 0948 | ISO 9001 | Ex 3 €/pc



799 - Carbon steel BSP

1.0737 body & ball - TS: -10°C/+100°C.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	500	500	500	315	315	315	315	315
code	799002	799003	799004	799005	799006	799007	799008	799009

NEW

Excluded from 2014/68/EU Directive (article 4, §3) - POM ball seats - FKM o-ring - Reduced bore - TS: -20°C/+100°C.

CE 0948 | ISO 9001 | Ex 3 €/pc

HIGH PRESSURE

799 ZA - Carbon steel BSP

1.0716 body & ball.

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

HIGH PRESSURE

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

2 piece body

97/23/EC Directive N°0035 - Risk category III / module H - PTFE seats - Full bore - Anti-blowout stem - Locking device.

CE 0035 | ISO 9001 | 3.1 10 €/DN

705 - Carbon steel BSP

A216WCB body - CF8M 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	50	50	40	40	25	25
code	705002	705003	705004	705005	705006	705007	705008	705009	705010	705011

NEW

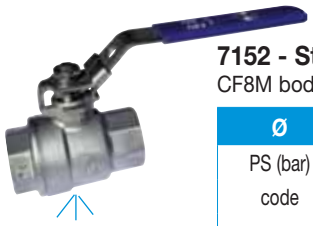
97/23/EC Directive N°0036 - Risk category III / module H - Full bore - Anti-blowout stem - Locking device.

CE 0036 | ISO 9001 | 3.1 10 €/DN

7151 - Stainless steel - S-First BSP

CF8M body & ball - RTFE seats - 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"	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



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

CF8M body & ball - PTFE seats - TS: -20°C/+180°C.

Ø	1/4"	3/8"	1/2"	3/4"	1"
PS (bar)	63	63	63	63	50
code	715202	715203	715204	715205	715206

97/23/EC Directive N°0035 - Risk category II / module D1 - PTFE seats - Full bore - Anti-blowout stem - Locking device.

CE 0035 | ISO 9001 | 3.1 10 €/DN

715 - Stainless steel BSP

CF8M body & 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"	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 & ball - TS: -20°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	50	50	40	40
code	789002	789003	789004	789005	789006	789007	789008	789009

97/23/EC Directive N°0035 - Risk category III / module H (except 715: risk category II / module D1) - RTFE seats - Full bore (except: 789 & 709 reduced bore) - Anti-blowout stem - Locking device.

CE 0035 | ISO 9001 | 3.1 10 €/DN

709 - Stainless steel BSP male-male

CF8M body & ball - TS: -20°C/+180°C.

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

Spare butterfly handle

for 705-706-704-709

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

2 piece body

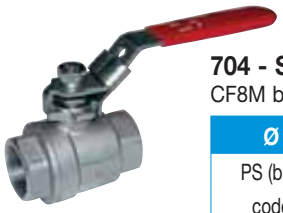
97/23/EC Directive N°0035 - Risk category III / module H - PTFE seats - Full bore - Anti-blowout stem - Locking device - Long thread.

CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

706 - Stainless steel - DIN 3202-4 M3 BSP

CF8M body & 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"	4"
PS (bar)	63	63	63	63	50	50	40	40	25	25	16
lever code	706002	706003	706004	706005	706006	706007	706008	706009	706010	706011	706012
butterfly handle code	706102	706103	706104	706105	706106	-	-	-	-	-	-



704 - Stainless steel NPT

CF8M body & ball - TS: -20°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	50	50	40	40
code	704002	704003	704004	704005	704006	704007	704008	704009

2 piece body - ISO pad

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

PZH | ACS Drinking water | CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

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

2 piece body - High temperature

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

TA LUFT | CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

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

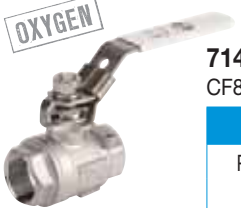
NEW

2 piece body - Dry cleaned for oxygen service

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

CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

OXYGEN



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

Carbon steel & stainless steel ball valves

2 piece body - 800 lbs

97/23/EC Directive N°0948 - Risk category III / module B + C1 - 800 lbs - Fire safe BS 6755 - NACE MR0175 - PTFE + carbon graphite seats - Anti-blowout stem - Full bore - Antistatic device.

NACE MR0175 | FIRE SAFE | CE 0948 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

717 - Carbon steel BSP NPT

A105 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 on request

716 - Stainless steel BSP NPT

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 on request

718 - Carbon steel BW SW

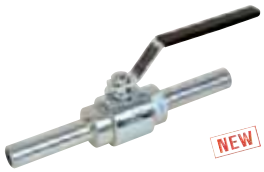
A105 body - F316L ball - Butt welding ends schedule 80 - Length: 100 mm - TS: -20°C/+180°C.

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

not on stock, on request.

719 - Stainless steel BW SW

F316L body & ball - Butt welding ends schedule 80 - Length: 100 mm - 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

not on stock, on request.

2 piece body - 1500 lbs

97/23/EC Directive N°0948 - Risk category III / module B + C1 - 1500 lbs - PEEK seats - Carbon graphite gaskets - Full bore - Anti-blowout stem - Antistatic device - ⚠ **Steam up to 30 bar max.**

NACE MR0175 | CE 0948 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

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

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

Locking device

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

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

Spare stainless steel F304 lever

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

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

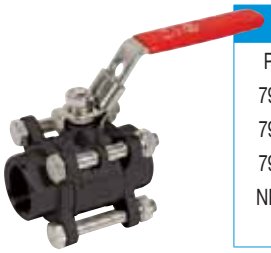
3 piece body - S-First

97/23/EC Directive N°0035 - Risk category III / module H - RTFE seats - Full bore - Anti-blowout stem - Locking device - TS: -20°C/+180°C - ⚠ **Compressed air: 20 bar max. up to 1", 16 bar above.**

CE 0035 | ISO 9001 | 3.1 10 €/DN

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 & 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 stem extension for 796-797-798-790-791-792-744 and 730-731 (page 23)

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	9810601	9810601	9810602	9810602	9810603	9810603	9810604	9810604

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	9830444	9830444	9830444	9830444	9830445	9830445	9830446	9830446	9830447	9830447	9830448

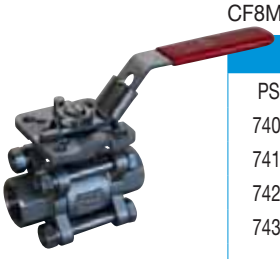
3 piece body - ISO pad - S-First

97/23/EC Directive N°0035 - Risk category III / module H - RTFE seats - Full bore - Anti-blowout stem - ISO pad - Locking device - TS: -20°C/+180°C - ⚠ **Compressed air: 20 bar max. up to 1", 16 bar above.**

CE 0035 | ISO 9001 | 3.1 10 €/DN

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

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	40	40	40	40
740 code	740002	740003	740004	740005	740006	740007	740008	740009
741 code	741008	741010	741015	741020	741025	741032	741040	741050
742 code	742008	742010	742015	742020	742025	742032	742040	742050
743 code	743002	743003	743004	743005	743006	743007	743008	743009

3 piece body - ISO pad

97/23/EC Directive N°0038 - Risk category III / module H - Stainless steel reinforced PTFE seats - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device - ⚠ **Steam up to 18 bar max.**

TA LUFT | CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

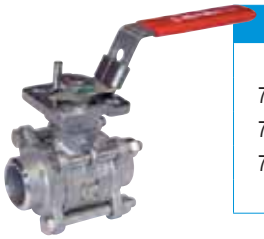
737 - Carbon steel BSP — 738 - Carbon steel BW — 739 - Carbon steel SW

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"	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 — 748 - Stainless steel BW — 749 - Stainless steel SW

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"	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

3 piece body - ISO pad - Fire Safe

97/23/EC Directive N°0038 - Risk category III / module H - Fire safe API 607 - PTFE + 25% carbon seats - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device - ⚠ **Steam up to 18 bar max.**

ABS | FIRE SAFE | CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

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

Spare 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 stem extension for 702-703

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	9830471	9830471	9830471	9830471	9830472	9830472	9830473	9830474

3 piece body - ISO pad - Fire Safe

NEW

97/23/EC Directive N°0035 - Risk category III / module H - Fire safe API 607 - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device. ⚠ **Steam up to 18 bar max.**

FIRE SAFE | CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

702 XS - Carbon steel SW

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

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	140	140	140	100	100	100
code	271342	271343	271344	271345	271346	271347

A216WCB body - CF8M ball - PEEK seats - TS: -10°C/+250°C.

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	140	140	140	100	100	100
code	271362	271363	271364	271365	271366	271367

703 XS - Stainless steel BSP BW

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	100	100	100
BSP code	271372	271373	271374	271375	271376	271377
BW code	271382	271383	271384	271385	271386	271387

97/23/EC Directive N°0038 - Risk category III / module H - Face to face DIN 3202-4 M3 - Fire safe ISO 10497 - NACE MR0175 - RTFE seats - Full bore - Anti-blowout stem - Antistatic device - ISO pad - TS: -28°C/+200°C.

NACE MR0175 | FUGITIVE EMISSIONS | FIRE SAFE | CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

712 - Carbon steel BSP BW SW

A216WCB body - CF3 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)	100	100	64	64	40	40	40	40	25	25	20
BSP code	712002	712003	712004	712005	712006	712007	712008	712009	712010	712011	712012*
BW code	712108	712110	712115	712120	712125	712132	712140	712150	712165	712180	712199*
SW code	712208	712210	712215	712220	712225	712232	712240	712250	712265	712280	712299*

not on stock, on request. * not fire safe.

713 - Stainless steel BSP BW SW

CF8M body - CF3M 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)	100	100	64	64	40	40	40	40	25	25	20
BSP code	713002	713003	713004	713005	713006	713007	713008	713009	713010	713011	713012*
BW code	713108	713110	713115	713120	713125	713132	713140	713150	713165	713180	713199*
SW code	713208	713210	713215	713220	713225	713232	713240	713250	713265	713280	713299*

not on stock, on request. * not fire safe.

3 piece body - Forged valves

97/23/EC Directive N°0036 - Risk category III / module H - API Spec 6D-0286 - Fire safe API607 - F316 ball - F316 stem - Full bore - Anti-blowout stem - Antistatic device - ISO pad.

API 6D 0398 | FIRE SAFE | CE 0036 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

7451 - Carbon steel - 800 lbs SW 7450 - Carbon steel - 800 lbs NPT

A105N carbon steel body - RTFE seats - PS: 136 bars - TS: -29°C/+220°C.

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

7461 - Carbon steel - 1500 lbs SW 7460 - Carbon steel - 1500 lbs NPT

A350LF2 carbon steel body - Devlon® seats - PS: 255 bar - TS: -20°C/+150°C.

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"
7461 code	746115	746120	746125	746132	746140	746150
7460 code	746004	746005	746006	746007	746008	746009

3 piece body flanged - S-First

97/23/EC Directive N°0035 - Risk category III / module H - Flanged RF PN40 - EN 558 series 1 - RTFE seats - Full bore - Anti-blowout stem - Locking device - PS: 40 bar.

CE 0035 | ISO 9001 | 3.1 10 €/DN

730 - Carbon steel

A216WCB body - CF8M 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 & 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

97/23/EC Directive N°0038 - Risk category III / module H - Flanged RF PN40 - EN 558 series 1 - Stainless steel reinforced PTFE seats - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device - PS: 40 bar - ⚠ **Steam up to 18 bar max.**

TA LUFT | CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

710 - Carbon steel

A216WCB body - CF8M ball - TS: -20°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

3 piece body flanged - ISO pad - Fire Safe

NEW

97/23/EC Directive N°0038 - Risk category III / module H - Flanged RF PN 40 - EN 558 series 1 - PTFE + 25% carbon seats - 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.**

ABS TYPE APPROVAL PROGRAM | FIRE SAFE | CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

7034 - Stainless steel

CF8M body & ball

DN	15	20	25	32	40	50
code	703415	703420	703425	703432	703440	703450

Wafer

97/23/EC Directive N°0035 - Risk category II / module D1 - Flanged RF PN16 - RTFE seats - ISO pad - Locking device from DN25 to DN100 - Anti-blowout stem - PS: 16 bar.

CE 0035 | ISO 9001 | 3.1 10 €/DN

771 - Stainless steel

CF8M body & ball - TS: -20°C/+180°C.

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

NEW

97/23/EC Directive N°0035 - Risk category III / module H - Flanged RF PN16 - PTFE seats - ISO pad - Full bore up to DN80 - Anti-blowout stem - PS: 16 bar.

TA LUFT | CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

771 XS - Stainless steel

CF8M body & ball - TS: -20°C/+180°C.

DN	15	20	25	32	40	50	65	80	100
face to face	35	39	44	52	64	83	100	121	152
code	272902	272903	272904	272905	272906	272907	272908	272909	272910

Split body - S-First

97/23/EC Directive N°0035 - Risk category II / module D1 - PTFE + fiberglass seats - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device - TS: -10°C/+180°C.

CE 0035 | ISO 9001 | 3.1 10 €/DN

Flanged RF PN16

764 - Carbon steel

A216WCB body - F304 ball - EN 558 series 27 - PS: 40 bar up to DN50, 16 bar above.

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
code	764015	764020	764025	764032	764040	764050	764065	764080	764100	764125	764150

765 - Stainless steel

CF8M body - F316 ball - EN 558 series 27 - PS: 40 bar up to DN50, 16 bar above.

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
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 - Fire safe

2014/68/EU Directive N°0035 - Risk category II / module H - Fire safe API 607 - Bureau Veritas Marine recognition MODE II - RTFE seats - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device - TS: -20°C/+200°C - ⚠ **Steam up to 11 bar max.**

MODE II | FIRE SAFE | CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

Flanged RF PN16

762 - Carbon steel

A216WCB body - CF8M ball - EN 558 series 27 - PS: 40 bar up to DN50, 16 bar above.

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	762015	762020	762025	762032	762040	762050	762065	762080	762100	762125	762150	762200*

* not fire safe.

763 - Stainless steel

CF8M body & ball - EN 558 series 27 - PS: 40 bar up to DN50, 16 bar above.

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	763015	763020	763025	763032	763040	763050	763065	763080	763100	763125	763150	763200*

* not fire safe.

Flanged RF ANSI 150

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 & 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

MOUNTING 12 €/pc

Spare gearbox

for 762-763

DN	150	200
code	9830296	9830297

Split body - Fire safe - High temperature

97/23/EC Directive N°0035 - Risk category III / module H - Fire safe ISO 10497 - NACE MR0175 - Plain PTFE TFM1600 seats - Full bore - Anti-blowout stem - Antistatic device - ISO pad - Locking device - Ball with decompression hole - ⚠ **Steam up to 12 bar max.**

NACE MR0175 | FUGITIVE EMISSIONS | FIRE SAFE | CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

Flanged RF PN16

752 - Carbon steel

A216WCB body - CF8M ball - EN 558 series 27 - PS: 40 bar up to DN50, 16 bar above - 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
code	752015	752020	752025	752032	752040	752050	752065	752080	752100	752125	752150	752200

753 - Stainless steel

CF8M body & ball - EN 558 series 27 - PS: 40 bar up to DN50, 16 bar above - 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
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

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

Flanged RF ANSI 300

768 - Carbon steel

A216WCB body - CF8M ball - EN 558 series 4 - 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

769 - Stainless steel

CF8M body & ball - EN 558 series 4 - 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

not on stock, on request.

Options & spare parts

MOUNTING 12 €/pc

Spare gearbox

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

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

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

3 way

Threaded

Excluded from 2014/68/EU Directive (article 4, §3) - POM ball seats - NBR other seats - Reduced bore.

ISO 9001 | Ex 3 €/pc

HIGH PRESSURE

721 - Carbon steel - L port BSP

1.0737 body & ball - TS: -10°C/+100°C.

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

NEW

Excluded from 2014/68/EU Directive (article 4, §3) - POM ball seats - NBR other seats - Reduced bore.

ISO 9001 | Ex 3 €/pc

HIGH PRESSURE

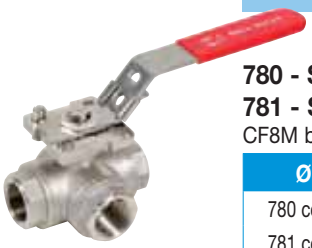
721 ZA - Carbon steel - L port BSP

1.0737 body & ball - TS: -10°C/+100°C.

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

97/23/EC Directive N°0035 - Risk category II / module D1 - PTFE seats - 4 seats / 3 way tightness - Reduced bore - Anti-blowout stem - Locking device - ISO pad - PS: 40 bar.

CE 0035 | ISO 9001 | 3.1 10 €/DN



780 - Stainless steel - L port BSP

781 - Stainless steel - T port BSP

CF8M body & ball - TS: -30°C/+140°C.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
780 code	780002	780003	780004	780005	780006	780007	780008	780009
781 code	781002	781003	781004	781005	781006	781007	781008	781009

Flanged RF PN16

97/23/EC Directive N°0038 - Risk category III / module H - Flanged RF PN16 - RTFE seats - 4 seats / 3 way tightness - Full bore - Anti-blowout stem - PS: 16 bar.

CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

783 - Carbon steel - L port

784 - Carbon steel - T port

A216WCB body - CF8 ball - TS: -20°C/+150°C.

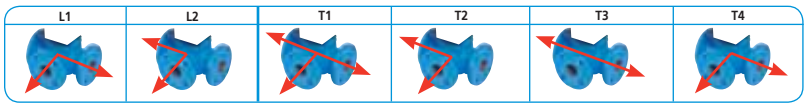
DN	25	32	40	50	65	80	100	125	150
783 code	783025	783032	783040	783050	783065	783080	783100	783125	783150
784 code	784025	784032	784040	784050	784065	784080	784100	784125	784150

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



3 piece body - ISO pad - Fire Safe

NEW

97/23/EC Directive N°0038 - 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 - RTFE seats - Full bore - Anti-blowout stem - Antistatic device - ISO pad - TS: -28°C/+200°C.

NACE MR0175 | FUGITIVE EMISSIONS | FIRE SAFE | CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

712 - Carbon steel

BSP BW SW

A216WCB body - CF3 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)	100	100	64	64	40	40	40	40	25	25	20
BSP code	712002	712003	712004	712005	712006	712007	712008	712009	712010	712011	712012*
BW code	712108	712110	712115	712120	712125	712132	712140	712150	712165	712180	712199*
SW code	712208	712210	712215	712220	712225	712232	712240	712250	712265	712280	712299*

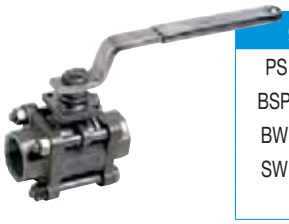
* not fire safe.

not on stock, on request. Approx. 4-5 weeks delivery time.

713 - Stainless steel

BSP BW SW

CF8M body - CF3M 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)	100	100	64	64	40	40	40	40	25	25	20
BSP code	713002	713003	713004	713005	713006	713007	713008	713009	713010	713011	713012*
BW code	713108	713110	713115	713120	713125	713132	713140	713150	713165	713180	713199*
SW code	713208	713210	713215	713220	713225	713232	713240	713250	713265	713280	713299*

* not fire safe.

not on stock, on request. Approx. 4-5 weeks delivery time.

Wafer

NEW

97/23/EC Directive N°0038 - Risk category III / module H - Fire safe ISO 10497 - Fugitive emissions ISO 15848-1 class A - NACE MR0175 - 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 | FIRE SAFE | FUGITIVE EMISSIONS | CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

720 - Carbon steel

A105 body - CF3 ball - EN 558 series 100 (except DN125).

DN	15	20	25	32	40	50	65	80	100	125	150	200
face to face	35	35	43	51	64	84	103	120	154	182	234	310
code	720015	720020	720025	720032	720040	720050	720066	720080	720100	720125	720150	720200

not on stock, on request. Approx. 4-5 weeks delivery time.

770 - Stainless steel

F316L body up to DN100, CF8M above - CF3M 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	35	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

NEW

97/23/EC Directive N°0038 - Risk category III / module H - Fire safe ISO 10497 - Fugitive emissions ISO 15848-1 class A - NACE MR0175 - 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 | FIRE SAFE | FUGITIVE EMISSIONS | CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

750 - Carbon steel

A105 body - CF3 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.

751 - Stainless steel

F316L body - CF3M 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

* Flanged RF PN16 - PS: 16 bar.

not on stock, on request.
Approx. 4-5 weeks delivery time.

Flanged RF ANSI 150

NEW

97/23/EC Directive N°0038 - Risk category III / module H - Fire safe ISO 10497 - Fugitive emissions ISO 15848-1 class A - NACE MR0175 - Flanged RF PN40 up to DN80, flanged RF PN16 above - PTFE seats - Full bore - Antistatic device - ISO pad - PS: 20 bar - TS: -28°C/+200°C.

NACE MR0175 | FIRE SAFE | FUGITIVE EMISSIONS | CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

766 - Carbon steel

A105 body - CF3 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 - CF3M ball - EN 558 series 3.

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
face to face	108	118,5	126	140	165	178	190	203	229
code	767015	767020	767025	767032	767040	767050	767065	767080	767100

not on stock, on request.
Approx. 4-5 weeks delivery time.

Flanged RF PN25

NEW

97/23/EC Directive N°0038 - Risk category III / module H - Fire safe ISO 10497 - Fugitive emissions ISO 15848-1 class A - NACE MR0175 - Flanged RF PN25 - PTFE seats - Full bore - Antistatic device - ISO pad - PS: 25 bar - TS: -28°C/+200°C.

NACE MR0175 | FIRE SAFE | FUGITIVE EMISSIONS | CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

754 - Carbon steel

A105 body - CF3 ball - EN 558 series 28.

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. 753 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 300

NEW

97/23/EC Directive N°0038 - Risk category III / module H - Fire safe ISO 10497 - Fugitive emissions ISO 15848-1 class A - NACE MR0175 - Flanged RF ANSI 300 - PTFE seats - Full bore - Antistatic device - ISO pad - PS: 50 bar - TS: -28°C/+200°C.

NACE MR0175 | FIRE SAFE | FUGITIVE EMISSIONS | CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

758 - Carbon steel

A105 body - CF3 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

not on stock, on request.
Approx. 4-5 weeks delivery time.

Manual ball valves equipped with SF012 limit switch box IP67 - SPDT 250V-5A (see features of the limit switch box page 66).

ISO 9001

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

715XS - 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

736XS - Carbon steel BSP

A216WCB body - PTFE seats - Full bore - PS: 63 bar - TS: -10°C/+180°C.

Ø	736XS code
1/4"	2710400462012
3/8"	2710410462012
1/2"	2714620462012
3/4"	2714630462012
1"	2714640462012
1"1/4	2714650462012
1"1/2	2714660462012
2"	2714670462012
2"1/2	2714680462012
3"	2714690462012
4"	2714700462012

also available	736 XS BSP	734 XS BW	735 XS SW
code	27146...	27148...	27150...

746XS - Stainless steel BSP

CF8M body - PTFE seats - Full bore - PS: 63 bar - TS: -10°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

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

Ex on request

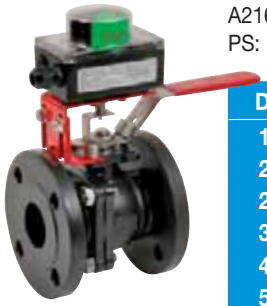
703XS - Stainless steel BSP BW

CF8M body - PTFE seats - Full bore - PS: 137 bar - TS: -10°C/+220°C.

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

Ø	BW code
1/2"	2713820462012
3/4"	2713830462012
1"	2713840462012
1"1/4	2713850462012
1"1/2	2713860462012
2"	2713870462012

Ex on request



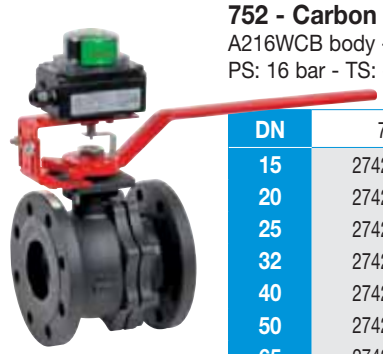
762 - Carbon steel
A216WCB body - RTFE seats - Full bore -
PS: 16 bar - TS: -20°C/+150°C.

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

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

Ex on request



752 - Carbon steel
A216WCB body - RTFE seats - Full bore -
PS: 16 bar - TS: -20°C/+200°C.

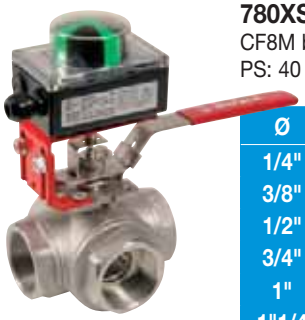
DN	752 code
15	2742820462012
20	2742830462012
25	2742840462012
32	2742850462012
40	2742860462012
50	2742870462012
65	2742880462012
80	2742890462012
100	2742900462012
125	2742910462012
150	2742920462012

753 - Stainless steel
CF8M body - RTFE 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

Ex on request

3 way



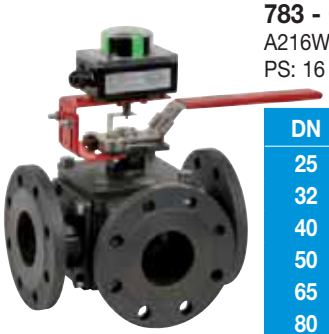
780XS - Stainless steel - L port BSP
CF8M body - PTFE seats - Reduced bore -
PS: 40 bar - TS: -10°C/+140°C.

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

781XS - 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



783 - Carbon steel - L port
A216WCB body - PTFE seats - Full bore -
PS: 16 bar - TS: -20°C/+150°C.

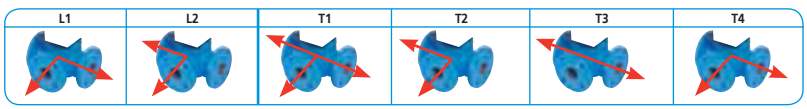
DN	783 L code
25	2756740462012
32	2756750462012
40	2756760462012
50	2756770462012
65	2756780462012
80	2756790462012
100	2756800462012
125	2756810462012
150	2756820462012

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

Stainless steel (785 L & 786 T) on request

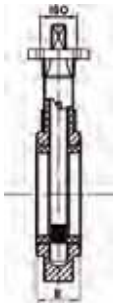
Ex on request



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

Cast iron

97/23/EC 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: -10°C/+110°C (temporarely +130°C).


40-300

350-600

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

Wafer - Between flanges PN10/16 & ANSI 150 (up to DN600)

1125 - Lever - Disc **GGG40 nickel plated** / Seat **EPDM**

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 - Gearbox - Disc **GGG40 nickel plated** / Seat **EPDM**

DN	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
PS (bar)	16	16	16	16	16	16	10	10	10	10	10	10	10	10	10
code	1125102	1125127	1125152	1125202	1125252	1125302	1125350	1125400	1125450	1125500	1125600	1125700	1125800	1125900	1125990

1123 - Lever - Disc **CF8M** / Seat **EPDM**

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 - Gearbox - Disc **CF8M** / Seat **EPDM**

DN	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
PS (bar)	16	16	16	16	16	16	10	10	10	10	10	10	10	10	10
code	1123102	1123127	1123152	1123202	1123252	1123302	1123350	1123400	1123450	1123500	1123600	1123700	1123800	1123900	1123990

1121 - Lever - Disc **CF8M** / Seat **NBR** - TS: -10°C/+80°C.

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

Lug - Between flanges PN10/16

1135 - Lever - Disc GGG40 nickel plated / Seat EPDM

								.../10: flanges PN10			.../16: flanges PN16		
DN	40	50	65	80	100	125	150	200/10	200/16	250/10	250/16	300/10	300/16
PS (bar)	16	16	16	16	16	16	16	10	16	10	16	10	16
code	1135040	1135050	1135065	1135080	1135100	1135125	1135150	1135200	1135201	1135250	1135251	1135300	1135301

1135 - Gearbox - Disc GGG40 nickel plated / Seat EPDM

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.

1133 - Lever - Disc CF8M / Seat EPDM

								.../10: flanges PN10			.../16: flanges PN16		
DN	40	50	65	80	100	125	150	200/10	200/16	250/10	250/16	300/10	300/16
PS (bar)	16	16	16	16	16	16	16	10	16	10	16	10	16
code	1133040	1133050	1133065	1133080	1133100	1133125	1133150	1133200	1133201	1133250	1133251	1133300	1133301

1133 - Gearbox - Disc CF8M / Seat EPDM

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.

Options & spare parts

1198 - Spare gearbox (only for butterfly valves 1125, 1123, 1121, 1135 & 1133)

DN	40	50	65	80	100	125	150	200	250	300
code	1198001	1198001	1198001	1198001	1198002	1198003	1198003	1198004	1198005	1198006

Spare lever (only for butterfly valves 1125, 1123, 1121, 1135 & 1133)

DN	40	50	65	80	100	125	150	200	250	300
code	9831244	9831244	9831244	9831244	9831249	9831245	9831245	9831246	9831247	9831248

Ductile iron - GGG40

97/23/EC 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 gearbox above DN300.

CE 0035 | ISO 9001 | 3.1 10 €/DN

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

Wafer - Between flanges PN10/16 & ANSI 150

1170 - Disc **GGG40 epoxy coated** / Seat **EPDM**
TS: -10°C/+110°C.

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	10	10	10	10	10	10	10	10	10
code	1170040	1170050	1170065	1170080	1170100	1170125	1170150	1170200	1170250	1170300	1170350	1170400	1170450	1170500	1170600

1173 - Disc **CF8M** / Seat **High temperature EPDM**
TS: -10°C/+130°C.

DN	32-40	50	65	80	100	125	150	200	250	300	350	400	450	500
PS (bar)	16	16	16	16	16	16	16	16	16	16	10	10	10	10
code	1173040	1173050	1173065	1173080	1173100	1173125	1173150	1173200	1173250	1173300	1173350	1173400	1173450	1173500

not on stock, on request.

1174 - Disc **Aluminium bronze** / Seat **NBR**
TS: -10°C/+90°C.

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	1174040	1174050	1174065	1174080	1174100	1174125	1174150	1174200	1174250	1174300

not on stock, on request.

Lug - Between flanges PN10/16

1175 - Disc **GGG40 epoxy coated** / Seat **EPDM**
TS: -10°C/+110°C.

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*	10/16*	10/16*
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.

1176 - Disc **CF8M** / Seat **High temperature EPDM**
TS: -10°C/+130°C.

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	-	-	-	-	-	-	-	1176200	1176250	1176300
PN16 code	1176040	1176050	1176065	1176080	1176100	1176125	1176150	1176201	1176251	1176301

* PS: 10 bar for PN10 valves, 16 bar for PN16 valves.

not on stock, on request.

Options & spare parts

MOUNTING 12 €/pc

1192 - Spare gearbox (only for butterfly valves 1170, 1173, 1174, 1175 & 1176)

DN	40	50	65	80	100	125	150	200	250	300
code	1192001	1192001	1192001	1192001	1192002	1192003	1192003	1192004	1192005	1192006

Spare lever (only for butterfly valves 1170, 1173, 1174, 1175 & 1176)

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

Ductile iron - GGG50

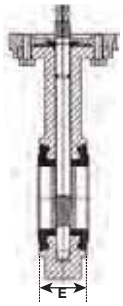
Guarantee 5 Years

97/23/EC Directive N°0038 - Risk category III / module H - GGG50 body - Rilsan coated - ISO pad - PS: 16 bar up to DN300, 10 bar above - Gearbox recommended above DN200 - Supplied bare shaft above DN300 or with gearbox on specific reference.

CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

General certifications & approvals on TTV valves

97/23/EC	ISO	MARINE	GAS	ATEX	VOLKSWAGEN	NATO
CE 0038	LRQA		NF	Ex		



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	8	8	9	11	11	14	14	17	19	22	22	27	Ø 50*	Ø 50*	Ø 60*

* splined shaft.

Wafer - Between flanges PN10/16 - ANSI 150 (up to DN400 / PN10 above)

1150 - Disc **CF8M** up to DN100, Disc **GGG50 epoxy coated** from DN125 to DN300, Disc **GGG50 rilsan coated** above / Seat **EPDM**
TS: -10°C/+110°C.

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
lever code	1150040	1150050	1150065	1150080	1150100	1150125	1150150	1150200	1150250	1150300	1150350	1150400	1150450	1150500	1150600
gearbox code	-	-	-	-	-	-	-	-	-	-	1150352	1150402	1150452	1150502	1150602

not on stock, on request.

NEW

1153 - Disc **CF8M** / Seat **EPDM**
TS: -10°C/+110°C.

DN	32-40	50	65	80	100	125	150	200	250	300	350	400	450	500
PS (bar)	16	16	16	16	16	16	16	16	16	16	10	10	10	10
lever code	1153040	1153050	1153065	1153080	1153100	1153125	1153150	1153200	1153250	1153300	1153350	1153400	1153450	1153500
gearbox code	-	-	-	-	-	-	1153152	1153202	1153252	1153302	1153352	1153402	1153452	1153502

not on stock, on request.

1149 - Disc **CF8M** / Seat **High temperature EPDM**
TS: -10°C/+130°C.

DN	32-40	50	65	80	100	125	150	200	250	300	350	400	450	500
PS (bar)	16	16	16	16	16	16	16	16	16	16	10	10	10	10
code	1149040	1149050	1149065	1149080	1149100	1149125	1149150	1149200	1149250	1149300	1149350	1149400	1149450	1149500

not on stock, on request.

1152 - Disc **CF8M** up to DN100, Disc **GGG50 epoxy coated** from DN125 to DN300, Disc **GGG50 rilsan coated** above / Seat **NBR**
TS: -10°C/+90°C.

DN	32-40	50	65	80	100	125	150	200	250	300	350	400	450	500
PS (bar)	16	16	16	16	16	16	16	16	16	16	10	10	10	10
lever code	1152040	1152050	1152065	1152080	1152100	1152125	1152150	1152200	1152250	1152300	1152350	1152400	1152450	1152500
gearbox code	-	-	-	-	-	-	-	-	-	-	1152352	1152402	1152452	1152502

not on stock, on request.

1151 - Disc **CF8M** / Seat **NBR**
TS: -10°C/+90°C.

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

1156 - Disc **CF8M** / Seat **White NBR**
TS: -10°C/+90°C.

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 - Disc **Aluminium bronze** / Seat **NBR**
TS: -10°C/+90°C.

DN	32-40	50	65	80	100	125	150	200	250	300	350	400	450	500
PS (bar)	16	16	16	16	16	16	16	16	16	16	10	10	10	10
code	1158040	1158050	1158065	1158080	1158100	1158125	1158150	1158200	1158250	1158300	1158350	1158400	1158450	1158500

not on stock, on request.

1147 - Disc **CF8M** up to DN100, Disc **GGG50 epoxy coated** above / Seat **Carboxylated NBR**
TS: -10°C/+90°C.

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

1154 - Disc **CF8M** / Seat **FKM**
TS: -5°C/+180°C.

DN	32-40	50	65	80	100	125	150	200	250	300	350	400	450	500
PS (bar)	16	16	16	16	16	16	16	16	16	16	10	10	10	10
lever code	1154040	1154050	1154065	1154080	1154100	1154125	1154150	1154200	1154250	1154300	1154350	1154400	1154450	1154500
gearbox code	-	-	-	-	-	-	-	-	-	-	1154352	1154402	-	-

not on stock, on request.

1157 - Disc **CF8M** / Seat **Silicone**
TS: -30°C/+150°C.

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.

1183 - Disc **Polished CF8M** / Seat **Alimentary silicone**
TS: -30°C/+150°C.

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

not on stock, on request.

1141 - Disc **CF8M** up to DN100, Disc **GGG50 epoxy coated** above / Seat **NBR**
For gas - PS: 5 bar (class MOP5) - TS: -20°C/+60°C.

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

1145 - Disc **CF8M** / Seat **Teflon®** with silicone liner
TS: -25°C/+200°C.

MARINE APPR.

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.

1155 - Disc **CF8M** + **TEFLON®** / Seat **Teflon®** with silicone liner
TS: -25°C/+200°C.

MARINE APPR.

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.

Lug type fig. 1165 available on request, please consult

1144 - Disc **CF8M** up to DN100, Disc **GGG50 epoxy coated** above / Seat **EPDM**
For fire network - FM approved - With gearbox & limit switches - TS: -10°C/+110°C.

MARINE APPR. | IP 65 | FM APPROVED

DN	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16
code	1144050	1144065	1144080	1144100	1144125	1144150	1144200	1144250	1144300

NEW

1142/1148 - Disc **CF8M** up to DN100, Disc **GGG50 epoxy coated** above / Seat **EPDM**
For fire network - Acc. to APSAD R1 - With gearbox (& limit switches for 1148) - TS: -10°C/+110°C.

MARINE APPR. | IP 65 | APSAD R1

DN	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16
1142 code	1142050	1142065	1142080	1142100	1142125	1142150	1142200	1142250	1142300
1148 code	1148050	1148065	1148080	1148100	1148125	1148150	1148200	1148250	1148300

Lug - Between flanges PN10/16

1160 - Disc **CF8M** up to DN100, Disc **GGG50 epoxy coated** from DN125 to DN300, Disc **GGG50 rilsan coated** above / Seat **EPDM**
TS: -10°C/+110°C.

									.../10: flanges PN10			.../16: flanges PN16			
DN	32	40	50	65	80	100	125	150	200/10	200/16	250/10	250/16	300/10	350/10	400/10
PS (bar)	16	16	16	16	16	16	16	16	10	16	10	16	10	10	10
lever code	1160032	1160040	1160050	1160065	1160080	1160100	1160125	1160150	1160200	1160201	1160250	1160251	1160300	1160350	1160400
gearbox code	-	-	-	-	-	-	-	-	-	-	-	-	-	1160352	1160402

1163 - Disc **CF8M** / Seat **EPDM**
TS: -10°C/+110°C.

								.../10: flanges PN10				.../16: flanges PN16			
DN	40	50	65	80	100	125	150	200/10	200/16	250/10	250/16	300/10	300/16	350/10	400/10
PS (bar)	16	16	16	16	16	16	16	10	16	10	16	10	16	10	10
code	1163040	1163050	1163065	1163080	1163100	1163125	1163150	1163200	1163201	1163250	1163251	1163300	1163301	1163350	1163400

1162 - Disc **CF8M** up to DN100, Disc **GGG50 epoxy coated** above / Seat **NBR**
TS: -10°C/+90°C.

								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

1164 - Disc **CF8M** / Seat **FKM**
TS: -5°C/+180°C.

Flanges PN10

DN	40	50	65	80	100	125	150	200
PS (bar)	16	16	16	16	16	16	16	10
code	1164040	1164050	1164065	1164080	1164100	1164125	1164150	1164200

1181 - Disc **CF8M** up to DN100, Disc **GGG50 epoxy coated** above / Seat **NBR**
For gas - PS: 5 bar (class MOP5) - TS: -20°C/+60°C.

MARINE APPR. NF

Flanges PN10

DN	40	50	65	80	100	125	150	200
PS (bar)	5	5	5	5	5	5	5	5
code	1181040	1181050	1181065	1181080	1181100	1181125	1181150	1181200

1166 - Disc **CF8M** / Seat **Teflon®** with silicone liner
TS: -25°C/+200°C.

Flanges PN10

DN	40	50	65	80	100	125	150	200
PS (bar)	16	16	16	16	16	16	16	10
code	1166040	1166050	1166065	1166080	1166100	1166125	1166150	1166200

1182 - Disc **CF8M** up to DN100, Disc **GGG50 epoxy coated** above / Seat **EPDM**
For fire network - FM approved - With gearbox & limit switches - TS: -10°C/+110°C.

MARINE APPR. IP 65 FM APPROVED

Flanges PN16

DN	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	16	16
code	1182050	1182065	1182080	1182100	1182125	1182150	1182200	1182250	1182300

Carbon steel & stainless steel

97/23/EC Directive N°0038 - Risk category III / module H - Wafer - Between flanges PN10/16 & ANSI 150 - PS: 16 bar.

CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

1184 - Body **CF8M** / Disc **CF8M** / Seat **EPDM**
TS: -10°C/+110°C.

DN	32-40	50	65	80	100	125	150	200	250	300
code	1184040	1184050	1184065	1184080	1184100	1184125	1184150	1184200	1184250	1184300

97/23/EC Directive N°0038 - Risk category III / module H - Between flanges PN10/16 & ANSI 150 - Metal seat - ISO pad - PS: 16 bar - Uncomplete tightness: loss factor 2% of Kvs - ⚠ **Not suitable for steam.**

CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

1111 - Body **A216WCB** / Disc **CF8M** up to DN100, Disc **GGG50 epoxy coated** above
TS: -20°C/+350°C.

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

1112 - Body & Disc **CF8M**
TS: -30°C/+350°C.

DN	32-40	50	65	80	100	125	150	200
code	1112040	1112050	1112065	1112080	1112100	1112125	1112150	1112200

Accessories & spare parts for TTV butterfly valves

MOUNTING 12 €/pc

1197 - Spare gearbox with position indicator

DN	50	65	80-100	125-150	200	250	300	350	400	450	500	600
code	1197050	1197065	1197100	1197150	1197200	1197250	1197300	1197350	1197400	1197451	1197501	1197601

MOUNTING 12 €/pc

1194 - Chain wheel gearbox

DN	40-50	65	80-100	125-150	200	250	300	350	400
code	1194050	1194065	1194100	1194150	1194200	1194250	1194300	1194350	1194400

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	200
length	107	107	124	134	136	144	154	170
DIN total length	140	150	170	180	190	200	210	230
code	1196040	1196050	1196065	1196080	1196100	1196125	1196150	1196200

98666 - Stem extension (75 mm)

DN	32-40-50	65	80-100	125-150	200	250	300
code	9866601	9866602	9866603	9866604	9866605	9866606	9866607

Other stem extensions on request

983120 - Spare aluminium lever

DN	40	50	65	80	100	125	150	200	250	300
code	9831201	9831201	9831202	9831203	9831203	9831204	9831204	9831205	9831206	9831207

983126 - Stainless steel lever & plate (to be ordered along with the valve)

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	600
EPDM -10°C/+110°C code	9865000	9865001	9865002	9865003	9865004	9865005	9865006	9865007	9865050	9865051	9865220	9865221	9865222	9865223	9865224
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	-	-	-	-	-

98650 - Spare discs

DN	40	50	65	80	100	125	150	200	250	300
GGG50 code	9865030	9865031	9865032	9865033	9865034	9865035	9865036	9865037	9865038	9865039
CF8M code	9865020	9865021	9865022	9865023	9865024	9865025	9865026	9865027	9865028	9865029

Carbon steel & stainless steel

97/23/EC Directive N°0035 - Risk category III / module H - Fire safe ISO 10497 - 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.**

FIRE SAFE | CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

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

Wafer - Between flanges PN16/25

DN50-150

DN200-400

1113 - 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.

1114 - 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

Wafer - Between flanges ANSI 150

2"-6"

8"-14"

1115 - 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

1116 - 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

MOUNTING 12 €/pc

1193 - Spare gearbox with position indicator (only for butterfly valves 1113, 1114, 1115 & 1116)

DN	50	65	80	100	125	150
NPS	2"	2"1/2	3"	4"	5"	6"
code	1193001	1193001	1193002	1193003	1193004	1193004

983132 - Spare ductile iron lever (only for butterfly valves 1113, 1114, 1115 & 1116)

DN	50	65	80	100	125	150
NPS	2"	2"1/2	3"	4"	5"	6"
code	9831320	9831320	9831321	9831321	9831322	9831322

Triple offset butterfly valves

Carbon steel

97/23/EC Directive N°0035 - Risk category III / module H - Fugitive emissions ISO 15848-1 class C - Fire safe ISO 10497 - PTFE seats (15% graphite filled) - ISO pad - TS: -39°C/+349°C -
⚠ **Supplied bear shaft - ⚠ Steam up to 30 bar max.**

FUGITIVE EMISSIONS | FIRE SAFE | CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

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	59	73	83	92
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**

DN	100	150	200	250	300
PS (bar)	40	40	40	40	40
code	1118100	1118150	1118200	1118250	1118300

1191 - Spare gearbox

DN	100	150	200	250	300
code	1191003	1191004	1191005	1191006	1191007

Butterfly valves with limit switch box

Manual valves equipped with SF012 limit switch box IP67 - SPDT 250V-5A (see features page 74).

1150 - Disc **GGG50** (Disc **CF8M** up to DN100) / Seat **EPDM** - See features of the valve page 35.
1153 - Disc **CF8M** / Seat **EPDM** - See features of the valve page 35.

DN	1150 code
40	2603030462012
50	2603040462012
65	2603050462012
80	2603060462012
100	2603070462012
125	2603080462012
150	2603090462012
200	2603100462012

DN	1153 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 75) - 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** (Disc **CF8M** up to DN100) / Seat **NBR** - See features of the valve page 36.

DN	code
40	2605930477012
50	2605940477012
65	2605950477012
80	2605960477012
100	2605970477012
125	2605980477012
150	2605990477012
200	2606000477012

Unidirectional tightness

Excluded from 2014/68/EU Directive (art. 4, §4) - Unidirectional tightness: specific mounting position - Between flanges PN10 - Rising stem, non rising hand wheel - Rilsan painted.

ISO 9001 | 3.1 10 €/DN

Handwheel operated

170 - Cast iron - NBR gasket
GG25 body - Stainless steel F304 gate - TS: -10°C/+90°C.

171 - Cast iron - EPDM gasket
GG25 body - Stainless steel F304 gate - TS: -10°C/+110°C.

176 - Cast iron - Metal seat
GG25 body - Stainless steel F304 gate - TS: -10°C/+90°C - Incomplete tightness: loss factor 1%.

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800
PS (bar)	10	10	10	10	10	10	10	8	6	4	4	3	3	3	2	2
170 code	170050	170065	170080	170100	170125	170150	170200	170250	170300	170350	170400	170450	170500	170600	170700	170800
171 code	171050	171065	171080	171100	171125	171150	171200	171250	171300	171350	171400	171450	171500	171600	-	-
176 code	176050	176065	176080	176100	176125	176150	176200	176250	176300	-	-	-	-	-	-	-

172 - Stainless steel - EPDM gasket
CF8M body - Stainless steel F316 gate - TS: -15°C/+110°C.

173 - Stainless steel - Metal seat
CF8M body - Stainless steel F316 gate - TS: -15°C/+110°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

Handwheel operated - With limit switch

170 - Cast iron - NBR gasket
GG25 body - Stainless steel F304 gate - TS: -10°C/+90°C - Limit switch for open position.

DN	100	125	150	200	250	300	350	400	450	500	600	700	800
PS (bar)	10	10	10	10	8	6	4	4	3	3	3	2	2
code	170101	170126	170151	170201	170251	170301	170351	170401	170451	170501	170601	170701	170801

Quick opening - Lever operated

170 - Cast iron - NBR gasket
GG25 body - Stainless steel F304 gate - TS: -10°C/+90°C.

DN	80	100	125	150
PS (bar)	10	10	10	10
code	170083	170103	170127	170153

ISO pad for electric actuator

Same features as above, except: F10 ISO pad.

170 ISO - Cast iron - NBR gasket
171 ISO - Cast iron - EPDM gasket
176 ISO - Cast iron - Metal seat

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	-	-

172 ISO - Stainless steel - EPDM gasket
173 ISO - Stainless steel - Metal seat

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

Options & spare parts for unidirectional valves only

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	9801910	9801911	9801912	9801913	9801914	9801915	9801916	9801917	9801918	9801919	9801920	-	-	-
SILICONE	code	9801930	9801931	9801932	9801933	9801934	9801935	9801936	9801937	9801938	9801939	9801940	-	-	-

Spare PTFE seat for unidirectional valves (mounted with the valve when ordered at the same time)

⚠ **Additional delivery time 10 days - Incomplete tightness.**

	DN	50	65	80	100	125	150	200	250	300	350	400
PTFE	code	9801890	9801891	9801892	9801893	9801894	9801895	9801896	9801897	9801898	9801899	9801900

MOUNTING 12 €/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

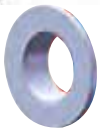
Spare limit switch (1 piece)

DN	50 to 700
code	9801350

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

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

Bidirectional tightness

Excluded from 2014/68/EU Directive (art. 4, §4) - Bidirectional tightness - Between flanges PN10 - Non rising stem & handwheel.

ISO 9001 | 3.1 | 10 €/DN

Handwheel operated

178 - Cast iron - NBR gasket

GG25 body - Stainless steel F304 gate - TS: -10°C/+90°C.

177 - Cast iron - EPDM gasket

GG25 body - Stainless steel F304 gate - TS: -10°C/+110°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	-	-	-	-	-	-

Handwheel operated - With limit switch

178 - Cast iron - NBR gasket

GG25 body - Stainless steel F304 gate - 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
code	178051	178066	178081	178101	178126	178151	178201	178251	178301	178351	178401

ISO pad for electric actuator

Same features as above, except: F10 ISO pad, rising stem.

178 - Cast iron - NBR gasket

177 - Cast iron - EPDM gasket

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

Options for bidirectional valves only

Chain wheel

DN	50 to 150	200 to 300	350 to 400
code	9801796	9801797	9801798

Chain

	per m
code	9801795

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

Through conduit - Bidirectional tightness

Excluded from 2014/68/EU Directive (art. 4, §4) - Bidirectional tightness - Between flanges PN10 - Non rising stem & handwheel.

ISO 9001 | 3.1 | 10 €/DN

Handwheel operated

179 - Cast iron - EPDM gasket

GG25 body - Stainless steel F304 gate - TS: -10°C/+90°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.

Metal seated gate valves

Threaded

97/23/EC Directive N°0038 - Risk category III / module H - CF8M body & gate - Metal seats - Full bore - Non rising stem - PS: 16 bar - TS: -20°C/+180°C.

CE 0038 | ISO 9001 | 3.1 10 €/DN

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

97/23/EC Directive N°0038 - Risk category III / module H - 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.

CE 0038 | ISO 9001 | 3.1 10 €/DN

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

97/23/EC Directive N°0038 - Risk category III / module H - Flanged RF PN16 (PN10/16 for 158) - GGG50 body & gate - Rising stem - Non rising handwheel - PS: 10 bar for PN10 valves, 16 bar for PN16 valves.
⚠ **Leakage rate B according to EN 12266-1.** Please consult specific values on the datasheet.

CE 0038 | ISO 9001 | 3.1 10 €/DN

156 - Ductile iron - Brass seats

EN 558 series 14 (DIN 3202 F4) - TS: -10°C/+120°C.

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

159 - Ductile iron - Stainless steel seats - DIN

EN 558 series 14 (DIN 3202 F4) - TS: -10°C/+180°C.

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

158 - Ductile iron - Stainless steel seats - NF

EN 558 series 29 (NF 29323) - TS: -10°C/+180°C.

DN	40	50	65	80	100	125	150	200	250	300
face to face	136	142	154	160	172	186	200	228	255	285
PN10 code	-	-	-	-	-	-	-	158201	158251	158301SF
PN16 code	158040	158050	158065	158080	158100	158125	158150	158200	158250	158300

97/23/EC Directive N°0036 - Risk category III / module H - Flanged RF PN16 - EN 558 series 15 - A216WCB cast steel body & bonnet - TRIM 8 - Bolted bonnet & gland pack - PS: 16 bar - TS: -29°C/+425°C.

CE 0036 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

147 - Carbon steel

A216WCB - 13Cr gate - F6a stem - A105 + Stellite® Gr.6 seat - Rising stem & non rising handwheel.

DN	50	65	80	100	125	150	200	250	300
face to face	250	270	280	300	325	350	400	450	500
code	147050	147065	147080	147100	147125	147150	147200	147250	147300

Resilient seated gate valves

Excluded from 97/23/EC Directive (article 3, §3) up to DN300, risk category I / module A above -
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/+110°C.

CE | ISO 9001 | 3.1 10 €/DN

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	-	-

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 97/23/EC Directive (article 3, §3) up to DN300, risk category I / module A above -
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 AKZO NOBEL® special epoxy coating for ACS - PS: 10 bar for PN10 valves,
16 bar for PN16 valves - TS: -10°C/+110°C.

CE | ISO 9001 | 3.1 10 €/DN

WRAS | ACS Drinking water

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 97/23/EC Directive (article 3, §3) - 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.

ISO 9001 | 3.1 10 €/DN

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 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

Gate valves

Spare handwheel (for 184-185)
clockwise closing handwheel for 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 key (for square drive nut; length 1 m)

DN	40	50	65	80	100	125	150	200	250	300	350	400
code	9802080	9802080	9802080	9802080	9802080	9802080	9802080	9802080	9802080	9802080	9802082	9802082

Spare stem extensions
To be connected on a square drive nut.

DN	40 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

NEW

Excluded from 2014/68/EU Directive (article 1, §2.b) - Construction acc. to EN 1074-4 - PN10/16 connection - Polypropylene float - EPDM gasket - PS: 16 bar - TS: 0°C/+60°C.

ISO 9001

Single effect - Degassing function

31110 - Composite - With isolating valve

Glass fiber reinforced polyamide body - NF certified CW617N brass ball valve - GGG40 flange DN40/65.

Ø	1"
code	3111006

Triple effect - Degassing, air release & vacuum function

31130 - Composite - With isolating valve

Glass fiber reinforced polyamide body - NF certified CW617N brass ball valve - GGG40 flange DN40/65.

Ø	1"	2"
code	3113006	3113009

31132 - Ductile iron - With isolating valve

Ductile iron body - NF certified CW617N brass ball valve - GGG40 flange DN40/65.

Ø	2"
code	3113209

31133 - Ductile iron - Without isolating valve

Ductile iron body.

DN	80
code	3113311

Service connection valves

NEW

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 brass body - 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 body or CW602N brass body - CN602N brass 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	-	-	-

Shut-off valves

29180 - Straight with o-ring gaskets

Bronze body - CN602N brass cap.

DN	20	25	30	40
bore	21	25	40	40
ext. pipe Ø	25	32	40	50
code	2918020	2918025	2918030	2918040

29130 - Universal straight/angle with large gasket

Bronze body - CN602N brass 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

F304 tightning wrench for universal service valves

code	2913010

Tapping bridges for service connection valves, see page 68

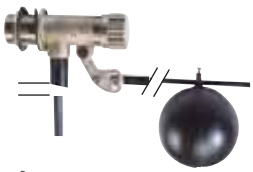
HDPE centering ring for service valves

valve type	29110	29180	29130
code	2994000	2994000	2913001

Float valves

Excluded from 2014/68/EU Directive (article 4, §3).

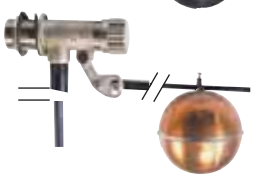
ISO 9001



490 - Brass body - PE float BSP
491 - Brass body - Copper float BSP

Stainless steel inner mechanism - EPDM gasket - PS: 10 bar - 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
490 code	490004	490005	490006	490007	490008	490009
491 code	491004	491005	491006	491007	491008	491009



Plastic float valves, see page 185

494 - Full stainless steel BSP

F304 body & inner mechanism - F316 ball - FKM gasket - TS: -5°C/+90°C.

Ø male	3/4"	3/4"
Ø float	156	245
PS (bar)	6	8
code	494005	494105

Spare float

Ø float	156	245
code	9806321	9806322

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"1/4	2"
Ø float	100	100	100	150	150
code	292002	292003	292004	292006	292007

Spare float

Ø float	100	150
code	981860	981861

Float valves

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". ISO 9001

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, see page 48

Needle valves

sferaco

Excluded from 2014/68/EU Directive (article 4, §3) - B62 Bronze body - Brass hat, needle & seat - PS: 25 bar - TS: -10°C/+180°C. ISO 9001

482 - Bronze BSP

Ø	1/4"	3/8"	1/2"	3/4"
code	482002	482003	482004	482005

HIGH PRESSURE

97/23/EC Directive N°0948 - Risk category III / module B+C1 - A105 body - A410 needle - Rising rotating stem - PS: 200 bar - TS: 0°C/+180°C. CE 0948 ISO 9001

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

not on stock, on request.

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. ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

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

sferaco

Threaded

97/23/EC 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 ISO 9001

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

97/23/EC Directive - Risk category I / module A - CF8M body - F316 globe - Metal seat - PS: 16 bar - TS: -20°C/+180°C - ⚠ **Not suitable for steam.** CE ISO 9001 | 3.1 10 €/DN

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

HEATING

97/23/EC Directive N°0038 - Risk category III / module H - Flanged RF PN16 - EN 558 series 1 - GG25 body & globe - Stainless steel stem & seat - Rising stem - PS: 16 bar - TS: -10°C/+120°C - ⚠ **Not suitable for steam.**

CE 0038 | 3.1 | 10 €/DN

470 - Cast iron

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	470015	470020	470025	470032	470040	470050	470065	470080	470100	470125	470150	470200

STEAM

2014/68/EU Directive N°0062 - Risk category III / module H - Flanged RF PN16 - EN 558 series 1 - GG25 body - Stainless steel stem, globe & seat - Rising stem - PS: 16 bar - TS: -10°C/+300°C - ⚠ **Steam up to 10 bar max.**

CE 0062 | ISO 9001 | 3.1 | 10 €/DN

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

97/23/EC Directive N°0035 - Risk category III / module H - Flanged RF PN25/16 - EN 558 series 1 - 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 | ISO 9001 | 3.1 | 10 €/DN

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

97/23/EC Directive N°0035 - Risk category III / module H - Flanged RF PN40 - EN 558 series 1 - A216WCB body - Stainless steel stem, globe & seat - Bolted bonnet & gland pack - Non rising stem - PS: 40 bar - TS: -20°C/+400°C.

CE 0035 | ISO 9001 | 3.1 | 10 €/DN

471 - Carbon steel

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

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

NEW

Accessories for steam globe valves

MIRS - Globe valve insulation jacket

Pyrogel XT Aspen Aerogels® hydrophobic insulation - Fiber glass fabric with silicone cover - Fabrics sewing by Kevlar® and stainless steel wires - Braided fiber glass ropes - TS: up to 250°C.

DN	15	20	25	32	40	50	65	80	100	125	150
code	181015SE	181020SE	181025SE	181032SE	181040SE	181050SE	181065SE	181080SE	181081SE	181082SE	181083SE

97/23/EC Directive N°0036 - Risk category III / module H - API Spec Q1 - API Spec 6D-0398 (except globe valves) - 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.**

0398 | 0036 | ISO 9001 | 3.1 10 €/DN | 3 €/pc

Gate valves

143 - Flanged RF ANSI 150

A216WCB + 13Cr gate - F6a stem - A105 + Stellite® Gr.6 seat - Rising stem & non rising handwheel.

NPS	2"	3"	4"	6"	8"	10"	12"	14"	16"
face to face	178	203	229	267	292	330	356	381	406
code	143050	143080	143100	143150	143200	143250	143300	143350	143400

144 - Flanged RF ANSI 300

A216WCB + 13Cr gate - F6a stem - A105 + Stellite® Gr.6 seat - Rising stem & non rising handwheel.

NPS	2"	3"	4"	6"	8"	10"	12"
face to face	216	282	305	403	419	457	502
code	144050	144080	144100	144150	144200	144250	144300

RF PN16 gate valve fig. 147 available, see page 45

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"	6"	8"	10"	12"
face to face	203	241	292	356	495	622	698
code	373050	373080	373100	373150	373200	373250	373300

374 - Flanged RF ANSI 300

A216WCB + 13Cr swing plate - A105 + Stellite® Gr.6 seat.

NPS	2"	3"	4"	6"	8"	10"	12"
face to face	267	318	356	444	533	622	711
code	374050	374080	374100	374150	374200	374250	374300

not on stock, on request.

Y-strainer

243 - Flanged RF ANSI 150

F304 screen - Mesh 1,5 mm (except DN50: 1 mm).

NPS	2"	3"	4"	6"	8"	10"	12"
face to face	203	241	292	406	495	622	698
code	243050	243080	243100	243150	243200	243250	243300

Carbon steel A105N - TRIM 8

97/23/EC Directive N°0036 - Risk category III / module H - API Spec 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.

API 6D 0286 | CE 0036 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

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

97/23/EC Directive N°0036 - Risk category III / module H - API Spec 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.

6D 0286 | CE 0036 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

Gate valve - 150 lbs

130 - RF ANSI 150

F6 + Stellite® Gr.6 gate - A410 stem - Bolted bonnet - Full 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 - Full 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 - Full 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 - Full 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)**

F6 + 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

97/23/EC Directive N°0036 - Risk category III / module H - API Spec 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.

API 6D 0286 | NACE MR0175 | CE 0036 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

Gate valves - 800 lbs

111 - Welding (SW) **115 - Threaded** (NPT)

F316 gate - A410 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

97/23/EC Directive N°0036 - Risk category III / module H - API Spec 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.

API 6D 0286 | CE 0036 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

Gate valves - 800 lbs

119 - Welding (SW) **118 - Threaded** (NPT)

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 (SW) **418 - Threaded** (NPT)

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 (SW) **120 - Threaded** (NPT)

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 (SW) **420 - Threaded** (NPT)

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

97/23/EC Directive N°0036 - Risk category III / module H - API Spec 6D-0286 - A182F11 carbon steel body & bonnet - TRIM 5 - A410 + Stellite® Gr.6 seat - Rising stem - TS: -29°C/+595°C.

API 6D 0286 | CE 0036 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

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

97/23/EC 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/+595°C.

CE 0036 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

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

97/23/EC Directive N°0036 - Risk category III / module H - API Spec 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: -29°C/+538°C.

API 6D 0286 | CE 0036 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

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

97/23/EC Directive N°0036 - Risk category III / module H - API Spec 6D-0286 - Fire safe API607 - 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/+220°C.

API 6D 0286 | FIRE SAFE | CE 0036 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

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

Ball valves - Carbon steel A350LF2

97/23/EC Directive N°0036 - Risk category III / module H - API Spec 6D-0286 - Fire safe API607 - A350LF2 carbon steel body - F316 ball - F316 stem - DEVLON seats - Full bore - Anti-blowout stem - Antistatic device - ISO pad - PS: 255 bar - TS: -20°/+150°C - Impact test included in the 3.1 certificate.

API 6D 0286 | FIRE SAFE | CE 0036 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

Ball valves - 1500 lbs

7461 - Welding SW **7460 - Threaded** NPT

NPS	1/2"	3/4"	1"	1"1/4	1"1/2	2"
7461 code	746115	746120	746125	746132	746140	746150
7460 code	746004	746005	746006	746007	746008	746009

Other forged valves

Needle valves - 3000 psi

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.

ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

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

97/23/EC 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 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

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

NEW

97/23/EC Directive N°1115 - Risk category III / module H - F316 stainless steel body - Mesh 0,8 mm - With draining cap - PS: 132 bar - TS -29°C/+538°C.

CE 1115 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

239 - Threaded NPT

NPS	1/4"	3/8"	1/2"	3/4"	1"
code	239002	239003	239004	239005	239006

Vertical lift

97/23/EC 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 | ISO 9001

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

Anti-pollution

BAYARD

NEW

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 ANTIPOLLUTION | ACS Drinking water

346 - Ductile iron

DN	40/50	60/65	80	100	150
face to face	230	290	310	350	480
code	346050	346065	346080	346100	346150

Spring - All positions

HIGH PRESSURE

Excluded from 2014/68/EU Directive (article 4, §3) - F316 body, ball & seat - PS: 400 bar - TS: -20°C/+180°C.

ISO 9001 | 3.1 10 €/DN

388 - 2 piece body BSP
389 - 2 piece body NPT

Ø	1/4"	3/8"	1/2"	3/4"	1"
388 code	388002	388003	388004	388005	388006
389 code	389002	389003	389004	389005	389006

Excluded from 2014/68/EU Directive (article 4, §3) - Stainless steel body - F304 disc - FKM seat - PS: 16 bar - TS: -10°C/+150°C.

ISO 9001

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

2014/68/EU Directive N°0035 - Risk category II / module H - CF8M body - F316 disc - Metal-metal tightness - PTFE body seats - PS: 63 bar - TS: -20°C/+200°C.

CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

380 - 3 piece body BSP
384 - 3 piece body NPT
381 - 3 piece body BW
382 - 3 piece body 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

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

97/23/EC Directive - Risk category I / module A - CW617N body - F316 disc - Metal-metal tightness - PS: 16 bar - TS: -10°C/+250°C.

CE | ISO 9001

385 - Brass

Between flanges PN10/16/25/40

DN	32	40	50
face to face	28	35	40
code	385032	385040	385050

NEW

97/23/EC Directive N°0036 - Risk category II / module A1 - EN 558 series 49 - CF8M body - F316 disc - Metal-metal tightness - PS: 40 bar - TS: -20°C/+200°C.

CE 0036 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

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

2014/68/EU Directive N°0035 - Risk category II / module H - CF8M body - F316 disc - Metal-metal tightness - PS: 40 bar - TS: -20°C/+200°C.

CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

386 - Stainless steel

Between flanges PN10/16/25/40 & ANSI 150

DN	15	20	25	32	40	50	65	80	100
face to face	16,5	20	22	28	32	40	46	50	60
code	386015	386020	386025	386032	386040	386050	386065	386080	386100

97/23/EC Directive N°0036 - Risk category II / module A1 - F316 body & disc - Metal-metal tightness - PS: 40 bar - TS: -10°C/+300°C.

CE 0036 | ISO 9001 | 3.1 10 €/DN

387 - Stainless steel

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

97/23/EC Directive N°0035 - Risk category III / module H - CF8M body & plate - Metal-metal tightness - PS: 16 bar - TS: -20°C/+200°C - ⚠ **Not suitable for pulsatory pace - Max. speed 3m/sec.**

CE 0035 | ISO 9001 | 3.1 10 €/DN

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.**

ISO 9001 | 3.1 10 €/DN

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
face to face	180	200	240	260	300	350	400	500
360 code	360040	360050	360065	360080	360100	360125	360150	360200
362 code	362040	362050	362065	362080	362100	362125	362150	362200

Wafer swing - Single plate

Excluded from 2014/68/EU Directive (article 4, §3) - Between flanges PN16 - PS: 16 bar up to DN200, 10 bar above - ⚠ **Not suitable for pulsatory pace - Max. speed 3m/sec.**

ISO 9001 | 3.1 10 €/DN

364 - Carbon steel - EPDM gasket

TS: -10°C/+110°C.

351 - Carbon steel - NBR gasket

TS: -10°C/+80°C.

DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
face to face	14	14	14	14	18	18	20	22	26	28	36	41	50	56	56
364 code	364040	364050	364065	364080	364100	364125	364150	364200	364250	364300	364350	364400	364450	364500	364600
351 code	351040	351050	351065	351080	351100	351125	351150	351200	351250	351300	-	-	-	-	-

365 - Stainless steel CF8M - FKM gasket

TS: -10°C/+180°C.

DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
face to face	14	14	14	14	18	18	20	22	26	28	36	41	50	56	56
code	365040	365050	365065	365080	365100	365125	365150	365200	365250	365300	365350	365400	365450	365500	365600

Wafer swing - Dual plate

97/23/EC Directive N°0035 - Risk category III / module H - Lloyd's Register Type Approval for marine applications - Between flanges PN10/16 - GG25 body - PS: 16 bar up to DN300, 10 bar above - ⚠ **Not suitable for pulsatory pace.**

LR | CE 0035 | ISO 9001 | 3.1 10 €/DN

370 - NBR gasket - GGG40 plates

TS: -10°C/+90°C.

371 - EPDM gasket - CF8M plates

TS: -10°C/+110°C.

DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
face to face	43	54	54	57	64	70	76	95	108	143	184	191	203	213	222
370 code	370040	370050	370065	370080	370100	370125	370150	370200	370250	370300	370350	370400	370450	370500	370600
371 code	-	371050	371065	371080	371100	371125	371150	371200	371250	371300	-	-	-	-	-

97/23/EC Directive N°0035 - Risk category III / module H - Lloyd's Register Type Approval for marine applications - Between flanges PN10/16 - GG25 body - PS: 16 bar - ⚠ **Not suitable for pulsatory pace.**

ACS Drinking water | LR | CE 0035 | ISO 9001 | 3.1 10 €/DN

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

97/23/EC Directive N°0035 - Risk category III / module H - Lloyd's Register Type Approval for marine applications - Between flanges PN10/16 - GGG40 body - PS: 16 bar - ⚠ **Not suitable for pulsatory pace.**

LR | CE 0035 | ISO 9001 | 3.1 10 €/DN

379 - NBR gasket - Aluminium bronze plates

TS: -10°C/+90°C.

DN	50	65	80	100	125	150	200	250	300
face to face	54	54	57	64	70	76	95	108	143
code	379050	379065	379080	379100	379125	379150	379200	379250	379300

97/23/EC Directive N°0035 - Risk category III / module H - Between flanges PN25 up to DN200, PN10/16 above - CF8M body - PS: 16 bar up to DN300, 10 bar above - ⚠ **Not suitable for pulsatory pace.**

CE 0035 | ISO 9001 | 3.1 10 €/DN

372 - FKM gasket - CF8M plates

TS: -10°C/+200°C.

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
face to face	54	54	57	64	70	76	95	108	143	184	191	203	213	222
code	372050	372065	372080	372100	372125	372150	372200	372250	372300	372350	372400	372450	372500	372600

Spring - Cast iron

Excluded from 2014/68/EU Directive (article 4, §3) - GG25 body - Epoxy coated - EPDM gasket - All positions - PS: 16 bar.

ISO 9001 | 3.1 10 €/DN

369 - Flanged PN16

F304 throttle - 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 throttle - 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

Ball

Excluded from 2014/68/EU Directive (article 1, §2.b) - For water treatment and water distribution networks - Epoxy coated - PS: 10 bar.

ISO 9001 | 3.1 10 €/DN

Threaded

331 - Ductile iron GGG40 body BSP

NBR ball up to 1"1/2, NBR coated aluminium ball above - TS: -10°C/+80°C.

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 - Cast iron GG25 body BSP

NBR coated aluminium ball - According to EN 12050-4 for lifting stations - TS: -10°C/+70°C.

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

339 - Stainless steel BSP

Full F316 body & parts - FKM coated aluminium ball - PS: 16 bar - TS: 0°C/+150°C.

Ø	1"1/4	1"1/2	2"
face to face	175	190	210
code	339007	339008	339009

Flanged RF PN10 - DIN 3202 F6

332 - Ductile iron GGG40 body

NBR ball for DN40, NBR coated aluminium ball up to DN80, NBR coated steel ball above - TS: -10°C/+80°C.

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 - Cast iron GG25 body (DN65 to DN100) - Ductile iron GGG40 body (others)

NBR coated aluminium ball up to DN200, NBR coated ductile iron ball above - According to EN 12050-4 for lifting stations - TS: -10°C/+70°C.

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) - GG25 body - Epoxy coated - Carbon steel strainer - All positions. ISO 9001

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/+150°C.

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
mesh (mm)	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,5	1,5	2,0
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

97/23/EC 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 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

232 - Carbon steel ISW

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

97/23/EC Directive N°0035 - Risk category III / module H - CF8M body - F304 screen - Mesh 1 mm - With draining cap - PS: 16 bar - TS: -20°C/+200°C. CE 0035 | ISO 9001 | 3.1 10 €/DN

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

NEW

97/23/EC Directive N°1115 - Risk category III / module H - F316 stainless steel body - Mesh 0,8 mm - With draining cap - PS: 132 bar - TS -29°C/+538°C. CE 1115 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

239 - Stainless steel NPT

NPS	1/4"	3/8"	1/2"	3/4"	1"
code	239002	239003	239004	239005	239006

Flanged

Excluded from 2014/68/EU Directive (article 1, §2.b) - Flanged RF PN10/16 up to DN150, PN10 or PN16 above - EN 558 series 1 - GG25 body - Stainless steel screen - With draining cap - PS: 10 bar for PN10 strainers, 16 bar for PN16 strainers.

ISO 9001 | 3.1 10 €/DN

220 - Cast iron

F304 screen - Grey epoxy paint - TS: -10°C/+120°C.

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
mesh (mm)	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,5	1,5	1,5	1,5	3	3
face to face	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100
PN10 code	-	-	-	-	-	-	-	-	-	-	-	220201	220250	220300	220350	220400
PN16 code	220015	220020	220025	220032	220040	220050	220065	220080	220100	220125	220150	220200	220251	220301	-	-

233 - Cast iron - Water use

F316 screen & draining cap - Blue epoxy paint - TS: -10°C/+80°C.

DN	40	50	65	80	100	125	150	200/10	200/16	250/10	250/16	300/10	300/16
mesh (mm)	1	1	1,25	1,25	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6
face to face	200	230	290	310	350	400	480	600	600	730	730	850	850
code	233040	233050	233065	233080	233100	233125	233150	233200	233201	233250	233251	233300	233301
code with draining valve	233043	233053	233068	233083	233103	233128	233153	233203	233204	233253	233254	233303	233304

97/23/EC 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 | ISO 9001 | 3.1 10 €/DN

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

97/23/EC Directive N°0062 - Risk category III / module H - Flanged RF PN40 - EN 558 series 1 - A216WCB body - F304 screen - PS: 40 bar - TS: -20°C/+425°C.

CE 0062 | ISO 9001 | 3.1 10 €/DN

235 - Carbon steel - High temperature

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	235015	235020	235025	235032	235040	235050	235065	235080	235100	235125	235150	235200

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.

CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex 3 €/pc

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

NEW

■ Accessories for steam Y-strainers

MIFI - Y-strainer valve insulation jacket

Pyrogel XT Aspen Aerogels® hydrophobic insulation - Fiber glass fabric with silicone cover - Fabrics sewing by Kevlar® and stainless steel wires - Braided fiber glass ropes - TS: up to 250°C.

DN	15	20	25	32	40	50	65	80	100
code	182015SE	182020SE	182025SE	182032SE	182040SE	182050SE	182065SE	182080SE	182081SE

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.

ISO 9001

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.

ISO 9001

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) - 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/+80°C.

ISO 9001

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 1505 & 1506, see page 65.

⚠ **Expansion joint & flanges not included.**

DN	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
PN10 code	9860407	9860408	9860409	9860410	9860411	9860412	9860413	9860414	9860415	9860416	9860417	9860418	9860419	9860420	9860421	9860422
PN16 code	9860407	9860408	9860409	9860410	9860411	9860412	9860413	9860414	9860315	9860316	9860317	-	-	-	-	-

Rubber expansion joints for industry - Tegulex®

97/23/EC Directive N°0056 - Risk category III / module H - ABS, DNV or GL Type Approval for marine applications available depending on figure - 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 DN50; 10 bar above.

CE 0056 ISO 9001

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	-	-	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

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

1567 - FKM liner

FKM external cover - TS: -20°C/+150°C.
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. 3 weeks delivery time on all ref. except 1567 (6 weeks).

1560T - EPDM liner - Teflon® inner lining

EPDM external cover - ⚠ **Available movement reduced by 50%.**

DN	50	65	80	100	125	150	200
code	1560052	1560067	1560082	1560102SF	1560127	1560152	1560202

not on stock, on request. Approx. 10 weeks delivery time.

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

97/23/EC Directive N°0036 - Risk category II / module A1 - PS: 16 bar - TS: -20°C/+300°C.

CE 0036 ISO 9001

1551 - Threaded - With external & internal liner BSP

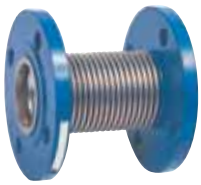
Aluminium external liner - Steel internal liner - Stainless steel 316 bellow.

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.

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.

ISO 9001

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

Excluded from 2014/68/EU Directive (article 1, §2.b) - For water supply & distribution networks - Flanged PN10/16 - GGG50 body (except fig. 2502) - Epoxy coated - EPDM gasket - Dracomet coated bolting - PS: 16 bar - TS: 0°C/+60°C.

ISO 9001

2501 - Universal flange with stop

Suitable for rigid pipes, such as cast iron, steel, PVC, asbestos cement.

DN	50	60-65	80	100	125	150	175	200	200	250	250	300	300
Ø ext. min.	60	70	88	107	133	159	165	194	216	244	266	315	345
Ø ext. max.	80	90	113	132	159	184	195	226	246	276	297	345	375
PS (bar)	16	16	16	16	16	16	16	16	16	16	16	16	16
length	145	145	150	125	140	175	183	158	183	158	158	158	200
code	2501050	2501065	2501080	2501100	2501125	2501150	2501175	2501200	2501201	2501250	2501251	2501300	2501301

2502 - Flange adaptor for PVC & polyethylene pipes

GGG40 body - Suitable for PVC, PVC-O & PE pipes - With mechanical locking ring to avoid axial movement of the pipes.

DN	50-60-65	50-60-65	80	100	125	150	175	200
Ø ext.	63	75	90	110	125	140	160	200
PS (bar)	16	16	16	16	16	16	16	16
length	72	72	76	80	80	80	90	105
code	2502063	2502075	2502090	2502110	2502125	2502140	2502160	2502200

2503 - Flange adaptor for polyethylene pipes

Suitable for PVC & polyethylene pipes - With mechanical locking ring to avoid axial movement of the pipes.

DN	50-60-65	50-60-65	80	100	125	125	150	150	200
Ø ext.	63	75	90	110	125	140	160	180	200
PS (bar)	16	16	16	16	16	16	16	16	16
length	109	109	114	119	119	124	139	139	162
code	2503063	2503075	2503090	2503110	2503125	2503140	2503160	2503180	2503200

2504 - Flange adaptor for PVC pipes

Suitable for PVC & polyethylene pipes - With mechanical locking ring to avoid axial movement of the pipes.

DN	50-60-65	50-60-65	80	100	125	125	150	150
Ø ext.	63	75	90	110	125	140	160	180
PS (bar)	16	16	16	16	16	16	16	16
length	51	53	53	58	58	58	68	68
code	2504063	2504075	2504090	2504110	2504125	2504140	2504160	2504180

2505 - Universal coupling

Suitable for rigid pipes, such as cast iron, stainless steel, PVC, asbestos cement.

DN	50	60-65	80	100	125	150	175	200	200	250	250	300	300
Ø ext. min.	60	70	88	107	133	159	165	194	216	244	266	315	345
Ø ext. max.	80	90	113	132	159	184	195	226	246	276	297	345	375
PS (bar)	16	16	16	16	16	16	16	16	16	16	16	16	16
length	186	186	186	206	206	222	222	222	242	242	242	242	242
code	2505050	2505065	2505080	2505100	2505125	2505150	2505175	2505200	2505201	2505250	2505251	2505300	2505301

2506 - Universal coupling

Suitable for rigid pipes, such as cast iron, stainless steel, PVC, asbestos cement.

DN	200	250	300	350	400	450
Ø ext. min.	194	244	315	375	400	475
Ø ext. max.	226	276	345	405	435	510
PS (bar)	16	16	16	16	16	16
length	255	255	255	295	302	302
code	2506200	2506250	2506300	2506350	2506400	2506450

not on stock, on request.

2507 - Universal coupling

Suitable for rigid pipes, such as cast iron, stainless steel, PVC, 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	240	240	250	250	260	260	295	305	315
code	2507050	2507065	2507080	2507100	2507125	2507150	2507200	2507250	2507300

2508 - Coupling for polyethylene pipes

Suitable for PVC & polyethylene pipes - With mechanical locking ring to avoid axial movement of the pipes.

DN	63	75	90	110	125	140	160	180	200	250	315
PS (bar)	16	16	16	16	16	16	16	16	16	16	16
length	191	191	201	205	211	211	232	232	290	320	360
code	2508063	2508075	2508090	2508110	2508125	2508140	2508160	2508180	2508200	2508250	2508315

Repair clamps

Excluded from 2014/68/EU Directive (article 1, §2.b) - F304 stainless steel band - Ductile iron clamp - Steel bolts - EPDM or NBR rubber gasket - PS: see charts - TS: -10°C/+60°C - Suitable for rigid pipes such as cast iron, steel, PVC, low densite PE - ⚠ **Do not use on high density PE pipes.**

ISO 9001

Repairing

1401 - M Type - 1 bolt - EPDM - Length 80 mm

ext. pipe Ø		PS	code
Min.	Max.		
21	25	20	1401021
26	30	20	1401026
29	33	20	1401029
33	37	20	1401033
38	42	20	1401038
42	45	20	1401042
48	51	20	1401048
50	54	20	1401050
55	60	20	1401055
60	64	20	1401060
65	69	20	1401065
69	73	20	1401069
71	76	20	1401071
76	82	20	1401076
82	87	20	1401082
87	93	20	1401087
94	100	20	1401094
99	104	20	1401099
105	111	20	1401105
112	118	20	1401112
120	126	20	1401120
126	131	20	1401126
131	136	20	1401131
139	145	16	1401139
156	162	16	1401156
167	173	16	1401167

Repairing for complete break

1403 - B Type - 3 bolts - EPDM - Length 200 mm

ext. pipe Ø		PS	code
Min.	Max.		
48	56	20	1403048
56	64	20	1403056
60	68	20	1403060
68	78	20	1403068
78	88	20	1403078
88	98	20	1403088
98	108	20	1403098
108	118	20	1403108
114	126	20	1403114
126	138	16	1403126
138	150	16	1403138
140	153	16	1403140
150	162	16	1403150
162	174	16	1403162
168	182	16	1403168
174	186	16	1403174
186	198	16	1403186
198	210	10	1403198
210	223	10	1403210
222	234	10	1403222
234	246	10	1403234
243	255	10	1403243
273	285	8	1403273

1405 - B Type - 3 bolts - NBR - Length 200 mm

ext. pipe Ø		PS	code
Min.	Max.		
48	56	20	1405048
56	64	20	1405056
60	68	20	1405060
68	78	20	1405068
78	88	20	1405078
88	98	20	1405088
98	108	20	1405098
108	118	20	1405108
114	126	20	1405114
126	138	16	1405126
138	150	16	1405138
140	153	16	1405140
150	162	16	1405150
162	174	16	1405162
168	182	16	1405168
174	186	16	1405174
186	198	16	1405186
198	210	10	1405198
210	223	10	1405210
222	234	10	1405222
234	246	10	1405234
243	255	10	1405243
273	285	8	1405273

1406 - D Type (2 piece) - 3 bolts x 2 - EPDM - Length 200 mm

ext. pipe Ø		PS	code
Min.	Max.		
88	110	20	1406088
114	137	20	1406114
138	160	20	1406138
160	182	20	1406160
182	202	20	1406182
202	224	16	1406202
217	240	16	1406217
240	262	16	1406240
262	284	10	1406262
273	296	10	1406273
296	319	8	1406296
324	346	8	1406324
346	368	8	1406346
365	387	8	1406365
387	410	4,5	1406387
410	432	4,5	1406410
428	450	4,5	1406428
450	474	4,5	1406450
470	492	4,5	1406470
492	516	2,5	1406492

Excluded from 2014/68/EU Directive (article 1, §2.b) - For water supply & distribution networks - Polypropylene body - PS: 10 bar - TS: -10°C/+45°C.

ISO 9001

1189 - Tapping bridge for polyethylene and PVC 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 - For polyethylene, PVC, carbon steel and cast iron pipes - PS: 10 bar - TS: -10°C/+60°C.

ISO 9001

1190 - Tapping bridge for multi-pipes

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

NEW

Excluded from 2014/68/EU Directive (article 1, §2.b) - Threaded connection acc. to ISO 965 - Forged steel body - Double tightness EPDM gasket - PS: 16 bar - TS: +4°C/+40°C.

ISO 9001

2950 - Small thread M40x300
2951 - Large thread M55x300

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

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

Actuated valves

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97/23/EC 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 | ISO 9001 | 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 ΔP max. (bar)	code	For liquids - Min. air supply 4,2 bar ΔP max. (bar)	code
3/8"	40	4,5	65	16	1420203	16	1422203
3/8"	50	4,9	65	16	1420303		-
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
1"1/2	110	46,5	120	16	1420608	16	1422608
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
3/8"	50	4,9	65	16	1424303
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

97/23/EC 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 | ISO 9001 | 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 ΔP max. (bar)	code	For liquids - Min. air supply 4,2 bar 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
1"1/2	110	46	130	16	1450608	16	1454608
2"	90	67	150	16	1450509		-
2"	110	67	150	16	1450609	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
1"1/4	63	29	120	16	1452407
1"1/2	90	46	130	16	1452508
2"	110	67	150	16	1452609

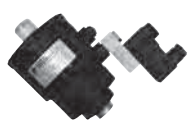
2 mechanical limit switch box for OMAL valves

control head	code
50	985008
63	985009
90	985010
110	985011

ISO pad adapter for ZEUS® & ARES® valves

code
985020N

Solenoid pilot MH,
see page 75



97/23/EC Directive N°1115 - Risk category II - Flanged RF PN16 - 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: 16 bar - TS: -10°C/+180°C.

CE 1115 | ISO 9001 | Ex Zones 1 & 2 on request

ARÈS® - Stainless steel actuated angle seat valves - Flanged RF PN16

1470 - Normally closed
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	5,3	130	16	1470304
20	50	9,2	150	10	1470305
25	63	20	160	11	1470406
32	63	29	180	14	1470507
40	90	46	200	11	1470508
50	110	59	230	10	1470609

BW & clamp versions 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 | ISO 9001

HF - Full stainless steel actuated angle seat valves 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	116	11	5	1430407A	6	4,5	1434407A
1"1/2	32,9	116	11	6	1430408A	10	4	1434508A
2"	52,8	138	11	6,5	1430509A	6	4	1434509A

Same features as above, except: TS: -10°C/+100°C.

ISO 9001

HF 32 - Full stainless steel 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	1436303
1/2"	4,7	74	6	5	1436304
3/4"	5,4	84	4	5	1436305

Solenoid pilot MH,
see page 75

97/23/EC Directive N°0036 - Risk category III - Flanged PN16 RF - On/off - Spring return, NC - GGG40 body - PTFE-graphite parabolic seat - Aluminium pneumatic actuator with anti-corrosion coating - Air supply from 6 to 10 bar - Air supply connection 1/4" NPT - PS: 16 bar - TS: -10°C/+200°C - Steam up to 12 bar, 192°C.

CE 0036 | ISO 9001 | Ex on request

VL 10 - Ductile iron flanged on/off pneumatic actuated valves

DN	Kv (m³/h)	face to face (mm)	operating pressure		max. ΔP (bar)	code
			min.	max.		
15	3,8	130	6	10	12	1410015F
20	5,1	150	6	10	12	1410020F
25	9,4	160	6	10	12	1410025F
32	15,4	180	6	10	12	1410032F
40	22,2	200	6	10	12	1410040F
50	40,1	230	6	10	10	1410050F
65*	63,4	290	6	10	12	1410065F
80	89,7	310	6	10	8	1410080F
100	136,7	350	6	10	3	1410100F

* 4 hole flanges.

Brass NPT/BSP adapter NPT / BSP

Ø	code
1/4"	21300202

Aluminium actuators

Design acc. to EN 15714-3 - CE Ex II 2G/D c for areas 1, 2, 21 & 22 - Valve mounting according to ISO 5211- Limit switch box bracket connection & solenoid pilot valve connection according to NAMUR VDI/VDE 3845 - Rack and pinion actuator - 90° operating angle (±5°) - Anodized aluminum body - Epoxy coated aluminium caps - Position indicator - Adustable limits screws - Environment working temperature: -30°C/+100°C - Max. air supply: 8 bar - Air supply connection 1/4".

SIL 3 | CE | ISO 9001 | Ex

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	015109B	041159B

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	14	10	F05	14	NAMUR 2	016100B	041150B
ASR40	26	17	F05	14	NAMUR 2	016101B	041151B
ASR80	51	37	F05/F07	17	NAMUR 2	016102B	041152B
ASR130	80	64	F05/F07	17	NAMUR 2	016103B	041153B
ASR200	113	84	F07/F10	17	NAMUR 2	016104B	041154B
ASR300	190	126	F07/F10	22	NAMUR 2	016105B	041155B
ASR500	283	205	F10	22	NAMUR 2	016106B	041156B
ASR850	488	367	F10/F12	27	NAMUR 2	016107B	041157B
ASR1200	698	502	F10/F14	36	NAMUR 2	016108B	041158B
ASR1750	877	578	F14	36	NAMUR 2	016109B	041159B

Same features a ADA/ASR pneumatic actuators except environment working temperature: -20°C/+80°C.

SIL 3 | CE | ISO 9001 | Ex

Alphair

RE - Double acting

NEW

type	avail. torque (Nm) at air supply 6 bar	ISO	⬡	VDI/VDE	code
RE51	20,1	F03/F05	11	NAMUR 1	017006RE
RE64	35,5	F05	14	NAMUR 1	017007RE
RE76	70,6	F05/F07	17	NAMUR 1	017008RE
RE86	103,4	F05/F07	17	NAMUR 1	017009RE
RE101	164,8	F07/F10	17	NAMUR 1	017010RE
RE116	262,3	F07/F10	22	NAMUR 3	017011RE
RE126	339,8	F07/F10	22	NAMUR 3	017012RE
RE146	530,1	F10/F12	27	NAMUR 3	017013RE
RE161	689,2	F12	27	NAMUR 4	017014RE
RE201	1292,0	F14	36	NAMUR 4	017016RE

RES - Spring return

NEW

type	avail. torque (Nm) at air supply 6 bar		ISO	⬡	VDI/VDE	code
	air opening	spring closing				
RE SR51	13,3	8,4	F03/F05	11	NAMUR 1	017106RE
RE SR64	23,5	14,8	F05	14	NAMUR 1	017107RE
RE SR76	46,6	29,2	F05/F07	17	NAMUR 1	017108RE
RE SR86	68,3	43,0	F05/F07	17	NAMUR 1	017109RE
RE SR101	106,3	67,0	F07/F10	17	NAMUR 1	017110RE
RE SR116	172,3	107,7	F07/F10	22	NAMUR 3	017111RE
RE SR126	222,0	138,8	F07/F10	22	NAMUR 3	017112RE
RE SR146	324,9	205,2	F10/F12	27	NAMUR 3	017113RE
RE SR161	405,3	283,8	F12	27	NAMUR 4	017114RE
RE SR201	772,3	519,6	F14	36	NAMUR 4	017116RE

Same features as RE / RES pneumatic actuator except: 90° operating angle without adjustable limit screws.

SIL 3 | CE | ISO 9001 | Ex

Alphair

AP - Double acting

type	avail. torque (Nm) at air supply 6 bar	ISO	⌀	VDI/VDE	code	Standard gaskets set code
AP42	13,0	F03/F05	11	NAMUR 1	017004	041228
AP50	18,5	F03/F05	11	NAMUR 1	017006	041203
AP63	33,0	F05	14	NAMUR 1	017007	041204
AP75	70,2	F05/F07	17	NAMUR 1	017008	041205
AP85	106,9	F05/F07	17	NAMUR 1	017009	041206
AP100	166,4	F07/F10	17	NAMUR 1	017010	041207
AP115	274,5	F07/F10	22	NAMUR 3	017011	041208
AP125	361,1	F07/F10	22	NAMUR 3	017012	041209
AP145	520,2	F10/F12	27	NAMUR 3	017013	041210
AP160	710,1	F12	27	NAMUR 4	017014	041211
AP180	958	F14	36	NAMUR 4	017015	041229
AP200	1333	F14	36	NAMUR 4	017016	041212
AP240	2235	F14	36	NAMUR 4	017018*	041230
AP270	3235	F16	46	NAMUR 4	017017*	041213
AP330	5469	F16	46	NAMUR 4	017019*	041231

* No NAMUR connection to pilot valve, adapter on request (code 041201).

not in stock, on request.

APS - Spring return

type	avail. torque (Nm) at air supply 6 bar		ISO	⌀	VDI/VDE	code	Standard gaskets set code
	air opening	spring closing					
APS42	8,1	4,1	F03/F05	11	NAMUR 1	017104	041228
APS50	11,5	7,0	F03/F05	11	NAMUR 1	017106	041203
APS63	18,5	12,5	F05	14	NAMUR 1	017107	041204
APS75	45,1	25,3	F05/F07	17	NAMUR 1	017108	041205
APS85	69,1	37,8	F05/F07	17	NAMUR 1	017109	041206
APS100	106,4	60,0	F07/F10	17	NAMUR 1	017110	041207
APS115	168,5	106,0	F07/F10	22	NAMUR 3	017111	041208
APS125	233,6	127,5	F07/F10	22	NAMUR 3	017112	041209
APS145	316,0	184,0	F10/F12	27	NAMUR 3	017113	041210
APS160	444,8	265,3	F12	27	NAMUR 4	017114	041211
APS180	575,9	382,1	F14	36	NAMUR 4	017115	041229
APS200	847,2	484,1	F14	36	NAMUR 4	017116	041212
APS240	1328	907	F14	36	NAMUR 4	017118*	041230
APS270	1825	1410	F16	46	NAMUR 4	017117*	041213
APS330	3253	2216	F16	46	NAMUR 4	017119*	041231

* No NAMUR connection to pilot valve, adapter on request (code 041201).

not in stock, on request.

Other types on request

APX - 180° double acting

APINOX - Full stainless steel

Plastic actuators

CE Ex II 2 GD c T6 - Valve mounting according to ISO 5211- Limit switch box bracket connection according to NAMUR 1 - Solenoid pilot connection according 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 3 | CE | Ex

Prisma

Double acting

type	avail. torque (Nm) at air supply 6 bar	ISO	⌀	VDI/VDE	code
PPW	17	F04	11	NAMUR 1	012100
PP00	25	F05	14	NAMUR 1	012103
PP10	71	F07	17	NAMUR 1	012106
PP20	165	F07	22	NAMUR 1	012109

Spring return

type	avail. torque (Nm) at air supply 6 bar		ISO	⌀	VDI/VDE	code
	air opening	spring closing				
PPWS	10,6	6,5	F04	11	NAMUR 1	012120
PP00S	13,7	11,3	F05	14	NAMUR 1	012123
PP10S	40,2	30,8	F07	17	NAMUR 1	012126
PP20S	101,3	64,2	F07	22	NAMUR 1	012129

Limit switch boxes

Plastic limit switch boxes

SP - Universal limit switch box IP65

Black noryl compact box - Anti-UV polycarbonate cover with flat indicator - Includes universal adjustable bracket for NAMUR 1, 2 & 3 - Includes gland pack M20 x 1,5.

IP 65

type	switches	Amb. temp.	code
SP 012	2 SPDT silver plated mechanical switches 250V AC - 5A	-15°C/+80°C	0460012N
SP 732	2 inductive detectors 3 threads PNP 10-30V DC P+F NBB2 V3 E2	-15°C/+80°C	0460014N

Aluminium limit switch boxes

APL 210 - Limit switch box IP67 for ADA/ASR

Epoxy coated aluminium housing - 3D position indicator - Without gland pack & cap - Includes stainless steel bracket - Exclusively for ADA/ASR (Actreg) actuators.

IP 67

type	switches	code
APL 210	2 SPDT mechanical switches 250V AC - 3A	0460000N

SM - Universal limit switch box IP65

Aluminium compact box - Anti-UV polycarbonate cover with 3D position indicator - Includes universal adjustable bracket for NAMUR 1, 2 & 3 - Includes gland pack M20 x 1,5.

SIL 3 on request | IP 65

type	switches	Amb. temp.	code
SM 012	2 SPDT silver plated mechanical switches 250V AC - 5A	-15°C/+80°C	0460512N
SM 732	2 inductive detectors 3 threads PNP 10-30V DC P+F NBB2 V3 E2	-15°C/+80°C	0460514N

SF - Limit switch box IP67

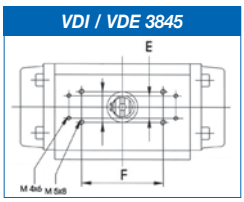
Polyester coated aluminium box & cover - Stainless steel stem - Adjustable 3D position indicator - 2 wire inlets M20 x 1,5 - F05 ISO pad - Stem VDI/VDE 3845 - **Without gland pack, cap & bracket.**

SIL 3 on request | IP 67

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
SF 82240	2 electro-pneumatic switches NC 2-8 bar for dry air	-20°C/+80°C	0462822
	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.



type	length F (mm)	width E (mm)	heigth (mm)	code
Kit NAMUR 0	50	25	20	050210
Kit NAMUR 1	80	30	20	050072
Kit NAMUR 2	80	30	30	050061
Kit NAMUR 3	130	30	30	050073
Kit NAMUR 4	130	30	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"

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.**

SF3D: CE Ex II 3D Ex tD A22 IP65 T85°C - SF3G: CE Ex II 3G Ex nA IIC T6 & CE Ex II 3D Ex tD A22 IP65 T80°C.

SIL 3 on request | IP 65 | Ex Zones 2, 22

type	switches	zones	Amb. temp.	code
SF3D 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"

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 3 on request | IP 67 | Ex Zones 1, 21, 2, 22

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

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 3 on request | IP 67 | Ex Zones 1, 21, 2, 22

type	switches	Amb. Temp	code
SK 01200	2 SPDT silver plated mechanical switches 250V AC - 5A / 24V DC-3A	-20°C/+80°C	0477012

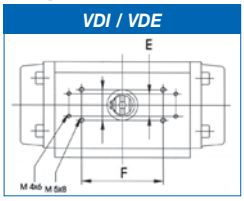
SY - Limit switch box IP68 anti-explosion IIC

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 3 on request | IP 67 | 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

615 - Stainless steel bracket VDI/VDE 3845 for SF, SIB & SY limit switch boxes



type	length F (mm)	width E (mm)	heigth (mm)	code
NAMUR 1	80	30	20	061659N
NAMUR 2	80	30	30	061615N
NAMUR 3	130	30	30	061660N
NAMUR 4	130	30	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

type	switches	Amb. temp.	code
IN 5225	Dual detector - IP 67 - 10-36V DC - 2 NO outlets - With base for M12 connector	-25°C/+80°C	121138N
E 11509	M12 connector for IN 5225		121148N
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
IN 0110	Dual detector - IP 67 - 20-250V AC/DC - 2 NO outlets - With 2 m wire	-25°C/+80°C	121133N
NN 5013	Dual detector - 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
NN 5009	Dual detector - ATEX Ex ia IIC T6 - IP67 - 8V DC - 2 NC outlets - With 2 m wire	-20°C/+70°C	121136
	Detector cam for ADA/ASR (Actreg) actuators		121270
	Detector cam for AP40 to AP100 (Alphair) activators		121271
	Detector cam for AP115 to AP200 (Alphair) activators		121274

Inductive position detector P+F

type	switches	Amb. temp.	code
NBN3-F31K-E8-K	Dual detector - IP 68 - With gland pack - 10-30V DC - 2 PNP inlets & solenoid pilot valve outlet - ⚠ Not for ADA/ASR (Artreg) actuators	-25°C/+70°C	122133
	Cam P+F Namur 1 & 2		122131
	Cam P+F Namur 3 & 4		122132

Solenoid pilot valves 3/2

CEME EBB 62 BSP

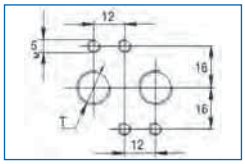
Brass - 1/4" F/F - 1/8" decompression outlet - Bore 2 mm - PS (AC): 10 bar, PS (DC): 7 bar - TS: 150°C.

voltage	code
230V AC	041800N
24V AC	041801N
48V AC	041802N
110V AC	041803N
12V DC	041806N
24V DC	041807N
48V DC	041808N
110V DC	041809N

MH - 3/2 function BSP

Brass - 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



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) - IP65 coil.

IP 65 | SIL 3 | CE | ISO 9001

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
12V DC	980262

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 DC	041641

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: -10°C/+50°C.

voltage	code
230V AC	042120
24V AC	042121
48V AC	042122
110V AC	042123
12V DC	042124
24V DC	042125

4220 - Bistable LUCIFER 347N11 5/2

1/4" inlet & 1/8" outlet ports - TS: -25°C/+50°C.

voltage	code
230V AC	042200
24V AC	042201
48V AC	042202
110V AC	042203
12V DC	042204
24V DC	042205

Namur interface - ATEX protection - 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 PARKER: -25°C/+80°C.

SIL 3 | CE | ISO 9001 | Ex

4280 - Monostable ASCO 551-LPKF

CE Ex II 2 G Ex d IIB+H2 T6 / CE Ex II 2 D Ex tb IIIC T85°C 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 T5 Gb / CE Ex II 2 D Ex mb IIIC T110°C Db IP67 - For areas 1-21 & 2-22 - With 2 m overnoulded 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 T4 Gb / CE Ex II 2 D Ex tb IIIC T135°C Db IP67 for areas 2-22.

voltage	code
230V AC	042810
24V AC	042811
24V DC	042815

4230 - Monostable LUCIFER 341N31

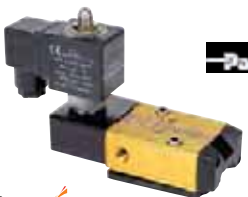
CE Ex II 2 GD Ex me II T4 for areas 1, 2, 21 & 22 - TS: +130°C.

voltage	code
230V AC	042300
24V AC	042301
24V DC	042302

4250 - Monostable LUCIFER 341N31

CE Ex II 2 GD Ex md IIC T4 for areas 1, 2, 21 & 22.

voltage	code
230V AC	042500
48V AC	042503



4240 - Monostable LUCIFER 341N35

CE Ex II 1 GD Ex ia IIC T6 for areas 0 & 20.

voltage	code
24V DC	042402

4270 - Monostable LUCIFER 341N01

CE Ex II 3 Gd Ex nAC IIC T5 for areas 2 & 22

voltage	code
230V AC	042700
24V AC	042701

Accessories for Namur solenoid pilot valves

Brass silencer BSP

Ø	code
1/8"	041192
1/4"	041193
3/8"	041198
1/2"	041300
3/4"	041194

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
1/2"	041512
3/4"	041513

Brass NPT/BSP adapter NPT / BSP

Ø	code
1/4"	21300202

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

⚠ Mounting & tubing not included, see below

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	AP32-AP50	999TUBPOSI1
All	RE64-RE201	AP63-AP200	999TUBPOSI2
-	-	AP240-AP300	999TUBPOSI3

Accessories for pneumatic actuated valves

RMD - Declutchable gear box

Cast iron GG25 body - Steel wheel - To select a gear box, add the valve torque & the actuator torque (compressed springs).

	valve		actuator			
type	ISO	⊠F	ISO	⊠M	torque (Nm)	code
RMD 0A	F5	17	F05	14	125	041480
RMD 1A	F7/F10	22	F07	17	270	041481
RMD 2A	F10/F12	27	F10/F12	22	800	041482
RMD 3A	F12	27	F12	27	1150	041483
RMD 4A	F14	36	F14	36	2500	041484

Accessories for pneumatic actuation

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
710 & 711	1/2" to 1"1/4	RHVM01	1"1/2 & 2"	RHVM02
715 XS	1/2" to 1"1/2	RHVM01	2"	RHVM02
736 & 746 XS	1/2" to 1"1/4	RHVM01	1"1/2 & 2"	RHVM02
737 - 747 XS	1/2" to 1"1/4	RHVM01	1"1/2 & 2"	RHVM02
765 XS	1/2" to 1"1/4	RHVM01	1"1/2 & 2"	RHVM02
780 - 781 XS	1/2" to 1"1/2	RHVM01	2"	RHVM02

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
737 XS - 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

Pneumatic actuated valves

Pneumatic actuated ball valves with NK actuators

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

TA LUFT | CE 0035 | ISO 9001 | 3.1 10 €/DN

NEW

715 XS - 2 piece stainless steel ball valve BSP

CF8M body & ball - PTFE seats - Stem tightness: PTFE/FKM - Full bore - PS: 63 bar - TS: -10°C/+180°C.

Ø	double acting		spring return	
	actuator	code	actuator	code
1/2"	NK52	272402010002	NKS52	272402010102
3/4"	NK52	272403010002	NKS52	272403010102
1"	NK52	272404010002	NKS63	272404010103
1"1/4	NK52	272405010002	NKS63	272405010105
1"1/2	NK63	272406010003	NKS83	272406010105
2"	NK63	272407010003	NKS83	272407010105
2"1/2	NK83	272408010005	NKS92	272408010106
3"	NK83	272409010005	NKS105	272409010107

ON STOCK READY FOR SHIPMENT

746 XS - 3 piece stainless steel ball valve BSP

CF8M body & ball - RTFE seats - Stem tightness: PTFE/FKM - Full bore - PS: 63 bar -TS: -40°C/+180°C.

Ø	double acting		spring return	
	actuator	code	actuator	code
1/4"	NK52	272500010002	NKS52	272500010102
3/8"	NK52	272501010002	NKS52	272501010102
1/2"	NK52	272642010002	NKS52	272642010102
3/4"	NK52	272643010002	NKS52	272643010102
1"	NK52	272644010002	NKS52	272644010102
1"1/4	NK52	272645010002	NKS83	272645010102
1"1/2	NK63	272646010003	NKS83	272646010105
2"	NK63	272647010003	NKS83	272647010105
2"1/2	NK83	272648010005	NKS83	272648010105
3"	NK83	272649010005	NKS92	272649010106
4"	NK83	272650010005	NKS92	272650010106

ON STOCK READY FOR SHIPMENT

Spare actuators

NEW

Valve mounting according to ISO 5211- Solenoid pilot valve connection according to NAMUR VDI/VDE 3845 - Rack and pinion actuator - 90° operating angle (±5°) - Aluminium body & caps - Aluminium piston - Position indicator - Adustable limits screws - Environment working temperature: -20°C/+80°C - Max. air supply: 8 bar - Air supply connection 1/4".

CE | ISO 9001

NK Double acting

type	avail. torque (Nm) at air supply 6 bar	ISO	⬡	code
NK52	24	F03/05	11	010002
NK53	44	F05/07	14	010003
NK83	94	F05/07	17	010005

NKS Spring return

type	avail. torque (Nm) at air supply 6 bar		ISO	⬡	code
	air opening	spring closing			
NKS52	14	10	F03/05	11	010102
NKS63	27	16	F05/07	14	010103
NKS83	56	38	F05/07	17	010105
NKS92	79	56	F05/07	17	010106
NKS105	122	76	F07/10	22	010107

Pneumatic actuated ball valves with Actreg actuators

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar -
Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

ISO 9001

502 - Brass ball valve BSP

CW617N body & ball - PTFE seats - Stem tightness: NBR - Full bore - PS: 16 bar - TS: -10°C/+100°C.

CE 1115

Ø	double acting		Ø	spring return	
	actuator	code		actuator	code
1/4"	ADA20	270090015100	1/4"	ASR20	270090016100
3/8"	ADA20	270091015100	3/8"	ASR20	270091016100
1/2"	ADA20	270002015100	1/2"	ASR20	270002016100
3/4"	ADA20	270003015100	3/4"	ASR20	270003016100
1"	ADA20	270004015100	1"	ASR40	270004016101
1"1/4	ADA20	270005015100	1"1/4	ASR80	270005016102
1"1/2	ADA40	270006015101	1"1/2	ASR130	270006016103
2"	ADA80	270007015102	2"	ASR200	270007016104
2"1/2	ADA80	270038015102	2"1/2	ASR200	270038016104
3"	ADA130	270039015103	3"	ASR300	270039016105
4"	ADA200	270040015104	4"	ASR300	270040016105

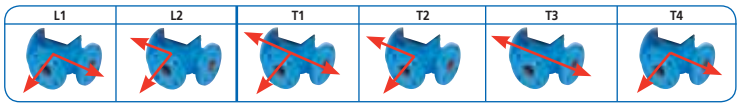
513 L port / 514 T port - 3 way brass ball valve BSP

CW617N body & ball - PTFE seats - Stem tightness: FKM - Reduced bore - PS: 16 bar - TS: -10°C/+100°C.

CE 1115

Ø	double acting		Ø	spring return	
	actuator	513 L code		actuator	513 L code
1/4"	ADA20	275010015100	1/4"	ASR20	275010016100
3/8"	ADA20	275011015100	3/8"	ASR20	275011016100
1/2"	ADA20	275012015100	1/2"	ASR20	275012016100
3/4"	ADA20	275013015100	3/4"	ASR40	275013016101
1"	ADA20	275014015100	1"	ASR80	275014016102
1"1/4	ADA40	275015015101	1"1/4	ASR130	275015016103
1"1/2	ADA40	275016015101	1"1/2	ASR200	275016016104
2"	ADA80	275017015102	2"	ASR200	275017016104

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



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

507 - Cast iron flanged ball valve

GG25 body - Stainless steel ball - PTFE seats - Stem tightness: FKM - Full bore - Flanged RF PN10/16 - DIN 3202 F4/F5 - PS: 16 bar - TS: -10°C/+200°C.

CE

DN	double acting		DN	spring return	
	actuator	code		actuator	code
40	ADA40	270226015101	40	ASR130	270226016103
50	ADA80	270227015102	50	ASR200	270227016104
65	ADA80	270228015102	65	ASR200	270228016104
80	ADA130	270229015103	80	ASR300	270229016105
100	ADA200	270230015104	100	ASR300	270230016105
125	ADA300	270231015105	125	ASR850	270231016107
150	ADA300	270232015105	150	ASR850	270232016107
200	ADA850	270233015107			

715 XS - 2 piece stainless steel ball valve BSP

CF8M body & ball - PTFE seats - Stem tightness: PTFE/FKM - Full bore -PS: 63 bar - TS: -10°C/+180°C

TA LUFT | CE 0035 | 3.1 10 €/DN | Ex 10 €/pc

Ø	double acting		Ø	spring return	
	actuator	code		actuator	code
1/2"	ADA20	272402015100	1/2"	ASR20	272402016100
3/4"	ADA20	272403015100	3/4"	ASR20	272403016100
1"	ADA20	272404015100	1"	ASR40	272404016101
1"1/4	ADA20	272405015100	1"1/4	ASR80	272405016102
1"1/2	ADA40	272406015101	1"1/2	ASR130	272406016103
2"	ADA80	272407015102	2"	ASR200	272407016104
2"1/2	ADA80	272408015102	2"1/2	ASR200	272408016104
3"	ADA130	272409015103	3"	ASR300	272409016105

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

also available	736 XS	734 XS	735 XS
	BSP	BW	SW
code	27146...	27148...	27150...

736 XS - 3 piece carbon steel ball valve BSP

A216WCB body - CF8M ball - RTFE seats - Stem tightness: PTFE/FKM - Full bore - PS: 63 bar - TS: -25°C/+180°C.

TA LUFT

Ø	double acting actuator	double acting code	Ø	spring return actuator	spring return code
1/2"	ADA20	271462015100	1/2"	ASR20	271462016100
3/4"	ADA20	271463015100	3/4"	ASR20	271463016100
1"	ADA20	271464015100	1"	ASR40	271464016101
1"1/4	ADA20	271465015100	1"1/4	ASR80	271465016102
1"1/2	ADA40	271466015101	1"1/2	ASR130	271466016103
2"	ADA80	271467015102	2"	ASR200	271467016104
2"1/2	ADA80	271468015102	2"1/2	ASR200	271468016104
3"	ADA130	271469015103	3"	ASR300	271469016105
4"	ADA200	271470015104	4"	ASR300	271470016105

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

746 XS - 3 piece stainless steel ball valve BSP

CF8M body & ball - RTFE seats - Stem tightness: PTFE/FKM - Full bore - PS: 63 bar -TS: -40°C/+180°C.

TA LUFT

Ø	double acting actuator	double acting code	Ø	spring return actuator	spring return code
1/2"	ADA20	272642015100	1/2"	ASR20	272642016100
3/4"	ADA20	272643015100	3/4"	ASR20	272643016100
1"	ADA20	272644015100	1"	ASR40	272644016101
1"1/4	ADA20	272645015100	1"1/4	ASR80	272645016102
1"1/2	ADA40	272646015101	1"1/2	ASR130	272646016103
2"	ADA80	272647015102	2"	ASR200	272647016104
2"1/2	ADA80	272648015102	2"1/2	ASR200	272648016104
3"	ADA130	272649015103	3"	ASR300	272649016105
4"	ADA200	272650015104	4"	ASR300	272650016105

STEAM

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

737 XS - 3 piece carbon steel ball valve BSP

A216WCB body - CF8M ball - PTFE-stainless steel seats - Stem tightness: PTFE-stainless steel - Full bore - PS: 63 bar - TS: -25°C/+220°C - ⚠ **Steam use**: PS: 15 bar / TS: +200°C.

TA LUFT | FIRE SAFE

Ø	double acting actuator	double acting code	Ø	spring return actuator	spring return code
1/2"	ADA20	271202015100	1/2"	ASR20	271202016100
3/4"	ADA20	271203015100	3/4"	ASR40	271203016101
1"	ADA20	271204015100	1"	ASR40	271204016101
1"1/4	ADA20	271205015100	1"1/4	ASR80	271205016102
1"1/2	ADA40	271206015101	1"1/2	ASR130	271206016103
2"	ADA80	271207015102	2"	ASR200	271207016104

STEAM

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

747 XS - 3 piece stainless steel ball valve BSP

CF8M body & ball - PTFE-stainless steel seats - Stem: PTFE-stainless-sleel - Full bore - PS: 63 bar - TS: -40°C/+220°C - ⚠ **Steam use**: PS: 15 bar / TS: +200°C.

TA LUFT | FIRE SAFE

Ø	double acting actuator	double acting code	Ø	spring return actuator	spring return code
1/2"	ADA20	272702015100	1/2"	ASR20	272702016100
3/4"	ADA20	272703015100	3/4"	ASR40	272703016101
1"	ADA20	272704015100	1"	ASR40	272704016101
1"1/4	ADA20	272705015100	1"1/4	ASR80	272705016102
1"1/2	ADA40	272706015101	1"1/2	ASR130	272706016103
2"	ADA80	272707015102	2"	ASR200	272707016104

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

OIL & GAS

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

702 - 3 piece carbon steel ball valve BSP

A216WCB body - CF8M ball - RTFE seats - Full bore - Antistatic device - PS: 100 bar - TS: -20°C/+180°C - Other ΔP on request.

FIRE SAFE | CE 0038

Ø	double acting actuator	double acting code	Ø	spring return actuator	spring return code
1/4"	ADA20	271540015100	1/4"	ASR20	271540016100
3/8"	ADA20	271541015100	3/8"	ASR20	271541016100
1/2"	ADA20	271542015100	1/2"	ASR20	271542016100
3/4"	ADA20	271543015100	3/4"	ASR40	271543016101
1"	ADA20	271544015100	1"	ASR40	271544016101
1"1/4	ADA40	271545015101	1"1/4	ASR80	271545016102
1"1/2	ADA40	271546015101	1"1/2	ASR130	271546016103
2"	ADA80	271547015102	2"	ASR200	271547016104

OIL & GAS

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

703 - 3 piece stainless steel ball valve BSP

CF8M body & ball - RTFE seats - Full bore - Antistatic device - PS: 100 bar - TS: -30°C/+180°C - Other ΔP on request.

FIRE SAFE | CE 0038

Ø	double acting actuator	double acting code	Ø	spring return actuator	spring return code
1/4"	ADA20	272240015100	1/4"	ASR20	272240016100
3/8"	ADA20	272241015100	3/8"	ASR20	272241016100
1/2"	ADA20	272242015100	1/2"	ASR20	272242016100
3/4"	ADA20	272243015100	3/4"	ASR40	272243016101
1"	ADA20	272244015100	1"	ASR40	272244016101
1"1/4	ADA40	272245015101	1"1/4	ASR80	272245016102
1"1/2	ADA40	272246015101	1"1/2	ASR130	272246016103
2"	ADA80	272247015102	2"	ASR200	272247016104

STEAM

765 XS - 3 piece carbon steel flanged ball valve

A216WCB body - CF8M ball - PTFE-stainless steel seats - Body & stem tightness: PTFE-graphite - Full bore - Flanged RF PN40 - DIN 3202 F1 - PS: 40 bar - TS: -25°C/+220°C -

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

TA LUFT | FIRE SAFE | CE 0035

DN	double acting actuator	double acting code	DN	spring return actuator	spring return code
15	ADA20	271322015100	15	ASR20	271322016100
20	ADA20	271323015100	20	ASR40	271323016101
25	ADA20	271324015100	25	ASR40	271324016101
32	ADA20	271325015100	32	ASR80	271325016102
40	ADA40	271326015101	40	ASR130	271326016103
50	ADA80	271327015102	50	ASR200	271327016104
65	ADA80	271328015102	65	ASR200	271328016104
80	ADA130	271329015103	80	ASR300	271329016105
100	ADA200	271330015104	100	ASR500	271330016106

771 XS - Stainless steel flanged ball valve wafer type

CF8M body & ball - PTFE seats - Stem tightness: PTFE - Full bore - Wafer type RF PN16 - PS: 16 bar - TS: -30°C/+180°C.

TA LUFT | CE 0035

DN	double acting actuator	double acting code	DN	spring return actuator	spring return code
15	ADA20	272902015100	15	ASR20	272902016100
20	ADA20	272903015100	20	ASR40	272903016101
25	ADA20	272904015100	25	ASR40	272904016101
32	ADA20	272905015100	32	ASR80	272905016102
40	ADA80	272906015102	40	ASR130	272906016103
50	ADA80	272907015102	50	ASR200	272907016104
65	ADA80	272908015102	65	ASR200	272908016104
80	ADA130	272909015103	80	ASR500	272909016106
100	ADA300	272910015105	100	ASR500	272910016106

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

FIRE SAFE | ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

762 - Split-body carbon steel flanged ball valve

A216WCB body - CF8M ball - RTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN16 - DIN 3202 F4/F5 - PS: 40 bar up to DN50, 16 bar above - TS: -20°C/+150°C.

CE 0035

DN	double acting		DN	spring return	
	actuator	code		actuator	code
15	ADA20	274242015100	15	ASR40	274242016101
20	ADA20	274243015100	20	ASR40	274243016101
25	ADA20	274244015100	25	ASR40	274244016101
32	ADA40	274245015101	32	ASR80	274245016102
40	ADA40	274246015101	40	ASR130	274246016103
50	ADA80	274247015102	50	ASR200	274247016104
65	ADA130	274248015103	65	ASR200	274248016104
80	ADA130	274249015103	80	ASR300	274249016105
100	ADA200	274250015104	100	ASR500	274250016106
125	ADA300	274251015105	125	ASR850	274251016107
150	ADA850	274252015107	150	ASR1200	274252016108
200	ADA850	274253015107			

763 - Split-body stainless steel flanged ball valve

CF8M body & ball - PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN16 - DIN 3202 F4/F5 - PS: 40 bar up to DN50, 16 bar above - TS: -20°C/+150°C.

CE 0035

DN	double acting		DN	spring return	
	actuator	code		actuator	code
15	ADA20	274362015100	15	ASR40	274362016101
20	ADA20	274363015100	20	ASR40	274363016101
25	ADA20	274364015100	25	ASR40	274364016101
32	ADA40	274365015101	32	ASR80	274365016102
40	ADA40	274366015101	40	ASR130	274366016103
50	ADA80	274367015102	50	ASR200	274367016104
65	ADA130	274368015103	65	ASR200	274368016104
80	ADA130	274369015103	80	ASR300	274369016105
100	ADA200	274370015104	100	ASR500	274370016106
125	ADA300	274371015105	125	ASR850	274371016107
150	ADA850	274372015107	150	ASR1200	274372016108
200	ADA850	274373015107			

756 - Split-body carbon steel flanged ball valve

A216WCB body - CF8M ball - TFM™ 1600 PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF ANSI 150 - PS: 20 bar - TS: -20°C/+200°C.

FUGITIVE EMISSIONS | CE 0062

OIL & GAS

NPS	double acting		NPS	spring return	
	actuator	code		actuator	code
1/2"	ADA20	274322015100	1/2"	ASR40	274322016101
3/4"	ADA20	274323015100	3/4"	ASR40	274323016101
1"	ADA20	274324015100	1"	ASR80	274324016102
1"1/2	ADA40	274326015101	1"1/2	ASR80	274326016102
2"	ADA80	274327015102	2"	ASR200	274327016104
2"1/2	ADA130	274328015103	2"1/2	ASR300	274328016105
3"	ADA130	274329015103	3"	ASR300	274329016105
4"	ADA200	274330015104	4"	ASR500	274330016106
6"	ADA500	274332015106	6"	ASR850	274332016107

757 - Split-body stainless steel flanged ball valve

CF8M body & ball - TFM™ 1600 PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF ANSI 150 - PS: 20 bar - TS: -30°C/+200°C.

FUGITIVE EMISSIONS | CE 0062

OIL & GAS

NPS	double acting		NPS	spring return	
	actuator	code		actuator	code
1/2"	ADA20	274422015100	1/2"	ASR40	274422016101
3/4"	ADA20	274423015100	3/4"	ASR40	274423016101
1"	ADA20	274424015100	1"	ASR80	274424016102
1"1/2	ADA40	274426015101	1"1/2	ASR80	274426016102
2"	ADA80	274427015102	2"	ASR200	274427016104
2"1/2	ADA130	274428015103	2"1/2	ASR300	274428016105
3"	ADA130	274429015103	3"	ASR300	274429016105
4"	ADA200	274430015104	4"	ASR500	274430016106
6"	ADA500	274432015106	6"	ASR850	274432016107

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

FUGITIVE EMISSIONS | FIRE SAFE | CE 0062 | ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

752 - Split-body carbon steel flanged ball valve

A216WCB body - CF8M ball - TFM™ 1600 PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN16 - DIN 3202 F4/F5 - PS: 40 bar up to DN50, 16 bar above - TS: -20°C/+200°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
15	ADA20	274282015100	15	ASR40	274282016101
20	ADA20	274283015100	20	ASR40	274283016101
25	ADA20	274284015100	25	ASR80	274284016102
32	ADA40	274285015101	32	ASR80	274285016102
40	ADA40	274286015101	40	ASR80	274286016102
50	ADA80	274287015102	50	ASR200	274287016104
65	ADA130	274288015103	65	ASR300	274288016105
80	ADA130	274289015103	80	ASR300	274289016105
100	ADA200	274290015104	100	ASR500	274290016106
125	ADA300	274291015105	125	ASR850	274291016107
150	ADA500	274292015106	150	ASR850	274292016107

753 - Split-body stainless steel flanged ball valve

CF8M body & ball - TFM™ 1600 PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN16 - DIN 3202 F4/F5 - PS: 40 bar up to DN50, 16 bar above - TS: -30°C/+200°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
15	ADA20	274402015100	15	ASR40	274402016101
20	ADA20	274403015100	20	ASR40	274403016101
25	ADA20	274404015100	25	ASR80	274404016102
32	ADA40	274405015101	32	ASR80	274405016102
40	ADA40	274406015101	40	ASR80	274406016102
50	ADA80	274407015102	50	ASR200	274407016104
65	ADA130	274408015103	65	ASR300	274408016105
80	ADA130	274409015103	80	ASR300	274409016105
100	ADA200	274410015104	100	ASR500	274410016106
125	ADA300	274411015105	125	ASR850	274411016107
150	ADA500	274412015106	150	ASR850	274412016107

768 - Split-body carbon steel flanged ball valve

CF8M body & ball - TFM™ 1600 PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF ANSI 300 - PS: 50 bar - TS: -29°C/+200°C.

NPS	double acting		NPS	spring return	
	actuator	code		actuator	code
1/2"	ADA20	274342015100	1/2"	ASR40	274342016101
3/4"	ADA40	274343015101	3/4"	ASR80	274343016102
1"	ADA40	274344015101	1"	ASR80	274344016102
1"1/2	ADA40	274346015101	1"1/2	ASR130	274346016103
2"	ADA130	274347015103	2"	ASR200	274347016104
3"	ADA300	274349015105	3"	ASR500	274349016106
4"	ADA300	274350015105	4"	ASR850	274350016107
6"	ADA850	274352015107	6"	ASR1200	274352016108

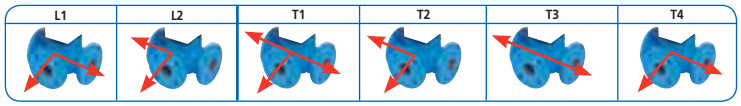
769 - Split-body stainless steel flanged ball valve

CF8M body & ball - TFM™ 1600 PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF ANSI 300 - PS: 50 bar - TS: -50°C/+250°C.

NPS	double acting		NPS	spring return	
	actuator	code		actuator	code
1/2"	ADA20	274442015100	1/2"	ASR40	274442016101
3/4"	ADA40	274443015101	3/4"	ASR80	274443016102
1"	ADA40	274444015101	1"	ASR80	274444016102
1"1/2	ADA40	274446015101	1"1/2	ASR130	274446016103
2"	ADA130	274447015103	2"	ASR200	274447016104
3"	ADA300	274449015105	3"	ASR500	274449016106
4"	ADA300	274450015105	4"	ASR850	274450016107
6"	ADA850	274452015107	6"	ASR1200	274452016108

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

ISO 9001



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

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

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

CW617N body & ball - PTFE seats - Stem tightness: FKM - Reduced bore - PS: 16 bar - TS: -10°C/+100°C.

CE 1115

Ø	double acting actuator	double acting 513 L code	Ø	spring return actuator	spring return 513 L code
1/4"	ADA20	275010015100	1/4"	ASR20	275010016100
3/8"	ADA20	275011015100	3/8"	ASR20	275011016100
1/2"	ADA20	275012015100	1/2"	ASR20	275012016100
3/4"	ADA20	275013015100	3/4"	ASR40	275013016101
1"	ADA20	275014015100	1"	ASR80	275014016102
1"1/4	ADA40	275015015101	1"1/4	ASR130	275015016103
1"1/2	ADA40	275016015101	1"1/2	ASR200	275016016104
2"	ADA80	275017015102	2"	ASR200	275017016104

	780 XS L	781 XS T
code	27540...	27542...

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

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

CE 0035 | 3.1 10 €/DN | Ex 10 €/pc

Ø	double acting actuator	double acting 780 XS L code	Ø	spring return actuator	spring return 780 XS L code
1/4"	ADA20	275400015100	1/4"	ASR40	275400016101
3/8"	ADA20	275401015100	3/8"	ASR40	275401016101
1/2"	ADA20	275402015100	1/2"	ASR40	275402016101
3/4"	ADA40	275403015101	3/4"	ASR80	275403016102
1"	ADA40	275404015101	1"	ASR80	275404016102
1"1/4	ADA80	275405015102	1"1/4	ASR130	275405016103
1"1/2	ADA80	275406015102	1"1/2	ASR200	275406016104
2"	ADA130	275407015103	2"	ASR300	275407016105

	783 L	784 T
code	27567...	27568...
code	27568...	27569...

783 L-port / 784 T-port - 3 way carbon steel flanged ball valve

A216WCB body - CF8M ball - PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN16 - PS: 16 bar - TS: -20°C/+150°C.

CE 0035 | 3.1 10 €/DN | Ex 10 €/pc

DN	double acting actuator	double acting 783 L code	DN	spring return actuator	spring return 783 L code
25	ADA40	275674015101	25	ASR80	275674016102
32	ADA40	275675015101	32	ASR80	275675016102
40	ADA80	275676015102	40	ASR130	275676016103
50	ADA200	275677015104	50	ASR500	275677016106
65	ADA300	275678015105	65	ASR850	275678016107
80	ADA300	275679015105	80	ASR850	275679016107
100	ADA500	275680015106	100	ASR1200	275680016108
125	ADA1200	275681015108	125	ASR2100	275681016110
150	ADA1750	275682015109	150	ASR2500	275682016111

	785 L	786 T
code	27537...	27538...
code	27538...	27539...

785 L-port / 786 T-port - 3 way stainless steel flanged ball valve

CF8M body & ball - PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN16 - PS: 16 bar - TS: -30°C/+ 150°C.

CE 0035 | 3.1 10 €/DN | Ex 10 €/pc

DN	double acting actuator	double acting 785 L code	DN	spring return actuator	spring return 785 L code
25	ADA40	275374015101	25	ASR80	275374016102
32	ADA40	275375015101	32	ASR80	275375016102
40	ADA80	275376015102	40	ASR130	275376016103
50	ADA200	275377015104	50	ASR500	275377016106
65	ADA300	275378015105	65	ASR850	275378016107
80	ADA300	275379015105	80	ASR850	275379016107
100	ADA500	275380015106	100	ASR1200	275380016108
125	ADA1200	275381015108	125	ASR2100	275381016110
150	ADA1750	275382015109	150	ASR2500	275382016111

Pneumatic actuated butterfly valves with Actreg actuators

All our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

CE 0035 | ISO 9001 | 3.1 10 €/DN

1125 - Cast iron butterfly valve

GG25 body - Nickel plated GGG40 disc - **EPDM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+110°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	ADA20	262003015100	32-40	ASR40	262003016101
50	ADA20	262004015100	50	ASR40	262004016101
65	ADA40	262005015101	65	ASR80	262005016102
80	ADA40	262006015101	80	ASR80	262006016102
100	ADA80	262007015102	100	ASR130	262007016103
125	ADA80	262008015102	125	ASR200	262008016104
150	ADA130	262009015103	150	ASR300	262009016105
200	ADA200	262010015104	200	ASR500	262010016106
250	ADA300	262011015105	250	ASR500	262011016106
300	ADA500	262012015106	300	ASR850	262012016107

Other diameters on request

1123 - Cast iron butterfly valve

GG25 body - CF8M disc - **EPDM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+110°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	ADA20	262103015100	32-40	ASR40	262103016101
50	ADA20	262104015100	50	ASR40	262104016101
65	ADA40	262105015101	65	ASR80	262105016102
80	ADA40	262106015101	80	ASR80	262106016102
100	ADA80	262107015102	100	ASR130	262107016103
125	ADA80	262108015102	125	ASR200	262108016104
150	ADA130	262109015103	150	ASR300	262109016105
200	ADA200	262110015104	200	ASR500	262110016106
250	ADA300	262111015105	250	ASR500	262111016106
300	ADA500	262112015106	300	ASR850	262112016107

Other diameters on request

1121 - Cast iron butterfly valve

GG25 body - CF8M disc - **NBR seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+90°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	ADA20	262203015100	32-40	ASR40	262203016101
50	ADA20	262204015100	50	ASR40	262204016101
65	ADA40	262205015101	65	ASR80	262205016102
80	ADA40	262206015101	80	ASR80	262206016102
100	ADA80	262207015102	100	ASR130	262207016103
125	ADA80	262208015102	125	ASR200	262208016104
150	ADA130	262209015103	150	ASR300	262209016105
200	ADA200	262210015104	200	ASR500	262210016106
250	ADA300	262211015105	250	ASR500	262211016106
300	ADA500	262212015106	300	ASR850	262212016107

Please consult for the following executions:

1170 - Ductile iron butterfly valve

GGG40 body - Epoxy coated GGG40 disc - **EPDM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+110°C.

1173 - Ductile iron butterfly valve

GGG40 body - CF8M disc - **HT EPDM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+130°C.

1174 - Ductile iron butterfly valve

GGG40 body - Aluminium bronze disc - **NBR seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+90°C.

1175 - Ductile iron butterfly valve

GGG40 body - Epoxy coated GGG40 disc - **EPDM seat** - Lug type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+110°C.

1176 - Ductile iron butterfly valve

GGG40 body - CF8M disc - **HT EPDM seat** - Lug type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+130°C.

All our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

1150 - Ductile iron butterfly valve

GGG50 body - GGG50 disc (CF8M disc up to DN100) - **EPDM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar up to DN200, 10 bar above - TS: -5°C/+110°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	ADA20	260303015100	32-40	ASR40	260303016101
50	ADA20	260304015100	50	ASR40	260304016101
65	ADA40	260305015101	65	ASR80	260305016102
80	ADA40	260306015101	80	ASR80	260306016102
100	ADA80	260307015102	100	ASR130	260307016103
125	ADA80	260308015102	125	ASR200	260308016104
150	ADA130	260309015103	150	ASR300	260309016105
200	ADA200	260310015104	200	ASR500	260310016106
250	ADA300	260311015105	250	ASR500	260311016106
300	ADA500	260312015106	300	ASR850	260312016107
350	ADA850	260313015107	350	ASR1200	260313016108
400	ADA1200	260314015108	400	ASR2500	260314016111

1153 - Ductile iron butterfly valve

GGG50 body - CF8M disc - **EPDM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar up to DN200, 10 bar above - TS: -10°C/+110°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	ADA20	260363015100	32-40	ASR40	260363016101
50	ADA20	260364015100	50	ASR40	260364016101
65	ADA40	260365015101	65	ASR80	260365016102
80	ADA40	260366015101	80	ASR80	260366016102
100	ADA80	260367015102	100	ASR130	260367016103
125	ADA80	260368015102	125	ASR200	260368016104
150	ADA130	260369015103	150	ASR300	260369016105
200	ADA200	260370015104	200	ASR500	260370016106
250	ADA300	260371015105	250	ASR500	260371016106
300	ADA500	260372015106	300	ASR850	260372016107
350	ADA850	260373015107	350	ASR1200	260373016108
400	ADA1200	260374015108	400	ASR2500	260374016111

1152 - Ductile iron butterfly valve

GGG50 body - GGG50 disc (CF8M disc up to DN100) - **NBR seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar up to DN200, 10 bar above - TS: -10°C/+90°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	ADA20	260333015100	32-40	ASR40	260333016101
50	ADA20	260334015100	50	ASR40	260334016101
65	ADA40	260335015101	65	ASR80	260335016102
80	ADA40	260336015101	80	ASR80	260336016102
100	ADA80	260337015102	100	ASR130	260337016103
125	ADA80	260338015102	125	ASR200	260338016104
150	ADA130	260339015103	150	ASR300	260339016105
200	ADA200	260340015104	200	ASR500	260340016106
250	ADA300	260341015105	250	ASR500	260341016106

1151 - Ductile iron butterfly valve

GGG50 body - CF8M disc - **NBR seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+90°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	ADA20	260440015100	32-40	ASR40	260440016101
50	ADA20	260441015100	50	ASR40	260441016101
65	ADA40	260442015101	65	ASR80	260442016102
80	ADA40	260443015101	80	ASR80	260443016102
100	ADA80	260444015102	100	ASR130	260444016103
125	ADA80	260445015102	125	ASR200	260445016104
150	ADA130	260446015103	150	ASR300	260446016105
200	ADA200	260447015104	200	ASR500	260447016106

All our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

1147 - Ductile iron butterfly valve

GGG50 body - GGG50 disc (CF8M disc up to DN100) - **Carboxylated NBR seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+90°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	ADA20	260563015100	32-40	ASR40	260563016101
50	ADA20	260564015100	50	ASR40	260564016101
65	ADA40	260565015101	65	ASR80	260565016102
80	ADA40	260566015101	80	ASR80	260566016102
100	ADA80	260567015102	100	ASR130	260567016103
125	ADA80	260568015102	125	ASR200	260568016104
150	ADA130	260569015103	150	ASR300	260569016105
200	ADA200	260570015104	200	ASR500	260570016106

1154 - Ductile iron butterfly valve

GGG50 body - CF8M disc - **FKM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -5°C/+150°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	ADA20	260393015100	32-40	ASR40	260393016101
50	ADA20	260394015100	50	ASR40	260394016101
65	ADA40	260395015101	65	ASR80	260395016102
80	ADA40	260396015101	80	ASR80	260396016102
100	ADA80	260397015102	100	ASR130	260397016103
125	ADA80	260398015102	125	ASR200	260398016104
150	ADA130	260399015103	150	ASR300	260399016105
200	ADA200	260400015104	200	ASR500	260400016106
250	ADA300	260401015105	250	ASR500	260401016106
300	ADA500	260402015106	300	ASR850	260402016107

1157 - Ductile iron butterfly valve

GGG50 body - CF8M disc - **Silicone seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -15°C/+150°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	ADA20	260483015100	32-40	ASR40	260483016101
50	ADA20	260484015100	50	ASR40	260484016101
65	ADA40	260485015101	65	ASR80	260485016102
80	ADA40	260486015101	80	ASR80	260486016102
100	ADA80	260487015102	100	ASR130	260487016103
125	ADA80	260488015102	125	ASR200	260488016104
150	ADA130	260489015103	150	ASR300	260489016105
200	ADA200	260490015104	200	ASR500	260490016106

1183 - Ductile iron butterfly valve

GGG50 body - Polished CF8M disc - **Alimentary silicone seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -15°C/+150°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
50	ADA20	260495015100	50	ASR40	260495016101
65	ADA40	260496015101	65	ASR80	260496016102
80	ADA40	260497015101	80	ASR80	260497016102
100	ADA80	260498015102	100	ASR130	260498016103
125	ADA80	260499015102	125	ASR200	260499016104
150	ADA130	260500015103	150	ASR300	260500016105
200	ADA200	260501015104	200	ASR500	260501016106
250	ADA300	260502015105	250	ASR500	260502016106
300	ADA500	260503015106	300	ASR850	260503016107

All our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

1141 - Ductile iron butterfly valve for gas service

GGG50 body - GGG50 disc (CF8M disc up to DN100) - **NBR seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -20°C/+60°C - Class MOP5 - Certificate NF ROB GAZ 064-R3 up to 5 bar.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	ADA20	260593015100	32-40	ASR40	260593016101
50	ADA20	260594015100	50	ASR40	260594016101
65	ADA40	260595015101	65	ASR80	260595016102
80	ADA40	260596015101	80	ASR80	260596016102
100	ADA80	260597015102	100	ASR130	260597016103
125	ADA80	260598015102	125	ASR200	260598016104
150	ADA130	260599015103	150	ASR300	260599016105
200	ADA200	260600015104	200	ASR500	260600016106

1145 - Ductile iron butterfly valve

GGG50 body - CF8M disc - **Teflon® seat with silicone liner** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -15°C/+200°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
50	ADA40	260545015101	50	ASR130	260545016103
65	ADA80	260546015102	65	ASR130	260546016103
80	ADA80	260547015102	80	ASR200	260547016104
100	ADA130	260548015103	100	ASR300	260548016105
125	ADA200	260549015104	125	ASR500	260549016106
150	ADA300	260550015105	150	ASR500	260550016106
200	ADA300	260551015105	200	ASR850	260551016107
250	ADA850	260552015107	250	ASR1200	260552016108
300	ADA850	260553015107	300	ASR2100	260553016110

1155 - Ductile iron butterfly valve

GGG50 body - CF8M + PTFE disc - **Teflon® seat with silicone liner** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -15°C/+200°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
50	ADA40	260424015101	50	ASR130	260424016103
65	ADA80	260425015102	65	ASR130	260425016103
80	ADA80	260426015102	80	ASR200	260426016104
100	ADA130	260427015103	100	ASR300	260427016105
125	ADA200	260428015104	125	ASR500	260428016106
150	ADA300	260429015105	150	ASR500	260429016106
200	ADA300	260430015105	200	ASR850	260430016107

1111 - Carbon steel butterfly valve metal-metal

A216WCB body - GGG50 disc (CF8M disc up to DN100) - **Metal seat** - Wafer type PN10/16 & ANSI 150 - Incomplete tightness: loss factor 2% of Kvs - PS: 16 bar - TS: +350°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	ADA20	263003015100	32-40	ASR40	263003016101
50	ADA20	263004015100	50	ASR40	263004016101
65	ADA40	263005015101	65	ASR80	263005016102
80	ADA40	263006015101	80	ASR80	263006016102
100	ADA80	263007015102	100	ASR130	263007016103
125	ADA80	263008015102	125	ASR200	263008016104
150	ADA130	263009015103	150	ASR300	263009016105
200	ADA200	263010015104	200	ASR500	263010016106

All our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

ISO 9001 | 3.1 10 €/DN

1135 - Cast iron butterfly valve lug type

GG25 body - Nickel plated GGG40 disc - **EPDM seat** - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above - TS: -10°C/+110°C.

CE 0035

DN	double acting	
	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

DN	spring return	
	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

⚠ PN16 execution on request above DN150

Other diameters on request

1133 - Cast iron butterfly valve

GG25 body - CF8M disc - **EPDM seat** - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above - TS: -10°C/+110°C.

CE 0035

DN	double acting	
	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

DN	spring return	
	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

⚠ PN16 execution on request above DN150

Other diameters on request

1160 - Ductile iron butterfly valve

GGG50 body - GGG50 disc (CF8M disc up to DN100) - **EPDM seat** - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above - TS: -10°C/+110°C.

CE 0038

DN	double acting	
	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

DN	spring return	
	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

1163 - Ductile iron butterfly valve

GGG50 body - CF8M - **EPDM seat** - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above - TS: -10°C/+110°C.

CE 0038

DN	double acting	
	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

DN	spring return	
	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

All our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 20 bar.**

FIRE SAFE | CE 0036 | ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

1113 - Carbon steel double offset butterfly valve

A216WCB body - CF8M disc - Stainless steel F316 stem - PTFE-graphite seat & gland pack - Wafer type PN25 - Fire safe API 607 - Unidirectional use - PS: 25 bar - TS: -10°C/+210°C.

DN	double acting	
	actuator	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

DN	spring return	
	actuator	code
50	ASR80	260950016102
65	ASR80	260951016102
80	ASR130	260952016103
100	ASR200	260953016104
125	ASR300	260954016105
150	ASR500	260955016106
200	ASR500	260956016106

1114 - Stainless steel double offset butterfly valve

Same as 1113 above, except: CF8M body & disc.

DN	double acting	
	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

DN	spring return	
	actuator	code
50	ASR80	260970016102
65	ASR80	260971016102
80	ASR130	260972016103
100	ASR200	260973016104
125	ASR300	260974016105
150	ASR500	260975016106
200	ASR500	260976016106

1115 - Carbon steel double offset butterfly valve

A216WCB body - CF8M disc - Stainless steel F316 stem - PTFE-graphite seat & gland pack - Wafer type ANSI 150 - Fire safe API 607 - Unidirectional use - PS: 20 bar - TS: -10°C/+210°C.

NPS	double acting	
	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

NPS	spring return	
	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

1116 - Stainless steel double offset butterfly valve

Same as 1115 above, except: CF8M body & disc.

NPS	double acting	
	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

NPS	spring return	
	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

Pneumatic actuated ball valves with Alphair actuators

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar -
Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

ISO 9001

502 - Brass ball valve BSP

Direct mounting W617N body & ball - PTFE seats - Stem tightness: NBR - Full bore - PS: 16 bar - TS: -10°C/+100°C.

ACS Drinking water - CE 1115

Ø	double acting actuator	double acting code	Ø	spring return actuator	spring return code
1/4"	AP42	270090017004*	1/4"	APS42	270090017104*
3/8"	AP42	270091017004*	3/8"	APS42	270091017104*
1/2"	AP42	270002017004	1/2"	APS42	270002017104
3/4"	AP42	270003017004	3/4"	APS50	270003017106
1"	AP42	270004017004	1"	APS63	270004017107
1"1/4	AP50	270005017006	1"1/4	APS75	270005017108
1"1/2	AP63	270006017007	1"1/2	APS85	270006017109
2"	AP75	270007017008	2"	APS100	270007017110
2"1/2	AP75	270038017008	2"1/2	APS100	270038017110
3"	AP85	270039017009	3"	APS115	270039017111
4"	AP100	270040017010	4"	APS115	270040017111

** no ACS certification.*

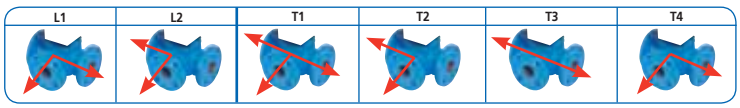
513 L-port / 514 T-port - 3 way brass ball valve BSP

Direct mounting W617N body - CW614N ball - PTFE seats - Stem tightness: FKM - Reduced bore - PS: 16 bar - TS: -10°C/+100°C.

ACS Drinking water - CE 1115

Ø	double acting actuator	double acting 513 L code	Ø	spring return actuator	spring return 513 L code
1/4"	AP42	275010017004	1/4"	APS50	275010017106
3/8"	AP42	275011017004	3/8"	APS50	275011017106
1/2"	AP42	275012017004	1/2"	APS50	275012017106
3/4"	AP50	275013017006	3/4"	APS63	275013017107
1"	AP50	275014017006	1"	APS75	275014017108
1"1/4	AP63	275015017007	1"1/4	APS75	275015017108
1"1/2	AP63	275016017007	1"1/2	APS75	275016017108
2"	AP63	275017017007	2"	APS75	275017017108

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



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

507 - Cast iron flanged ball valve

GG25 body - Stainless steel ball - PTFE seats - Stem tightness: FKM - Full bore -
Flanged RF PN10/16 - DIN 3202 F4/F5 - PS: 16 bar - TS: -10°C/+200°C.

CE

DN	double acting actuator	double acting code	DN	spring return actuator	spring return code
15	AP50	270222017006	15	APS63	270222017107
20	AP50	270223017006	20	APS63	270223017107
25	AP50	270224017006	25	APS75	270224017108
32	AP50	270225017006	32	APS75	270224017108
40	AP75	270226017008	40	APS85	270226017109
50	AP75	270227017008	50	APS100	270227017110
65	AP75	270228017008	65	APS100	270228017110
80	AP85	270229017009	80	APS115	270229017111
100	AP100	270230017010	100	APS145	270230017113
125	AP115	270231017011	125	APS160	270231017114
150	AP125	270232017012	150	APS180	270232017115
200	AP160	270233017014			

505 - Cast iron flanged ball valve

GG25 body - Stainless steel ball - PTFE seats - Stem tightness: FKM - Full bore -
Flanged RF PN10/16 - NF 29323 - PS: 16 bar - TS: -10°C/+200°C.

CE

DN	double acting actuator	double acting code	DN	spring return actuator	spring return code
40	AP75	270206017008	40	APS85	270206017109
50	AP75	270207017008	50	APS100	270207017110
65	AP75	270208017008	65	APS100	270208017110
80	AP85	270209017009	80	APS115	270209017111
100	AP100	270210017010	100	APS145	270210017113
125	AP115	270211017011	125	APS160	270211017114
150	AP125	270212017012	150	APS180	270212017115

NEW

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar -
Please consult for any other air supply pressure - ⚠ **Max. ΔP: 100 bar.**

ISO 9001 | Ex 10 €/pc

799 ZA - 1 piece carbon steel ball valve BSP

1.0715 body & ball - POM seats - Stem tightness: FKM - Full bore - PS: see charts - TS: -20°C/+100°C.

Ø	PS (bar)	double acting actuator	double acting code
3/8"	500	AP63	273201017007
1/2"	500	AP63	273202017007
3/4"	420	AP75	273203017008
1"	315	AP75	273204017008

Ø	PS (bar)	spring return actuator	spring return code
3/8"	500	APS75	273201017108
1/2"	500	APS85	273202017109
3/4"	420	APS100	273203017110
1"	315	APS100	273204017110

799 ZI - 1 piece stainless steel ball valve BSP

F316 body & ball - POM seats - Stem tightness: FKM - Full bore - PS: see charts - TS: -20°C/+100°C.

Ø	PS (bar)	double acting actuator	double acting code
3/8"	500	AP63	273221017007
1/2"	500	AP63	273222017007
3/4"	420	AP75	273223017008
1"	315	AP75	273224017008

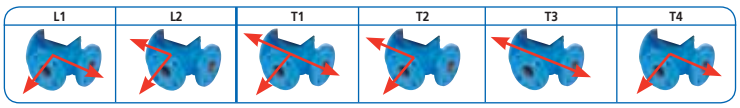
Ø	PS (bar)	spring return actuator	spring return code
3/8"	500	APS75	273221017108
1/2"	500	APS85	273222017109
3/4"	420	APS100	273223017110
1"	315	APS100	273224017110

721 ZA L-port - 3 way carbon steel ball valve BSP

1.0715 body & ball - POM seats - Stem tightness: FKM - PS: 500 bar up to 1/2", 315 bar above - TS: -20°C/+100°C.

Ø	double acting actuator	double acting code
3/8"	AP63	275301017007
1/2"	AP63	275302017007
3/4"	AP75	275303017008
1"	AP75	275304017008

Ø	spring return actuator	spring return code
3/8"	APS75	275301017108
1/2"	APS85	275302017109
3/4"	APS100	275303017110
1"	APS100	275304017110



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

NEW

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar -
Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

ISO 9001 | Ex 10 €/pc

715 XS - 2 piece stainless steel ball valve BSP

Direct mounting - CF8M body & ball - PTFE seats - Stem tightness: PTFE/FKM - Full bore -
PS: 63 bar - TS: -10°C/+180°C.

TA LUFT | CE 0035

Ø	double acting actuator	double acting code
1/2"	AP42	272402017004
3/4"	AP42	272403017004
1"	AP42	272404017004
1"1/4	AP50	272405017006
1"1/2	AP63	272406017007
2"	AP75	272407017008
2"1/2	AP75	272408017008
3"	AP85	272409017009

Ø	spring return actuator	spring return code
1/2"	APS42	272402017104
3/4"	APS50	272403017106
1"	APS63	272404017107
1"1/4	APS75	272405017108
1"1/2	APS85	272406017109
2"	APS100	272407017110
2"1/2	APS100	272408017110
3"	APS115	272409017111

523 ISO - 3 piece stainless steel ball valve with ISO welding ends

Direct mounting - Full 316L parts - Miror polishing - PTFE seats - Stem tightness: PTFE - PS: see charts -
TS: -20°C/+160°C - SMS threaded execution on request.

FDA | CE

DN	PS (bar)	double acting actuator	double acting code
15	64	AP42	273412017004
20	40	AP50	273413017006
25	40	AP63	273414017007
32	25	AP63	273415017007
40	25	AP75	273416017008
50	25	AP75	273417017008

DN	PS (bar)	spring return actuator	spring return code
15	64	APS50	273412017106
20	40	APS63	273413017107
25	40	APS75	273414017108
32	25	APS75	273415017108
40	25	APS85	273416017109
50	25	APS100	273417017110

NEW

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

TA LUFT | CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

also available	736 XS	734 XS	735 XS
	BSP	BW	SW
code	27146...	27148...	27150...

736 XS - 3 piece carbon steel ball valve BSP

A216WCB body - CF8M ball - RTFE seats - Stem tightness: PTFE/FKM - Full bore - PS: 63 bar - TS: -25°C/+180°C.

Ø	double acting		Ø	spring return	
	actuator	code		actuator	code
1/2"	AP42	271462017004	1/2"	APS42	271462017104
3/4"	AP42	271463017004	3/4"	APS50	271463017106
1"	AP42	271464017004	1"	APS63	271464017107
1"1/4	AP50	271465017006	1"1/4	APS75	271465017108
1"1/2	AP63	271466017007	1"1/2	APS85	271466017109
2"	AP75	271467017008	2"	APS100	271467017110
2"1/2	AP75	271468017008	2"1/2	APS100	271468017110
3"	AP85	271469017009	3"	APS115	271469017111
4"	AP100	271470017010	4"	APS115	271470017111

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

746 XS - 3 piece stainless steel ball valve BSP

CF8M body & ball - RTFE seats - Stem tightness: PTFE/FKM - Full bore - PS: 63 bar -TS: -40°C/+180°C.

Ø	double acting		Ø	spring return	
	actuator	code		actuator	code
1/4"	AP42	272500017004	1/4"	APS42	272500017104
3/8"	AP42	272501017004	3/8"	APS42	272501017104
1/2"	AP42	272642017004	1/2"	APS42	272642017104
3/4"	AP42	272643017004	3/4"	APS50	272643017106
1"	AP42	272644017004	1"	APS63	272644017107
1"1/4	AP50	272645017006	1"1/4	APS75	272645017108
1"1/2	AP63	272646017007	1"1/2	APS85	272646017109
2"	AP75	272647017008	2"	APS100	272647017110
2"1/2	AP75	272648017008	2"1/2	APS100	272648017110
3"	AP85	272649017009	3"	APS115	272649017111
4"	AP100	272650017010	4"	APS115	272650017111

STEAM

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

737 XS - 3 piece carbon steel ball valve BSP

FIRE SAFE

A216WCB body - CF8M ball - PTFE-stainless steel seats - Stem tightness: PTFE-stainless steel - Full bore - PS: 63 bar - TS: -25°C/+220°C - ⚠ **Steam use**: PS: 15 bar / TS: +200°C.

Ø	double acting		Ø	spring return	
	actuator	code		actuator	code
1/2"	AP50	271202017006	1/2"	APS50	271202017106
3/4"	AP50	271203017006	3/4"	APS63	271203017107
1"	AP50	271204017006	1"	APS63	271204017107
1"1/4	AP50	271205017006	1"1/4	APS75	271205017108
1"1/2	AP63	271206017007	1"1/2	APS85	271206017109
2"	AP75	271207017008	2"	APS100	271207017110

STEAM

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

747 XS - 3 piece stainless steel ball valve BSP

FIRE SAFE

CF8M body & ball - PTFE-stainless steel seats - Stem tightness: PTFE-stainless steel - Full bore - PS: 63 bar - TS: -40°C/+220°C - ⚠ **Steam use**: PS: 15 bar / TS: +200°C.

Ø	double acting		Ø	spring return	
	actuator	code		actuator	code
1/2"	AP50	272702017006	1/2"	APS50	272702017106
3/4"	AP50	272703017006	3/4"	APS63	272703017107
1"	AP50	272704017006	1"	APS63	272704017107
1"1/4	AP50	272705017006	1"1/4	APS75	272705017108
1"1/2	AP63	272706017007	1"1/2	APS85	272706017109
2"	AP75	272707017008	2"	APS100	272707017110

NEW

OIL & GAS

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

OIL & GAS

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

HIGH PRESSURE

HIGH TEMPERATURE

HIGH PRESSURE

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

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

FIRE SAFE | ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

702 - 3 piece carbon steel ball valve BSP

CE 0038

A216WCB body - CF8M ball - PTFE + 25% carbon steel seats - Full bore - Antistatic device - PS: 100 bar - TS: -20°C/+220°C - Other ΔP on request.

Ø	double acting actuator	double acting code	Ø	spring return actuator	spring return code
1/4"	AP50	271540017006	1/4"	APS50	271540017106
3/8"	AP50	271541017006	3/8"	APS50	271541017106
1/2"	AP50	271542017006	1/2"	APS63	271542017107
3/4"	AP50	271543017006	3/4"	APS63	271543017107
1"	AP50	271544017006	1"	APS75	271544017108
1"1/4	AP63	271545017007	1"1/4	APS75	271545017108
1"1/2	AP63	271546017007	1"1/2	APS85	271546017109
2"	AP75	271547017008	2"	APS100	271547017110

703 - 3 piece stainless steel ball valve BSP

CE 0038

CF8M body & ball - PTFE + 25% carbon steel seats - Full bore - Antistatic device - PS: 100 bar - TS: -30°C/+220°C - Other ΔP on request.

Ø	double acting actuator	double acting code	Ø	spring return actuator	spring return code
1/4"	AP50	272240017006	1/4"	APS50	272240017106
3/8"	AP50	272241017006	3/8"	APS50	272241017106
1/2"	AP50	272242017006	1/2"	APS63	272242017107
3/4"	AP50	272243017006	3/4"	APS63	272243017107
1"	AP50	272244017006	1"	APS75	272244017108
1"1/4	AP63	272245017007	1"1/4	APS75	272245017108
1"1/2	AP63	272246017007	1"1/2	APS85	272246017109
2"	AP75	272247017008	2"	APS100	272247017110

702 XS-F - 3 piece carbon steel ball valve SW

CE 0035

Direct mounting - A216WCB body - CF8M ball - PTFE seats - Body & stem tightness: PTFE + graphite - Full bore - Antistatic device - PS: 137 bar - TS: -20°C/+220°C - ⚠ **Max. ΔP: 20 bar.**

Ø	double acting actuator	double acting code	Ø	spring return actuator	spring return code
1/2"	AP50	271342017006	1/2"	APS50	271342017106
3/4"	AP50	271343017006	3/4"	APS50	271343017106
1"	AP50	271344017006	1"	APS63	271344017107
1"1/4	AP63	271345017007	1"1/4	APS85	271345017109
1"1/2	AP75	271346017008	1"1/2	APS85	271346017109
2"	AP85	271347017009	2"	APS100	271347017110

702 XS-P - 3 piece carbon steel ball valve SW

CE 0035

Same features or 702 XS-F except: body & stem tightness: PEEK + graphite - TS: -10°C/+250°C.

Ø	double acting actuator	double acting code	Ø	spring return actuator	spring return code
1/2"	AP50	271362017006	1/2"	APS75	271362017108
3/4"	AP63	271363017007	3/4"	APS75	271363017108
1"	AP85	271364017009	1"	APS100	271364017110
1"1/4	AP85	271365017009	1"1/4	APS100	271365017110
1"1/2	AP100	271366017010	1"1/2	APS115	271366017111
2"	AP125	271367017012	2"	APS145	271367017113

703 XS - 3 piece carbon steel ball valve BSP

CE 0035

Direct mounting - CF8M body & ball - PTFE seats - Body & stem tightness: PEEK + graphite - Full bore - Antistatic device - PS: 137 bar - TS: -20°C/+220°C - ⚠ **Max. ΔP: 20 bar.**

Ø	double acting actuator	double acting code	Ø	spring return actuator	spring return code
1/2"	AP50	271372017006	1/2"	APS50	271372017106
3/4"	AP50	271373017006	3/4"	APS50	271373017106
1"	AP50	271374017006	1"	APS63	271374017107
1"1/4	AP63	271375017007	1"1/4	APS85	271375017109
1"1/2	AP75	271376017008	1"1/2	APS85	271376017109
2"	AP85	271377017009	2"	APS100	271377017110

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

NEW

710 XS - 3 piece carbon steel flanged ball valve

Direct mounting - A216WCB body - CF8M ball - PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN40 - DIN 3202 F1 - PS: 40 bar - TS: -20°C/+200°C.

TA LUFT | FIRE SAFE | CE 0035

DN	double acting		DN	spring return	
	actuator	code		actuator	code
15	AP50	271312017006X	15	APS50	271312017106X
20	AP50	271313017006X	20	APS63	271313017107X
25	AP50	271314017006X	25	APS63	271314017107X
32	AP50	271315017006X	32	APS75	271315017108X
40	AP63	271316017007X	40	APS85	271316017109X
50	AP75	271317017008X	50	APS100	271317017110X
65	AP75	271318017008X	65	APS100	271318017110X
80	AP85	271319017009X	80	APS115	271319017111X
100	AP100	271320017010X	100	APS115	271320017111X

STEAM

765 XS - 3 piece carbon steel flanged ball valve

A216WCB body - CF8M ball - PTFE-stainless steel seats - Body & stem tightness: PTFE-graphite - Full bore - Flanged RF PN40 - DIN 3202 F1 - PS: 40 bar - TS: -25°C/+220°C -

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

TA LUFT | FIRE SAFE | CE 0035

DN	double acting		DN	spring return	
	actuator	code		actuator	code
15	AP50	271322017006	15	APS50	271322017106
20	AP50	271323017006	20	APS50	271323017106
25	AP50	271324017006	25	APS63	271324017107
32	AP50	271325017006	32	APS75	271325017108
40	AP63	271326017007	40	APS85	271326017109
50	AP75	271327017008	50	APS100	271327017110
65	AP75	271328017008	65	APS100	271328017110
80	AP85	271329017009	80	APS115	271329017111
100	AP100	271330017010	100	APS125	271330017112

7034 - 3 piece flanged stainless steel ball valve

CF8M body & ball - PTFE + 25% carbon seats - Stem tightness: PTFE - Full bore - Flanged RF PN40 - DIN 3202 F1 - PS: 40 bar - TS: -30°C/+218°C.

FIRE SAFE | CE 0038

DN	double acting		DN	spring return	
	actuator	code		actuator	code
15	AP50	272232017006	15	APS63	272232017107
20	AP50	272233017006	20	APS63	272233017107
25	AP50	272234017006	25	APS75	272234017108
32	AP63	272235017007	32	APS75	272235017108
40	AP63	272236017007	40	APS85	272236017109
50	AP75	272237017008	50	APS100	272237017110

711 XS - 3 piece flanged stainless steel ball valve

CF8M body & ball - PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN40 - DIN 3202 F1 - PS: 40 bar - TS: -20°C/+200°C.

TA LUFT | FIRE SAFE | CE 0035

DN	double acting		DN	spring return	
	actuator	code		actuator	code
65	ADA80	272108017008	65	ASR200	272108017110
80	ADA130	272109017009	80	ASR300	272109017111
100	ADA200	272110017010	100	ASR300	272110017111

771 XS - Stainless steel flanged ball valve wafer type

Direct mounting - CF8M body - F316 ball - PTFE seats - Stem tightness: PTFE - Full bore - Wafer type RF PN16 - PS: 16 bar - TS: -30°C/+180°C.

TA LUFT | CE 0035

DN	double acting		DN	spring return	
	actuator	code		actuator	code
15	AP50	272902017006	15	APS63	272902017107
20	AP50	272903017006	20	APS63*	272903017107
25	AP63	272904017007	25	APS75	272904017108
32	AP63	272905017007	32	APS75	272905017108
40	AP63	272906017007	40	APS85	272906017109
50	AP75	272907017008	50	APS115	272907017111
65	AP85	272908017009	65	APS115	272908017111
80	AP85	272909017009	80	APS125	272909017112
100	AP100	272910017010	100	APS145	272910017113

* not direct mounting.

NEW

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

FIRE SAFE | ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

762 - Split-body carbon steel flanged ball valve

A216WCB body - CF8M ball - RTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN16 - DIN 3202 F4/F5 - PS: 40 bar up to DN50, 16 bar above - TS: -20°C/+200°C.

CE 0035

DN	double acting		DN	spring return	
	actuator	code		actuator	code
15	AP50	274242017006	15	APS63	274242017107
20	AP50	274243017006	20	APS75	274243017108
25	AP50	274244017006	25	APS75	274244017108
32	AP63	274245017007	32	APS85	274245017109
40	AP75	274246017008	40	APS100	274246017110
50	AP75	274247017008	50	APS100	274247017110
65	AP85	274248017009	65	APS115	274248017111
80	AP100	274249017010	80	APS125	274249017112
100	AP115	274250017011	100	APS145	274250017113
125	AP115	274251017011	125	APS160	274251017114
150	AP160	274252017014	150	APS200	274252017116
200	AP180	274253017015*			

** not fire safe.*

763 - Split-body stainless steel flanged ball valve

CF8M body & ball - PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN16 - DIN 3202 F4/F5 - PS: 40 bar up to DN50, 16 bar above - TS: -20°C/+200°C.

CE 0035

DN	double acting		DN	spring return	
	actuator	code		actuator	code
15	AP50	274362017006	15	APS63	274362017107
20	AP50	274363017006	20	APS75	274363017108
25	AP50	274364017006	25	APS75	274364017108
32	AP63	274365017007	32	APS85	274365017109
40	AP75	274366017008	40	APS100	274366017110
50	AP75	274367017008	50	APS100	274367017110
65	AP85	274368017009	65	APS115	274368017111
80	AP100	274369017010	80	APS125	274369017112
100	AP115	274370017011	100	APS145	274370017113
125	AP115	274371017011	125	APS160	274371017114
150	AP160	274372017014	150	APS200	274372017116
200	AP180	274373017015*			

** not fire safe.*

OIL & GAS

756 - Split-body carbon steel flanged ball valve

A216WCB body - CF8M ball - TFM™ 1600 PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF ANSI 150 - PS: 20 bar - TS: -20°C/+200°C.

FUGITIVE EMISSIONS | CE 0062

NPS	double acting		NPS	spring return	
	actuator	code		actuator	code
1/2"	AP50	274322017006	1/2"	APS63	274322017107
3/4"	AP50	274323017006	3/4"	APS75	274323017108
1"	AP50	274324017006	1"	APS75	274324017108
1"1/2	AP75	274326017008	1"1/2	APS85	274326017109
2"	AP75	274327017008	2"	APS115	274327017111
2"1/2	AP85	274328017009	2"1/2	APS115	274328017111
3"	AP85	274329017009	3"	APS115	274329017111
4"	AP100	274330017010	4"	APS145	274330017113
6"	AP125	274332017012	6"	APS180	274332017115

OIL & GAS

757 - Split-body stainless steel flanged ball valve

CF8M body & ball - TFM™ 1600 PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF ANSI 150 - PS: 20 bar - TS: -30°C/+200°C.

FUGITIVE EMISSIONS | CE 0062

NPS	double acting		NPS	spring return	
	actuator	code		actuator	code
1/2"	AP50	274422017006	1/2"	APS63	274422017107
3/4"	AP50	274423017006	3/4"	APS75	274423017108
1"	AP50	274424017006	1"	APS75	274424017108
1"1/2	AP75	274426017008	1"1/2	APS85	274426017109
2"	AP75	274427017008	2"	APS115	274427017111
2"1/2	AP85	274428017009	2"1/2	APS115	274428017111
3"	AP85	274429017009	3"	APS115	274429017111
4"	AP100	274430017010	4"	APS145	274430017113
6"	AP125	274432017012	6"	APS180	274432017115

NEW

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

FUGITIVE EMISSIONS | FIRE SAFE | CE 0062 | ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

752 - Split-body carbon steel flanged ball valve

A216WCB body - CF8M ball - TFM™ 1600 PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN16 - DIN 3202 F4/F5 - PS: 40 bar up to DN50, 16 bar above - TS: -20°C/+200°C.

OIL & GAS

DN	double acting	
	actuator	code
15	AP50	274282017006
20	AP50	274283017006
25	AP50	274284017006
32	AP63	274285017007
40	AP75	274286017008
50	AP75	274287017008
65	AP85	274288017009
80	AP85	274289017009
100	AP100	274290017010
125	AP115	274291017011
150	AP125	274292017012
200	AP240	274293017018

DN	spring return	
	actuator	code
15	APS63	274282017107
20	APS75	274283017108
25	APS75	274284017108
32	APS85	274285017109
40	APS85	274286017109
50	APS115	274287017111
65	APS115	274288017111
80	APS115	274289017111
100	APS145	274290017113
125	APS160	274291017114
150	APS180	274292017115

753 - Split-body stainless steel flanged ball valve

CF8M body & ball - TFM™ 1600 PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN16 - DIN 3202 F4/F5 - PS: 40 bar up to DN50, 16 bar above - TS: -30°C/+200°C.

OIL & GAS

DN	double acting	
	actuator	code
15	AP50	274402017006
20	AP50	274403017006
25	AP50	274404017006
32	AP63	274405017007
40	AP75	274406017008
50	AP75	274407017008
65	AP85	274408017009
80	AP85	274409017009
100	AP100	274410017010
125	AP115	274411017011
150	AP125	274412017012
200	AP240	274413017018

DN	spring return	
	actuator	code
15	APS63	274402017107
20	APS75	274403017108
25	APS75	274404017108
32	APS85	274405017109
40	APS85	274406017109
50	APS115	274407017111
65	APS115	274408017111
80	APS115	274409017111
100	APS145	274410017113
125	APS160	274411017114
150	APS180	274412017115

768 - Split-body carbon steel flanged ball valve

A216 WCB body CF8M ball - TFM™ 1600 PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF ANSI 300 - PS: 50 bar - TS: -29°C/+250°C.

OIL & GAS

NPS	double acting	
	actuator	code
1/2"	AP50	274342017006
3/4"	AP63	274343017007
1"	AP63	274344017007
1"1/2	AP75	274346017008
2"	AP75	274347017008
3"	AP115	274349017011
4"	AP115	274350017011
6"	AP145	274352017013

NPS	spring return	
	actuator	code
1/2"	APS75	274342017108
3/4"	APS75	274343017108
1"	APS85	274344017109
1"1/2	APS100	274346017110
2"	APS115	274347017111
3"	APS145	274349017113
4"	APS160	274350017114
6"	APS240	274352017118

769 - Split-body stainless steel flanged ball valve

CF8M body & ball - TFM™ 1600 PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF ANSI 300 - PS: 50 bar - TS: -50°C/+250°C.

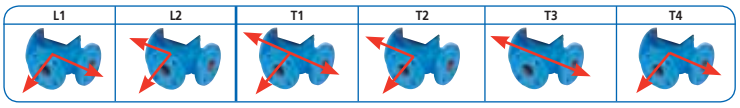
OIL & GAS

NPS	double acting	
	actuator	code
1/2"	AP50	274442017006
3/4"	AP63	274443017007
1"	AP63	274444017007
1"1/2	AP75	274446017008
2"	AP75	274447017008
3"	AP115	274449017011
4"	AP115	274450017011
6"	AP145	274452017013

NPS	spring return	
	actuator	code
1/2"	APS75	274442017108
3/4"	APS75	274443017108
1"	APS85	274444017109
1"1/2	APS100	274446017110
2"	APS115	274447017111
3"	APS145	274449017113
4"	APS160	274450017114
6"	APS240	274452017118

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

ISO 9001



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

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

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

Direct mounting - CW617N body - CW614N ball - PTFE seats - Stem tightness: FKM - Reduced bore - PS: 16 bar - TS: -10°C/+100°C.

CE 1115

Ø	double acting actuator	513 L code	Ø	spring return actuator	513 L code
1/4"	AP42	275010017004	1/4"	APS50	275010017106
3/8"	AP42	275011017004	3/8"	APS50	275011017106
1/2"	AP42	275012017004	1/2"	APS50	275012017106
3/4"	AP50	275013017006	3/4"	APS63	275013017107
1"	AP50	275014017006	1"	APS75	275014017108
1"1/4	AP63	275015017007	1"1/4	APS75	275015017108
1"1/2	AP63	275016017007	1"1/2	APS75	275016017108
2"	AP63	275017017007	2"	APS75	275017017108

	780 XS L	781 XS T
code	27540...	27542...

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

Direct mounting - CF8M body & ball - PTFE seats - Stem tightness: PTFE - Reduced bore - PS: 63 bar - TS: -30°C/+180°C.

CE 0035 | 3.1 | 10 €/DN | Ex | 10 €/pc

Ø	double acting actuator	780 XS L code	Ø	spring return actuator	780 XS L code
1/4"	AP42	275400017004	1/4"	APS42	275400017104
3/8"	AP42	275401017004	3/8"	APS42	275401017104
1/2"	AP42	275402017004	1/2"	APS42	275402017104
3/4"	AP42	275403017004	3/4"	APS63*	275403017107
1"	AP42	275404017004	1"	APS63	275404017107
1"1/4	AP63	275405017007	1"1/4	APS75	275405017108
1"1/2	AP63	275406017007	1"1/2	APS85	275406017109
2"	AP75	275407017008	2"	APS100	275407017110

* not direct mounting.

	783 L	784 T
code	27567...	27568...
code	27568...	27569...

783 L-port / 784 T-port - 3 way carbon steel flanged ball valve

A216WCB body - CF8M ball - PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN16 - PS: 16 bar - TS: -20°C/+150°C.

CE 0035 | 3.1 | 10 €/DN | Ex | 10 €/pc

DN	double acting actuator	783 L code	DN	spring return actuator	783 L code
25	AP63	275674017007	25	APS75	275674017108
32	AP75	275675017008	32	APS85	275675017109
40	AP75	275676017008	40	APS100	275676017110
50	AP85	275677017009	50	APS115	275677017111
65*	AP100	275678017010	65 *	APS125	275678017112
80	AP115	275679017011	80	APS145	275679017113
100	AP125	275680017012	100	APS160	275680017114
125	AP145	275681017013	125	APS180	275681017115
150	AP160	275682017014	150	APS200	275682017116

	785 L	786 T
code	27537...	27538...
code	27538...	27539...

785 L-port / 786 T-port - 3 way stainless steel flanged ball valve

CF8M body & ball - PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN16 - PS: 16 bar - TS: -30°C/+ 150°C.

CE 0035 | 3.1 | 10 €/DN | Ex | 10 €/pc

DN	double acting actuator	785 L code	DN	spring return actuator	785 L code
25	AP63	275374017007	25	APS75	275374017108
32	AP75	275375017008	32	APS85	275375017109
40	AP75	275376017008	40	APS100	275376017110
50	AP85	275377017009	50	APS115	275377017111
65*	AP100	275378017010	65*	APS125	275378017112
80	AP115	275379017011	80	APS145	275379017113
100	AP125	275380017012	100	APS160	275380017114
125	AP145	275381017013	125	APS180	275381017115
150	AP160	275382017014	150	APS200	275382017116

Pneumatic actuated butterfly valves with Alphair actuators

NEW

All our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

CE 0035 | ISO 9001 | 3.1 10 €/DN

1125 - Cast iron butterfly valve

GG25 body - Nickel plated GGG40 disc - **EPDM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+110°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	RE51	262003017006R	32-40	RES64	262003017107R
50	RE51	262004017006R	50	RES64	262004017107R
65	RE64	262005017007R	65	RES76	262005017108R
80	RE64	262006017007R	80	RES76	262006017108R
100	RE76	262007017008R	100	RES101	262007017110R
125	RE76	262008017008R	125	RES101	262008017110R
150	RE86	262009017009R	150	RES116	262009017111R
200	RE101	262010017010R	200	RES126	262010017112R
250	RE116	262011017011R	250	RES146	262011017113R
300	RE126	262012017012R	300	RES181	262012017115R

1123 - Cast iron butterfly valve

GG25 body - CF8M disc - **EPDM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+110°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	RE51	262103017006R	32-40	RES64	262103017107R
50	RE51	262104017006R	50	RES64	262104017107R
65	RE64	262105017007R	65	RES76	262105017108R
80	RE64	262106017007R	80	RES76	262106017108R
100	RE76	262107017008R	100	RES101	262107017110R
125	RE76	262108017008R	125	RES101	262108017110R
150	RE86	262109017009R	150	RES116	262109017111R
200	RE101	262110017010R	200	RES126	262110017112R
250	RE116	262111017011R	250	RES146	262111017113R
300	RE126	262112017012R	300	RES181	262112017115R

1121 - Cast iron butterfly valve

GG25 body - CF8M disc - **NBR seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+80°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	RE51	262203017006R	32-40	RES64	262203017107R
50	RE51	262204017006R	50	RES64	262204017107R
65	RE64	262205017007R	65	RES76	262205017108R
80	RE64	262206017007R	80	RES76	262206017108R
100	RE76	262207017008R	100	RES101	262207017110R
125	RE76	262208017008R	125	RES101	262208017110R
150	RE86	262209017009R	150	RES116	262209017111R
200	RE101	262210017010R	200	RES126	262210017112R
250	RE116	262211017011R	250	RES146	262211017113R
300	RE126	262212017012R	300	RES181	262212017115R

Please consult for the following executions:

1170 - Ductile iron butterfly valve

GGG40 body - Epoxy coated GGG40 disc - **EPDM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+110°C.

ACS Drinking water

1173 - Ductile iron butterfly valve

GGG40 body - CF8M disc - **HT EPDM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+130°C.

1174 - Ductile iron butterfly valve

GGG40 body - Aluminium bronze disc - **NBR seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+90°C.

1175 - Ductile iron butterfly valve

GGG40 body - Epoxy coated GGG40 disc - **EPDM seat** - Lug type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+110°C.

ACS Drinking water

1176 - Ductile iron butterfly valve

GGG40 body - CF8M disc - **HT EPDM seat** - Lug type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+130°C.

NEW

All our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

1150 - Ductile iron butterfly valve

GGG50 body - GGG50 disc (CF8M disc up to DN100) - **EPDM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar up to DN200, 10 bar above - TS: -10°C/+110°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	RE51	260303017006R	32-40	RES64	260303017107R
50	RE51	260304017006R	50	RES64	260304017107R
65	RE64	260305017007R	65	RES76	260305017108R
80	RE64	260306017007R	80	RES76	260306017108R
100	RE76	260307017008R	100	RES101	260307017109R
125	RE76	260308017008R	125	RES101	260308017110R
150	RE86	260309017009R	150	RES116	260309017111R
200	RE101	260310017010R	200	RES126	260310017112R
250	RE116	260311017011R	250	RES146	260311017113R
300	RE126	260312017012R	300	RES181	260312017115R
350	RE161	260313017014R	350	RES201	260313017116R
400	RE201	260314017016R	400	RES271	260314017117R

1153 - Ductile iron butterfly valve

GGG50 body - CF8M disc - **EPDM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar up to DN200, 10 bar above - TS: -10°C/+110°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	RE51	260363017006R	32-40	RES64	260363017107R
50	RE51	260364017006R	50	RES64	260364017107R
65	RE64	260365017007R	65	RES76	260365017108R
80	RE64	260366017007R	80	RES76	260366017108R
100	RE76	260367017008R	100	RES101	260367017109R
125	RE76	260368017008R	125	RES101	260368017110R
150	RE86	260369017009R	150	RES116	260369017111R
200	RE101	260370017010R	200	RES126	260370017112R
250	RE116	260371017011R	250	RES146	260371017113R
300	RE126	260372017012R	300	RES181	260372017115R
350	RE161	260373017014R	350	RES201	260373017116R
400	RE201	260374017016R	400	RES271	260374017117R

1152 - Ductile iron butterfly valve

GGG50 body - GGG50 disc (CF8M disc up to DN100) - **NBR seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar up to DN200, 10 bar above - TS: -10°C/+90°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	RE51	260333017006R	32-40	RES64	260333017107R
50	RE51	260334017006R	50	RES64	260334017107R
65	RE64	260335017007R	65	RES76	260335017108R
80	RE64	260336017007R	80	RES76	260336017108R
100	RE76	260337017008R	100	RES101	260337017109R
125	RE76	260338017008R	125	RES101	260338017110R
150	RE86	260339017009R	150	RES116	260339017111R
200	RE101	260340017010R	200	RES126	260340017112R
250	RE116	260341017011R	250	RES146	260341017113R
300	RE126	260342017012R	300	RES181	260342017115R
350	RE161	260343017014R	350	RES201	260343017116R
400	RE201	260344017016R	400	RES271	260344017117R

1151 - Ductile iron butterfly valve

GGG50 body - CF8M disc - **NBR seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+90°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
50	AP50	260441017006R	50	APS63	260441017107R
65	AP63	260442017007R	65	APS75	260442017108R
80	AP63	260443017007R	80	APS75	260443017108R
100	AP75	260444017008R	100	APS85	260444017109R
125	AP75	260445017008R	125	APS100	260445017110R
150	AP85	260446017009R	150	APS115	260446017111R
200	AP100	260447017010R	200	APS125	260447017112R

NEW

All our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

1147 - Ductile iron butterfly valve

GGG50 body - GGG50 disc (CF8M disc up to DN100) - **Carboxylated NBR seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+90°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	RE51	260563017006R	32-40	RES64	260563017107R
50	RE51	260564017006R	50	RES64	260564017107R
65	RE64	260565017007R	65	RES76	260565017108R
80	RE64	260566017007R	80	RES76	260566017108R
100	RE76	260567017008R	100	RES101	260567017109R
125	RE76	260568017008R	125	RES101	260568017110R
150	RE86	260569017009R	150	RES116	260569017111R
200	RE101	260570017010R	200	RES126	260570017112R

1154 - Ductile iron butterfly valve

GGG50 body - CF8M disc - **FKM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -5°C/+150°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
32-40	RE51	260393017006R	32-40	RES64	260393017107R
50	RE51	260394017006R	50	RES64	260394017107R
65	RE64	260395017007R	65	RES76	260395017108R
80	RE64	260396017007R	80	RES76	260396017108R
100	RE76	260397017008R	100	RES101	260397017109R
125	RE76	260398017008R	125	RES101	260398017110R
150	RE86	260399017009R	150	RES116	260399017111R
200	RE101	260400017010R	200	RES126	260400017112R
250	RE116	260401017011R	250	RES146	260401017113R
300	RE126	260402017012R	300	RES181	260402017115R

1157 - Ductile iron butterfly valve

GGG50 body - CF8M disc - **Silicone seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -15°C/+150°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
40	RE51	260483017006R	40	RES64	260483017107R
50	RE51	260484017006R	50	RES64	260484017107R
65	RE64	260485017007R	65	RES76	260485017108R
80	RE64	260486017007R	80	RES76	260486017108R
100	RE76	260487017008R	100	RES101	260487017109R
125	RE76	260488017008R	125	RES101	260488017110R
150	RE86	260489017009R	150	RES116	260489017111R
200	RE101	260490017010R	200	RES126	260490017112R

1183 - Ductile iron butterfly valve

GGG50 body - Polished CF8M disc - **Alimentary silicone seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -15°C/+150°C.

DN	double acting		DN	spring return	
	actuator	code		actuator	code
50	RE51	260495017006R	50	RES64	260495017107R
65	RE64	260496017007R	65	RES76	260496017107R
80	RE64	260497017007R	80	RES76	260497017108R
100	RE76	260498017008R	100	RES101	260498017108R
125	RE76	260499017008R	125	RES101	260499017109R
150	RE86	260500017009R	150	RES116	260500017110R
200	RE101	260501017010R	200	RES126	260501017111R
250	RE116	260502017011R	250	RES146	260502017113R
300	RE126	260503017012R	300	RES181	260503017115R

NEW

All our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

1141 - Ductile iron butterfly valve for gas service

GGG50 body - GGG50 disc (CF8M disc up to DN100) - **NBR seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -20°C/+60°C - Class MOP5 - Certificate NF ROB GAZ 064-R3 up to 5 bar.

DN	double acting	
	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

DN	spring return	
	actuator	code
32-40	RES64	260593017107R
50	RES64	260594017107R
65	RES76	260595017108R
80	RES76	260596017108R
100	RES101	260597017109R
125	RES101	260598017110R
150	RES116	260599017111R
200	RES126	260600017112R

1145 - Ductile iron butterfly valve

GGG50 body - CF8M disc - **Teflon® seat with silicone liner** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -15°C/+200°C.

DN	double acting	
	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

DN	spring return	
	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

1155 - Ductile iron butterfly valve

GGG50 body - CF8M + PTFE disc - **Teflon® seat with silicone liner** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -15°C/+200°C.

DN	double acting	
	actuator	code
50	RE64	260424017007R
65	RE76	260425017008R
80	RE76	260426017008R
100	RE86	260427017009R
125	RE86	260428017009R
150	RE101	260429017010R
200	RE116	260430017011R

DN	spring return	
	actuator	code
50	RES86	260424017109R
65	RES101	260425017110R
80	RES101	260426017110R
100	RES116	260427017111R
125	RES116	260428017111R
150	RES126	260429017112R
200	RES161	260430017114R

SMOKE

1111 - Carbon steel butterfly valve metal-metal

A216WCB body - GGG50 disc (CF8M disc up to DN100) - **Metal seat** - Wafer type PN10/16 & ANSI 150 - Incomplete tightness: loss factor 2% of Kvs - PS: 16 bar - TS: +350°C.

DN	double acting	
	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

DN	spring return	
	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

NEW

All our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

ISO 9001 | 3.1 10 €/DN

1135 - Cast iron butterfly valve lug type

GG25 body - Nickel-plated GGG40 disc - **EPDM seat** - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above - TS: -10°C/+110°C.

PZH | CE 0035

DN	double acting		DN	spring return	
	actuator	code		actuator	code
40	RE51	262503017006R	40	RES64	262503017107R
50	RE51	262504017006R	50	RES64	262504017107R
65	RE64	262505017007R	65	RES76	262505017108R
80	RE64	262506017007R	80	RES76	262506017108R
100	RE76	262507017008R	100	RES86	262507017110R
125	RE76	262508017008R	125	RES101	262508017110R
150	RE86	262509017009R	150	RES116	262509017111R
200	RE101	262510017010R	200	RES126	262510017112R
250	RE116	262511017011R	250	RES146	262511017113R
300	RE126	262512017012R	300	RES181	262512017115R

⚠ PN16 execution on request above DN150

Other diameters on request

1133 - Cast iron butterfly valve

GG25 body - CF8M disc - **EPDM seat** - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above - TS: -10°C/+110°C.

PZH | CE 0035

DN	double acting		DN	spring return	
	actuator	code		actuator	code
40	RE51	262603017006R	40	RES64	262603017107R
50	RE51	262604017006R	50	RES64	262604017107R
65	RE64	262605017007R	65	RES76	262605017108R
80	RE64	262606017007R	80	RES76	262606017108R
100	RE76	262607017008R	100	RES86	262607017110R
125	RE76	262608017008R	125	RES101	262608017110R
150	RE86	262609017009R	150	RES116	262609017111R
200	RE101	262610017010R	200	RES126	262610017112R
250	RE116	262611017011R	250	RES146	262611017113R
300	RE126	262612017012R	300	RES181	262612017115R

⚠ PN16 execution on request above DN150

Other diameters on request

1160 - Ductile iron butterfly valve

GGG50 body - GGG50 disc (CF8M disc up to DN100) - **EPDM seat** - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above - TS: -10°C/+110°C.

ACS Drinking water | CE 0038 | Ex 10 €/pc

FTV

DN	double acting		DN	spring return	
	actuator	code		actuator	code
40	RE51	261303017006R	40	RES64	261303017107R
50	RE51	261304017006R	50	RES64	261304017107R
65	RE64	261305017007R	65	RES76	261305017108R
80	RE64	261306017007R	80	RES76	261306017108R
100	RE76	261307017008R	100	RES86	261307017109R
125	RE76	261308017008R	125	RES101	261308017110R
150	RE86	261309017009R	150	RES116	261309017111R
200	RE101	261310017010R	200	RES126	261310017112R
250	RE116	261311017011R	250	RES146	261311017113R
300	RE126	261312017012R	300	RES181	261312017115R

1163 - Ductile iron butterfly valve

GGG50 body - CF8M disc - **EPDM seat** - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above - TS: -10°C/+110°C.

ACS Drinking water | CE 0038 | Ex 10 €/pc

FTV

DN	double acting		DN	spring return	
	actuator	code		actuator	code
40	RE51	261393017006R	40	RES64	261393017107R
50	RE51	261394017006R	50	RES64	261394017107R
65	RE64	261395017007R	65	RES76	261395017108R
80	RE64	261396017007R	80	RES76	261396017108R
100	RE76	261397017008R	100	RES86	261397017109R
125	RE76	261398017008R	125	RES101	261398017110R
150	RE86	261399017009R	150	RES116	261399017111R
200	RE101	261400017010R	200	RES126	261400017112R
250	RE116	261401017011R	250	RES146	261401017113R
300	RE126	261402017012R	300	RES181	261402017115R

NEW

All our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

1162 - Ductile iron butterfly valve

GGG50 body - GGG50 disc (CF8M disc up to DN100) - **NBR seat** - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above - TS: -10°C/+90°C.

DN	double acting	
	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

DN	spring return	
	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

1164 - Ductile iron butterfly valve

GGG50 body - CF8M disc - **FKM seat** - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above - TS: -5°C/+150°C.

DN	double acting	
	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

DN	spring return	
	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

1181 - Ductile iron butterfly valve for gas service

GGG50 body - GGG50 disc (CF8M disc up to DN100) - **NBR seat** - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above - TS: -20°C/+60°C - Class MOP5 - Certificate NF ROB GAZ 064-R3 up to 5 bar.

DN	double acting	
	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

DN	spring return	
	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

All our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 20 bar.**

FIRE SAFE | CE 0036 | ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

NEW

* also available	PN25	PN16
code	26095...	26195...

1113 - Carbon steel double offset butterfly valve

A216WCB body - CF8M disc - Stainless steel F316 stem - PTFE-graphite seat & gland pack - Wafer type PN25 - Fire safe API 607 - Unidirectional use - PS: 25 bar - TS: -10°C/+210°C.

DN	double acting	
	actuator	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*

DN	spring return	
	actuator	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*

1114 - Stainless steel double offset butterfly valve

Same as 1113 above, except: CF8M body & disc.

DN	double acting	
	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

DN	spring return	
	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

1115 - Carbon steel double offset butterfly valve

A216WCB body - CF8M disc - Stainless steel F316 stem - PTFE-graphite seat & gland pack - Wafer type ANSI 150 - Fire safe API 607/5 - Unidirectional use - PS: 20 bar - TS: -10°C/+210°C.

NPS	double acting	
	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

NPS	spring return	
	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

1116 - Stainless steel double offset butterfly valve

Same as 1115 above, except: CF8M body & disc.

NPS	double acting	
	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

NPS	spring return	
	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

NEW

All our pneumatic actuated butterfly valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 20 bar.**

FUGITIVE EMISSIONS | FIRE SAFE | CE 0036 | ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

1118 - Carbon steel triple offset butterfly valve

A216WCB body - CF8M disc - Stainless steel F316 stem - PTFE-graphite seat & gland pack - Lug type PN 40 - Fire safe API 607 - Unidirectional use - PS: 40 bar - TS: -39°C/+349°C.

DN	double acting	
	actuator	code
100	RE116	260803017011R
150	RE146	260805017013R
200	RE161	260806017014R
250	RE181	260807017015R
300	RE241	260808017018R

DN	spring return	
	actuator	code
2"	RES161	260803017114R
2"1/2	RES201	260805017116R
3"	RES241	260806017118R
4"	RES271	260807017117R
8"	RES271	260808017117R

Pneumatic actuated valves

Double acting pneumatic actuated knife gate valves

Between flanges PN10 - Painted steel side covers - Actuator designed for lubrificated air input 6 bar.

ISO 9001 | 3.1 10 €/DN | Ex 10 €/pc

■ Unidirectional tightness

170 - Cast iron - NBR seat
GG25 body - F304 gate - TS: -10°C/+80°C.

171 - Cast iron - EPDM seat
GG25 body - F304 gate - TS: -10°C/+110°C.

176 - Cast iron - Metal seat
GG25 body - F304 gate - TS: -10°C/+90°C - ⚠ Incomplete tightness: loss factor 2% of kvs.

DN	double acting			
	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	-	-

** DN 250 to 600: compulsory special packaging.*
⚠ ***Extra charge 40 €.***

172 - Stainless steel - EPDM seat
CF8M body - F316 gate - TS: 0°C/+100°C.

DN	double acting	
	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

** DN 250 to 400: compulsory special packaging.*
⚠ ***Extra charge 40 €.***

Bidirectional tightness

178 - Cast iron - NBR seat
GG25 body - F304 gate - TS: -10°C/+80°C.

177 - Cast iron - EPDM seat
GG25 body - F304 gate - TS: -10°C/+110°C.

DN	double acting		
	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*	4	448014035020	-

** DN 250 to 400: compulsory special packaging.*
⚠ ***Extra charge 40 €.***

Through conduit bidirectional tightness

179 - Cast iron - NBR gasket
GG25 body - Stainless steel F304 gate - TS: -10°C/+90°C.

DN	double acting	
	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.

All DN: compulsory special packaging.
⚠ ***Extra charge 40 €.***

Compulsory special packaging for knife gate valve

code	
CAISSE	

Spring return pneumatic actuated knife gate valves

Between flanges PN10 - Painted steel side covers - Actuator designed for lubrificated air input 6 bar.

ISO 9001 | 3.1 10 €/DN

Unidirectional tightness

170 - Cast iron - NBR seat
GG25 body - F304 gate - TS: -10°C/+80°C.

176 - Cast iron - Metal seat
GG25 body - F304 gate - TS: -10°C/+90°C - ⚠ Incomplete tightness: loss factor 2% of kvs.

DN	spring return		
	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

not on stock, on request.

All DN: compulsory special packaging - ⚠ ***Extra charge 40 €.***

Compulsory special packaging for knife gate valve

code	
CAISSE	

Spring return pneumatic actuated knife gate valves

Between flanges PN10 - Painted steel side covers - Actuator designed for lubrificated air input 6 bar.

ISO 9001 | 3.1 10 €/DN

172 - Stainless steel - EPDM seat

CF8M body - F316 gate - TS: 0°C/+100°C.

DN	spring return	
	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

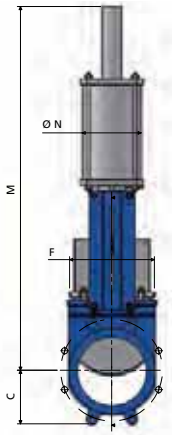
not on stock, on request.

*All DN: compulsory special packaging - ⚠ **Extra charge 40 €.***

Dimensions for spring return valves

170-176-172

DN	M (mm)	C (mm)	V (mm)
50	720	63	125
65	766	70	140
80	810	92	155
100	875	105	175
125	975	120	190
150	1066	130	220
200	1380	160	275
250	1792	198	325
300	1932	234	380



Compulsory special packaging for knife gate valve

code
CAISSE

Double acting pneumatic actuated knife gate valves with manual override

Between flanges PN10 - Painted steel side covers - Actuator designed for lubrificated air input 6 bar.

ISO 9001 | 3.1 10 €/DN

Unidirectional tightness

170 - Cast iron - NBR seat

GG25 body - F304 gate - TS: -10°C/+80°C.

DN	double acting	
	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

All DN: compulsory special packaging.
⚠ ***Extra charge 40 €.***

172 - Stainless steel - EPDM seat

CF8M body - F316 gate - TS: 0°C/+100°C.

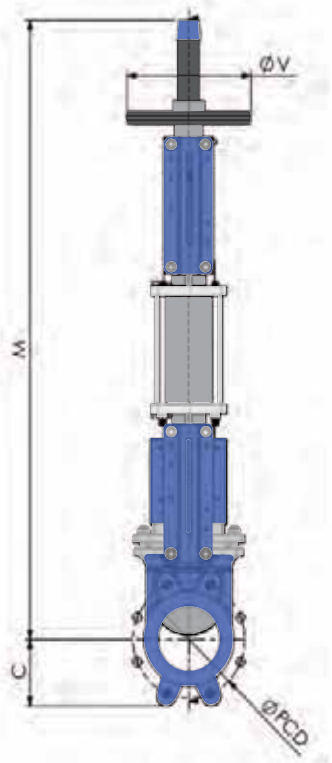
DN	double acting	
	PS (bar)	code
50	10	445004035050
65	10	445005035051
80	10	445006035052
100	10	445007035053
125	10	445008035054
150	10	445009035055
200	10	445010035056
250	8	445011035057
300	6	445012035058

All DN: compulsory special packaging.
⚠ ***Extra charge 40 €.***

Dimensions for double acting valves with manual override

170-172

DN	M (mm)	C (mm)	V (mm)
50	713	63	200
65	772	70	200
80	829	92	200
100	917	105	200
125	1075	120	250
150	1163	130	250
200	1492	160	300
250	1812	198	300
300	2010	234	300



Compulsory special packaging for knife gate valve

code
CAISSE

Options for pneumatic actuated knife gate valves

Spare seats for unidirectional valves (mounted with the valve when ordered at the same time)

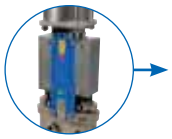
DN	50	65	80	100	125	150	200	250	300	350	400
NBR code	985500	985501	985502	985503	985504	985505	985506	985507	985508	985509	985510
EPDM code	985520	985521	985522	985523	985524	985525	985526	985527	985528	985529	985530
FKM code	985560	985561	985562	985563	985564	985565	985566	985567	985568	985569	985570

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 brackets

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	041616N
		200 to 300	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	121147N
		200 to 400	121150N
NBB4	Inductive detector P+F Ø12 10-36V DC PNP NO 3 threads with 2 m wire	50 to 150	122141N
		200 to 400	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	121154N
		200 to 300	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

Tubing for solenoid valve

Mounting with rilsan tube & brass fittings.

DN	code
50 to 300	TUBINGVG1
350 to 400	TUBINGVG2

Solenoid valve 5/2 monostable - SHAKO BM520

Connection 1/4" inlet and 1/8" outlet - Tubing to actuator not included.

voltage	code
230V AC	042490
24V AC	042491
24V CC	042492

Brass throttle valve BSP

Ø	code
1/8"	041196
1/4"	041195

Silencer BSP

Ø	code
1/8"	041192
1/4"	041193

Filters - Regulators - Lubricators

type		DN	code
UFR	Filter regulator 1/4"	50 to 200	172002
	Filter regulator 3/8"	250 to 400	172003
UFR + UL	Filter regulator + lubricator 1/4"	50 to 200	170002
	Filter regulator + lubricator 3/8"	250 to 400	170003

Brass solenoid valves

97/23/EC Directive - Risk category I - 2006/95/EC Directive - 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.: +60°C (except VSO 84: +80°C) - PS: 10 bar - TS: +80°C (+90°C for ACS valves).

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ESM 85 - Servo-assisted BSP

Normally closed (opening under tension) - T22 connector - Min. ΔP: 0,3 bar.

Ø	bore (mm)	Kv (m³/h)	230V 50Hz code	24V 50Hz code
3/8"	10	1,86	085001	085011
1/2"	12	2,2	085002	085012
3/4"	20	5,7	085003	085013
1"	25	9,6	085004	085014

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) - No ΔP 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"	10	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	32	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

97/23/EC Directive - Risk category I - 2006/95/EC Directive - Nickel-plated CW617N brass body - Stainless steel inner parts - PTFE plug - Coil insulation class F - T30 connector - Max. room temp.: +60°C - PS: 10 bar with AC coils, 5 bar with DC coils - TS: +180°C.

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ESV 90 Servo-assisted BSP

Normally closed (opening under tension) - Min. ΔP: 1 bar - Horizontal mounting, coil on the top above 1" - TS: +180°C.

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

2006/95/EC Directive - CW617N brass body - Stainless steel inner parts - FKM membrane - Coil insulation class F - T30 connector - Max. room temp.: +60°C for 83-20; +80°C for EST93 - TS: +150°C -

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COMPRESSED AIR

83-20 BSP

Normally closed (opening under tension) - Min. ΔP: 0,1 bar - PS: 20 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

EST 93 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)	110V 50Hz code	48V 50Hz code	12V DC code	24V DC code
1/4"	3,5	0,27	15	088100	088110	7	088120	088130	088140	088150
3/8"	3,5	0,30	15	088101	088111	7	088121	088131	088141	088151
1/2"	5	0,48	5	088102	088112	3	088122	088132	088142	088152

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

type	solenoid valve	230V 50Hz code	24V 50Hz code	48V 50Hz code	110V 50Hz code	12V DC code	24V DC code
B4	ESM 85	980300	980301	-	-	-	-
B6	ESM 86 - EV 66 - EVB 82	980310	980311	980313	980314	980315	980316
B6S	ESM 87	980330	980331	980333	980334	980335	980336
B12	VSO 84 (3/8" to 1") ESV 90 - EST 93 - 83-20	980410	980411	980413	980414	980415	980416
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

Diode connector T30

voltage	code
230V AC	980233
24V DC	980234

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
980672
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	-	980620
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

2006/95/EC 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.

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MN 15 BSP

Brass body - PS: 4 bar.

Ø	bore (mm)	230V AC code	24V AC code
3/8"	5,6	088190	088192
1/2"	5,6	088191	088193

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
1"1/4	32	088205	088215
1"1/2	37	088206	088216
2"	42	088207	088217

2006/95/EC Directive - CW617N brass body - Brass & stainless steel inner parts - NBR plug - T30 connector - Room temp.: -20°C/+50°C - PS: 40 bar - TS: -20°C/+90°C.

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248 HP - High pressure BSP

Normally closed (opening under tension) - Min. ΔP: 1,5 bar.

Ø	bore (mm)	Kv (m^3/h)	230V AC code
1/2"	13	2,0	0824802
3/4"	20	5,0	0824803
1"	25	5,5	0824804

Cast iron solenoid valve

97/23/EC Directive - Risk category I - 2006/95/EC 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 | ISO 9001

EVB 82 - High flow

DN	face to face (mm)	Kv (m^3/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

Filter cleaning solenoid valves

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.

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VNP - Servo-assisted BSP

Normally closed (opening under tension) - Min. ΔP: 0,5 bar.

Ø	type	Kv (m^3/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	-

VEM - Operated by solenoid valve BSP

Normally closed (opening under tension) - Min. ΔP: 0,5 bar.

Ø	type	Kv (m^3/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 213	78	0894216
2"1/2	VEM 220	86	0894220

Spare coils & connector

230V 50/60Hz code	24V 50/60Hz code	24V DC code
980564	980565	980566

Stainless steel solenoid valves

Excluded from 2014/68/UE Directive (article 4, §3) - 2006/95/EC Directive - F316 body - Stainless steel inner parts - NBR membrane - PS: 6 bar - TS: -15°C/+80°C.

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AM 325 - Direct acting BSP

Normally closed (opening under tension) - No ΔP required.

Ø	bore (mm)	230V AC code	24V AC code
1/4"	2	041950	041951

NEW

Excluded from 2014/68/UE Directive (article 4, §3) - 2006/95/EC Directive - F316 body - Stainless steel inner parts - FKM membrane - Coil insulation class F - T30 connector - PS: 8 bar - TS: -10°C/+90°C.

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SPUY 220 - Direct acting BSP

Normally closed (opening under tension) - No ΔP required.

Ø	bore (mm)	230V AC code	24V AC code
1/2"	9,5	081202	081212

97/23/EC Directive - Risk category I / module A - 2006/95/EC Directive - CF8M body - Stainless steel inner parts - FKM membrane (EPDM membrane on request) - Coil insulation class F - T30 connector - Horizontal mounting, coil on top - Normally closed (opening under tension) - TS: -10°C/+90°C.

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SPU 220 - Direct acting BSP

No ΔP required - Max. room temp.: +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 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 ATEX*	980540	980541	-	-	-	980542

* CE Ex II 2G/D Ex m II T4.

Spare connector

type	code
T 30	980696

Spare membranes for SPU 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

Quarter-turn actuators - HVAC - IP65

Specifications: Compact type - 90° operating angle - ISO 5211 pad, star connection - Plastic enclosure - Steel reducing box - Room temp.: -10°C/+60°C - S4 duty service: 30% of time / 10 starts/hour.
Standard equipment: 2 adjustable limit switches + 2 auxiliary limit switches - Thermal protection - Position indicator - Gland packing electrical connection.

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UM 1.5 - Electric actuator - 15 Nm

3 m cable.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	☼	230V AC code	24V AC code
UM1.5	15	28	4	F03/F05	14	022000	022001

UMA 3.5 - Electric actuator - 35 Nm

Declutchable manual override by key (not supplied), except UMA3.5-L.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	☼	voltage	code
UMA3.5	35	10	10	F03/F05	14	230V AC	022060
NEW UMA3.5*	35	16	3	F03/F05	14	100-230V AC - 100-350V DC	022062
UMA3.5	35	15	10	F03/F05	14	24V AC/DC	022064
NEW UMA3.5*	35	16	3	F03/F05	14	15-30V AC - 12-48V DC	022065
special executions: slow/quick closing							
UMA3.5-L	35	40	10	F03/F05	14	230V AC	022080
UFAST2.0	20	1,2	18	F03/F05	14	230V AC	022090

*Suitable for parallel circuit mounting.

UMB 7 - Electric actuator - 70 Nm

Declutchable manual override by key (not supplied), except UMA 3,5 L.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	☼	voltage	code
UMB7	70	10	18	F05/F07	14	230V AC	022170
NEW UMB7*	70	18	3	F03/F05	14	100-230V AC - 100-350V DC	022172
NEW UMB7*	70	19	3	F05/F07	14	24V AC - 12-48V DC	022171
NEW UMB7*	70	18	3	F03/F05	14	15-30V AC - 12-48V DC	022175

*Suitable for parallel circuit mounting.

UMC - Electric actuator - 100 & 150 Nm

Manual override by key (not supplied), except UMC15-L.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	☼	230V AC code	24V AC code	24V DC code
UMC10	100	8	25	F07	17	022240	-	-
UMC15	150	8	25	F07	17	022250	022251	022253
special executions: slow/quick closing								
UMC15-L	150	45	25	F07	17	022280	-	-
UFAST4.0	40	1	40	F07	17	022290	-	-

UV - Electric actuator - 150 to 600 Nm

Manual override by handwheel.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	☼	230V AC code	24V AC code	24V DC code
UVC15	150	8	25	F07	17	022330	022331	-
UVD25	250	20	25	F07/F10	22	022350	022351	022353
UVF50	490	30	40	F10/F12	27	022400	-	-
UVG60	600	30	60	F10/F12	27	022450	-	-

Spare resistance heater (mounted when ordered along with the actuator or the actuated valve)

voltage	code
230V AC	121115
24V AC/DC	121116

INV - Reverse box

For UM, UV, SA or NA actuator operation - 3 positions switch - Switch-off 240V-3A - IP66.

IP 66

code
043800N

Quarter-turn actuators - Industry - IP67

Specifications: Compact type - 90° operating angle - 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 M20 x 1,5 (except SA05-X).

IP 67 | CE | ISO 9001

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	F03/05	11	230V AC	023000
SA03	30	9/7	18	F03/05	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	F03/05/07	14	230V AC	023010
SA05	50	10	15	F03/05/07	14	24V AC/DC	023011
SA05	50	11	6	F03/05/07	14	12V DC	023012
special executions: slow closing							
SA05-S	50	100	6	F03/05/07	14	230V AC	023020
SA05-S	50	100	6	F03/05/07	14	24V AC/DC	023021

SA05-X - ATEX electric actuator - 50 Nm

Ex

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	F03/05/07	14	230V AC	023310
SA05-X	50	17	6	F03/05/07	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, 0-10 V, 2-10 V and potentiometer 4-20 mA.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	⌀	voltage	code
SA05-PCU	50	17	6	F03/05/07	14	230V AC	023050
SA05-PCU	50	17	6	F03/05/07	14	24V AC/DC	023051

SA05-SCP - Fail safe / Safety electric actuator - 50 Nm

Back to original position if lack of current - Built-in rechargeable security battery with super condenser.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	⌀	voltage	code
SA05-SCP	50	8	120	F03/05/07	14	230V AC	023065
SA05-SCP	50	8	60	F03/05/07	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 M20 x 1,5.

IP 67 | CE | ISO 9001

SR03 - Spring return electric actuator - 30 Nm

Resistance heater 20W - Duty service: S2-15 min - Manual override by key (included).

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211	⌀	voltage	code
SR03	30	10-35	4,7-10	F03/05	11	230V AC	023070
SR03	30	10-35	4,7-10	F03/05	11	24V AC/DC	023071

SECTORIEL

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 - 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 M20 x 1,5.

IP 67 | CE | ISO 9001

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.

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

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

NA-LCU - Local control unit actuator

Specifications and equipment: same as NA - Setting and diagnosis local control.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO	⌬	230V AC code	3-400V AC code
NA09-LCU	90	17	25	F07	17	023820	023823
NA15-LCU	150	20	40	F07/F10	17	023830	023833
NA28-LCU	280	24	40	F10/F12	22	023850	023853

Specifications: Positive safety with spring return - 90° operating angle - 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.

IP 67 | CE | ISO 9001

SR - Spring return electric actuator

type	torque (Nm)	operating time 90° (s)	spring closing (s)	electrical power (W)	ISO	⌀	230V AC code	230V AC code (Ex)
SR05	50	16/14	1	40	F07	14	023080	023450
SR10	100	20/19	1	60	F07/F10	17	023090	023460
SR30	300	89/82	1	60	F10/F12	22	023106	023470

Quarter-turn Bernard actuators - IP67

Specifications: 90° operating angle - ISO 5211 pad, square connection - Epoxy coated aluminium enclosure - Totally enclosed motor.
Standard equipment: 2 adjustable limit switches - 2 dry auxiliary limit switches - F class insulation motor with thermal protection - Position indicator - Resistance heater - Manual override by handwheel - Electrical connection: gland packing M20 x 1,5 (not included).

IP 67 | CE | ISO 9001

BERNARD CONTROLS

NEW

EZ - Electric actuator

Room temperature range: -20°C/+60°C - S4 duty service: 25% of time - 360 starts/h in peak - 2 setting strokes ±2°.

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
EZ4	45	6	30	-	F05/F07	14	028700	-
EZ6	60	6	30	30	F05/F07	14	028705	028706
EZ10	100	6	60	100	F05/F07	17	028710	028711
EZ15	150	25	30	30	F05/F07	17	028715	028716

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 | ISO 9001

REGADA

SO2-MO3 - Multi-turn electric actuator for rotating non-rising stem linear valves

Room temperature range: -10°C/+55°C.

SO2

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
MO3	130	25	550	F10	25 x 5	027151	-
MO3	130	25	370	F10	25 x 5	-	027152
MO3	200	40	750	F10	25 x 5	-	027153
MO3	300	40	1450	F10	25 x 5	-	027154

MO3

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 | ISO 9001

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

Electric actuated ball valves

All our electric actuated ball valves are equiped with a 230V AC actuator as standard - Please consult for any other power supply - ⚠ **Max. ΔP: 10 bar.**

ISO 9001

502 - Brass ball valve BSP

Direct mounting - CW617N body & ball - PTFE seats - Stem tightness: NBR - Full bore - PS: 16 bar - TS: -10°C/+100°C.

CE 1115

Ø	actuator	code
1/4"	UM1.5	270090022000
3/8"	UM1.5	270091022000
1/2"	UM1.5	270002022000
3/4"	UM1.5	270003022000
1"	UM1.5	270004022000
1"1/4	UMA3.5	270005022060
1"1/2	UMA3.5	270006022060
2"	UMA3.5	270007022060
2"1/2	UMB7	270038022170
3"	UMC10	270039022240
4"	UMC15	270040022250

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

500 HC - Brass ball valve BSP

Direct mounting - CW617N body & ball - PTFE seats - Stem tightness: FKM - Full bore - PS: 16 bar - TS: -10°C/+150°C.

CE 1115

Ø	actuator	code
1/2"	UM1.5	270102022000
3/4"	UM1.5	270103022000
1"	UM1.5	270104022000
1"1/4	UM1.5	270105022000
1"1/2	UMA3.5	270106022060
2"	UMA3.5	270107022060

Ø	actuator	code
1/2"	SA03	270102023000
3/4"	SA03	270103023000
1"	SA03	270104023000
1"1/4	SA03	270105023000
1"1/2	SA03	270106023000
2"	SA03	270107023000

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

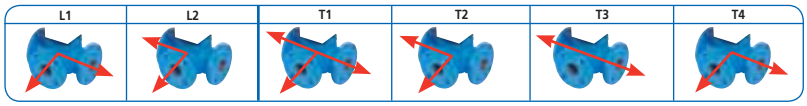
Direct mounting - CW617N body & ball - PTFE seats - Stem tightness: FKM - Reduced bore - PS: 16 bar - TS: -10°C/+100°C.

CE 1115

Ø	actuator	513L code
1/4"	UMA3.5	275010022060
3/8"	UMA3.5	275011022060
1/2"	UMA3.5	275012022060
3/4"	UMA3.5	275013022060
1"	UMA3.5	275014022060
1"1/4	UMA3.5	275015022060
1"1/2	UMA3.5	275016022060
2"	UMA3.5	275017022060

Ø	actuator	513L 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

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



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

507 - Cast iron flanged ball valve type

GG25 body - Stainless steel ball - PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN10/16 - DIN 3202 F4/F5 - PS: 16 bar - TS: -10°C/+200°C - ⚠ **Not suitable for steam & compressed air.**

CE

DN	actuator	code
15	UMA3.5	270222022060
20	UMA3.5	270223022060
25	UMA3.5	270224022060
32	UMA3.5	270225022060
40	UMA3.5	270226022060
50	UMB7	270227022170
65	UMC10	270228022240
80	UMC10	270229022240
100	UVD25	270230022350
125	UVD25	270231022350
150	UVF50	270232022400
200	UVG60	270233022450

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

All our electric actuated ball valves are equiped with a 230V AC actuator as standard - Please consult for any other power supply - ⚠ **Max. ΔP: 100 bar -** Other ΔP on request, please consult.

ISO 9001

NEW

HIGH PRESSURE

799 ZA - 1 piece carbon steel ball valve BSP

1.0715 body & ball - POM seats - Stem tightness: FKM - Full bore - PS: see chart - TS: -20°C/+100°C.

Ø	PS (bar)	actuator	code
3/8"	500	SA05	273201023010
1/2"	500	SA05	273202023010
3/4"	420	SA05	273203023010
1"	315	NA09	273204023120

HIGH PRESSURE

799 ZI - 1 piece stainless steel ball valve BSP

F316 body & ball - POM seats - Stem tightness: FKM - Full bore - PS: see chart - TS: -20°C/+100°C.

Ø	PS (bar)	actuator	code
3/8"	500	SA05	273221023010
1/2"	500	SA05	273222023010
3/4"	420	SA05	273223023010
1"	315	NA09	273224023120

All our electric actuated ball valves are equiped with a 230V AC actuator as standard - Please consult for any other power supply - ⚠ **Max. ΔP: 10 bar.**

TA LUFT | CE 0035 | ISO 9001 | 3.1 10 €/DN

715 XS - 2 piece stainless steel ball valve BSP

Direct mounting - CF8M body & ball - PTFE seats - Stem tightness: PTFE/FKM - Full bore - PS: 63 bar - TS: -10°C/+180°C.

UMA3.5

Ø	actuator	code
1/2"	UMA3.5	272402022060
3/4"	UMA3.5	272403022060
1"	UMA3.5	272404022060
1"1/4	UMA3.5	272405022060
1"1/2	UMA3.5	272406022060
2"	UMA3.5	272407022060
2"1/2	UMB7	272408022170
3"	UMC10	272409022240

SA05

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

715 XS - 2 piece stainless steel ball valve BSP

Direct mounting - CF8M body & ball - PTFE seats - Stem tightness: PTFE/FKM - Full bore - PS: 63 bar - TS: -10°C/+180°C.

UF2.0

Quick acting execution

Ø	actuator	code
1/2"	UF2.0	272402022090
3/4"	UF2.0	272403022090
1"	UF2.0	272404022090
1"1/4	UF4.0	272405022290
1"1/2	UF4.0	272406022290
2"	UF4.0	272407022290

SA05-X

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

736 XS - 3 piece carbon steel ball valve BSP

Direct mounting - A216WCB body - CF8M ball - RTFE seats - Stem tightness: PTFE/FKM - Full bore - PS: 63 bar - TS: -25°C/+180°C.

UMA3.5

Ø	actuator	code
1/2"	UMA3.5	271462022060
3/4"	UMA3.5	271463022060
1"	UMA3.5	271464022060
1"1/4	UMA3.5	271465022060
1"1/2	UMA3.5	271466022060
2"	UMA3.5	271467022060
2"1/2	UMB7	271468022170
3"	UMC10	271469022240
4"	UMC10	271470022240

also available	736 XS	734 XS	735 XS
	BSP	BW	SW
code	27146...	27148...	27150...

SA05

Ex Zones 1 & 2 on request

Ø	actuator	code
1/2"	SA03	271462023000
3/4"	SA03	271463023000
1"	SA03	271464023000
1"1/4	SA05	271465023010
1"1/2	SA05	271466023010
2"	SA05	271467023010
2"1/2	NA09	271468023120
3"	NA09	271469023120
4"	NA15	271470023130

All our electric actuated ball valves are equiped with a 230V AC actuator as standard - Please consult for any other power supply - ⚠ **Max. ΔP: 10 bar.**

TA LUFT | CE 0035 | ISO 9001 | 3.1 10 €/DN

746 XS - 3 piece stainless steel ball valve

CF8M body & ball - PTFE seats - Stem tightness: PTFE/FKM - Full bore - PS: 63 bar - TS: -40°C/+180°C.

Ø	actuator	code
1/4"	UMA3.5	272500022060
3/8"	UMA3.5	272501022060
1/2"	UMA3.5	272642022060
3/4"	UMA3.5	272643022060
1"	UMA3.5	272644022060
1"1/4	UMA3.5	272645022060
1"1/2	UMA3.5	272646022060
2"	UMA3.5	272647022060
2"1/2	UMB7	272648022170
3"	UMC10	272649022240
4"	UMC10	272650022240

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	745 XS	743 XS
	BSP	BW	SW
code	27264...	27266...	27268...

746 XS - 3 piece stainless steel ball valve

NEW

CF8M body & ball - PTFE seats - Stem tightness: PTFE/FKM - Full bore - PS: 63 bar - TS: -40°C/+180°C.

Quick acting execution		
Ø	actuator	code
1/4"	UF2.0	272500022090
3/8"	UF2.0	272501022090
1/2"	UF2.0	272642022090
3/4"	UF2.0	272643022090
1"	UF4.0	272644022290
1"1/4	UF4.0	272645022290
1"1/2	UF4.0	272646022290

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

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

V-port valve + SA05-PCU actuator for control process, see page 134

Fail safe SA05-SCP actuator available, please consult

Stem extension for thermal dispersing, see page 78

STEAM

737 XS & 739 XS - 3 piece carbon steel ball valve BSP SW

A216WCB body - CF8M ball - Stainless steel-PTFE seats - Stem tightness: graphite-PTFE - Full bore - PS: 63 bar - 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

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

STEAM

747 XS & 749 XS - 3 piece stainless steel ball valve BSP SW

CF8M body & ball - Stainless steel-PTFE seats - Stem tightness: graphite-PTFE - Full bore - PS: 63 bar - TS: -40°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	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

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

All our electric actuated ball valves are equiped with a 230V AC actuator as standard - Please consult for any other power supply -
⚠ **Max. ΔP: 10 bar.**

ISO 9001 | 3.1 10 €/DN

OIL & GAS

702 - 3 piece carbon steel ball valve BSP

A216WCB body - CF8M ball - RTFE seats - Full bore - Antistatic system - Firesafe API 607 - PS: 100 bar - TS: -20°C/+218°C.

FIRE SAFE | CE 0038

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

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

Ex 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

OIL & GAS

703 - 3 piece stainless steel ball valve BSP

CF8M body & ball - RTFE seats - Full bore - Antistatic system - Firesafe API 607 - PS: 100 bar - TS: -30°C/+218°C.

FIRE SAFE | CE 0038

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

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

Ex 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

NEW

703 XS - 3 piece stainless steel ball valve BSP

CF8M body & ball - RTFE seats - Full bore - Antistatic system - Firesafe API 607 - PS: 100 bar - TS: -30°C/+218°C.

FIRE SAFE | CE 0038

also available	703 XS BSP	703 XS BW
code	27237...	27238...

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	271377023010

V-port valve + SA05-PCU actuator for control process, see page 134

NEW

710 XS - 3 piece carbon steel flanged ball valve

Direct mounting - A216WCB body - CF8M ball - PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN40 - DIN 3202 F1 - PS: 40 bar - TS: -20°C/+200°C.

TA LUFT | CE 0038

DN	actuator	code
15	UMA3.5	271312022060X
20	UMA3.5	271313022060X
25	UMA3.5	271314022060X
32	UMA3.5	271315022060X
40	UMA3.5	271316022060X
50	UMC10	271317022240X
65	UMC10	271318022240X
80	UMC10	271319022240X
100	UVC15	271320022330X

Ex 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

All our electric actuated ball valves are equiped with a 230V AC actuator as standard - Please consult for any other power supply -
⚠ **Max. ΔP: 10 bar.**

ISO 9001 | 3.1 10 €/DN

TA LUFT | CE 0035

765 XS - 3 piece carbon steel flanged ball valve

A216WCB body - CF8M ball - PTFE-stainless steel seats - Stem & body tightness: PTFE-graphite - Full bore - Flanged RF PN40 - DIN 3202 F1 - PS: 40 bar - TS: -25°C/+220°C - ⚠ **Steam use:** PS: 15 bar / TS: +200°C.

STEAM

Ex 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

CE 0038

7034 - 3 piece stainless steel flanged ball valve

CF8M body & ball - PTFE +25% carbon seats - Stem tightness: PTFE - Full bore - Flanged RF PN40 - DIN 3202 F1 - PS: 40 bar - TS: -30°C/+218°C.

NEW

DN	actuator	code
15	UMA3.5	272232022060
20	UMA3.5	272233022060
25	UMA3.5	272234022060
32	UMA3.5	272235022060
40	UMA3.5	272236022060
50	UMC10	272237022240

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

TA LUFT | CE 0038

711 XS - 3 piece stainless steel flanged ball valve

CF8M body & ball - PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN40 - DIN 3202 F1 - PS: 40 bar - TS: -30°C/+200°C.

NEW

DN	actuator	code
65	UMC10	272108022240X
80	UMC10	272109022240X
100	UVC15	272110022330X

Ex Zones 1 & 2 on request

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

TA LUFT | CE 0035

771 XS - Stainless steel flanged ball valve wafer type

CF8M body & ball - PTFE seats - Stem tightness: PTFE - Full bore - Wafer type PN16 - PS: 16 bar - TS: -30°C/+180°C.

DN	actuator	code
15	UMA3.5	272902022060
20	UMA3.5	272903022060
25	UMA3.5	272904022060
32	UMA3.5	272905022060
40	UMA3.5	272906022060
50	UMC10	272907022240
65	UMC10	272908022240
80	UMC10	272909022240
100	UMC15	272910022250

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

TA LUFT | CE 0035

771 XS - Stainless steel flanged ball valve wafer type

CF8M body & ball - PTFE seats - Stem tightness: PTFE - Full bore - Wafer type PN16 - PS: 16 bar - TS: -30°C/+180°C.

NEW

Ex Zones 1 & 2 10 €/pc

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

All our electric actuated ball valves are equiped with a 230V AC actuator as standard - Please consult for any other power supply -
⚠ **Max. ΔP: 10 bar.**

FIRE SAFE | ISO 9001 | 3.1 10 €/DN

762 - Split body carbon steel flanged ball valve

A216WCB body - CF8M ball - PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN16 - DIN 3202 F4/F5 -
PS: 40 bar up to DN50, 16 bar above - TS: -20°C/+200°C.

CE 0035

DN	actuator	code
15	UMA3.5	274242022060
20	UMA3.5	274243022060
25	UMA3.5	274244022060
32	UMA3.5	274245022060
40	UMC10	274246022240
50	UMC10	274247022240
65	UMC10	274248022240
80	UVC15	274249022330
100	UVD25	274250022350

Ex Zones 1 & 2 on request

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

763 - Split body stainless steel flanged ball valve

CF8M body & ball - PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN16 - DIN 3202 F4/F5 -
PS: 40 bar up to DN50, 16 bar above - TS: -20°C/+200°C.

CE 0035

DN	actuator	code
15	UMA3.5	274362022060
20	UMA3.5	274363022060
25	UMA3.5	274364022060
32	UMA3.5	274365022060
40	UMC10	274366022240
50	UMC10	274367022240
65	UMC10	274368022240
80	UVC15	274369022330
100	UVD25	274370022350

Ex Zones 1 & 2 on request

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

756 - Split-body carbon steel flanged ball valve

A216WCB body - CF8M ball - TFM™ 1600 PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF ANSI 150 -
PS: 20 bar - TS: -20°C/+200°C.

FUGITIVE EMISSIONS | CE 0062

OIL & GAS

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

Ex Zones 1 & 2 10 €/pc

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 - Split-body stainless steel flanged ball valve

CF8M body & ball - TFM™ 1600 PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF ANSI 150 -
PS: 20 bar - TS: -30°C/+200°C.

FUGITIVE EMISSIONS | CE 0062

OIL & GAS

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

Ex Zones 1 & 2 10 €/pc

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

SECTORIEL

All our electric actuated ball valves are equiped with a 230V AC actuator as standard - Please consult for any other power supply - ⚠ **Max. ΔP: 10 bar.**

FUGITIVE EMISSIONS | FIRE SAFE | CE 0062 | ISO 9001 | 3.1 10 €/DN

752 - Split body carbon steel flanged ball valve

A216WCB body - CF8M ball - TFM™ 1600 PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN16 - DIN 3202 F4/F5 - PS: 40 bar up to DN50, 16 bar above - TS: -20°C/+200°C.

OIL & GAS

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
200	NA150	274293023210

Ex 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

753 - Split body stainless steel flanged ball valve

CF8M body & ball - TFM™ 1600 PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN16 - DIN 3202 F4/F5 - PS: 40 bar up to DN50, 16 bar above - TS: -30°C/+200°C.

OIL & GAS

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
200	NA150	274413023210

Ex 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

768 - Split body carbon steel flanged ball valve

A216WCB body - CF8M ball - TFM™ 1600 PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF ANSI 300 - PS: 50 bar - TS: -29°C/+250°C.

OIL & GAS

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

Ex Zones 1 & 2 10 €/pc

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 - Split body stainless steel flanged ball valve

CF8M body & ball - TFM™ 1600 PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF ANSI 300 - PS: 50 bar - TS: -50°C/+250°C.

OIL & GAS

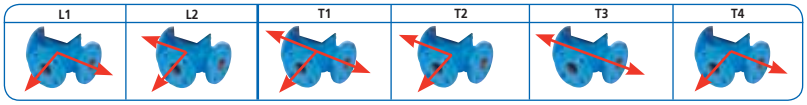
NPS	actuator	code
1/2"	SA05	274442023010
3/4"	SA05	274443023010
1"	SA05	274444023010
1"1/2	SA05	274446023010
2"	NA09	274447023120
3"	NA28	274449023150
4"	NA28	274450023150
6"	NA60	274452023180

Ex Zones 1 & 2 10 €/pc

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

All our electric actuated ball valves are equiped with a 230V AC actuator as standard -
Please consult for any other power supply - ⚠ **Max. ΔP: 10 bar.**

ISO 9001



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

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

513 L-port / 514-T port - 3 way brass ball valve

Direct mounting - CW617N body & ball - PTFE seats - Stem tightness: FKM - Reduced bore - PS: 16 bar - TS: -10°C/+100°C.

CE 1115

Ø	actuator	513L code
1/4"	UMA3.5	275010022060
3/8"	UMA3.5	275011022060
1/2"	UMA3.5	275012022060
3/4"	UMA3.5	275013022060
1"	UMA3.5	275014022060
1"1/4	UMA3.5	275015022060
1"1/2	UMA3.5	275016022060
2"	UMA3.5	275017022060

Ø	actuator	513L 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

	780 XS	781 XS T
code	27540...	27542...

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

CF8M body & ball - PTFE seats - Stem tightness: PTFE - Reduced bore - PS: 63 bar - TS: -30°C/+180°C.

DN	actuator	780 XS L code
1/4"	UMA3.5	275400022060
3/8"	UMA3.5	275401022060
1/2"	UMA3.5	275402022060
3/4"	UMA3.5	275403022060
1"	UMA3.5	275404022060
1"1/4	UMA3.5	275405022060
1"1/2	UMA3.5	275406022060
2"	UMB7	275407022170

DN	actuator	780 XS L 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

	783 L	784 T
code	27567...	27568...
code	27568...	27569...

783 L-port / 784 T-port - 3 way carbon steel flanged ball valve

A216WCB body - CF8M ball - PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN16 - PS: 16 bar - TS: -20°C/+150°C.

DN	actuator	783 L code
25	UMA3.5	275674022060
32	UMA3.5	275675022060
40	UMC10	275676022240
50	UVC15	275677022330
65	UVC15	275678022330
80	UVD25	275679022350
100	UVD25	275680022350

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

	785 L	786 T
code	27537...	27538...
code	27538...	27539...

785 L-port / 786 T-port - 3 way stainless steel flanged ball valve

CF8M body & ball - PTFE seats - Stem tightness: PTFE - Full bore - Flanged RF PN16 - PS: 16 bar - TS: -30°C/+150°C.

DN	actuator	785 L code
25	UMA3.5	275374022060
32	UMA3.5	275375022060
40	UMC10	275376022240
50	UVC15	275377022330
65	UVC15	275378022330
80	UVD25	275379022350
100	UVD25	275380022350

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

Electric actuated butterfly valves

All our electric actuated butterfly valves are equiped with a 230V AC actuator as standard (see exception on fig. 1125) - Please consult for any other power supply - ⚠ **Max. ΔP: 10 bar up to DN300, 5 bar above.**

CE 0035 | ISO 9001 | 3.1 10 €/DN

1125 - Cast iron butterfly valve

GG25 body - Nickel plated GGG40 disc - **EPDM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar up to DN300, 10 bar above - TS: -10°C/+110°C - ⚠ **230V actuator up to DN300, 3~400V above.**

DN	actuator	code
32-40	UMA3.5	262003022060
50	UMA3.5	262004022060
65	UMA3.5	262005022060
80	UMA3.5	262006022060
100	UMB7	262007022170
125	UMC10	262008022240
150	UVC15	262009022330
200	UVD25	262010022350
250	UVF50	262011022400
300	UVG60	262012022450

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
450	NA150	262015023213
500	NA200	262016023223
600	NA250	262017023233

1123 - Cast iron butterfly valve

GG25 body - CF8M disc - **EPDM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+110°C.

DN	actuator	code
32-40	UMA3.5	262103022060
50	UMA3.5	262104022060
65	UMA3.5	262105022060
80	UMA3.5	262106022060
100	UMB7	262107022170
125	UMC10	262108022240
150	UVC15	262109022330
200	UVD25	262110022350
250	UVF50	262111022400
300	UVG60	262112022450

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 DN 500 on request

1121 - Cast iron butterfly valve

GG25 body - CF8M disc - **NBR seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+90°C.

DN	actuator	code
32-40	UMA3.5	262203022060
50	UMA3.5	262204022060
65	UMA3.5	262205022060
80	UMA3.5	262206022060
100	UMB7	262207022170
125	UMC10	262208022240
150	UVC15	262209022330
200	UVD25	262210022350
250	UVF50	262211022400
300	UVG60	262212022450

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

Please consult for the following executions:

1170 - Ductile iron butterfly valve

GGG40 body - Epoxy coated GGG40 disc - **EPDM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+110°C.

1173 - Ductile iron butterfly valve

GGG40 body - CF8M disc - **HT EPDM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+130°C.

1174 - Ductile iron butterfly valve

GGG40 body - Aluminium bronze disc - **NBR seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+90°C.

1175 - Ductile iron butterfly valve

GGG40 body - Epoxy coated GGG40 disc - **EPDM seat** - Lug type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+110°C.

1176 - Ductile iron butterfly valve

GGG40 body - CF8M disc - **HT EPDM seat** - Lug type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+130°C.

All our electric actuated butterfly valves are equiped with a 230V AC actuator as standard (see exception on fig. 1150) - Please consult for any other power supply - ⚠ **Max. ΔP: 10 bar up to DN300, 5 bar above.**

CE 0038 | ISO 9001 | 3.1 10 €/DN

1150 - Ductile iron butterfly valve

GGG50 body - GGG50 disc (CF8M disc up to DN100) - **EPDM seat** - Wafer type PN10/16 & ANSI 150 up to DN400, PN10 above - PS: 16 bar up to DN300, 10 bar above - TS: -10°C/+90°C - ⚠ **230V actuator up to DN350, 3~400V above.**

DN	actuator	code
32-40	UMA3.5	260303022060
50	UMA3.5	260304022060
65	UMA3.5	260305022060
80	UMA3.5	260306022060
100	UMB7	260307022170
125	UMC10	260308022240
150	UVC15	260309022330
200	UVC15	260310022330
250	UVD25	260311022350
300	UVF50	260312022400
350	UVG60	260313022450

Ex on request

DN	actuator	code
32-40	SA05	260303023010
50	SA05	260304023010
65	SA05	260305023010
80	SA05	260306023010
100	SA05	260307023010
125	NA09	260308023120
150	NA15	260309023130
200	NA15	260310023130
250	NA28	260311023150
300	NA38	260312023160
350	NA60	260313023180
400	NA100	260314023203
450	NA200	260315023223
500	NA250	260316023233

1153 - Ductile iron butterfly valve

GGG50 body - CF8M disc - **EPDM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar up to DN300, 10 bar above - TS: -10°C/+90°C.

DN	actuator	code
32-40	UMA3.5	260363022060
50	UMA3.5	260364022060
65	UMA3.5	260365022060
80	UMA3.5	260366022060
100	UMB7	260367022170
125	UMC10	260368022240
150	UVC15	260369022330
200	UVC15	260370022330
250	UVD25	260371022350
300	UVF50	260372022400
350	UVG60	260373022450

Ex on request

DN	actuator	code
32-40	SA05	260363023010
50	SA05	260364023010
65	SA05	260365023010
80	SA05	260366023010
100	SA05	260367023010
125	NA09	260368023120
150	NA15	260369023130
200	NA15	260370023130
250	NA28	260371023150
300	NA38	260372023160
350	NA60	260373023180

1152 - Ductile iron butterfly valve

GGG50 body - GGG50 disc (CF8M disc up to DN100) - **NBR seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar up to DN300, 10 bar above - TS: -10°C/+80°C.

DN	actuator	code
32-40	UMA3.5	260333022060
50	UMA3.5	260334022060
65	UMA3.5	260335022060
80	UMA3.5	260336022060
100	UMB7	260337022170
125	UMC10	260338022240
150	UVC15	260339022330
200	UVC15	260340022330
250	UVD25	260341022350
300	UVF50	260342022400
350	UVG60	260343022450

Ex 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 - Ductile iron butterfly valve

GGG50 body - CF8M disc - **NBR seat** - Wafer type PN10/16 & ANSI - PS: 16 bar up to DN300, 10 bar above - TS: -10°C/+80°C.

DN	actuator	code
32-40	UMA3.5	260440022060
50	UMA3.5	260441022060
65	UMA3.5	260442022060
80	UMA3.5	260443022060
100	UMB7	260444022170
125	UMC10	260445022240
150	UVC15	260446022330
200	UVC15	260447022330
250	UVD25	260448022350
300	UVF50	260449022400

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

SECTORIEL

All our electric actuated butterfly valves are equiped with a 230V AC actuator as standard -
Please consult for any other power supply - ⚠ **Max. ΔP: 10 bar up to DN300, 5 bar above.**

CE 0038 | ISO 9001 | 3.1 10 €/DN | Ex on request

1158 - Ductile iron butterfly valve

GGG50 body - Aluminium bronze disc - **NBR seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar - TS: -10°C/+80°C.

DN	actuator	code
32-40	UMA3.5	260513022060
50	UMA3.5	260514022060
65	UMA3.5	260515022060
80	UMA3.5	260516022060
100	UMB7	260517022170
125	UMC10	260518022240
150	UVC15	260519022330
200	UVC15	260520022330

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

1154 - Ductile iron butterfly valve

GGG50 body - CF8M disc - **FKM seat** - Wafer type PN10/16 & ANSI 150 - PS: 16 bar up to DN300, 10 bar above -
TS: -5°C/+150°C - Above DN350: 3-400V actuator with ΔP: 5 bar max.

DN	actuator	code
32-40	UMA3.5	260393022060
50	UMA3.5	260394022060
65	UMA3.5	260395022060
80	UMA3.5	260396022060
100	UMB7	260397022170
125	UMC10	260398022240
150	UVC15	260399022330
200	UVC15	260400022330
250	UVD25	260401022350
300	UVF50	260402022400

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

1141 - Ductile iron butterfly valve for "gas"

GGG50 body - GGG50 disc (CF8M disc up to DN100) - **NBR seat** - Wafer type PN10/16 ANSI 150 - PS: 16 bar -
TS: -10°C/+60°C - MOP5 class - 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

1111 - Carbon steel butterfly valve metal-metal

A216WCB body - GGG50 disc (CF8M disc up to DN100) - **Metal seat** - Incomplete tightness: loss factor 2% of Kvs -
PS: 16 bar - TS: -20°C/+350°C.

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

All our electric actuated butterfly valves are equiped with a 230V AC actuator as standard - Please consult for any other power supply - ⚠ **Max. ΔP: 10 bar.**

ISO 9001 | 3.1 10 €/DN

1135 - Cast iron butterfly valve

GG25 body - Nickel plated GGG40 disc - **EPDM seat** - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar, up to DN150, 10 bar above - TS: -10°C/+110°C.

CE 0035

DN	actuator	code
50	UMA3.5	262504022060
65	UMA3.5	262505022060
80	UMA3.5	262506022060
100	UMB7	262507022170
125	UMC10	262508022240
150	UVC15	262509022330
200	UVD25	262510022350*
250	UVF50	262511022400*
300	UVG60	262512022450*

* PN16 execution available, please consult.

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*

* PN16 execution available, please consult.

1133 - Cast iron butterfly valve

GG25 body - CF8M disc - **EPDM seat** - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above -TS: -10°C/+110°C.

DN	actuator	code
50	UMA3.5	262604022060
65	UMA3.5	262605022060
80	UMA3.5	262606022060
100	UMC10	262607022240
125	UMC10	262608022240
150	UVC15	262609022330
200	UVD25	262610022350*
250	UVF50	262611022400*
300	UVG60	262612022450*

* PN16 execution available, please consult.

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*

* PN16 execution available, please consult.

1160 - Ductile iron butterfly valve

GGG50 body - GGG50 disc (CF8M disc up to DN100) - **EPDM seat** - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above - TS: -10°C/+90°C.

CE 0038

DN	actuator	code
40	UMA3.5	261303022060
50	UMA3.5	261304022060
65	UMA3.5	261305022060
80	UMA3.5	261306022060
100	UMC10	261307022240
125	UMC10	261308022240
150	UVC15	261309022330
200	UVC15	261310022330*
250	UVD25	261311022350*
300	UVF50	261312022400*

* PN16 execution available, please consult.

Ex on request

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*

* PN16 execution available, please consult.

1163 - Ductile iron butterfly valve

GGG50 body - CF8M disc - **EPDM seat** - Lug type PN10/16 up to DN150, PN10 above - PS: 16 bar up to DN150, 10 bar above - TS: -10°C/+90°C.

CE 0038

DN	actuator	code
40	UMA3.5	261393022060
50	UMA3.5	261394022060
65	UMA3.5	261395022060
80	UMA3.5	261396022060
100	UMC10	261397022240
125	UMC10	261398022240
150	UVC15	261399022330
200	UVC15	261400022330*
250	UVD25	261401022350*
300	UVF50	261402022400*

* PN16 execution available, please consult.

Ex 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*

* PN16 execution available, please consult.

All our electric actuated butterfly valves are equiped with a 230V AC actuator as standard - Please consult for any other power supply - ⚠ **Max. ΔP: 20 bar.**

FIRE SAFE | CE 0035 | ISO 9001 | 3.1 10 €/DN

1113 - Carbon steel double offset butterfly valve

A216WCB body - CF8M disc - Stainless steel F316 stem - PTFE-graphite seat & gland pack - Wafer type PN25 - Unidirectional use - PS: 25 bar - TS: -10°C/+210°C.

* also available	PN25	PN16
code	26095...	26195...

DN	actuator	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

Ex Zones 1 & 2 10 €/pc

DN	actuator	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

1114 - Stainless steel double offset butterfly valve

Same as 1113 above, except: CF8M body & disc.

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

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

1115 - Carbon steel double offset butterfly valve

A216WCB body - CF8M disc - Stainless steel F316 stem - PTFE-graphite seat & gland pack - Wafer type ANSI 150 - Unidirectional use - PS: 25 bar - TS: -10°C/+210°C.

NPS	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

NPS	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

1116 - Stainless steel double offset butterfly valve

Same as 1115 above, except: CF8M body & disc.

NPS	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

NPS	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

1118 - Carbon steel triple offset butterfly valve

NEW

A216WCB body - CF8M disc - Stainless steel F316 stem - PTFE-graphite seat & gland pack - Lug type PN40 - Fire safe API 607 - Unidirectional use - PS: 40 bar - TS: -39°C/+349°C.

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	260807023400

Electric actuated knife gate valves

On/off multi-turn Regada actuator 230V AC

ISO 9001 | 3.1 10 €/DN

Unidirectional tightness - Lug type - Flanged PN10 - 230V AC actuator - Room temp.: -25°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.

170 - Cast iron - NBR gasket

GG25 body - F304 gate - TS: -10°C/+90°C.

DN	PS (bar)	actuator	code
50	10	SO2	440004027100
65	10	SO2	440005027100
80	10	SO2	440006027100
100*	10	SO2	440007027100
125*	10	SO2	440008027100
150*	10	SO2	440009027100
200*	10	MO3	440010027150
250*	8	MO3	440011027150
300*	6	MO3	440012027150

** DN100 to 300: compulsory special packaging -*
⚠ ***Extra charge 40 €.***

NEW

171 - Cast iron - EPDM gasket

GG25 body - F304 gate - TS: -10°C/+90°C.

DN	PS (bar)	actuator	code
50	10	SO2	441004027100
65	10	SO2	441005027100
80	10	SO2	441006027100
100*	10	SO2	441007027100
125*	10	SO2	441008027100
150*	10	SO2	441009027100
200*	10	MO3	441010027150
250*	8	MO3	441011027150
300*	6	MO3	441012027150

** DN100 to 300: compulsory special packaging -*
⚠ ***Extra charge 40 €.***

176 - Cast iron - Metal seat

GG25 body - F304 gate - TS: -10°C/+90°C -
⚠ Incomplete tightness: loss factor 2% of kvs.

DN	PS (bar)	actuator	code
50	10	SO2	446004027100
65	10	SO2	446005027100
80	10	SO2	446006027100
100*	10	SO2	446007027100
125*	10	SO2	446008027100
150*	10	SO2	446009027100
200*	10	MO3	446010027150
250*	8	MO3	446011027150
300*	6	MO3	446012027150

** DN100 to 300: compulsory special packaging -*
⚠ ***Extra charge 40 €.***

On/off multi-turn Auma actuator 3~400V AC

ISO 9001 | 3.1 10 €/DN

Unidirectional tightness - Lug type - Flanged PN10 - 3~400V AC actuator - 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.**

170 - Cast iron - NBR gasket

GG25 body - F304 gate - TS: -10°C/+80°C.

DN	PS (bar)	actuator	code
50	10	SA07.2	440004027015
65	10	SA07.2	440005027015
80	10	SA07.2	440006027015
100*	10	SA07.2	440007027015
125*	10	SA07.6	440008027025
150*	10	SA07.6	440009027025
200*	10	SA07.6	440010027025
250*	8	SA07.6	440011027025
300*	6	SA10.2	440012027035
350*	4	SA10.2	440013027035
400*	4	SA10.2	440014027035

** DN100 to 400: compulsory special packaging -*
⚠ ***Extra charge 40 €.***

171 - Cast iron - EPDM gasket

GG25 body - F304 gate - TS: -10°C/+80°C.

DN	PS (bar)	actuator	code
50	10	SA07.2	441004027015
65	10	SA07.2	441005027015
80	10	SA07.2	441006027015
100*	10	SA07.2	441007027015
125*	10	SA07.6	441008027025
150*	10	SA07.6	441009027025
200*	10	SA07.6	441010027025
250*	8	SA07.6	441011027025
300*	6	SA10.2	441012027035
350*	4	SA10.2	441013027035
400*	4	SA10.2	441014027035

** DN100 to 400: compulsory special packaging -*
⚠ ***Extra charge 40 €.***

176 - Cast iron - Metal seat

GG25 body - F304 gate - TS: -10°C/+90°C -
⚠ Incomplete tightness: loss factor 2% of kvs.

DN	PS (bar)	actuator	code
50	10	SA07.2	446004027015
65	10	SA07.2	446005027015
80	10	SA07.2	446006027015
100*	10	SA07.2	446007027015
125*	10	SA07.6	446008027025
150*	10	SA07.6	446009027025
200*	10	SA07.6	446010027025
250*	8	SA07.6	446011027025
300*	6	SA10.2	446012027035

** DN100 to 400: compulsory special packaging -*
⚠ ***Extra charge 40 €.***

Compulsory special packaging for knife gate valve

code
CAISSE

Electric actuated knife gate valves

On/off multi-turn Regada actuator 230V AC

Same features as page 131. ISO 9001 | 3.1 10 €/DN

172 - Stainless steel - EPDM gasket

CF8M - F316 gate - TS: 0°C/+100°C.

DN	PS (bar)	actuator	code
50	10	SO2	445004027100
65	10	SO2	445005027100
80	10	SO2	445006027100
100*	10	SO2	445007027100
125*	10	SO2	445008027100
150*	10	SO2	445009027100
200*	10	MO3	445010027150
250*	8	MO3	445011027150
300*	6	MO3	445012027150

** DN100 to 300: compulsory special packaging -*
⚠ ***Extra charge 40 €.***

NEW

173 - Stainless steel - Metal seat

CF8M - F316 gate - TS: 0°C/+100°C -
⚠ Incomplete tightness: loss factor 2% of kvs.

DN	PS (bar)	actuator	code
50	10	SO2	444004027100
65	10	SO2	444005027100
80	10	SO2	444006027100
100*	10	SO2	444007027100
125*	10	SO2	444008027100
150*	10	SO2	444009027100
200*	10	MO3	444010027150
250*	8	MO3	444011027150
300*	6	MO3	444012027150

** DN100 to 300: compulsory special packaging -*
⚠ ***Extra charge 40 €.***

Same features as above, except bidirectional tightness. ISO 9001 | 3.1 10 €/DN

178 - Cast iron - NBR gasket

GG25 body - F304 gate - TS: -10°C/+90°C.

DN	PS (bar)	actuator	code
50	10	SO2	448004027100
65	10	SO2	448005027100
80	10	SO2	448006027100
100*	10	SO2	448007027100
125*	10	SO2	448008027100
150*	10	SO2	448009027100
200*	10	MO3	448010027150
250*	8	MO3	448011027150
300*	6	MO3	448012027150

** DN100 to 300: compulsory special packaging -*
⚠ ***Extra charge 40 €.***

On/off multi-turn Auma actuator 3~400V AC

Same features as page 131. ISO 9001 | 3.1 10 €/DN

172 - Stainless steel - EPDM gasket

CF8M - F316 gate - TS: 0°C/+100°C.

DN	PS (bar)	actuator	code
50	10	10	445004027015
65	10	10	445005027015
80	10	10	445006027015
100*	10	10	445007027015
125*	10	10	445008027025
150*	10	10	445009027025
200*	10	10	445010027025
250*	8	8	445011027025
300*	6	6	445012027035

** DN100 to 300: compulsory special packaging -*
⚠ ***Extra charge 40 €.***

173 - Stainless steel - Metal seat

CF8M - F316 gate - TS: 0°C/+100°C -
⚠ Incomplete tightness: loss factor 2% of kvs.

DN	PS (bar)	actuator	code
50	10	10	444004027015
65	10	10	444005027015
80	10	10	444006027015
100*	10	10	444007027015
125*	10	10	444008027025
150*	10	10	444009027025
200*	10	10	444010027025
250*	8	8	444011027025
300*	6	6	444012027035

** DN100 to 300: compulsory special packaging -*
⚠ ***Extra charge 40 €.***

Same features as above, except bidirectional tightness. ISO 9001 | 3.1 10 €/DN

178 - Cast iron - NBR gasket

GG25 body - F304 gate - TS: -10°C/+90°C.

DN	PS (bar)	actuator	code
50	10	SA07.2	448004027015
65	10	SA07.2	448005027015
80	10	SA07.2	448006027015
100*	10	SA07.2	448007027015
125*	10	SA07.6	448008027025
150*	10	SA07.6	448009027025
200*	10	SA07.6	448010027025
250*	8	SA07.6	448011027025
300*	6	SA10.2	448012027035
350*	4	SA10.2	448013027035
400*	4	SA10.2	448014027035

** DN100 to 400: compulsory special packaging -*
⚠ ***Extra charge 40 €.***

Compulsory special packaging for knife gate valve

code
CAISSE

On/off multi-turn Regada actuator 230V AC

NEW

Same features as fig. 178, page 132. ISO 9001 | 3.1 10 €/DN

177 - Cast iron - EPDM gasket

GG25 body - F304 gate - TS: -10°C/+90°C.

DN	PS (bar)	actuator	code
50	10	SO2	443004027100
65	10	SO2	443005027100
80	10	SO2	443006027100
100*	10	SO2	443007027100
125*	10	SO2	443008027100
150*	10	SO2	443009027100
200*	10	MO3	443010027150
250*	8	MO3	443011027150
300*	6	MO3	443012027150

** DN100 to 300: compulsory special packaging -*
⚠ ***Extra charge 40 €.***

On/off multi-turn Auma actuator 3~400V AC

Same features as fig. 178, page 132. ISO 9001 | 3.1 10 €/DN

177 - Cast iron - EPDM gasket

GG25 body - F304 gate - TS: -10°C/+90°C.

DN	PS (bar)	actuator	code
50	10	SA07.2	443004027015
65	10	SA07.2	443005027015
80	10	SA07.2	443006027015
100*	10	SA07.2	443007027015
125*	10	SA07.6	443008027025
150*	10	SA07.6	443009027025
200*	10	SA07.6	443010027025
250*	8	SA07.6	443011027025
300*	6	SA10.2	443012027035
350*	4	SA10.2	443013027035
400*	4	SA10.2	443014027035

** DN100 to 400: compulsory special packaging -*
⚠ ***Extra charge 40 €.***

Electric actuated resilient seated gate valves

On/off multi-turn Regada actuator

ISO 9001 | 3.1 10 €/DN

Ductile iron GGG50 body & hat - NBR stem gasket - Flanged PN10/16 - DIN 3202 F4 - Room temperature range: -10°C/+55°C - Heating resistance 20W - Torque limiter - Manual safety gear - S4 duty service: 25% of time / 10 cycles/h - Stainless steel bracket & coupling - PS: 10 bar for PN10 valves, 16 bar for PN16 valves.

181 - Ductile iron - EPDM wedge

TS: -10°C/+110°C.

DN	flanges	actuator 3~400V	code	230V code
50	PN16	SO2	410107027103	410107027101
65	PN16	SO2	410108027103	410108027101
80	PN16	SO2	410109027103	410109027101
100	PN16	SO2	410110027103	410110027101
125	PN16	SO2	410111027104	410111027102
150	PN16	SO2	410112027104	410112027102
200	PN10	MO3	410113027152	410113027151
200	PN16	MO3	410114027152	410114027151
250	PN10	MO3	410115027153	-
250	PN16	MO3	410116027153	-
300	PN10	MO3	410117027154	-
300	PN16	MO3	410118027154	-

182 - Ductile iron - NBR wedge

TS: -10°C/+70°C.

DN	flanges	actuator 3~400V	code	230V code
50	PN16	SO2	410127027103	410127027101
65	PN16	SO2	410128027103	410128027101
80	PN16	SO2	410129027103	410129027101
100	PN16	SO2	410130027103	410130027101
125	PN16	SO2	410131027104	410131027102
150	PN16	SO2	410132027104	410132027102
200	PN10	MO3	410133027152	410133027151
200	PN16	MO3	410134027152	410134027151
250	PN10	MO3	410135027153	-
250	PN16	MO3	410136027153	-
300	PN10	MO3	410137027154	-
300	PN16	MO3	410138027154	-

On-off multi-turn Auma actuator

ISO 9001 | 3.1 10 €/DN

Ductile iron GGG50 body & hat - NBR stem gasket - Flanged PN10/16 - DIN 3202 F4 - 3~400V AC actuator - Room temperature range: -10°C/+80°C - Heating resistance 20W - Torque limiter - Manual safety gear - S2 duty service (15 mn) - Stainless steel bracket & coupling - PS: 10 bar for PN10 valves, 16 bar for PN16 valves.

181 - Ductile iron - EPDM wedge

TS: -10°C/+110°C.

DN	flanges	actuator 3~400V	code
50	PN16	SA07	410107027026
65	PN16	SA07	410108027026
80	PN16	SA07	410109027026
100	PN16	SA07	410110027026
125	PN16	SA10	410111027036
150	PN16	SA10	410112027036
200	PN10	SA10	410113027036
200	PN16	SA10	410114027036
250	PN10	SA14	410115027046
250	PN16	SA14	410116027046
300	PN10	SA14	410117027046
300	PN16	SA14	410118027046

182 - Ductile iron - NBR wedge

TS: -10°C/+70°C.

DN	flanges	actuator 3~400V	code
50	PN16	SA07	410127027026
65	PN16	SA07	410128027026
80	PN16	SA07	410129027026
100	PN16	SA07	410130027026
125	PN16	SA10	410131027036
150	PN16	SA10	410132027036
200	PN10	SA10	410133027036
200	PN16	SA10	410134027036
250	PN10	SA14	410135027046
250	PN16	SA14	410136027046
300	PN10	SA14	410137027046
300	PN16	SA14	410138027046

Pneumatic actuated V-port ball valves

For the features of the different components of the following actuated valves, please refer to the pages listed below:
746 XS stainless steel ball valves (page 93); **703 XS** stainless steel ball valves (page 94); **APS** spring return pneumatic actuators (page 73); **R99E** & **YT 3300** electropneumatic positioners (page 77); **SA05-PCU** proportional control unit electric actuator (page 115).

746 XS - V-port stainless steel ball valve BSP

+ APS spring return pneumatic actuator.
+ R99E electropneumatic positioner 4-20 mA.

DN	V-ball	Kv (m³/h)	actuator	code
1/2"	30°	5,1	APS42	272642017104V31
1/2"	60°	10,1	APS42	272642017104V61
3/4"	30°	6,8	APS50	272643017106V31
3/4"	60°	14,5	APS50	272643017106V61
1"	30°	13,7	APS63	272644017107V31
1"	60°	24,5	APS63	272644017107V61
1" 1/2	30°	25,3	APS85	272646017109V31
1" 1/2	60°	47,9	APS85	272646017109V61
2"	30°	38,4	APS100	272647017110V31
2"	60°	81,4	APS100	272647017110V61

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

703 XS - V-port stainless steel ball valve BSP

+ APS spring return pneumatic actuator.
+ R99E electropneumatic positioner 4-20 mA.

DN	V-ball	Kv (m³/h)	actuator	code
1/2"	30°	5,1	APS50	271372017106V31
1/2"	60°	10,1	APS50	271372017106V61
3/4"	30°	6,8	APS50	271373017106V31
3/4"	60°	14,5	APS50	271373017106V61
1"	30°	13,7	APS63	271374017107V31
1"	60°	24,5	APS63	271374017107V61
1" 1/2	30°	25,3	APS85	271376017109V31
1" 1/2	60°	47,9	APS85	271376017109V61
2"	30°	38,4	APS100	271377017110V31
2"	60°	81,4	APS100	271377017110V61

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

746 XS - V-port stainless steel ball valve BSP

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

DN	V-ball	Kv (m³/h)	actuator	code
1/2"	30°	5,1	APS42	272642017104V34
1/2"	60°	10,1	APS42	272642017104V64
3/4"	30°	6,8	APS50	272643017106V34
3/4"	60°	14,5	APS50	272643017106V64
1"	30°	13,7	APS63	272644017107V34
1"	60°	24,5	APS63	272644017107V64
1" 1/2	30°	25,3	APS85	272646017109V34
1" 1/2	60°	47,9	APS85	272646017109V64
2"	30°	38,4	APS100	272647017110V34
2"	60°	81,4	APS100	272647017110V64

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

703 XS - V-port stainless steel ball valve BSP

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

DN	V-ball	Kv (m³/h)	actuator	code
1/2"	30°	5,1	APS50	271372017106V34
1/2"	60°	10,1	APS50	271372017106V64
3/4"	30°	6,8	APS50	271373017106V34
3/4"	60°	14,5	APS50	271373017106V64
1"	30°	13,7	APS63	271374017107V34
1"	60°	24,5	APS63	271374017107V64
1" 1/2	30°	25,3	APS85	271376017109V34
1" 1/2	60°	47,9	APS85	271376017109V64
2"	30°	38,4	APS100	271377017110V34
2"	60°	81,4	APS100	271377017110V64

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

Electric actuated V-port ball valves

746 XS - 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	272642023050V3P
1/2"	60°	10,1	SA05-PCU	272642023050V6P
3/4"	30°	6,8	SA05-PCU	272643023050V3P
3/4"	60°	14,5	SA05-PCU	272643023050V6P
1"	30°	13,7	SA05-PCU	272644023050V3P
1"	60°	24,5	SA05-PCU	272644023050V6P
1" 1/2	30°	25,3	SA05-PCU	272646023050V3P
1" 1/2	60°	47,9	SA05-PCU	272646023050V6P
2"	30°	38,4	SA05-PCU	272647023050V3P
2"	60°	81,4	SA05-PCU	272647023050V6P

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

703 XS - V-port stainless steel ball valve BSP

+ SA05-PCU electric actuator.

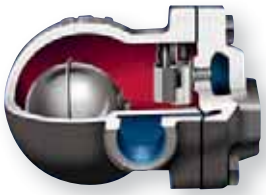
DN	V-ball	Kv (m³/h)	actuator	code
1/2"	30°	5,1	SA05-PCU	271372023050V3P
1/2"	60°	10,1	SA05-PCU	271372023050V6P
3/4"	30°	6,8	SA05-PCU	271373023050V3P
3/4"	60°	14,5	SA05-PCU	271373023050V6P
1"	30°	13,7	SA05-PCU	271374023050V3P
1"	60°	24,5	SA05-PCU	271374023050V6P
1" 1/2	30°	25,3	SA05-PCU	271376023050V3P
1" 1/2	60°	47,9	SA05-PCU	271376023050V6P

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

⚠ **Sizing & actuating depending on actual working conditions** (medium, temperature, pressure, flow).
⚠ **Please, consult for price & delivery time.**

A complete range of control valves available from stock or within short delivery time. To be selected among the following features:

- **Pneumatic or electric actuated**
- **2 way or 3 way**
- **Ductile iron, carbon steel or stainless steel**
- **PN16, PN40 or ANSI 150**



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25 years of experience

- Own engineering & testing departments.
- Inside manufacturer certified workshop (safety valves setting and certification).
- ISO 9001 : 2008 & ATEX certifications.

Bronze

681 / 682

97/23/EC Directive N°0036 - Risk category I / module A - CC491K 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.

NEW

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.

HIGH PRESSURE

684 - High pressure BSP

97/23/EC 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.

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

2420 - BFR - Coaxial

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 water.

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

CF8M body - Supplied with stainless steel pressure gauge indicating the dowstream pressure.

CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex | CTI

2430 - LPRV - Low pressure BSP

FKM seat - PS: 10 bar - TS: -15°C/+80°C - For all compatible clean fluids.

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

NEW

2441 - PRV-W

EPDM seat - PS: 16 bar - TS: -15°C/+80°C - For potable water.

ACS Drinking water

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.

Threaded BSP — Downstream pressure

Ø	face to face (mm)	weight (kg)	1 - 6 bar code	4 - 10 bar code	8 - 13 bar code
1/2"	70	0,80	244001	244002	244003
3/4"	85	1,00	244011	244012	244013
1"	90	1,05	244021	244022	244023
1"1/2	115	2,30	244031	244032	244033
2"	120	2,50	244041	244042	244043

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 NPT

FKM seat - PS: 16 bar - TS: -15°C/+100°C - For all compatible clean fluids.

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.

CE 0035 | ISO 9001 | 3.1 10 €/DN

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

NEW

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

SECTORIEL

Threaded

NUOVA GENERAL INSTRUMENTS

97/23/EC Directive N°0035 - 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 included in price -
⚠ **For settings above 12 bar please consult for price & delivery time.**

EAC | on request | CE 0035 | ISO 9001 | 3.1 10 €/DN | Zones 1, 2, 21, 22 on request

2800 - Brass - Free outlet BSP

CW614N body (stainless steel on request) - FKM seat - TS: -20°C/+200°C.

COMPRESSED AIR

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

2871 - Brass - Pipe outlet BSP

CW614N body - FKM seat - TS: -20°C/+200°C.

LIQUIDS

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

2851 / 2858 - Brass - Pipe outlet & lever BSP

CW614N body (stainless steel on request) - Standard settings 0,5 to 15 bar (every 0,5 bar): on stock.

STEAM

inlet Ø	outlet Ø	ref.	max. setting pressure (bar)	up to 6 bar code	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
				FKM + PTFE seat 165°C saturated steam	KALREZ seat 200°C saturated steam

2885 - Stainless steel - Pipe outlet BSP

F316 body - PTFE seat (other seats on request) - TS: -196°C/+250°C.

PROCESS

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"	G14	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.

Flanged

97/23/EC Directive - Risk category IV / module B+D - Bureau Veritas marine & offshore approval - 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 included in price.

CE 0045 | ISO 9001 | 3.1 10 €/DN

6301 - Cast iron - Flanged PN16

TÜV SV 96.894 approval - Flange connections: inlet RF PN16 / outlet RF PN10/16 - GG25 body - TS: -10°C/+200°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.

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

Same as 6301, except: EPDM tightness & TS: -10°C/+120°C.

NEW WATER

inlet DN	outlet DN	max. setting pressure (bar)	code
20	25	10	250420
25	32	10	250425
32	40	10	250432
40	50	10	250440
50	65	10	250450
65	80	10	250465
80	100	10	250480
100	125	10	250490
125	200	10	250491
150	250	10	250492

6302 - Carbon steel - Flanged PN40

TÜV SV 96.894 approval - Flange connections: inlet RF PN40 / outlet PN10/16 - 1.0619 carbon steel body - TS: -10°C/+300°C.

NEW

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
80	125	25	250580
100	150	20	250590
125	200	12,5	250591
150	250	10	250592

not on stock, on request.

Angle

Products excluded from 97/23/EC Directive risk category IV (not a safety device) - Pre-set pressure: 10 €/pc - Proportional opening - Adjustable pressure setting - Tight setting screw - PS: 20 bar.

CE 0036 | ISO 9001 | Ex on request

617 N - Bronze - NBR seat BSP

CC499K body - TS: -30°C/+130°C.

inlet Ø	Upstream pressure 0,5 - 2,5 bar code	2 - 12 bar code
3/8"	289201	289211
1/2"	289202	289212
3/4"	289203	289213
1"	289204	289214
1"1/4	289205	289215
1"1/2	289206	289216
2"	289207	289217

617 P - Bronze - PTFE seat BSP

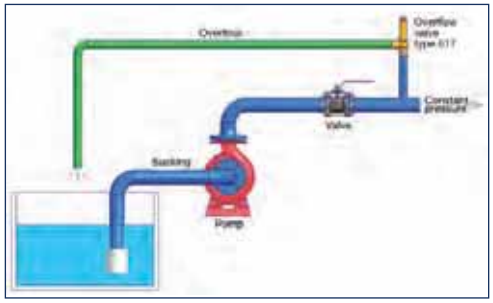
CC499K body - TS: -60°C/+225°C.

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



Straight

Products excluded from 97/23/EC Directive risk category IV (not a safety device) - Pre-set pressure: 10 €/pc - CF8M body - FKM seat - For clean fluids - Supplied with a Ø 63 stainless steel pressure gauge indicating the upstream pressure - Horizontal mounting.

CE 0035 | ISO 9001 | 3.1 10 €/DN

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	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"1/4	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	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.

NEW

2481 - LBPV - Low pressure BSP

PS: 10 bar - TS: -15°C/+80°C.

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

Vacuum & pressure valve

NEW

Excluded from 2014/68/EU Directive (art. 4, §3) - F316L body - FKM seat - TS: -10°C/+150°C.

S98 - Stainless steel BSP

DN	vacuum setting (bar)	pressure setting (bar)	code
1/2"	-0,05	+0,34	28904005

Overflow valves

SECTORIEL

2470 - BFS - Cast iron - Coaxial

CE 0035 | ISO 9001 | 3.1 10 €/DN

Flanged RF PN16 - Cast iron body, epoxy coated - Brass & bronze inner parts - NBR tightness - For clear water - 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.**

DN	Kv (m^3/h))	face to face (mm)	weight (kg)	Upstream pressure range 0,3 - 4 bar code	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.

Hammer arresters

SECTORIEL

Excluded from 97/23/EC Directive - 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. | ISO 9001

4510 - AIT - Bronze BSP

Bronze body - PS: 10 bar.

Ø	volume (cm^3)	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

CF8M body - PS: 12 bar.

Ø	volume (cm^3)	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 (cm^3)	code
80	2465	452008
100	5535	452009

Spare pressure gauge for 4520 BSP

Stainless steel case - 1/8".

code
981680

Gas equipment

SECTORIEL

■ Automatic solenoid valves

Excluded from 97/23/EC Directive (art. 1,§1) - ATEX cat. II 3G/D for zones 2 & 22 - For natural gas & lpg - Normally closed - Aluminium body - Closing time < 1 s - IP65 coil - PS: 360 mbar - TS: -20°C/+60°C. | EAC | SIL 2 | CE 0051 | EN 161 Class A Group 2 | Ex

EVP - 360 mbar

Built-in filter cartridge 50 µm for DN65 to 100.

DN	face to face (mm)	230V AC power VA	230V AC code	24V AC power VA	24V AC code
BSP					
1/2"	70	30/9	092402M	27/7	092412M
3/4"	70	30/9	092403M	27/7	092413M
1"	70	55/16	092404B	45/11	092414B
1"1/4	160	55/16	092405B	47/13	092415B
1"1/2	160	55/16	092406B	47/13	092416B
2"	160	55/16	092407B	47/13	092417B
Flanged RF PN16					
50	230	55/16	092302M	47/13	092312M
65*	290	290/75	092303M	185/50	092313M
80	310	290/75	092304M	185/50	092314M
100	350	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

97/23/EC Directive N°0051 - 2009/142/EC - ATEX cat. II 3G/D for zones 2 & 22 - For methane, natural gas, lpg - Aluminium body - Closing time < 1 s - IP65 coil - PS: 6 bar - TS: -20°C/+60°C.

EAC | SIL 2 | CE 0051 | EN 161 Class A Group 2 | Ex

EV-6 - 6 bar

Normally closed.

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.

NEW

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

97/23/EC Directive N°0497 - Risk category II / module D1 - ATEX cat. II 3G/D for zones 2 & 22 - 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 300 - IP 65 coil - Horizontal mounting solenoid coil on the top - Closing time < 1 s - Built-in short anti-disconnection device.

EAC | CE 0497 | EN 161 Class A Group 2 | Ex

M14/RM / M16/RM - Gas (natural gas & lpg)

DN	face to face (mm)	Working pressure 500 mbar 230V AC power VA	code	24V AC power VA	code	Working pressure 6 bar 230V AC power VA	code	24V AC power VA	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	092104B	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									
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.

M14/RM / M16/RM - Biogas

DN	face to face (mm)	Working pressure 500 mbar 230V AC power VA	code	24V AC power VA	code
BSP					
1/2"	70	9	092802BIO	8	092812BIO
3/4"	70	9	092803BIO	8	092813BIO
1"	90	9	092804BIO	8	092814BIO
1"1/4	160	9	092805BIO	8	092815BIO
1"1/2	160	9	092806BIO	8	092816BIO
2"	160	9	092807BIO	8	092817BIO
Flanged RF PN16					
65*	290	18	092903BIO	20	092913BIO
80	310	18	092904BIO	20	092914BIO
100	350	18	092905BIO	20	092915BIO
125	480	18	092906BIO	20	092916BIO
150	480	18	092907BIO	20	092917BIO
200	600	18	092908BIO	20	092918BIO
300	737	18	092909BIO	20	092919BIO

* 4 hole flanges.

not on stock, on request.

Micro shutt-off anti-disconnection device

Used for 230V AC solenoid coil up to 50W - Only for our range - Protection 1 to 3 s depending on power.

code
045006

Pressure reducing valves with built-in filter

97/23/EC Directive N°0497 - Risk category II / module D1 - 90/396/EC 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.

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	190-500	094047M
1"1/2	160	136	13-23	094008M	20-36	094018M	55-100	094028M	90-190	094038M	190-500	094048M
2"	160	212	13-23	094009M	20-36	094019M	55-100	094029M	90-190	094039M	190-500	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

97/23/EC Directive N°0497 - Risk category II / module D1 - 90/936/EC according to EN 126 - Impurities filtering - 50 µm filtering for 1/2" to DN100, 10 µm above - Aluminium body - FKM seat for biogas - Upstream pressure connection - PS: 2 bar or 6 bar - TS: -40°C/+70°C.

FM - Gas & biogas filter

DN	face to face (mm)	Gas				Biogas			
		PS 2 bar		PS 6 bar		PS 2 bar		PS 6 bar	
		code		code		code		code	
BSP									
1/2"	120	095004M		095104M		095004BIO		095104BIO	
3/4"	120	095005M		095105M		095005BIO		095105BIO	
1"	120	095006M		095106M		095006BIO		095106BIO	
1"1/4	160	095007M		095107M		095007BIO		095107BIO	
1"1/2	160	095008M		095108M		095008BIO		095108BIO	
2"	160	095009M		095109M		095009BIO		095109BIO	
Flanged RF PN16									
65*	290	095506M		095516M		095506BIO		095516BIO	
80	310	095507M		095517M		095507BIO		095517BIO	
100	350	095508M		095518M		095508BIO		095518BIO	
125	480	095509B		095519B		095509BIO		095519BIO	
150	480	095510B		095520B		095510BIO		095520BIO	
200	600	095511M		095521M		095511BIO		095521BIO	
300	737	095512M		095522M		095512BIO		095522BIO	

* 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 - IP66.

code
098301

Steam traps

Float

SK 51 - Ductile iron - PN16

Excluded from 97/23/EC Directive (art. 3 §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 (22 € additional).

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

97/23/EC Directive n°0036 - 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 (22 € additional).

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 40 - Ductile iron - PN16 - Closed free float

Excluded from 97/23/EC Directive (art. 3 §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

SK 70 - Carbon steel - PN25

Excluded from 97/23/EC Directive (art. 3 §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 (22 € additional).

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 97/23/EC Directive (art. 3 §3) - CF8M body - Stainless steel mechanism - PS: 25 bar - TS: +250°C - Built-in air eliminator - Horizontal mounting on stock - Vertical mounting on request (22 € additional).

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

BT 16 - Cast iron - PN16 - Reversed open float

Excluded from 97/23/EC Directive (art. 3 §3) - GG25 body - Stainless steel mechanism - PS: 16 bar - TS: +220°C - Built-in filter - Horizontal mounting.

Threaded BSP

Ø	face to face (mm)	Δp 4,5 bar code	Δp 10 bar code	Δp 14 bar code
1/2"	127	150504	150508	150512
3/4"	127	150514	150518	150522
1"	127	150524	150528	150532

Insulating jacket MI SK, see page 144

Thermostatic

TKK 2Y - Carbon steel

A105 body - Stainless steel mechanism - Built-in strainer - Thermostatic capsule in hastelloy and stainless steel - PS: 33 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

TKK 11 - Brass - Angle

CW617N body - Stainless steel mechanism - Built-in strainer - PS: 7 bar - TS: +200°C.

Threaded BSP

Ø	code
1/2"	152504

TKK 61 - Brass - Straight

CW617N body - Stainless steel mechanism - Built-in strainer - PS: 7 bar - TS: +200°C.

Threaded BSP

Ø	face to face (mm)	code
1/2"	76	152604

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
20	150	154020
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

Insulating jacket

MI SK

NEW

2 face silicone glass fabric - Kevlar thread - HT fiberglass rope - Pyrogel XT hydrophobe insulation - Thermic resistance : 1,5 m² k/W - TS: +120°C/+250°C.

Threaded

Ø	code
1/2"	181001
3/4"	181002
1"	181003

Flanged

DN	code
15	181004
20	181005
25	181006

DN	code
32	181007
40	181008
50	181009

Pressure reducing valves

BDV 25 - Ductile iron

ISO 9001 | 3.1 10 €/DN

For steam, compressed air & other gas - GGG40.3 body PN25 - Stainless steel mechanism - Built-in strainer - Locking device - PS: 17 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"	85	158041A	158042A	158043A
3/4"	98	158051A	158052A	158053A
1"	110	158061A	158062A	158063A

PRV-S - Stainless steel

ISO 9001 | 3.1 10 €/DN | Ex | CE

CF8M body - FKM/PTFE tightness - PS: 9 bar - TS: +180°C - Supplied with Ø 63 dry pressure gauge indicating the downstream pressure.

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

Separators

TÜV | CE 0036 | ISO 9001 | 3.1 10 €/DN

SPR 25 - Threaded BSP

Excluded from 97/23/EC (art. 3, §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

97/23/EC Directive N°0036 - 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. 3, §3	1,5	1/2"	1/2"	1560A015
20	230	art. 3, §3	2,9	1"	1/2"	1560A020
25	230	art. 3, §3	3,1	1"	1/2"	1560A025
32	250	II	5,2	1"	1/2"	1560A032
40	300	II	8,9	1"	1/2"	1560A040
50	310	II	9,7	1"	1/2"	1560A050
65	400	II	19,4	1"1/2	3/4"	1560A065
80	450	III	34,3	1"1/2	3/4"	1560A080
100	500	III	57,8	2"	1"	1560A100

Vacuum breakers

ISO 9001

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

Air vents

ISO 9001

PF 20 - Cast iron BSP

PS: 10 bar - TS: +120°C.

Ø	code
3/4"	PF20

HA 62 - Stainless steel BSP

CF8M body - Stainless steel mechanism - PS: 14 bar - TS: -10°C/+200°C.

Ø	code
3/4"	154810

Air treatment

Aluminium body - Polycarbonate bowl - Bowl protection: reinforced fiberglass nylon - Standard filtration: 5 µm - Regulator accuracy: 0,2 bar - PS: 0,5 to 10 bar - TS: 0°C/+50°C

ISO 9001

1700 - UFR + UL

With pressure gauge & bracket.

Ø	code
1/4"	170002
3/8"	170003
1/2"	170004
3/4"	170005
1"	170006

1705 - UF + UR + UL

With pressure gauge & bracket.

Ø	code
1/4"	170502
3/8"	170503
1/2"	170504
3/4"	170505
1"	170506

1720 - Filter regulator UFR

With pressure gauge & bracket.

Ø	code
1/4"	172002
3/8"	172003
1/2"	172004
3/4"	172005
1"	172006

1721 - Filter UF 40 µm

With bracket.

Ø	code
1/4"	172102
3/8"	172103
1/2"	172104
3/4"	172105
1"	172106

1725 - Regulator UR

With pressure gauge & bracket.

Ø	code
1/4"	172502
3/8"	172503
1/2"	172504
3/4"	172505
1"	172506

1726 - Lubricator UL

With bracket.

Ø	code
1/4"	172602
3/8"	172603
1/2"	172604
3/4"	172605
1"	172606

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

NEW

For compressed air or nitrogen - Low sensitivity to upstream pressure variations - PS: 10 bar - TS: -5°C/+60°C - Accuracy: ±0,5% - Supplied with pressure gauge & bracket.

ISO 9001

UR-P - Precision regulator

Ø	pressure gauge	code
1/4"	0,1 - 4 bar	176402
1/4"	0,05 - 2 bar	176412

Aluminium alloy body & bowl - Pressure range: 0,5-10 bar - Regulator accuracy: 0,2 bar - Standard filtration: 5 µm - Max. flow: 2080 l/mn for 1/4", 2100 l/mn for 3/8", 2600 l/mn for 1/2". PS: 10 bar - TS: -10°C/+60°C.

ISO 9001

1730 - NUFR + L

With pressure gauge & bracket.

Ø	code
1/4"	173002
3/8"	173003
1/2"	173004

1731 - NUFR

With pressure gauge & bracket.

Ø	code
1/4"	173102
3/8"	173103
1/2"	173104

1732 - NUF + R + L

With pressure gauge & bracket.

Ø	code
1/4"	173202
3/8"	173203
1/2"	173204

1733 - NUR regulator

With pressure gauge & bracket.

Ø	code
1/4"	173302
3/8"	173303
1/2"	173304

Filtration

NEW

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.

ISO 9001

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.

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: 32 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: +65°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"	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	9800	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

2210 - C 156 - Brass - With fins

ISO 9001 | 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

ISO 9001 | 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

CE 1115 | ISO 9001 | BSP

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

CE 0035 | ISO 9001 | BSP

GG20 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 | ISO 9001

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

ISO 9001 | BSP

A105 body & baffle - Double borosilicate glass - PS: 40 bar up to 3/4", 20 bar above - TS: +300°C.

STEAM

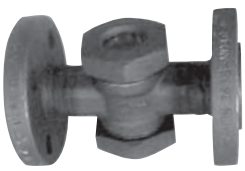
Ø	face to face (mm)	code
1/2"	90	223004
3/4"	90	223005
1"	100	223006

2235 - USV - Carbon steel - With steady baffles - Flanged PN40

CE | ISO 9001

A105 body - Double borosilicate glass - PS: 40 bar up to DN20, 20 bar above - TS: +300°C.

STEAM



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 | ISO 9001 | 3.1 10 €/DN | Ex

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 | ISO 9001 | 3.1 10 €/DN | Ex

CF8M body & flapper - Double tempered glass - One-way use only - Not for downward-flow - PS: 16 bar - TS: -10°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 | ISO 9001 | 3.1 10 €/DN | Ex

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	125	223808
2"	170	223809

2246 - SKB 2 ANSI - Stainless steel - With flapper - Flanged ANSI 150

CE 0035 | ISO 9001 | 3.1 10 €/DN | Ex

CF8M body & flapper - Double tempered glass - One-way use only - Not for downward-flow - PS: 16 bar - TS: -10°C/+180°C.

DN	face to face (mm)	code
15	130	2246015
20	130	2246020
25	170	2246025
40	200	2246040
50	320	2246050
80	270	2246080
100	320	2246100
150	420	2246102

2241 - NAW 2 - Stainless steel - With rotor BSP

ISO 9001

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

ISO 9001

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 | ISO 9001

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

2255 - SKI - Stainless steel SMS

ISO 9001

F316 body - Glass pipe - PS: 10 bar - TS: 140°C - For food industry - Not suitable for gas from group 1.

DN	face to face (mm)	code
25	150	2255025
38	158	2255038
51	162	2255051
63	162	2255063

Level gauges

CE 1115 ISO 9002

L 138 - Brass set BSP

CW614N body - Silicone tightness - PS: 10 bar - TS: +90°C - ⚠ **Does not include pipe.**

DN	pipe ø	code
3/8"	13	2310313
1/2"	16	2310416

L 146 - Level gauge BSP

CW614N brass body - Plexiglass pipe - PS: 10 bar - TS: +90°C.

DN	height (mm)	code
1/4"	100	2309210
3/8"	150	2309315
1/2"	200	2309420
1/2"	250	2309425
1/2"	300	2309430

L 135 - Brass set with valves BSP

CW614N brass body - Needle valves - Silicone gasket - PS: 10 bar - PS: +90°C - ⚠ **Does not include pipe.**

DN	pipe ø	code
1/4"	10	2311210
3/8"	13	2311313
1/2"	13	2311413
1/2"	16	2311416
3/4"	18	2311518
3/4"	20	2311520

T 154 - Plexiglass pipe

1000 mm length - TS: +90°C.

pipe ø	code
10	23181010
13	23181310
16	23181610
18	23181810
20	23182010

151 - Fitting for L135 or T154 BSP

DN	pipe ø	code
1/2"	13	2317413
1/2"	16	2317416
3/4"	18	2317518
3/4"	20	2317520

2319 - Brass U protection pipe

1000 mm length.

pipe ø	code
10	23191010
13	23191310
16	23191610
18	23191810
20	23192010

2312 - Stainless steel set BSP

F316 body - Needle valve & drainer cap - FKM & PTFE gaskets - sleek pipe - PS: 16 bar -TS: -50°C/+200°C.
⚠ **Does not include pipe.**

DN	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.

2314 - Glass pipe

Pyrex® glass - 1500 mm length - PS: 10 bar - TS: +500°C.

pipe ø	thickness (mm)	code
10	1,5	23141015
13	2,2	23141315
14	2,2	23141415
15	2,5	23141515
16	2,5	23141615
18	2,5	23141815
20	2,5	23142015
24	2,5	23142415

+ 11 € to be added for glass pipe cutting.
+ 15 €/pc to be added for special packaging.

MG 33 - Stainless steel magnetic Flanged PN16

Stainless steel body & float - Aluminium scale - Plexiglas glass - Stainless steel bottom flanged drain cap - Min. fluid density: 0,8 - PS: 16 bar - TS: +180°C.

DN	length (mm)	code
20	800	23201080
20	1000	23201100
20	1200	23201120

GL CE 0036 ISO 9001 AYVAZ

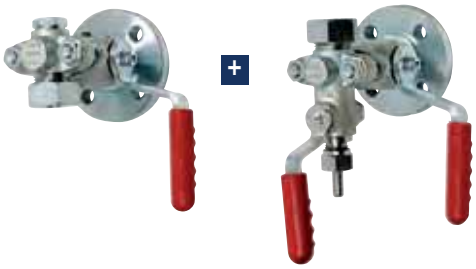
Bistable switch

To be mounted on lateral rail gauge.

code
2328001

Spare float

code
981200



2315 - NX - Carbon steel valves

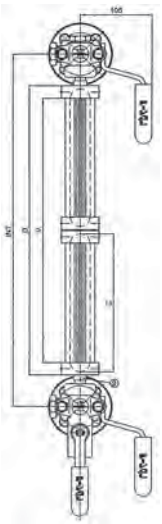
Flanged PN40 - A105 body - Set of upper/lower valves & drainage valve - Plug valve - Graphite tightness - For level gauge box with Ø 16 pipes - PS: 40 bar - TS: -25°C/+425°C.

DN	code
15	2315SUPINFBR15
20	2315SUPINFBR20
25	2315SUPINFBR25

2320 - RBF - Reflex - Carbon steel

Carbon steel body - Borosilicate reflex glass 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	1059	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

23509 - Borosilicate reflex glasses

ISO 9001

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 A DIN 7081 - Width: 30 mm - Wired graphite glass gasket & support gasket - Connection to NX valves with Ø 16 pipes - Length: 60 mm - PS: 64 bar - TS: +243°C.

size	int. min. (mm)	C (mm)	D (mm)	V (mm)	code
5	340	220	233	196	2330TRANA1T5
6	370	250	263	226	2330TRANA1T6
7	400	280	293	256	2330TRANA1T7

23519 - Borosilicate transparent glasses

ISO 9001

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

Combined with transparent glasses - According to DIN 7081 - Width: 34 mm - Thickness: 0,15-0,20 mm.

ISO 9001

length (mm)	code
115	2352901
140	2352902
165	2352903
190	2352904
220	2352905
250	2352906
280	2352907
320	2352908
340	2352909

Water meters

Excluded from 2014/68/UE Directive (art. 1, §2.b) - EU 75/33 ISO 4064 - Cast iron body - Flanged RF PN10/16 - Magnetic transmission - PS: 16 bar.

WRAS ISO 9001

■ High flow - Woltman

Axial helicoid - Tight dial - Cold water: 0°C/+30°C - Hot water: +30°C/+90°C - MID 2004/22/CE.

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

■ High flow - Woltman - Pulse transmitter

Axial helicoid - Tight dial - Cold water: 0°C/+30°C - Hot water: +30°C/+90°C - MID 2004/22/CE - REED contact for pulse transmitter.

Cold water - MID R100
Hot water - MID R100

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	hot water code 1 x 100 l	hot water code 1 x 1000 l
50	200	40	50	1758050	-	1748050	-
65	200	63	78,7	1758065	-	1748065	-
80	225	100	125	1758080	-	1748080	-
100	250	160	200	1758100	-	1748100	-
125	300	160	200	1758126	-	1748126	-
150	300	250	312,5	1758151		1748151	-
200	350	400	500	-	1758200	-	1748200

■ Irrigation

Tangential helicoid - Dry dial - Class A - Horizontal mounting - Pre-equipped for pulse transmitter - TS: 0°C/+50°C.

Cold water - Class A

DN	length (mm)	nominal flow (m^3/h)	max. flow (m^3/h)	code 1 x 100 l	code 1 x 1000 l
50	200	35	70	1720050	-
65	200	50	100	1720065	-
80	225	75	150	1720080	-
100	250	125	250	1720100	-
125	250	175	350	-	1720125
150	300	250	500	-	1720150
200	350	450	900	-	1720200

■ Irrigation - Pulse transmitter

Tangential helicoid - Dry dial - Class A - Horizontal mounting - REED contact for pulse transmitter - TS: 0°C/+50°C.

Cold water - Class A

DN	length (mm)	nominal flow (m^3/h)	max. flow (m^3/h)	code 1 x 100 l	code 1 x 1000 l
50	200	35	70	1724050	-
65	200	50	100	1724065	-
80	225	75	150	1724080	-
100	250	125	250	1724100	-
125	250	175	350	-	1724125
150	300	250	500	-	1724150
200	350	450	900	-	1724200

Pulse transmitter

code
9811017

Threaded water meters, see page 276.

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 (l/min)	code
1/4"	water	0,4-4	2281004SE
1/4"	water	0,8-8	2281005SE
1/4"	air	10-100	2281006SE
1/4"	air	25-250	2281007SE

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 - 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 - Accuracy: +/-5% - Vertical position, upward-flow / horizontal position, fluid direction: left to right - PS: 16 bar - TS: -5°C/+80°C.

Ø	flow (l/min)	face to face (mm)	code
1/2"	5-50	134	22852050
3/4"	10-100	170	22853100
1"	15-150	170	22854150
1"1/4	20-200	178	22855200
1"1/2	25-250	178	22856250

Alarm contact for SF flowmeters

Ø	code
1/2"	986080
3/4"	986081
1"	986081
1"1/4	986081
1"1/2	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 IP65 - ⚠ **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

Flussostat

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

Thermometers

■ Digital

TD 915

LCD screen with h=18 mm characters & permanent display - Adjustable stainless steel Ø 100 screen housing - IP65 - Stainless steel plunger L=100 mm - 1/2" connection - Supplied with lithium AA 1,5V battery (3-4 years duration) - TS: -10°C/+40°C - Tempature range: -50/+150°C.

code
138001

■ Vertical BSP

Excluded from 2014/68/EU (art. 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. ISO 9001

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

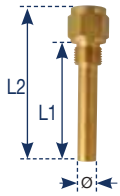
scale	plunger L (mm)	code
0°C/+120°C	63	1675001
-30°C/+50°C	63	1675002
0°C/+120°C	100	1677001
-30°C/+50°C	100	1677002

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/+300°C	63	1671004
0°C/+120°C	100	1673001
-30°C/+50°C	100	1673002
0°C/+200°C	100	1673003
0°C/+300°C	100	1673004

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

■ Bi-metallic - Stainless steel BSP

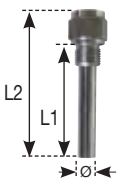
Excluded from 2014/68/EU (art. 4, §3) - Class 2 - IP31 - For severe condition gases & liquids - Instrumentation glass - Stainless steel F304 case mechanism & fitting 1/2" - Duralium dial & needle - Plunger Ø 8 mm - Tight welded pipe - PS: 40 bar - TS: -30°C/+200°C. ISO 9001

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
1/2"	65	90	77	9880210
1/2"	86	110	100	9880211

Pressure switches

ELT - Control pressure switch BSP

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 - Fluid connection: brass BSP female 1/4" for ELT-35 & ELT-36, brass BSP male 1/4" for ELT-37 & ELT-38.

pressure setting	differential	code
-0,2 - 8 bar	0,6 - 3 bar	132001SE
5 - 16 bar	1 - 3,5 bar	132002SE
5 - 28 bar	2 - 10 bar	132003
5 - 50 bar	2 - 15 bar	132004

MDR - Process pressure switch BSP

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: -20°C/+70°C - Process connections 1/4" - Gland pack M20 electric connection.

pressure setting	differential	code
1 - 12 bar	0,5 - 0,8 bar	1320501

Pressure transmitters

DPG - Digital pressure gauge - Ø 80 BSP

ABS case - Accuracy: +/- 1 % - Digital screen display - Programmable display pressure unit - Battery 9V DC - TS: -10°C/+200°C - Ambient T: -10°C/+75°C - Fluid connection: stainless steel 1/4" male.

scale (bar)	code
0/4	131101SE
0/10	131102SE
0/20	131103SE

DPGPT - Digital transmitter - Ø 80 BSP

ABS case - Accuracy: +/- 1 % - Digital screen display - Programmable display pressure unit - 24V DC with 1,5 m wire - Analog output 4-20 mA - TS: -10°C/+200°C - Ambient T: -10°C/+75°C - Fluid connection: stainless steel 1/4" male.

scale (bar)	code
0/4	131201
0/10	131202
0/20	131203

PT 5000 - Pressure transmitter BSP

Stainless steel 316 body - Accuracy: +/- 0,2 % - 11-36V DC - Output: 2 threads 4-20 mA - TS: -40°C/+120°C - Electric connection: PG11 mini connector - Process connection: 1/2".

scale (bar)	code
0/6	131001SE
0/10	131002SE
0/16	131003SE

PT 3100 - Pressure transmitter BSP

Stainless steel 316 body - Accuracy: +/- 0,5 % - 11-30V DC - Output: 2 threads 4-20 mA - TS: -10°C/+80°C - Electric connection: DIN mini connector - Process connection: 1/4".

scale (bar)	code
0/6	131830
0/10	131831
0/16	131832
0/25	131833

Pressure gauges

■ ABS plastic case - Dry BSP

Excluded from 2014/68/EU Directive (art. 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.

ISO 9001

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	0/360	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	0/360	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 BSP

Excluded from 2014/68/EU Directive (art. 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 100C°).

ISO 9001

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 (art. 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.

ISO 9001

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	0/360	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
0/6	0/90	M1623005NPT
0/10	0/150	M1623006NPT
0/16	0/230	M1623007NPT

NPT

1615 - Radial - Ø 100

Class 1,6 - 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 (art. 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.

ISO 9001

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 - 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 (art. 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.

ISO 9001

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

Stainless steel case - Dry - For steam BSP

Excluded from 2014/68/EU (art. 4, §3) - Accuracy class according to EN 837-1 - For steam - TS: +180°C.

ISO 9001

Radial - Ø 100

Class 1,6 - Connection 1/2" - TS: +180°C - To be installed with coil siphon.

scale (bar)	code
0/10	981703
0/25	981705

Coil siphon

DIN 16282 C type - M1/2" x F1/2" - TS: +300°C (at 80 bar).

	code
Carbon steel	981712
Stainless steel	981713

Pressure gauge valve

DIN 16270 A type - Carbon steel body - M1/2" x F1/2" - PS: 400 bar - TS: +200°C.

	code
Carbon steel	981710
Stainless steel	981717

Full stainless steel - Adjustable & refillable BSP

Excluded from 2014/68/EU Directive (art. 4, §3) - Accuracy class according to EN837-1 - For non-viscous & non-crystallizing aggressive fluids - F304 stainless steel case - F316 Bourdon tube and mechanism - Security glass window - Aluminium dial & pointer - Adjustable screw for calibration - TS: -20°C/+100°C.

1616 XS - Radial - Ø 63

Class 1,6 - Connection 1/4".

scale (bar)	range (psi)	code
-1/+1	-15/15	XS1616001
0/1,6	0/23	XS1616002
0/2,5	0/35	XS1616003
0/4	0/60	XS1616004
0/6	0/90	XS1616005
0/10	0/150	XS1616006
0/16	0/230	XS1616007
0/25	0/350	XS1616008
0/40	0/600	XS1616009

1617 XS - Radial - Ø 100

Class 1,6 - Connection 1/2".

scale (bar)	range (psi)	code
-1/+1	-15/15	XS1617001
0/1,6	0/23	XS1617002
0/2,5	0/35	XS1617003
0/4	0/60	XS1617004
0/6	0/90	XS1617005
0/10	0/150	XS1617006
0/16	0/230	XS1617007
0/25	0/350	XS1617008
0/40	0/600	XS1617009

Calibration & certificate.	code
	999ETM

Full stainless steel - With contacts BSP

Accuracy class according to EN 837-1 - Stainless steel F304 case - Stainless steel F316 pipe & movement - Securit glass indicator - Double scale bar/psi - 2 adjustable dry contacts on/off + connector + 0,5 m wire - Shut-off: 30W-50VA - TS: -20°C/+100°C.

1617 S - Radial - Ø 100

Class 1,6 - Connection 1/2".

scale (bar)	range (psi)	code
0/10	0/150	S1617006
0/16	0/230	S1617007

Membrane separators for BSP pressure gauges

General process

DT 110 - Dismountable BSP

Stainless steel 316 dismountable body - Stainless steel 316L membrane - PS: 40 bar - TS: -40°C/+150°C - **Supplied without pressure gauge.**

connection		range (bar)		code
mano.	process	min.	max.	
F1/2"	M1/2"	0/10	0/40	S165000
F1/4"	M1/4"	-1/0	0/40	S165001
F1/2"	M1/4"	-1/0	0/40	S165002
F1/2"	M1/2"	-1/0	0/40	S165003

DT 108 - Welded BSP

Stainless steel 316 welded body - Stainless steel 316L membrane - PS: 40 bar - TS: -40°C/+150°C - **Supplied without pressure gauge.**

connection		range (bar)		code
mano.	process	min.	max.	
F1/4"	M1/4"	0/1,6	0/40	S165100
F1/2"	M1/2"	0/1,6	0/40	S165101

DT 103 - Mini BSP

Stainless steel 316 body - Stainless steel 316L membrane - PS: 350 bar - TS: -40°C/+150°C - **Supplied without pressure gauge.**

connection		range (bar)		code
mano.	process	min.	max.	
F1/2"	M1/2"	0/25	0/350	S165200
F1/2"	M3/4"	0/10	0/200	S165201
F1/2"	M1"	0/4	0/60	S165202

DT 122 - Flanged PN16/40

Stainless steel 316 body - Stainless steel 316L membrane - PS: 40 bar - TS: -40°C/+150°C - **Supplied without pressure gauge.**

connection		range (bar)		code
mano.	process	min.	max.	
F1/4"	DN15	0/10	0/40	S165300
F1/2"	DN15	0/10	0/40	S165301
F1/2"	DN20	0/6	0/40	S165302
F1/2"	DN25	0/6	0/40	S165303

Mounting of compatible pressure gauge on separator (only 1616 XS & 1617 XS) + checking.	code
	999SEP2

Food process

DT 105 SMS

Stainless steel 316 body - Stainless steel 316L membrane - PS: 40 bar - TS: -40°C/+150°C - Process connection: female SMS - **Supplied without pressure gauge.**

connection		range (bar)		code
mano.	process	min.	max.	
F1/2"	F1/2" SMS	0/6	0/40	S165500
F1/2"	F2" SMS	-1/1,5	0/16	S165501

DT 106 - Clamp connection

Stainless steel 316 body - Stainless steel 316L membrane - PS: 40 bar - TS: -40°C/+150°C - Process connection: clamp - **Supplied without pressure gauge.**

connection		range (bar)		code
mano.	process	min.	max.	
F1/2"	1"1/2 clamp 50,5	0/6	0/40	S165400
F1/2"	2" clamp 64	-1/1,5	0/16	S165401

Mounting of compatible pressure gauge on separator (only 1616 XS & 1617 XS) + refilling with alimentary oil + checking.	code
	999SEP3

Accessories for pressure gauges BSP

Brass decompression valves
PS: 16 bar - TS: +90°C.

1305 - Female/female

Ø	length (mm)	code
1/4"	46	1305002
3/8"	50	1305003
1/2"	56	1305004

1306 - Male/female

Ø	length (mm)	code
1/4"	46	1306002
3/8"	50	1306003
1/2"	56	1306004

1307 - Male/female

Ø	length (mm)	code
1/4"	60	1307002
1/2"	68	1307004

High pressure brass valves
PS: 250 bar - TS: -10°C/+120°C.

1390 - Male/female with stretcher nut

Ø	length (mm)	code
1/2"	119	1390004

1391 - Male/female with stretcher nut & control flange

Ø	length (mm)	code
1/2"	119	1391004

Stainless steel valves
PS: 40 bar - TS: 160°C.

1303 - Male/female

Ø	code
1/4"	A1303002
1/2"	A1303004

1303 - Male/female decompression

Ø	code
1/4"	A1303005
1/2"	A1303006

1304 - Female/female

Ø	code
1/4"	A1304002
1/2"	A1304004

Coil siphons

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

Pressure gauge support set

Ø	code
50	9880009
63	9880010
100	9880012

Copper - Male/female - PN25

Ø	code
1/4"	9880202
1/2"	9880204

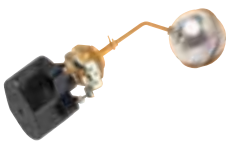
Carbon steel - U type - Male/male - PN25

Ø	code
1/4"	9880205
1/2"	9880206

Glycerine container 250 ml

code
9880401

Level switches



RL 2100 - Float BSP

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 BSP

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: -10°C/+120°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: +150°C.

code
101810

LT 201 - Full stainless steel BSP

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

LT 204 - Full stainless steel

Same as LT201, except: flanged PN10/16 & PS: 10 bar - TS: -20°C/+150°C.

DN	code
40	291040N
50	291050N
80	291080N
100	291100N

To be ordered by mentioned pack

Stainless steel threaded fittings - S-First

Excluded from 2014/68/UE Directive (art. 4, §3) - For all common fluids - Stainless steel body CF8M - PS: 20 bar - TS: -25°C/+180°C.

ISO 9001

NEW

Cast threaded fittings - 150 lbs BSP

2070 - Elbow 90° female/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	5	5	5	5
code	2070001	2070002	2070003	2070004	2070005	2070006	2070007	2070008	2070009

2072 - Elbow 90° male/female

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	26	28	30	34	38,5	45	52,5	56	68,5
pack	10	10	10	10	10	5	5	5	5
code	2072001	2072002	2072003	2072004	2072005	2072006	2072007	2072008	2072009

2071 - Tee female

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	34	38	46	50	55	66	80	86	104
pack	10	10	10	10	10	5	5	5	5
code	2071001	2071002	2071003	2071004	2071005	2071006	2071007	2071008	2071009

2090 - Female 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

2076 - Male 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 - Male hexagonal plug (plain)

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

2089 - Hexagonal nut

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

2084 - Hexagonal bush

Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	20	25	27	34	36,5	42	47,5	47,5	57
pack	10	10	10	10	10	5	5	5	5
code	2084001	2084002	2084003	2084004	2084005	2084006	2084007	2084008	2084009

NEW

2088 - Male hose nozzle

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Ø hose	8	10	13	20	25	32	40	52
length (mm)	34,5	41	48,5	58	67	70	74	83
pack	10	10	10	10	5	5	5	5
code	2088002	2088003	2088004	2088005	2088006	2088007	2088008	2088009

2073 - Reduced bush 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 reduced bush 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

2087 - Reduced bush 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

2075 - Reduced bush male/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)	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

2078 - Double reduced bush male/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)		16,5	19,5	21	24	27,5	28,5	32
pack		10	10	10	5	5	5	5
code		2078003	2078004	2078005	2078006	2078007	2078008	2078009

2085 - Reduced bush male/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)	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 reduced bush male/male

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

To be ordered by mentioned pack

Stainless steel threaded fittings

Excluded from 2014/68/EU Directive (art. 4, §3) - For all common fluids from Group 2 & liquids froms Group 1 - F316 body for forged fittings, CF8M body for cast fittings - PS: 20 bar - TS: -25°C/+180°C.

ISO 9001

Forged threaded fittings - 150 lbs BSP

2039 - Standard welding 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)	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

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

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

Cast threaded fitting - 150 lbs BSP

2015 - Bright 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	26,5	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

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

2001 - Elbow 90° 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 - Elbow 90° 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 - Female tee

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

NEW

2002 - 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

2037 - Hexagon cap female

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

2022 - Hexagon 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 - Hexagon plug (plain)

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

NEW

2020 - Square head cap male

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

2036 - Hexagon nut

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	2036001	2036002	2036003	2036004	2036005	2036006	2036007	2036008	2036009

2030 - Hexagon 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

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

2013 - Reduced nipple 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 reduced nipple 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

2033 - Reduced nipple 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

2021 - Reduced bush male/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	5	5	5	5
code	2021002	2021003	2021004	2021005	2021006	2021007	2021008	2021009

2024 - Double reduced bush male/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	2024003	2024004	2024005	2024006	2024007	2024008	2024009

2031 - Reduced nipple male/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	5	5	5	5
code	2031002	2031003	2031004	2031005	2031006	2031007	2031008	2031009

2032 - Double reduced nipple male/male

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

Individual packing

Excluded from 2014/68/EU Directive (art. 4, §3) - For all common fluids from Group 2 & liquids froms Group 1 - CF8M body - Conical bearing - PS: 20 bar - TS: -25°C/+180°C.

ISO 9001

■ Cast 3 piece unions - 150 lbs BSP

2025 - 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

2026 - 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

2062 - 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

2027 - Male/butt welding BW

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 - Female/butt welding BW

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

2029 - Butt welding/butt welding BW

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

Individual packing

Excluded from 2014/68/EU Directive - For all common fluids - F316L body - Conical bearing - PS: 60 bar - TS: -25°C/+180°C.

ISO 9001

■ Forged 3 piece unions - 1000 psi BSP

2065 - 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

2066 - 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

2064 - 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

2068 - Female/butt welding BW

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	2068208	2068310	2068415	2068520	2068625	2068732	2068840	2068950

2067 - Male/butt welding BW

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
length (mm)	40	47	52	59	64	65	65	73
code	2067208	2067310	2067415	2067520	2067625	2067732	2067840	2067950

2069 - Butt welding/butt welding BW

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

Guillemin symmetrical couplings

Individual packing

NF-EN 29572 - For irrigation, fire network, hydrocarbon & common fluids.

ISO 9001

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

Aluminium BSP

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	100/100
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

Stainless steel CF8M BSP

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	100/100
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

Cam-lock couplings

Individual packing

Excluded from 2014/68/EU Directive (art. 4, §3) - MIL-C-27487 & A-A-59326 - For all common fluids.

ISO 9001

Brass BSP

Brass body - Brass cams - NBR gasket (for coupling) - PS: see chart below - TS: -10°C/+60°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

Aluminium BSP

Aluminium body - Brass cams - NBR gasket (for coupling) - PS: see chart below - TS: -10°C/+60°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

Stainless steel CF8M body & cams - NBR gasket (for coupling) - PS: see chart below - TS: -10°C/+60°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

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
PTFE + FKM code	9830880	9830881	9830882	9830883	9830884	9830885	9830886	9830887	9830888

Express fittings

Individual packing

Excluded from 2014/68/EU Directive (art. 4, §3) - Brass: for water & compressed air - Distance between claws: 41 mm - NFE 29573 -
⚠ **Not compatible with DIN standard.**

ISO 9001

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

Brass - With NBR gasket

PS: 10 bar - TS: -5°C/+60°C.

2280 - Hose coupling

Ø	7	9	11	13	16	19	22	25
code	2280007	2280009	2280011	2280013	2280016	2280019	2280022	2280025

2281 - Male coupling BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4
code	2281002	2281003	2281004	2281005	2281006	2281007

2282 - Female coupling BSP

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4
code	2282002	2282003	2282004	2282005	2282006	2282007

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

Spare gasket Ø 22 - NBR

for all references	
code	9830984

Black gasket Ø 16 w/ reduced hole - NBR

for all references	
code	9830983

2283 - Cap coupling

for all references	
code	2283001

Individual packing

Excluded from 2014/68/EU Directive (art. 4, §3) - Stainless steel: for all common fluids - Distance between claws: 41 mm - NFE 29573 -
⚠ **Not compatible with DIN standard.**

ISO 9001

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

2292 - Female coupling BSP

Ø	1/2"	3/4"	1"
code	2292004	2292005	2292006

2291 - Male coupling BSP

Ø	1/2"	3/4"	1"
code	2291004	2291005	2291006

2293 - Cap coupling

for all references	
code	2293001

Spare gasket Ø 15 - FKM

for all references	
code	9830986

Butt welding carbon steel flanges

2100 - Single flange PN10/16 up to DN150, PN16 above

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
holes	4	4	4	4	4	4	4	8	8	8	8	12	12	12
code	2100015	2100020	2100025	2100032	2100040	2100050	2100065	2100080	2100100	2100125	2100150	2100200	2100250	2100300

2101 - Single flange PN10

DN	200	250	300
holes	8	12	12
code	2101200	2101250	2101300

2105 - Single flange PN25/40

DN	15	20	25	32	40	50	65	80	100	125	150	200/25	200/40
holes	4	4	4	4	4	4	4	8	8	8	8	12	12
code	2105015	2105020	2105025	2105032	2105040	2105050	2105065	2105080	2105100	2105125	2105150	2105201	2105200

Flat stainless steel F316L flange

3.1
10 €/DN

2109 - Single flange PN16

DN	15	20	25	32	40	50	65	80	100	125	150	200
holes	4	4	4	4	4	4	4	8	8	8	8	12
code	2109015	2109020	2109025	2109032	2109040	2109050	2109065	2109080	2109100	2109125	2109150	2109200

Flange gasket

98021 - Universal gasket

For water, oil, steam, gas - PS: 40 bar - TS: 150°C.

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
code	9802104	9802105	9802106	9802107	9802108	9802109	9802110	9802111	9802112	9802113	9802114	9802115	9802116	9802117

Bolts sets

2103 - Bolts set for flanged PN16 valves

DN	40	50	65	80	100	125	150	200
dimension	16x50	16x50	16x60	16x60	16x60	16x70	20x70	20x70
number of bolts	8	8	8	16	16	16	16	24
code	2103040	2103050	2103065	2103080	2103100	2103125	2103150	2103200

2110 - Bolts set for wafer butterfly valves

DN	40	50	65	80	100	125	150	200	250	300
dimension	16x90	16x100	16x110	16x110	16x120	16x130	20x140	20x140	20x160	20x160
number of bolts	4	4	4	8	8	8	8	8	12	12
code	2110040	2110050	2110065	2110080	2110100	2110125	2110150	2110200	2110250	2110300

2111 - Bolts set for lug butterfly valves

DN	40	50	65	80	100	125	150	200	250	300
dimension	16x30	16x35	16x35	16x40	16x40	16x45	20x45	20x45	20x50	20x60
number of bolts	8	8	8	16	16	16	16	16	24	24
code	2111040	2111050	2111065	2111080	2111100	2111125	2111150	2111200	2111250	2111300

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97/23/EC Directive - Risk category I / module A.

CE ISO 9001

NEW

W1 - PVC-U

PVC-U body & ball - TPV seat - EPDM gaskets - ABS lever - Full bore -
Supplied with solvent cement socket ends as standard (option for threaded unions) - 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
compulsory pack	72	60	45	24	16	12	1	1	1
code	5100WC015	5100WC020	5100WC025	5100WC032	5100WC040	5100WC050	5100WC065	5100WC080	5100WC100
spare threaded union	ECL1CT02	ECL1CT03	ECL1CT04	ECL1CT05	ECL1CT06	ECL1CT07	ECL1CT08	ECL1CT09	ECL1CT10

NEW

KVS1 - PVC-U

Microvalve - 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.

Ø	1/4"	1/2"
code	5100KT00	5100KT02

CL1 - PVC-U

PVC-U body & ball - PTFE seats - EPDM or FKM gaskets - ABS lever - Full bore - Anti-UV protection -
Supplied with solvent cement socket ends as standard (option for threaded unions) - 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 - PTFE seats - Full bore - EPDM or FKM gaskets - ABS lever - Supplied with solvent cement socket ends as standard (option for threaded unions) - PS: 10 bar up to DN65, 6 bar above - 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 gaskets code	5110SC015	5110SC020	5110SC025	5110SC032	5110SC040	5110SC050	5110SC065	5110SC080	5110SC100
FKM gaskets code	5111SC015	5111SC020	5111SC025	5111SC032	5111SC040	5111SC050	5111SC065	5111SC080	5111SC100
spare threaded union	ECL1PT02	ECL1PT03	ECL1PT04	ECL1PT05	ECL1PT06	ECL1PT07	ECL1PT08	ECL1PT09	ECL1PT10

Spare PE electrofusion welding male socket

For CL1 - PVC-U & CL1 - PP.

d (mm)	15	20	25	32	40	50	65	80	100
code	ECL1EP020	ECL1EP025	ECL1EP032	ECL1EP040	ECL1EP050	ECL1EP063	ECL1EP075	ECL1EP090	ECL1EP110

NEW

Spare PVC-U extension stem

For CL1 - PVC-U & CL1 - PP - 100 mm.

d (mm)	15	20	25	32	40	50	65	80	100
code	065541	065542	065543	065544	065545	065546	065547	065548	065549

Ball valves

SECTORIEL

C200 - PVC-U

PVC-U body, ball & stem - PTFE seats - EPDM or FKM gaskets - ABS lever - Supplied with solvent cement socket ends as standard (option for threaded unions) - 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	5101AC010	5101AC015	5101AC020	5101AC025	5101AC032	5101AC040	5101AC050
NEW spare threaded union	-	EC20CT02	EC20CT03	EC20CT04	EC20CT05	EC20CT06	EC20CT07

C200 - PP

PP body, ball & stem - PTFE seats - EPDM or FKM gaskets - ABS lever - Supplied with solvent cement socket ends - 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

NEW

For C200 - PVC-U & C200 - PP.

d (mm)	15	20	25	32	40	50
code	EC20EP020	EC20EP025	EC20EP032	EC20EP040	EC20EP050	EC20EP063

Butterfly valves

SECTORIEL

97/23/EC Directive - Risk category I / module A.

CE ISO 9001

PL1 - PVC-U

Between flanges PN10 - PVC-U body - Reinforced PP butterfly - EPDM or FKM seat - Stainless steel stem - Anti-UV protection - ABS lever up to DN200, cast iron gearbox above - PS: 10 bar - 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	43	46	49	58	64	70	88	98	108
EPDM seat code	5300SW040	5300SW050	5300SW065	5300SW080	5300SW100	5300SW125	5300SW150	5300SW200	5300SW250	5300SW300
FKM seat code	5301SW040	5301SW050	5301SW065	5301SW080	5301SW100	5301SW125	5301SW150	5301SW200	-	-

PVC PN10 flanges set

NEW

DN	40	50	65	80	100	125	150	200
code	982030	982031	982032	982033	982034	982035	982036	982037

PL1 - PP

Between flanges PN10 - PP body - Reinforced PP butterfly - EPDM or FKM seat - Stainless steel stem - ABS lever up to DN200, cast iron gearbox above - PS: 10 bar - TS: +10°C/+80°C.

d (mm)	50	63	75	90	110	140	160	225
DN	40	50	65	80	100	125	150	200
face to face (mm)	34	43	46	49	58	64	70	88
EPDM seat code	5310SW040	5310SW050	5310SW065	5310SW080	5310SW100	5310SW125	5310SW150	5310SW200
FKM seat code	5311SW040	5311SW050	5311SW065	5311SW080	5311SW100	5311SW125	5311SW150	5311SW200

Knife gate valve

Excluded from 2014/68/EU Directive (article 4, §3).

CE ISO 9001

VG1 - PVC-U

PVC-U body - PVC-U gate for DN80, stainless steel 304 gate above - EPDM seat - Lever operated - Solvent cement socket connections - PS: 6 bar - TS: 0°C/+55°C.

d (mm)	90	110	160
DN	80	100	150
code	5300PF080	5300PF100	5300PF150

Membrane valves

CE ISO 9001

MV310 - PVC-U

PVC-U body - EPDM membrane & gaskets or PTFE membrane & FKM gaskets - Supplied with solvent cement socket connections up to DN50, with male connections above - PS: 10 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
EPDM membrane code	5400CC015	5400CC020	5400CC025	5400CC032	5400CC040	5400CC050	5400CM065	5400CM080	5400CM100
PTFE membrane code	5402CC015	5402CC020	5402CC025	5402CC032	5402CC040	5402CC050	5402CM065	5402CM080	5402CM100

MV310 - PP

PP body - EPDM membrane & gaskets or PTFE membrane & FKM gaskets - Supplied with solvent cement socket connections up to DN50, with male connections above - PS: 10 bar - 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 membrane code	5410CC015	5410CC020	5410CC025	5410CC032	5410CC040	5410CC050	5410CM065	5410CM080	5410CM100
PTFE membrane code	5412CC015	5412CC020	5412CC025	5412CC032	5412CC040	5412CC050	5412CM065	5412CM080	5412CM100

Pneumatic actuated valves

Actuators

Valve mounting according to ISO 5211- Limit switch box bracket connection according to NAMUR 1 - Solenoid pilot connection according 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.

SIL 3 CE Ex

Prisma

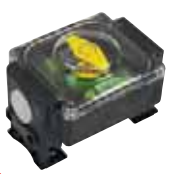
Double acting

type	avail. torque (Nm) at air supply 6 bar	ISO	⌀	code
PPW	17	F4	11	012100
PP00	25	F5	14	012103
PP10	71	F7	17	012106
PP20	165	F7	22	012109

Spring return

type	avail. torque (Nm) at air supply 6 bar		ISO	⌀	code
PPWS	10,6	6,5	F4	11	012120
PP00S	13,7	11,3	F5	14	012123
PP10S	40,2	30,8	F7	17	012126
PP20S	101,3	64,2	F7	22	012129

Limit switch box



SP - Universal limit switch box IP65

Black noryl compact box - Anti-UV polycarbonate cover with direct visualisation - Includes universal adjustable bracket for NAMUR 1, 2 & 3 actuators - Includes gland pack M20 x 1,5 - TS: -15°C/+80°C.

IP 65

type	switches	code
SP 012	2 SPDT silver plated mechanical switches 250V - 5A	0460012N
SP 732	2 inductive detectors 3 threads PNP 10 - 30V DC P + F NBB2 V3 E2	0460014N

Pneumatic actuated ball valves

All our pneumatic actuated plastic ball valves are designed for a compressed air supply of 6 bar -
Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

CE ISO 9001

C200 - PVC-U - Ball valve with plastic pneumatic actuator

PVC-U body & ball - PTFE seats - PS: 16 bar - TS: 0°C/+60°C - Supplied with solvent cement socket ends.

CL1 - PVC-U - Ball valve with plastic pneumatic actuator

PVC-U body & ball - PTFE seats - PS: 10 bar - TS: 0°C/+55°C - Supplied with solvent cement socket ends.

C200

CL1

d (mm)	DN	double acting actuator	code
C200 / 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
CL1 / EPDM gaskets			
75	65	PP10	5100SC065012106
90	80	PP10	5100SC080012106
110	100	PP20	5100SC100012109

d (mm)	DN	spring return actuator	code
C200 / 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
CL1 / EPDM gaskets			
75	65	PP10S	5100SC065012126
90	80	PP10S	5100SC080012126
110	100	PP20S	5100SC100012129

C200

CL1

d (mm)	DN	double acting actuator	code
C200 / 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
CL1 / FKM gaskets			
75	65	PP10	5101SC065012106
90	80	PP10	5101SC080012106
110	100	PP20	5101SC100012109

d (mm)	DN	spring return actuator	code
C200 / 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
CL1 / FKM gaskets			
75	65	PP10S	5101SC065012126
90	80	PP10S	5101SC080012126
110	100	PP20S	5101SC100012129

C200 - PP - Ball valve with plastic pneumatic actuator

PP-H body & ball - PTFE seats - PS: 10 bar - TS: +10°C/+80°C - Supplied with solvent cement socket ends.

CL1 - PP - Ball valve with plastic pneumatic actuator

PP-H body & ball - PTFE seats - PS: 10 bar - TS: +10°C/+80°C - Supplied with solvent cement socket ends.

C200

CL1

d (mm)	DN	double acting actuator	code
C200 / 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
CL1 / EPDM gaskets			
75	65	PP10	5110SC065012106
90	80	PP10	5110SC080012106
110	100	PP20	5110SC100012109

d (mm)	DN	spring return actuator	code
C200 / 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
CL1 / EPDM gaskets			
75	65	PP10S	5110SC065012126
90	80	PP10S	5110SC080012126
110	100	PP20S	5110SC100012129

C200

CL1

d (mm)	DN	double acting actuator	code
C200 / 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
CL1 / FKM gaskets			
75	65	PP10	5111SC065012106
90	80	PP10	5111SC080012106
110	100	PP20	5111SC100012109

d (mm)	DN	spring return actuator	code
C200 / 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
CL1 / FKM gaskets			
75	65	PP10S	5111SC065012126
90	80	PP10S	5111SC080012126
110	100	PP20S	5111SC100012129

Pneumatic actuated butterfly valves

All our pneumatic actuated plastic butterfly valves are designed for a compressed air supply of 6 bar - Please consult for any other air supply pressure - ⚠ **Max. ΔP: 10 bar.**

CE ISO 9001

PL1 - PVC-U - Butterfly valve with pneumatic actuator

PVC-U body - Reinforced PP disc - Between flanges PN10 - PS: 10 bar - TS: 0°C/+55°C.

DN	face to face (mm)	EPDM seat 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	AP115	5300SW250017011
300	98	AP125	5300SW300017012

DN	face to face (mm)	EPDM seat 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	APS115	5300SW150017111
200	82	APS115	5300SW200017111
250	92	APS160	5300SW250017114
300	98	APS160	5300SW300017114

DN	face to face (mm)	FKM seat double acting actuator	code
40	34	PP00	5301SW040012103
50	44	PP00	5301SW050012103
65	46	PP00	5301SW065012103
80	57	PP10	5301SW080012106
100	60	PP10	5301SW100012106
125	66	PP20	5301SW125012109
150	72	PP20	5301SW150012109
200	82	PP20	5301SW200012109

DN	face to face (mm)	FKM seat spring return actuator	code
40	34	PP10S	5301SW040012126
50	44	PP10S	5301SW050012126
65	46	PP10S	5301SW065012126
80	57	PP10S	5301SW080012126
100	60	PP20S	5301SW100012129
125	66	PP20S	5301SW125012129
150	72	APS115	5301SW150017111
200	82	APS115	5301SW200017111

PL1 - PP - Butterfly valve with pneumatic actuator

PP body - Reinforced PP disc - Between flanges PN10 - PS: 10 bar - TS: +10°C/+80°C.

DN	face to face (mm)	EPDM seat double acting actuator	code
40	34	PP00	5310SW040012103
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
40	34	PP10S	5310SW040012126
50	44	PP10S	5310SW050012126
65	46	PP10S	5310SW065012126
80	57	PP10S	5310SW080012126
100	60	PP20S	5310SW100012129
125	66	PP20S	5310SW125012129
150	72	APS115	5310SW150017111
200	82	APS115	5310SW200017111

DN	face to face (mm)	FKM seat double acting actuator	code
40	34	PP00	5311SW040012103
50	44	PP00	5311SW050012103
65	46	PP00	5311SW065012103
80	57	PP10	5311SW080012106
100	60	PP10	5311SW100012106
125	66	PP20	5311SW125012109
150	72	PP20	5311SW150012109
200	82	PP20	5311SW200012109

DN	face to face (mm)	FKM seat spring return actuator	code
40	34	PP10S	5311SW040012126
50	44	PP10S	5311SW050012126
65	46	PP10S	5311SW065012126
80	57	PP10S	5311SW080012126
100	60	PP20S	5311SW100012129
125	66	PP20S	5311SW125012129
150	72	APS115	5311SW150017111
200	82	APS115	5311SW200017111

Pneumatic actuated membrane valves

MV309 - PVC-U

PVC-U body - EPDM membrane & gaskets or PTFE membrane & FKM gaskets - Supplied with solvent cement socket ends - PS: 6 bar - TS: 0°C/+60°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	5400BC015NF	5400BC020NF	5400BC025NF	5400BC032NF
FKM gaskets code	5402BC015NF	5402BC020NF	5402BC025NF	5402BC032NF

	normally open			
d (mm)	20	25	32	40
DN	15	20	25	32
EPDM gaskets code	5400BC015NO	5400BC020NO	5400BC025NO	5400BC032NO
FKM gaskets code	5402BC015NO	5402BC020NO	5402BC025NO	5402BC032NO

MV309 - PP

PP body - EPDM membrane & gaskets or PTFE membrane & FKM gaskets - Supplied with solvent cement socket ends - 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

Limit switch box	code
2 mechanical SPDT switches	54BFCM

Namur solenoid pilot valves, see page 76

Normally closed (opening under tension) - Coil insulation class F - IP65 - T30 connector - Horizontal mounting - Coil on the top.

IP 65 | ISO 9001

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 code	24V DC code	24V 50Hz 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/mn)	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

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/mn)	230V 50Hz code	24V DC code	24V 50Hz code	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
50	40	24,0	6400CF06	6400CF56	6400CF16	6400CF36
63	50	29,6	6400CF07	6400CF57	6400CF17	6400CF37
spare coil			980280	980282	980281	980283

Electric actuated ball valves

All our electric actuated plastic ball valves are equipped with a 230V AC actuator as standard -
Please consult for any other power supply - ⚠ **Max. ΔP: 10 bar.**

CE ISO 9001

C200 - PVC-U - Ball valve with electric actuator from DN15 to DN50

PVC-U body & ball - PTFE seats - PS: 16 bar - TS: 0°C/+60°C - Supplied with solvent cement socket ends.

CL1 - PVC-U - Ball valve with electric actuator from DN65 to DN100

PVC-U body & ball - PTFE seats - PS: 10 bar - TS: 0°C/+55°C - Supplied with solvent cement socket ends.

d (mm)	DN	actuator	code
C200 / EPDM gaskets			
20	15	UMA3.5	5100AC015022060
25	20	UMA3.5	5100AC020022060
32	25	UMA3.5	5100AC025022060
40	32	UMA3.5	5100AC032022060
50	40	UMA3.5	5100AC040022060
63	50	UMA3.5	5100AC050022060
CL1 / EPDM gaskets			
75	65	UMA3.5	5100SC065022060
90	80	UMA3.5	5100SC080022060
110	100	UMB7	5100SC100022170

d (mm)	DN	actuator	code
C200 / 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
CL1 / EPDM gaskets			
75	65	SA03	5100SC065023000
90	80	SA05	5100SC080023010
110	100	SA05	5100SC100023010

d (mm)	DN	actuator	code
C200 / FKM gaskets			
20	15	UMA3.5	5101AC015022060
25	20	UMA3.5	5101AC020022060
32	25	UMA3.5	5101AC025022060
40	32	UMA3.5	5101AC032022060
50	40	UMA3.5	5101AC040022060
63	50	UMA3.5	5101AC050022060
CL1 / FKM gaskets			
75	65	UMA3.5	5101SC065022060
90	80	UMA3.5	5101SC080022060
110	100	UMB7	5101SC100022170

d (mm)	DN	actuator	code
C200 / 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
CL1 / FKM gaskets			
75	65	SA03	5101SC065023000
90	80	SA05	5101SC080023010
110	100	SA05	5101SC100023010

C200 - PP - Ball valve with electric actuator from DN15 to DN50

PP-H body & ball - PTFE seats - PS: 10 bar - TS: +10°C/+80°C - Supplied with solvent cement socket ends.

CL1 - PP - Ball valve with electric actuator from DN65 to DN100

PP-H body & ball - PTFE seats - PS: 10 bar - TS: +10°C/+80°C - Supplied with solvent cement socket ends.

d (mm)	DN	actuator	code
C200 / EPDM gaskets			
20	15	UMA3.5	5110AC015022060
25	20	UMA3.5	5110AC020022060
32	25	UMA3.5	5110AC025022060
40	32	UMA3.5	5110AC032022060
50	40	UMA3.5	5110AC040022060
63	50	UMA3.5	5110AC050022060
CL1 / EPDM gaskets			
75	65	UMA3.5	5110SC065022060
90	80	UMA3.5	5110SC080022060
110	100	UMB7	5110SC100022170

d (mm)	DN	actuator	code
C200 / 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
CL1 / EPDM gaskets			
75	65	SA03	5110SC065023000
90	80	SA05	5110SC080023010
110	100	SA05	5110SC100023010

d (mm)	DN	actuator	code
C200 / FKM gaskets			
20	15	UMA3.5	5111AC015022060
25	20	UMA3.5	5111AC020022060
32	25	UMA3.5	5111AC025022060
40	32	UMA3.5	5111AC032022060
50	40	UMA3.5	5111AC040022060
63	50	UMA3.5	5111AC050022060
CL1 / FKM gaskets			
75	65	UMA3.5	5111SC065022060
90	80	UMA3.5	5111SC080022060
110	100	UMB7	5111SC100022170

d (mm)	DN	actuator	code
C200 / 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
CL1 / FKM gaskets			
75	65	SA03	5111SC065023000
90	80	SA05	5111SC080023010
110	100	SA05	5111SC100023010

Electric actuated butterfly valves

All our electric actuated plastic butterfly valves are equipped with a 230V AC actuator as standard - Please consult for any other power supply - ⚠ **Max. ΔP: 10 bar.**

CE ISO 9001

PL1 - PVC-U - Butterfly valve with electric actuator

PVC-U body - Reinforced PP disc - Between flanges PN10 - PS: 10 bar - TS: 0°C/+55°C.

DN	face to face (mm)	EPDM seat actuator	code
40	34	UMA3.5	5300SW040022060
50	44	UMA3.5	5300SW050022060
65	46	UMA3.5	5300SW065022060
80	57	UMB7	5300SW080022170
100	60	UMC10	5300SW100022240
125	66	UMC10	5300SW125022240
150	72	UMC10	5300SW150022240
200	82	UVC15	5300SW200022330
250	92	UVD25	5300SW250022350
300	98	UVF50	5300SW300022400

DN	face to face (mm)	EPDM seat 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

DN	face to face (mm)	FKM seat actuator	code
40	34	UMA3.5	5301SW040022060
50	44	UMA3.5	5301SW050022060
65	46	UMA3.5	5301SW065022060
80	57	UMB7	5301SW080022170
100	60	UMC10	5301SW100022240
125	66	UMC10	5301SW125022240
150	72	UMC10	5301SW150022240
200	82	UVC15	5301SW200022330

DN	face to face (mm)	FKM seat actuator	code
40	34	SA05	5301SW040023010
50	44	SA05	5301SW050023010
65	46	SA05	5301SW065023010
80	57	SA05	5301SW080023010
100	60	SA05	5301SW100023010
125	66	NA06	5301SW125023110
150	72	NA09	5301SW150023120
200	82	NA15	5301SW200023130

PL1 - PP - Butterfly valve with electric actuator

PP-H body - Reinforced PP disc - Between flanges PN10 - PS: 10 bar - TS: +10°C/+80°C.

DN	face to face (mm)	EPDM seat actuator	code
40	34	UMA3.5	5310SW040022060
50	44	UMA3.5	5310SW050022060
65	46	UMA3.5	5310SW065022060
80	57	UMB7	5310SW080022170
100	60	UMC10	5310SW100022240
125	66	UMC10	5310SW125022240
150	72	UMC10	5310SW150022240
200	82	UVC15	5310SW200022330

DN	face to face (mm)	EPDM seat actuator	code
40	34	SA05	5310SW040023010
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

DN	face to face (mm)	FKM seat actuator	code
40	34	UMA3.5	5311SW040022060
50	44	UMA3.5	5311SW050022060
65	46	UMA3.5	5311SW065022060
80	57	UMB7	5311SW080022170
100	60	UMC10	5311SW100022240
125	66	UMC10	5311SW125022240
150	72	UMC10	5311SW150022240
200	82	UVC15	5311SW200022330

DN	face to face (mm)	FKM seat actuator	code
40	34	SA05	5311SW040023010
50	44	SA05	5311SW050023010
65	46	SA05	5311SW065023010
80	57	SA05	5311SW080023010
100	60	SA05	5311SW100023010
125	66	NA06	5311SW125023110
150	72	NA09	5311SW150023120
200	82	NA15	5311SW200023130

Check valves - Double union construction

SL1 - PVC-U

PVC-U body & clack - EPDM or FKM seat & gaskets - Double union construction - Anti-UV protection - Without spring - Horizontal or vertical mounting - Supplied with solvent cement socket ends as standard (option for threaded unions) - 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	5500SC015	5500SC020	5500SC025	5500SC032	5500SC040	5500SC050
FKM seat & gaskets code	5501SC015	5501SC020	5501SC025	5501SC032	5501SC040	5501SC050
spare threaded union	ECL1CT02	ECL1CT03	ECL1CT04	ECL1CT05	ECL1CT06	ECL1CT07
spare stainless steel spring	RIS15	RIS20	RIS25	RIS32	RIS40	RIS50

SL1 - PP

PP body & clack - EPDM or FKM seat & gaskets - Double union construction - Without spring - Horizontal or vertical mounting - Supplied with solvent cement socket ends as standard (option for threaded unions) - 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	5510SC015	5510SC020	5510SC025	5510SC032	5510SC040	5510SC050
FKM seat & gaskets code	5511SC015	5511SC020	5511SC025	5511SC032	5511SC040	5511SC050
spare threaded union	ECL1PT02	ECL1PT03	ECL1PT04	ECL1PT05	ECL1PT06	ECL1PT07
spare stainless steel spring	RIS15	RIS20	RIS25	RIS32	RIS40	RIS50

Foot valves

FV1 - PVC-U

PVC-U body, clack & screen - EPDM gaskets as standard (option for spare 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
code	5500FC015	5500FC020	5500FC025	5500FC032	5500FC040	5500FC050
NEW spare FKM gaskets	JTCF20	JTCF25	JTCF32	JTCF40	JTCF50	JTCF63

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

Disc check valve

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

Check valves

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
*EPDM gaskets code	5500CB032	5500CB040	5500CB050	5500CB065	5500CB080	5500CB100	5500CB125	5500CB150
FKM gaskets code	5501CW032	5501CW040	5501CW050	5501CW065	5501CW080	5501CW100	5501CW125	5501CW150
*FKM gaskets code	5501CB032	5501CB040	5501CB050	5501CB065	5501CB080	5501CB100	5501CB125	5501CB150

* Supplied with PN10 flanges set for solvent cement connections.

RSK1 - PP

PP body & clack - EPDM or FKM gaskets - Stainless steel spring - 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
spare spring code	RIK032	RIK040	RIK050	RIK065	RIK080	RIK100	RIK100	RIK150

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	75	90
DN	15	20	25	32	40	50	65	80
EPDM gaskets code	5500LC015	5500LC020	5500LC025	5500LC032	5500LC040	5500LC050	5500LC065	5500LC080
FKM gaskets code	5501LC015	5501LC020	5501LC025	5501LC032	5501LC040	5501LC050	5501LC065	5501LC080

BE1 - PP

PP body & clack - EPDM or FKM gaskets - Vertical mounting - Solvent cement socket connection - PS: 10 bar - 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	5510LC015	5510LC020	5510LC025	5510LC032	5510LC040	5510LC050	5510LC065	5510LC080
FKM gaskets code	5511LC015	5511LC020	5511LC025	5511LC032	5511LC040	5511LC050	5511LC065	5511LC080

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

Pressure reducing valves

DMV755 - PVC-U

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)	16	20	25	32	40	50	63
DN	10	15	20	25	32	40	50
code	5800AC010	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

DHV718 - PVC-U

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: 0°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-R - PVC-U - DN10 to 50

PVC-U body - EPDM gaskets - PTFE coated EPDM membrane - Patented piston - Supplied with solvent cement socket ends - PS: 10 bar - TS: 0°C/+50°C - Upstream setting range: 0,3 to 10 bar - Upstream pressure connection 1/4" - Pressure gauge as an option.

d (mm)	16	20	25	32	40	50	63
DN	10	15	20	25	32	40	50
code	5900BC010	5900BC015	5900BC020	5900BC025	5900BC032	5900BC040	5900BC050

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

DHV712 - PP

PP body - EPDM gaskets - PTFE coated EPDM membrane - Patented piston - Supplied with solvent cement socket ends - PS: 10 bar - TS: +10°C/+70°C - Upstream setting range: 0,3 to 10 bar.

d (mm)	16	20	25	32	40	50	63
DN	10	15	20	25	32	40	50
EPDM gaskets code	5910BC010	5910BC015	5910BC020	5910BC025	5910BC032	5910BC040	5910BC050
FKM gaskets code	5911BC010	5911BC015	5911BC020	5911BC025	5911BC032	5911BC040	5911BC050

Float valve

CE ISO 9001

RF1 - PVC-U BSP

PVC-U body - EPDM or FKM gaskets - Stainless steel lever - PE ball - PS: 10 bar up to DN32, 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
FKM gaskets code	6201RT015	6201RT020	6201RT025	6201RT032	6201RT040	6201RT050	6201RT065	6201RT080

Water jet pump

CE ISO 9001

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
DN	10	15	20	25	32	40
suction d1 (mm)	16	16	16	32	40	50
suction DN	10	10	10	25	32	40
code	6000AC010	6000AC015	6000AC020	6000AC025	6000AC032	6000AC040

Dosing valve

CE ISO 9001

C200P - PVC-U

PVC-U body, ball & stem - PTFE seats - EPDM gaskets - ABS lever - Supplied with solvent cement socket ends - 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/mn)	90	160	250	400	620	850
code	6000BC015	6000BC020	6000BC025	6000BC032	6000BC040	6000BC050

Pressure gauge separators

MDM902 - PVC-U BSP

PVC-U body - EPDM gaskets - 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 - EPDM gaskets - 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 158

Sight glass

CE ISO 9001

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 up to DN80, 4 bar above - 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

Level gauge

AYVAZ ISO 9001

MG33-P - PVC-U

PVC-U body & float - Flanged PN6 - Aluminium rolls reading ruler - Plexiglas glass - Drain cap - Min. fluid density: 0,8 - PS: 6 bar - TS: 0°C/+60°C - Vertical mounting.

DN	20	20	20	20	20
L (mm)	800	900	1000	1200	1400
code	6200Y0800	6200Y0900	6200Y1000	6200Y1200	6200Y1400

Bistable contact

code	62BSS

Flowmeter

DFM - PVC with float

CE ISO 9001

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 code	magnetic float code
16	10	3-24	6100AC010H01	6100AC010H01M
		5-60	6100AC010H03	6100AC010H03M
		10-100	6100AC010H04	6100AC010H04M
		25-250	6100AC010H06	6100AC010H06M
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

PP cam-lock couplings

Individual packing

MIL-C-27487 & A-A-59326 - Fiberglass reinforced PP body - White EPDM gasket - F304 cams - PS: 6 bar - TS: 0°C/+80°C.

ISO 9001

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

PP Guillemin symmetrical couplings

Individual packing

NF-E 29572 - Fiberglass reinforced PP body - White NBR gasket - PS: 6 bar - TS: 0°C/+80°C.

ISO 9001

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 167

To be ordered by pack of 10 pcs up to d (mm) 90 & d1 (mm) 90; individually above.

PVC-U fittings

PVC-U body - PS: 16 bar up to DN150, 10 bar above - TS: 0°C/+60°C.

ISO 9001

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	200
DN	10	15	20	25	32	40	50	65	80	100	125	125	150	200
code	C45CC016	C45CC020	C45CC025	C45CC032	C45CC040	C45CC050	C45CC063	C45CC075	C45CC090	C45CC110	C45CC125	C45CC140	C45CC160	C45CC200

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.

d (mm)	20x16	25x16	25x20	32x20	32x25	40x20	40x25	40x32	50x20	50x25	50x32	50x40	63x25
DN	15x10	25x15	20x15	25x15	25x20	32x15	32x20	32x25	40x15	40x20	40x25	40x32	50x20
code	TERCC2016	TERCC2516	TERCC2520	TERCC3220	TERCC3225	TERCC4020	TERCC4025	TERCC4032	TERCC5020	TERCC5025	TERCC5032	TERCC5040	TERCC6325

d (mm)	63x32	63x40	63x50	75x50	90x63	90x75	110x90
DN	50x25	50x32	50x40	65x40	80x50	80x65	100x80
code	TERCC6332	TERCC6340	TERCC6350	TERCC7550	TERCC9063	TERCC9075	TERCC11090

Tee 45°

Female connections.

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.

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 BSP

EPDM tightness - DIN 8063 - Female threaded.

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

PE collar

PE body - TS: 0°C/+80°C - Male connection to be welded.

d (mm)	20	25	32	40	50	63
DN	15	20	25	32	40	50
code	CU3PEP020	CU3PEP025	CU3PEP032	CU3PEP040	CU3PEP050	CU3PEP063

Collar for striated face flange

Female connection to be glued.

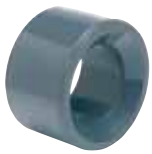
d (mm)	20	25	32	40	50	63	75	90	110	125	140	160	200	225	250	315
DN	15	20	25	32	40	50	65	80	100	125	125	150	200	225	250	300
code	CJPCC020	CJPCC025	CJPCC032	CJPCC040	CJPCC050	CJPCC063	CJPCC075	CJPCC090	CJPCC110	CJPCC125	CJPCC140	CJPCC160	CJPCC200	CJPCC225	CJPCC250	CJPCC315

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.

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.

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	75	90	110	125	140	160	200	225
DN	10	15	20	25	32	40	50	65	80	100	125	125	150	200	200
code	BCC016	BCC020	BCC025	BCC032	BCC040	BCC050	BCC063	BCC075	BCC090	BCC110	BCC125	BCC140	BCC160	BCC200	BCC225

not on stock, on request.

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

Solvent cement PVC PLUME FF100

code	COLPVC01

Cleaning agent 1 l - PVC PLUDET 1000

code	DECAP01

To be ordered by pack of 10 pcs up to d (mm) 63 & d1 (mm) 63; individually above.

PP fittings

PP-H body - PS: 10 bar - TS: +10°C/+80°C.

PZH CE ISO 9001

Elbow 90°

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
code	C90PS020	C90PS025	C90PS032	C90PS040	C90PS050	C90PS063	C90PS075	C90PS090	C90PS110

Elbow 45°

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
code	C45PS020	C45PS025	C45PS032	C45PS040	C45PS050	C45PS063	C45PS075	C45PS090	C45PS110

Equal tee 90°

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
code	TEPS020	TEPS025	TEPS032	TEPS040	TEPS050	TEPS063	TEPS075	TEPS090	TEPS110

Female socket

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
code	MPS020	MPS025	MPS032	MPS040	MPS050	MPS063	MPS075	MPS090	MPS110

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 BSP

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

Adaptor BSP

Male connection to be welded (d) - Male threaded.

d (mm)	20	25	32	40	50	63
Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	EAPM2002	EAPM2503	EAPM3204	EAPM4005	EAPM5006	EAPM6307

Hose connection

Male connection to be welded (d1) - Hose connection (d2).

d1 (mm)	20	25	32	40	50	63
d2 (mm)	20/22	25/27	30/32	40/42	50/52	60/64
DN	15	20	25	32	40	50
code	ECPS20	ECPS25	ECPS32	ECPS40	ECPS50	ECPS63

Collar for striated face flange

Female connection to be welded.

Pack: 10 pcs

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	32	40	40	50	50	63	63	75	90	90	110
d2 (mm)	20	20	25	25	32	32	40	40	50	63	63	75	90
code	RSPS2520	RSPS3220	RSPS3225	RSPS4025	RSPS4032	RSPS5032	RSPS5040	RSPS6340	RSPS6350	RSPS7563	RSPS9063	RSPS9075	RSPS11090

Cap

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	BPS020	BPS025	BPS032	BPS040	BPS050	BPS063	BPS075	BPS090	BPS110

not on stock, on request.

Expansion joint

Male & 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	CDDFP020	CDDFP025	CDDFP032	CDDFP040	CDDFP050	CDDFP063	CDDFP075	CDDFP090	CDDFP110

O-ring for union

Pack: 10 pcs

	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

Pack: 10 pcs

	d (mm)	20	25	32	40	50	63	75	90	110	125	140	160	200	225	250	315
EPDM	code	JPCE020	JPCE025	JPCE032	JPCE040	JPCE050	JPCE063	JPCE075	JPCE090	JPCE110	JPCE125	JPCE140	JPCE160	JPCE200	JPCE225	JPCE250	JPCE315
FKM	code	JPCF020	JPCF025	JPCF032	JPCF040	JPCF050	JPCF063	JPCF075	JPCF090	JPCF110	-	-	-	-	-	-	-

Medium	Concentration	Formule	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	Formule	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			
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	+	+	+			
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		+	+			
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			
Calcium hydroxide	SAT	$Ca(OH)_2$	80	Aqueous		+	-			
Calcium hydroxide	SAT	$Ca(OH)_2$	100	Aqueous						
Calcium hydroxide	SAT	$Ca(OH)_2$	120	Aqueous						
Nitric acid	70	HNO_3	20	Aqueous	o	-	+			
Nitric acid	70	HNO_3	40	Aqueous	o		+			
Nitric acid	70	HNO_3	60	Aqueous	-		+			
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 Thermador International reponsibility.

Valves for building

- Ball valves
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  - PN30/20 ..... page 195
  - PN40/30 - Lead-free brass ..... page 196
  - Valve for gas ..... page 197
  - Stem extension valves ..... page 197
  - 3 way valves ..... page 197
  - Mini valves ..... page 198
  - Mini valves for compressed air ..... page 198
  - Water meter valves ..... page 198
  - Distribution manifold valves ..... page 198
  - Union fitting valve ..... page 199
  - Other valves ..... page 199
- Gate valves ..... page 199
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- Globe valves ..... page 200
- Needle valve ..... page 201
- Bibcock valves ..... page 201
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To be ordered by mentioned pack

PN25/20

Excluded from 2014/68/EU Directive (article 4, §3) - Nickel-plated CW617N brass body - NBR double o-ring - PTFE seats - Chrome-plated brass ball - Standard bore - Anti-blowout stem - Tracking: "15S" marked on body - TS: -10°C/+110°C.

ISO 9001

Female/female

515 - Red steel lever
516 - Red butterfly handle

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
PS (bar)	25	25	25	25	25	20	20	16	10	10
pack	10	10	10	10	16	12	8	1	1	1
515 code	515002	515003	515004	515005	515006	515007	515008	515009	515010	515011
pack	15	15	15	12	16					
516 code	516002	516003	516004	516005	516006	-	-	-	-	-

Male/female

562 - Red steel lever
563 - Red butterfly handle

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	25	25	25	25	25	20	20	16
pack	10	10	10	10	16	12	8	1
562 code	562002	562003	562004	562005	562006	562007	562008	562009
pack	15	15	15	12	16			
563 code	563002	563003	563004	563005	563006	-	-	-

Male/male

572 - Red steel lever
573 - Red butterfly handle

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	25	25	25	25	20	20	16
pack	10	10	10	16	12	8	1
572 code	572003	572004	572005	572006	572007	572008	572009
pack	15	15	15	12			
573 code	573003	573004	573005	573006	-	-	-

Female/female - With drainer

574 - Red steel lever
555 - 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	10	8	4	1
574 code	574004	574005	574006	574007	574008	574009
pack	10	10	10			
555 code	555004	555005	555006	-	-	-

PN30/20

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.

ISO 9001

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	4
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	-	-	-

Stainless steel lever

552 - Female/female

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
PS (bar)	30	30	30	30	30	20	20	16	10	10
pack	10	10	10	10	10	8	6	4	4	4
code	552002	552003	552004	552005	552006	552007	552008	552009	552010	552011

Guarantee 5 Years

PN40/30 - Lead-free brass

Excluded from 2014/68/EU Directive (article 4, §3) - Nickel-plated 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 PDW.**

ISO 9001

Female/female

509 - Red steel lever
525 - Red butterfly handle
501 - Blue steel lever

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	509008	509009	509010SF	509011	509012SF
525 code	525002	525003	525004	525005	525006	-	-	-	-	-	-
501 code	501002	501003	501004	501005	501006	501007	501008	501009	501010	501011	501012

Male/female

571 - Red steel lever
570 - Red butterfly handle
517 - Blue steel lever

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	-	-	-
517 code	517002	517003	517004	517005	517006	517007	517008	517009

Male/male

566 - Red steel lever
565 - Red butterfly handle
518 - Blue steel lever

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	-	-	-
518 code	518003	518004	518005	518006	518007	518008	518009

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	4	4
510 code	510004	510005	510006	510007	510008	510009
530 code	530004	530005	530006	-	-	-

Valve for gas

AIRAGA

Excluded from 2014/68/EU Directive (article 1, §2f) - 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.

ISO 9001

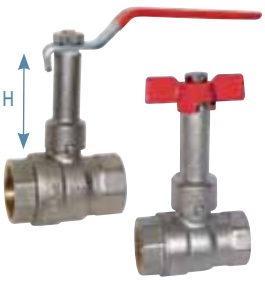
620 - Female/female

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

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 - Full bore - Anti-blowout stem - Tracking: “80S” marked on body - TS: -10°C/+120°C.

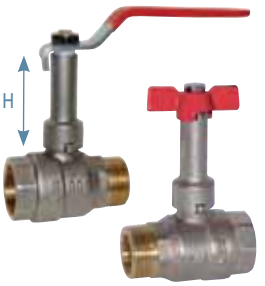
ISO 9001



Female/female

615 - Red 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
pack	10	10	8	5	4	3	1
H (mm)	50	50	50	60	70	70	70
615 code	615003	615004	615005	615006	615007	615008	615009
617 code	-	617004	617005	-	-	-	-



Male/female

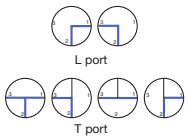
616 - Red steel lever
618 - Red butterfly handle

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	30	30	30	30	20	20	16
pack	10	10	8	5	4	3	1
H (mm)	50	50	50	60	70	70	70
616 code	616003	616004	616005	616006	616007	616008	616009
618 code	-	618004	618005	-	-	-	-

3 way valves

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.

ISO 9001

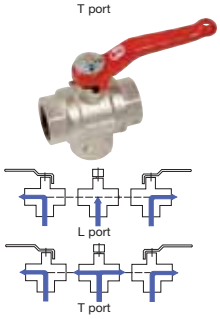


513 - PN16 L-port **514 - PN16 T-port**

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

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.

ISO 9001



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

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.

ISO 9001

677 - Female/female
674 - Male/female

Ø	1/4"	3/8"	1/2"
677 code	677002	677003	677004
674 code	674002	674003	674004

690 - Male/male

Ø	1/4"	3/8"	1/2"
code	690002	690003	690004

697 - Female/female
With exhaust hole.

Ø	1/4"	3/8"	1/2"
code	697002	697003	697004

694 - Male/female
With exhaust hole.

Ø	1/4"	1/2"
code	694002	694004

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.

ISO 9001

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"	1/4"
PS (bar)	16	16
code	693001	693002

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.

ISO 9001

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

Distribution manifold valves

Excluded from 2014/68/EU Directive (article 4, §3) - CW617N brass body - For flat bearing manifolds - PS: 25 bar - TS: -10°C/+120°C (except 678: TS: -°C/+100°C).

ISO 9001

633 - Male/female PN16

Ø free nut	1/2"
Ø male	1/2"
pack	10
code	633044

Male/female standard

Ø free nut	1/2"
Ø male	1/2"
pack	10
code	VANP2E

678 - Female/male PN25

Ø	1/2"
pack	10
code	678004

Ball valves

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.

ISO 9001

524 - Male/female

Ø	1/2"	3/4"	1"	1"1/4
pack	10	10	10	6
code	524004	524005	524006	524007

Other valves

AIRAGA

Excluded from 2014/68/EU Directive (article 4, §3) - CW617N brass body - PTFE gland pack & seats - Chrome-plated brass ball - Aluminium handle - Anti-blowout stem - PS: 16 bar - TS: -10°C/+120°C.

ISO 9001

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

NEW

Excluded from 2014/68/EU Directive (article 4, §3) - CW617N brass body.

ISO 9001

Valve with probe holder outlet

Ø	1/2"	3/4"	1"
code	9811004	9811005	9811006

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.

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

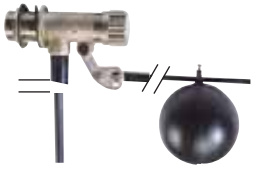
Excluded from 2014/68/EU Directive (article 4, §3) - Bronze body - CW617N brass gate & bonnet - Metal-metal tightness - PTFE stem gasket - Full bore - Quick closing - PS: 16 bar up to 2", 10 bar above - TS: -10°C/+110°C.

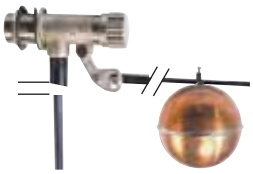
ISO 9001

140 - Bronze - Quick closing

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
pack	10	10	8	5	3	5	5	1	1	1
code	140003	140004	140005	140006	140007	140008	140009	140010	140011	140012

Float valves





Excluded from 2014/68/EU Directive (article 4, §3) - ACS certification for ref. 491 only - Stainless steel inner mechanism - EPDM gasket - PS: 10 bar - TS: 0°C/+40°C.

ISO 9001

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).

ISO 9001

RF1 - PVC-U

PVC-U body - EPDM or FKM seat & gasket - PE ball - Stainless steel lever - PS: 10 bar - TS: 0°C/+60°C.

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
FKM gaskets code	6201RT015	6201RT020	6201RT025	6201RT032	6201RT040	6201RT050	6201RT065	6201RT080

Globe valves

97/23/EC 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 ISO 9001

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

97/23/EC 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 ISO 9001

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) - CW617N brass body - Micrometric control - PS: 16 bar - TS: -10°C/+110°C.

ISO 9001

465 - Column base valve - Brass

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
pack	3	3	2	2	2	1
code	465004	465005	465006	465007	465008	465009

97/23/EC Directive - Risk category I / module A - For fluids from group 2 - Brass body up to Ø 2", cast iron body above - PS: 10 bar - TS: -10°C/+100°C.

CE ISO 9001

430 - Perfection valve

Ø	3/4"	1"1/2	2"	2"1/2	3"	4"
code	430005	430008	430009	430010	430011	430012

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.

ISO 9001

482 - Bronze

Ø	1/4"	3/8"	1/2"	3/4"
code	482002	482003	482004	482005

Bibcock valves

Excluded from 2014/68/EU Directive (article 4, §3).

ISO 9001

696 - Nickel-plated brass

PS: 16 bar - TS: 0°C/+60°C.

Ø	1/2"	3/4"	3/4"
outlet	3/4"	3/4"	1"
hose	19	19	20,5
pack	8	12	8
code	696045	696055	696056

With butterfly handle -
PS: 16 bar - TS: 0°C/+60°C.

Ø	1/2"	3/4"
outlet	3/4"	3/4"
hose	19	19
pack	8	12
code	696145	696155

682 - Plain brass

CW617N brass body - Chrome-plated brass ball -
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	17	15	19	22	26
pack	10	15	10	10	4
code	682045	682046	682055	682056	682067

681 - Plain brass

Same features as fig. 682 except: brass butterfly handle.

Ø	1/2"
outlet	3/4"
hose	17
pack	10
code	681045

680 - Tampered head drive

Nickel-plated CW617N brass body - Chrome-plated brass ball -
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 CW617N brass body & ball -
PS: 30 bar - TS: -10°C/+90°C.

Ø	1/2"
outlet	3/4"
hose	16
code	698045

699 - Nickel-plated brass

With locking device - Brass body & ball -
PS: 16 bar - TS: -10°C/+60°C.

Ø	1/2"	3/4"
outlet	3/4"	3/4"
hose	19	19
code	699045	699055

795 - Stainless steel

CF8M body & ball -
PS: 16 bar - TS: -10°C/+150°C.

Ø	1/2"	3/4"
outlet	3/4"	3/4"
hose	19	19
code	795045	795055

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	22
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

Spring

Excluded from 2014/68/EU Directive (article 4, §3) - CW617N brass body - NBR seat - TS: -10°C/+100°C (except 328, 317 & 316: -10°C/+110°C).

ISO 9001

309 - Block® - Nylon clack

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
PS (bar)	12	12	12	10	10	10
pack	14	12	10	8	6	4
code	309004	309005	309006	309007	309008	309009

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

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® - 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® - 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.

ISO 9001

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

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.

ISO 9001

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.

ISO 9001

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).

ISO 9001

392 - Nylon threaded end - Stainless steel F304 screen BSP
TS: 0°C/+95°C.

391 - Full stainless steel F316 BSP
TS: 0°C/+150°C.

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
mesh (mm)	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,5	1,5	2,0
392 code	392003	392004	392005	392006	392007	392008	392009	392010	392011	392012
391 code	391003	391004	391005	391006	391007	391008	391009	391010	391011	391012

Y-strainers

Excluded from 2014/68/EU Directive (article 4, §3) - Brass or bronze body - Stainless steel 304 screen - PS: 16 bar up to 2", 10 bar above - TS: -10°C/+120°C (except 211: 0°C/+120°C).

ISO 9001

206 - Brass

CW617N brass body - Mesh 0,85 mm.

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

CW617N brass body - Mesh 0,85 mm.

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	211004	211005	211006	211007	211008	211009

PVC valves

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.

ISO 9001

583 - With glued unions 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 unions 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

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.

ISO 9001

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 & ball - EPDM gasket - PS: 10 bar - TS: 0°C/+60°C.

ISO 9001

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

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  - Copper welding fittings ..... pages 210 to 212

Brass fittings
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NEW

Press fitting system for heating, solar heating, air conditioning & compressed air installations - Advantages: easy to instal, very reliable, low weight, no fire risk during installation - Material: galvanized E195 carbon steel - 10 µm thickness external galvanization - Black marking on each pipe & fitting - Toroidal seat for better tightness - Manufactured according to UNI EN ISO9001/2000 - 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 76, 10 bar above - Temperature range: -20°C/+120°C with EPDM gasket, -20°C/+220°C with FKM gasket - M type press jaw - Lengths pipe: 3 m & 6 m - The pipes are only sold by multiple of below mentionned packs* - Large quantities & 6 m pipes: please consult for special quotation.

Galvanized pipes

Pipes - 3 m

Ø	Ø int (mm)	pack weight (kg)	pack* (m)	code
15 x 1,2	12,6	190,94	468	EZ15.3
18 x 1,2	15,6	196,81	396	EZ18.3
22 x 1,5	19	177,98	216	EZ22.3
28 x 1,5	25	176,74	168	EZ28.3
35 x 1,5	32	174,24	132	EZ35.3
42 x 1,5	39	174,96	108	EZ42.3
54 x 1,5	51	176,23	84	EZ54.3
76,1 x 2,0	72,1	175,30	48	EZ76.3
88,9 x 2,0	84,9	154,44	36	EZ88.3
108 x 2,0	104	141,21	27	EZ108.3

* only sold by mentioned pack

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	2	2
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	2	2
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	2	2
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	2	2
code	EZCTU4515	EZCTU4518	EZCTU4522	EZCTU4528	EZCTU4535	EZCTU4542	EZCTU4554	EZCTU4576	EZCTU4588	EZCTU45108

Elbow female threaded

Ø	22-1/2"	22-3/4"	28-1"	35-1"1/4	42-1"1/2	54-2"
pack	10	10	5	5	5	5
code	EZCF222	EZCF422	EZCF1028	EZCF1435	EZCF1242	EZCF2054

Elbow male threaded

Ø	15-3/8"	15-1/2"	18-1/2"	22-3/4"	28-1"	35-1"1/4	42-1"1/2	54-2"
pack	20	10	10	10	5	5	2	2
code	EZCM815	EZCM215	EZCM218	EZCM422	EZCM1028	EZCM1435	EZCM1242	EZCM2054

Short elbow 90° threaded male

Ø	15-3/8"	15-1/2"	18-1/2"	22-3/4"	28-1"
pack	20	20	20	10	10
code	EZCCM815	EZCCM215	EZCCM218	EZCCM422	EZCCM1028

Short elbow 90° threaded male

Ø	22-3/4"	28-1/2"	28-3/4"
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	2	2	2
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	76,1-1/2"-76,1	76,1-3/4"-76,1
pack	5	4	2	4	2	2	2	2	2
code	EZTF1035	EZTF242	EZTF1042	EZTF442	EZTF254	EZTF1054	EZTF454	EZTF2076	EZTF476

Ø	88,9-3/4"-88,9	88,9-2"-88,9	108-3/4"-108
pack	2	2	2
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	2	2	2	2	2	2
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	2	2	2	2	2	2	2
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	4	2	4	4	2
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
pack	10	10	10	5	5	5	5	5	5	5
code	EZMA1815	EZMA2215	EZMA2218	EZMA2815	EZMA2822	EZMA3515	EZMA3522	EZMA3528	EZMA4235	EZMA5428

Reducer male/female

Ø	18-15	22-15	22-18	28-15	28-18	28-22	35-15	35-18	42-22	42-28	42-35	54-18
pack	20	20	20	20	20	20	10	10	4	4	4	4
code	EZTU1815	EZTU2215	EZTU2218	EZTU2815	EZTU2818	EZTU2822	EZTU3515	EZTU3518	EZTU4222	EZTU4228	EZTU4235	EZTU5418

Ø	54-22	54-28	54-35	54-42	76,1-42	76,1-54	88,9-54	88,9-76	108-54	108-76	108-88
pack	4	4	4	4	4	4	4	4	2	2	2
code	EZTU5422	EZTU5428	EZTU5435	EZTU5442	EZTU7642	EZTU7654	EZTU8854	EZTU8876	EZTU10854	EZTU10876	EZTU10888

Adapter female

Ø	15-3/8"	15-1/2"	15-3/4"	18-1/2"	18-3/4"	22-1/2"	22-3/4"	22-1"	28-1/2"	28-3/4"
pack	20	20	10	20	10	10	10	10	20	10
code	EZF815	EZF215	EZF415	EZF218	EZF418	EZF222	EZF422	EZF1022	EZF228	EZF428

Ø	28-1"	35-3/4"	35-1"	35-1"1/4	42-1"1/2	54-2"
pack	10	10	5	5	4	4
code	EZF1028	EZF435	EZF1035	EZF1435	EZF1242	EZF2054

Adapter male

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"	28-1"1/4	35-1"
pack	20	20	10	20	10	10	10	10	10	10	5	5
code	EZM815	EZM215	EZM415	EZM218	EZM418	EZM222	EZM422	EZM1022	EZM428	EZM1028	EZM1428	EZM1035

Ø	35-1"1/4	35-1"1/2	42-1"1/2	54-1"1/2	54-2"	76,1-2"1/2	88,9-3"	108-4"
pack	5	5	4	4	4	2	2	2
code	EZM1435	EZM1235	EZM1242	EZM1254	EZM2054	EZM2276	EZM3088	EZM40108

Union connector female

Ø	22-3/4"	22-1"	28-1"	35-1"1/4	42-1"1/2	54-2"
pack	2	2	2	2	2	2
code	EZUF422	EZUF1022	EZUF1028	EZUF1435	EZUF1242	EZUF2054

Union connector male

Ø	15-1/2"	18-1/2"	22-3/4"	22-1"	28-1"	35-1"1/4	42-1"1/2	54-2"
pack	2	2	2	2	2	2	2	2
code	EZUM215	EZUM218	EZUM422	EZUM1022	EZUM1028	EZUM1435	EZUM1242	EZUM2054

Free nut female

Ø	15-3/4"	18-3/4"	22-3/4"	22-1"	28-1"1/4	35-1"1/2	42-1"3/4
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	20	10	10	5	5	2	2	2	2
code	EZBOUF15	EZBOUF18	EZBOUF22	EZBOUF28	EZBOUF35	EZBOUF42	EZBOUF54	EZBOUF76	EZBOUF88	EZBOUF108

Flange PN16

Ø	76,1	88,9	108
DN	65	80	100
pack	2	2	2
code	EZBRI76	EZBRI88	EZBRI108

Overpass

Ø	15	18	22	28
pack	10	10	10	10
code	EZDA15	EZDA18	EZDA22	EZDA28

Fitting to be welded

Ø	42-48,3	54-60,3	76,1-76,1	88,9-88,9	108-114,3
pack	2	2	2	2	2
code	EZAS4248	EZAS5460	EZAS7676	EZAS8888	EZAS108114

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	EZJ15	EZJ18	EZJ22	EZJ28	EZJ35	EZJ42	EZJ54	EZJ76	EZJ88	EZJ108

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	EZJS15	EZJS18	EZJS22	EZJS28	EZJS35	EZJS42	EZJS54	EZJS76	EZJS88	EZJS108

Tools

Cutter-pipe Ø 15 to 70

code
EZCT

Off-burr tool Ø 15 to 54

code
EZEBA54

Template Ø 15 to 54

code
EZGAB

Cutter-pipe blade Ø 15 to 70

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 22

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

To be ordered by pack of 10 pcs up to Ø28; individually above

Copper welding fittings

For copper pipes

For heating & sanitary, cold & hot water, gas oil & gas - According to EN 1254-1.

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
box	40	35	15	15
code	5001A40	5001A42	5001A52	5001A54

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
box	40	35	15	15
code	5002A40	5002A42	5002A52	5002A54

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
box	70	60	25	30
code	504040	504042	504052	504054

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
box	70	60	25	25
code	504140	504142	504152	504154

5090 - Elbow 90° C x C female/female solder end

Ø	6	8	10	12	14	15	16	18	20	22
box	3 000	2 000	1 800	1 000	800	700	600	450	300	280
code	509006	509008	509010	509012	509014	509015	509016	509018	509020	509022

Ø	25	28	32	35	40	42	52	54
box	200	150	120	90	55	55	20	20
code	509025	509028	509032	509035	509040	509042	509052	509054

5092 - Bend 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
box	55	50	20	20
code	509240	509242	509252	509254

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
box	60	35	30	15	15
code	513035	513040	513042	513052	513054

5130 - Reduced tee C x C x C female solder end

Ø	8/10/8	10/08/10	10/12/10	12/08/12	12/10/10	12/10/12	12/12/10	12/14/12	12/15/12	12/16/12	12/18/12
box	1 200	1 200	800	1 000	1 000	1 000	800	600	500	450	350
code	5130081008	5130100810	5130101210	5130120812	5130121010	5130121012	5130121210	5130121412	5130121512	5130121612	5130121812

Ø	14/10/14	14/12/12	14/12/14	14/14/12	14/16/14	14/18/14	15/12/15	15/15/12	15/18/15	15/22/15	16/12/12
box	700	550	550	600	500	300	500	500	300	200	600
code	5130141014	5130141212	5130141214	5130141412	5130141614	5130141814	5130151215	5130151512	5130151815	5130152215	5130161212

Ø	16/12/14	16/12/16	16/14/12	16/14/14	16/14/16	16/16/12	16/16/14	16/18/14	16/18/16	16/22/16	18/12/12
box	500	500	500	500	500	450	400	300	300	200	400
code	5130161214	5130161216	5130161412	5130161414	5130161416	5130161612	5130161614	5130161814	5130161816	5130162216	5130181212

Ø	18/12/18	18/14/14	18/14/16	18/14/18	18/15/15	18/15/18	18/16/14	18/16/16	18/16/18	18/18/14	18/18/16
box	380	350	350	350	360	300	350	350	300	300	300
code	5130181218	5130181414	5130181416	5130181418	5130181515	5130181518	5130181614	5130181616	5130181618	5130181814	5130181816

Ø	18/22/18	22/12/22	22/14/18	22/14/22	22/15/15	22/15/22	22/16/16	22/16/18	22/16/22	22/18/16	22/18/18
box	200	250	250	250	250	200	250		200	250	250
code	5130182218	5130221222	5130221418	5130221422	5130221515	5130221522	5130221616	5130221618	5130221622	5130221816	5130221818

Ø	22/18/22	22/22/14	22/22/16	22/22/18	22/28/22	28/12/28	28/14/28	28/16/28	28/18/22	28/18/28	28/22/22
box	200	200	200	180	100	140	140	130	120	120	100
code	5130221822	5130222214	5130222216	5130222218	5130222822	5130281228	5130281428	5130281628	5130281822	5130281828	5130282222

Ø	28/22/28	28/28/18	28/28/22	28/35/28	32/22/32	32/28/32	35/18/35	35/22/28	35/22/35	35/28/28	35/28/35
box	100	100	80	65	90	80	100	90	85	80	75
code	5130282228	5130282818	5130282822	5130283528	5130322232	5130322832	5130351835	5130352228	5130352235	5130352828	5130352835

Ø	35/35/22	35/35/28	35/42/35	42/22/42	42/28/42	42/35/42	54/22/54	54/28/54	54/35/54	54/42/54
box	60	55	40	50	50	40	30	25	25	20
code	5130353522	5130353528	5130354235	5130422242	5130422842	5130423542	5130542254	5130542854	5130543554	5130544254

5270 - Socket C x C female/female solder end

Ø	6	8	10	12	14	15	16	18	20	22
box	3 500	3 000	1 700	1 500	1 200	1 000	1 000	700	400	400
code	527006TH	527008TH	527010	527012	527014	527015	527016	527018	527020	527022

Ø	28	32	35	36	40	42	52	54
box	200	200	170	150	100	90	50	45
code	527028	527032	527035	527036	527040	527042	527052	527054

5301 - Cap C female solder end

Ø	10	12	14	15	16	18	22	28	35	42	54
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

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	28/20	28/22	32/22	32/28	35/22	35/28	40/28
box	300	280	280	280	280	280	200	180	150	140	
code	52402812	52402814	52402816	52402818	52402820	52402822	52403222	52403228	52403522	52403528	52404028

Ø	40/32	42/18	42/22	42/28	42/32	42/35	52/32	52/42	54/28	54/35	54/42
box	125	135	120			100			55	50	50
code	52404032	52404218	52404222	52404228	52404232	52404235	52405232	52405242	52405428	52405435	52405442

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	15/14	16/10	16/12	16/14
box	3 000	3 000	2 000	2 000	1 300	1 200	1 200	1 000	1 200	1 100	1 000
code	52430806	52431008	52431208	52431210	52431410	52431412	52431512	52431514	52431610	52431612	52431614

Ø	16/15	18/10	18/12	18/14	18/15	18/16	22/12	22/14	22/15	22/16	22/18
box	1 000	1 000	800	800	800	800	600	550	550	550	500
code	52431615	52431810	52431812	52431814	52431815	52431816	52432212	52432214	52432215	52432216	52432218

Ø	28/12	28/14	28/16	28/18	28/22	32/18	32/22	32/28	35/22	35/28	40/28
box	300	300	300	300	280	200	200	160	180	140	
code	52432812	52432814	52432816	52432818	52432822	52433218	52433222	52433228	52433522	52433528	52434028

Ø	40/32	42/22	42/28	42/32	42/35	54/22	54/28	54/35	54/42
box	120	140	120		100	70	60	55	50
code	52434032	52434222	52434228	52434232	52434235	52435422	52435428	52435435	52435442

5060 - Bend 180° C x C female/female solder end

Ø	10	12	15	16	18	22	28	35	42	54
box	800	500	200	200	180	90	55	20	12	5
code	506010	506012	506015	506016	506018	506022	506028	506035	506042	506054

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

To be ordered by pack of 10 pcs up to 1"; pack of 5 pcs above

Brass compression fittings with brass olive

Recommended tightness torque: 10 to 15 Nm for 3/8", 15 to 20 Nm for 1/2", 20 to 25 Nm for 3/4".

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	3/4"-20	1"-22
code	ES7001210	ES7001212	ES7001512	ES7001514	ES7001516	ES7001716	ES7002018	ES7002020	ES7002622

BS700 - Olive

Ø	8	10	12	14	16	18	20	22
code	BS70008	BS70010	BS70012	BS70014	BS70016	BS70018	BS70020	BS70022

To be ordered by pack of 10 pcs up to 1"; pack of 5 pcs above

Brass threaded fittings

For heating & sanitary applications - Material: 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).

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	12-3/8"	14-3/8"	12-1/2"	14-1/2"	15-1/2"	16-1/2"
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"	12-1/2"-B.14.5	14-1/2"-B.14.5	15-1/2"	16-1/2"
box	750	750	750	750	500	500	500	500	500	500	500
code	243GC1012	243GC1212	243GC1412	243GC1612	243GC1015	243GC1215	243GC1415	243GC1215G	243GC1415G	243GC1515	243GC1615

Ø	18-1/2"	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"
box	500	350	350	350	350	400	300	220	200	200	180
code	243GC1815	243GC1420	243GC1520	243GC1620	243GC1820	243GC2020	243GC2220	243GC2820	243GC1826	243GC2226	243GC2826

Ø	32-1"	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	160	100	100	120	120	100	100	70	70	40	40
code	243GC3226	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	36-1"1/2	40-1"1/2	42-1"1/2	52-2"	54-2"
box	80	80	80	80	80	80	80	42	16
code	270GC3233	270GC3533	270GC3633	270GC3240	270GC3640	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"	20-3/4"
box	720	720	600	600	600	600	400	400	300	300	300
code	359GC1012	359GC1212	359GC1015	359GC1215	359GC1415	359GC1515	359GC1220	359GC1420	359GC1620	359GC1820	359GC2020

Ø	18-1"	20-1"	22-1"	28-1"1/4	32-1"1/4	36-1"1/2	40-2"
box	200	200	100	80	80	80	30
code	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	
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	15	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"1/4
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

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

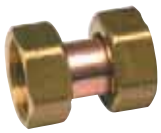
Ø	16-3/4"	18-3/4"	20-3/4"	22-3/4"	22-1"	28-1"	28-1"1/4	32-1"1/4	40-1"1/4	42-1"1/2
box	400	400	300	300	200	200	100	100	60	60
code	359GCL1620	359GCL1820	359GCL2020	359GCL2220	359GCL2226	359GCL2826	359GCL3228	359GCL3233	359GCL4040	359GCL4042

5002 GC - 2 piece elbow copper/brass - Flat bearing

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

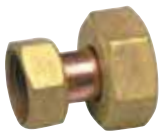
Ø	22-3/4"	22-1"	28-1"
box	200	100	100
code	5002GC2220	5002GC2226	5002GC2826

R 80 - Equal socket female/female - Flat bearing



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

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

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

270 R - Nipple

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

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"1/2	3/4"	1"
box	80	50	30
code	180G15	180G20	180G26

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

Ø	1/2"-3/8"
box	400
code	94G1512R

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

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		
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

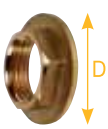
Ø	10-3/8"	12-3/8"	10-1/2"	12-1/2"	14-1/2"	15-1/2"	16-1/2"	12-3/4"	14-3/4"	16-3/4"
box	1 000	1 000		700	700	700	700	450	450	450
code	374G1012	374G1212	374G1015	374G1215	374G1415	374G1515	374G1615	374G1220	374G1420	374G1620

Ø	18-3/4"	20-3/4"	22-3/4"	18-1"	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	250	150	150	150
code	374G1820	374G2020	374G2220	374G1826	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

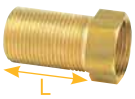


Ø	3/8"	1/2"	3/4"	1"
box	900	620	350	220
D	30	35	45	54
code	169GL12	169GL15	169GL20	169GL26

280 GL - Extension male/male

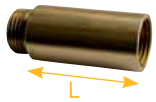
Ø	3/8"	1/2"	3/4"	1"
box	400	250	140	80
L	40	40	40	40
code	280GL12	280GL15	280GL20	280GL26

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"
box	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	3/8"	1/2"	3/4"	1"
box	20	20	20	8
code	CU12PP	CU15PP	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"
box	1 500	1 500	800	320	200	100	80	50
code	292G08	292G12	292G15	292G20	292G26	292G33	292G40	292G50

199 G - Nut reduced 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	
code	199G1512	199G2012	199G2015	199G2615	199G2620	199G3326	199G4033

241 G - Nipple reduced 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"Al.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 - Nipple reduced 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

To be ordered by pack of 10 pcs up to 1"; pack of 5 pcs above

Chrome-plated threaded fittings

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 - Nipple

Ø	3/8"	1/2"	3/4"
box	700	450	300
code	270R12CH	270R15CH	270R20CH

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

374 GCH - Nut female

Ø	10-3/8"	12-3/8"	12-1/2"	14-1/2"	16-1/2"	14-3/4"	16-3/4"	18-3/4"
box	500	500	350	500	500	450	450	350
code	374G1012CH	374G1212CH	374G1215CH	374G1415CH	374G1615CH	374G1420CH	374G1620CH	374G1820CH

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

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

270 GCH - Equal socket with thrust female

Ø	3/8"	1/2"	3/4"
box	300	200	200
code	270G12CH	270G15CH	270G20CH

241 GCH - Nipple reduced female/male

Ø	1/2"-3/8"	3/4"-1/2"	1"-3/4"
box	250	300	250
code	241G1512CH	241G2015CH	241G2620CH

246 GCH - Nipple reduced male/female

Ø	1/2"-3/8"	3/4"-1/2"	1"-3/4"
box	300	200	200
code	246G1512CH	246G2015CH	246G2620CH

243 GCH - Nipple male/reduced female

Ø	1/2"-3/8"	3/4"-1/2"
box	300	300
code	243G1512CH	243G2015CH

240 GCH - Reduced socket female

Ø	1/2"-3/8"	3/4"-1/2"
box	250	200
code	240G1512CH	240G2015CH

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

246 ECH - Equal nipple male/female

Ø	3/8"	1/2"	3/4"	1"
box	250	250	200	150
code	246E12CH	246E15CH	246E20CH	246E26CH

Wall connection

Ø	1/2"	12*	14*
code	AMC	AMC12	AMC14

* with nut & gasket

Brass fittings for PE pipes

Material: brass CW617N - Agreement: DIN 8076-1 - Excluded from 97/23/CE directive (article 1, § 3.2) - 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	20-3/8"	25-1/2"	32-3/4"	40-1"	50-1"1/4	63x1"1/2
code	862320	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

Spare rings

Ø	20	25	32
code	498204	498254	498324

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
* 10	005520
* 25	005620
* 50	005720
* 100	005820

Ø 25 - 6,3 bar	
length (m)	code
* 10	005525
** 25	005625
** 50	005725
** 100	005825

Ø 32 - 6,3 bar	
length (m)	code
* 10	005532
** 25	005632
** 50	005732
** 100	005832

* Low density: 6,3 bar
** High density: 12,5 bar

Blue strip pipes

High density - For drinking water distribution.

Ø 20 - 16 bar	
length (m)	code
10	006520
25	006620
50	006720
100	006820

Ø 25 - 16 bar	
length (m)	code
10	006525
25	006625
50	006725
100	006825

Ø 32 - 12,5 bar	
length (m)	code
10	005582
25	005682
50	005782
100	005882

Polypropylene fittings for PE pipes

Excluded from 97/23/EC directive (article 1, §3.2) - 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

Reduced male

Ø	25-1/2"	32-1/4 "	40-1"	63-1"1/2
box	10	10	1	1
code	1000025	1000032	1000040	1000063

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

Reduced socket

Ø	20/16	25/20	32/25	40/32
box	10	10	10	10
code	1006020	1006025	1006032	1006040

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 reduced tee

Ø	25/20	32/25
box	10	10
code	1008025	1008032

Reduced female threaded tee

Ø	25-1/2"F	32-3/4"F	40-1"F
box	10	10	1
code	1016025	1016032	1016040

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° 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

Elbow 90° reduced female

Ø	25-1/2"	32-3/4"
box	10	10
code	1015025	1015032

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, 12 mm wide, 0,075 mm thick.

code	262204

Excluded from 97/23/EC directive (article 1, §3.2) - For water supply & distribution networks (polyethylene and PVC pipes) - Polypropylene body - NBR o-ring - PS: 10 bar - TS: -10°C/+45°C.

ISO 9001

Tapping bridge

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

PER pipes

Heating & sanitary installations - Corrosion resistent - Flexible & easy to use - Low head loss thanks to PER pipe interior surface.

PER bare pipe

Ø	coil length (m)	blue code	red code
10 x 12	25	PERB1225	PERR1225
	120	PERB12120	PERR12120
	240	PERB12240	PERR12240
13 x 16	25	PERB1625	PERR1625
	80	PERB1680	PERR1680
	120	PERB16120	PERR16120
	200	PERB16200	PERR16200
	240	PERB16240	PERR16240
	600	-	PERR16600
	800	-	PERR16800
16 x 20	120	PERB20120	PERR20120
	240	PERB20240	PERR20240
20 x 25	50	PERB2550	PERR2550
	100	PERB25100	PERR25100

PER pre-sheated pipe

Ø	coil length (m)	blue code	red code
10 x 12	25	PERPB1225	PERPR1225
	50	PERPB1250	PERPR1250
	100	PERPB12100	PERPR12100
13 x 16	25	PERPB1625	PERPR1625
	50	PERPB1650	PERPR1650
	100	PERPB16100	PERPR16100
16 x 20	25	PERPB2025	PERPR2025
	50	PERPB2050	PERPR2050
20 x 25	50	PERPB2550	PERPR2550

To be ordered by pack of 25 pcs up to Ø 20, individually above

Radial press fittings

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 (according 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.

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	450	300	450	450	450	300	300	300	200	200
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	450	450	450	450	300	300	300	200
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	450	450	450	300	300	300	200	200
code	RF812	RF816	RF212	RF216	RF220	RF416	RF420	RF425

Equal socket

Ø	12	16	20	25
box	450	450	300	300
code	RMA12	RMA16	RMA20	RMA25

Reduced socket

Ø	12-16	12-20	16-20	16-25	25-20
box	450	300	300	300	200
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	450	450	450	300	300	300	200
code	RCE812	RCE212	RCE216	RCE220	RCE416	RCE420	RCE425

Elbow

Ø	12	16	20	25
box	300	300	300	200
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	300	300	300	300	200	200
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	300	300	300	200	200
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	200	200	200	200	200	200
code	RCA212	RCA216	RCA220	RCAL212	RCAL216	RCAL220

Tee wall connection*

Ø	12-M3/8"-F1/2"	16-M3/8"-F1/2"
box	160	160
code	RTAMF12	RTAMF16

*pack of 20 pcs

Equal tee

Ø	12	16	20	25
box	200	200	200	150
code	RT12	RT16	RT20	RT25

Tee female

Ø	1/2"-12	1/2"-16	1/2"-20
box	200	200	200
code	RTF212	RTF216	RTF220

Tee male

Ø	1/2"-16
box	200
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	200	200	200	200	200	200	200	200	200	200	120
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	20x25-18	20x25-22
box	500	450	450	450	450	450	300	300	300	300	300	200
code	RAC1210	RAC1212	RAC1214	RAC1614	RAC1616	RAC1618	RAC2016	RAC2018	RAC2020	RAC2022	RAC2518	RAC2522

Elbow adaptor for copper piper

Ø	10x12-12	10x12-14	13x16-14	13x16-16	16x20-16
box	300	300	300	300	300
code	RCAC1212	RCAC1214	RCAC1614	RCAC1616	RCAC2016

Ball valve for press fitting

Ø	1/2"-12	1/2"-16
box	150	150
code	VANPR212	VANPR216

Sphero-conical free nut

Ø	3/4"-12	3/4"-16
box	300	300
code	RESC412	RESC416

Sleeve

Ø	12	16	20	25
code	RB12	RB16	RB20	RB25

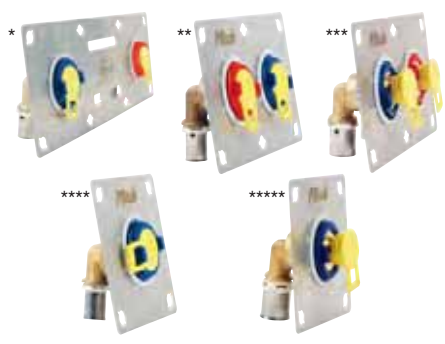
Wall outlet*

Ø	pipe 10x12	pipe 13x16	pipe 16x20
box	40	40	40
code	RSC12	RSC16	RSC20

*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	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

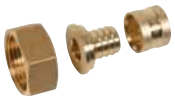
	center distance (mm)	pack	code
*	150	14	PLACINOX
**	55	32	PLACINOX55
***		32	PLACINOXMONO

To be ordered by pack of 25 pcs up to Ø20, individually above

Sliding sleeve fittings

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 (according 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.

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	1"-32
box	450	450	450	450	300	300	300	300	300	150
code	E812	E816	E212	E216	E220	E416	E420	E425	E1025	E1032

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	1"-32
box	450	450	450	450	300	300	300	300	150
code	M812	M816	M212	M216	M220	M416	M420	M425	M1032

Female

Ø	3/8"-12	3/8"-16	1/2"-12	1/2"-16	1/2"-20	3/4"-20	3/4"-25
box	450	450	450	300	300	200	200
code	F812	F816	F212	F216	F220	F420	F425

Elbow

Ø	12	16	20	25	32
box	300	300	300	200	150
code	C12	C16	C20	C25	C32

Elbow male

Ø	3/8"-12	3/8"-16	1/2"-12	1/2"-16	1/2"-20	3/4"-25
box	300	300	300	300	300	150
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	300	300	300	300	300	200
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	1"-32
box	200	300	300	200	200	200	150	90
code	CE816	CE212	CE216	CE220	CE416	CE420	CE425	CE1032

Short elbow wall female connection

Ø	1/2"-12	1/2"-16	1/2"-20
box	200	200	200
code	CA212	CA216	CA220

Long elbow female wall connection

Ø	1/2"-12	1/2"-18	1/2"-20
box	200	200	200
code	CAL212	CAL216	CAL220

Long elbow male wall connection

Ø	3/8"-12	3/8"-16
box	150	150
code	CALM812	CALM816

Tee wall connection*

Ø	12-M3/8"-F1/2"	16-M3/8"-F1/2"
box	160	160
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*	32-1"-32**
box	200	200	200	120	60
code	TF212	TF216	TF220	TF425	TF1032

* pack of 20 pcs - ** pack of 12 pcs

Tee male

Ø	12-1/2"-12	16-1/2"-16	20-1/2"-20	25-3/4"-25	32-1"-32*
box	300	200	200	150	90
code	TM212	TM216	TM220	TM425	TM1032

* pack of 15 pcs

Equal tee

Ø	12-12-12	16-16-16	20-20-20	25-25-25	32-32-32*
box	200	200	200	150	90
code	T12	T16	T20	T25	T32

* pack of 15 pcs

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	200	200	200	200	200	200	200	200	200	150	150
code	T161212	T161216	T161612	T162016	T201216	T201616	T201620	T202016	T202520	T252020	T252025

Equal socket

Ø	12	16	20	25	32
box	450	450	300	200	150
code	MA12	MA16	MA20	MA25	MA32

Reduced socket

Ø	12-16	12-20	16-20	20-25	25-32
box	450	450	450	150	150
code	MA1216	MA1220	MA1620	MA2025	MA2532

Adaptor for copper pipe

Ø	10x12-12	10x12-14	13x16-12	13x16-14	13x16-16	13x16-18	16x20-16	16x20-18
box	450	450	450	450	450	450	300	300
code	AC1212	AC1214	AC1612	AC1614	AC1616	AC1618	AC2016	AC2018

Elbow adaptor for copper pipe

Ø	10x12-12	10x12-14	13x16-12	13x16-14	13x16-16	16x20-16	16x20-18
box	450	450	450	450	450	300	300
code	CAC1212	CAC1214	CAC1612	CAC1614	CAC1616	CAC2016	CAC2018

Bracket for wall outlet SC12 & SC16

box	50
code	EQU

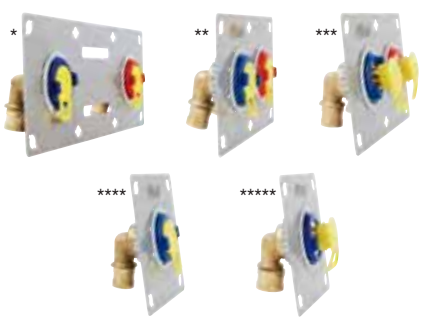
Sleeve

Ø	12	16	20	25	32
code	B12	B16	B20	B25	B32

Wall outlet*

Ø	pipe 10x12	pipe 13x16
box	40	40
code	SC12	SC16

*pack of 5 pcs



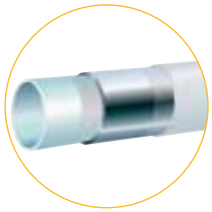
Support system for plasterboard

	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			PLACM812MONO
	M 3/8" - 13 x 16			PLACM816MONO

Stainless steel board set

	center distance (mm)	pack	code
*	150	14	PLACINOX
**	55	32	PLACINOX55
***		32	PLACINOXMONO

Guarantee 10 Years



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 years guarantee.

Single pipe

Coil

Ø	coil length (m)	code
16 x 2	25	MCT1625
	100	MCT16100
	200	MCT16200
	240	MCT16240
	500	MCT16500
20 x 2	25	MCT2025
	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	2,5 x 20	MCT162.5
	5 x 15	MCT16
20 x 2	2,5 x 20	MCT202.5
	5 x 10	MCT20
26 x 3	2,5 x 10	MCT262.5
	5 x 10	MCT26
32 x 3	5 x 4	MCT32

Pre-sheathed pipes

Coil

Ø	coil length (m)	blue sheath code	red sheath code
16 x 2	25	MCTPB1625	MCTPR1625
	50	MCTPB1650	MCTPR1650
	100	MCTPB16100	MCTPR16100
20 x 2	25	MCTPB2025	MCTPR2025
	50	MCTPB2050	MCTPR2050
	100	MCTPB20100	MCTPR20100
26 x 3	50	MCTPB2650	MCTPR2650

Cutter-pipe

	code
Ø 16 to 26	MCCT
Ø 16 to 75	MCCT75

To be ordered by pack of 10 pcs up to Ø20

Radial press fittings

Radial press F type - Compatible with TH & B types from Ø 16 to Ø 32 only - Pipes & fittings system: 10 years guarantee.

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	MCRE816	MCRE216	MCRE416	MCRE220	MCRE420	MCRE1020	MCRE426	MCRE1026	MCRE1032	MCRE1432

Ø	1"1/2-32	1"1/4-40	1"1/2-40	2"-50	2"-63
box	5	3	3	2	2
code	MCRE1232	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	MCRF216	MCRF220	MCRF420	MCRF426	MCRF1026	MCRF1032	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	MCRM816	MCRM216	MCRM416	MCRM220	MCRM420	MCRM1020	MCRM426	MCRM1026	MCRM1032	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

	PPSU							Brass
Ø	16	20	26	32	40	50	63	75
pack	10	10	5	5	3	2	1	1
code	MCRMA16	MCRMA20	MCRMA26	MCRMA32	MCRMA40P	MCRMA50P	MCRMA63P	MCRMA75

Reduced socket

	PPSU					
Ø	16-20	16-26	20-26	20-32	26-32	40-50
pack	10	5	5	5	5	2
code	MCRMA1620	MCRMA1626	MCRMA2026	MCRMA2032	MCRMA2632	MCRMA4050P

	Brass							
Ø	26-40	32-40	32-50	40-63	40-75	50-63	50-75	63-75
pack	3	3	2	1	1	1	1	1
code	MCRMA2640	MCRMA3240	MCRMA3250	MCRMA4063	MCRMA4075	MCRMA5063	MCRMA5075	MCRMA6375

Elbow 90° male

	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	MCRCM816	MCRCM216	MCRCM220	MCRCM420	MCRCM426	MCRCM1032	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	MCRCF216	MCRCF220	MCRCF420	MCRCF426	MCRCF1032

Elbow 90° with free nut

	Brass			
Ø	1/2"-16	3/4"-16	3/4"-20	1"-26
pack	10	10	10	10
code	MCRCE216	MCRCE416	MCRCE420	MCRCE1026

Elbow 90°

	PPSU							Brass
Ø	16	20	26	32	40	50	63	75
pack	10	10	5	5	3	2	1	1
code	MCRC16	MCRC20	MCRC26	MCRC32	MCRC40P	MCRC50P	MCRC63P	MCRC75

Elbow 45°

	PPSU					Brass
Ø	26	32	40	50	63	75
pack	5	5	3	2	1	1
code	MCRC2645	MCRC3245	MCRC4045P	MCRC5045P	MCRC6345P	MCRC7545

Tee female

	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	MCRTF216	MCRTF220	MCRTF420	MCRTF226	MCRTF426	MCRTF232	MCRTF432	MCRTF1032	MCRTF240	MCRTF440

Ø	50-3/4"-50	63-1"-63	75-1"-75
box	1	1	1
code	MCRTF450	MCRTF1063	MCRTF1075

Tee male

	Brass				
Ø	16-1/2"-16	20-1/2"-20	20-3/4"-20	26-3/4"-26	32-3/4"-32
pack	10	10	10	5	5
code	MCRTM216	MCRTM220	MCRTM420	MCRTM426	MCRTM432

Bracket for elbow wall connection

code
MCREQU

Equal tee

	PPSU						Brass	
Ø	16	20	26	32	40	50	63	75
pack	10	10	5	5	3	2	1	1
code	MCRT16	MCRT20	MCRT26	MCRT32	MCRT40P	MCRT50P	MCRT63	MCRT75

Reduced tee with reduced central outlet

	PPSU						
Ø	20-16-20	26-16-26	26-20-26	32-16-32	32-20-32	32-26-32	50-40-50
pack	10	5	5	5	5	5	2
code	MCRT201620	MCRT261626	MCRT262026	MCRT321632	MCRT322032	MCRT322632	MCRT504050P

	Brass										
Ø	40-20-40	40-26-40	40-32-40	50-20-50	50-26-50	50-32-50	63-32-63	63-40-63	63-50-63	75-40-75	75-50-75
pack	3	3	3	2	2	2	1	1	1	1	1
code	MCRT402040	MCRT402640	MCRT403240	MCRT502050	MCRT502650	MCRT503250	MCRT633263	MCRT634063	MCRT635063	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	MCRT201616	MCRT262020	MCRT322626

Reduced tee with enhanced central outlet

	PPSU	
Ø	16- 20-16	20-26-20
pack	10	5
code	MCRT162016	MCRT202620

Reduced tee with reduced end outlet

	PPSU	
Ø	20-20-16	26-26-20
pack	10	5
code	MCRT202016	MCRT262616

Reduced tee with 3 differents Ø

	PPSU
Ø	26-16-20
pack	5
code	MCRT261620

Press cap

Ø	16	20	26	32
pack	10	10	5	5
code	MCRBOU16	MCRBOU20	MCRBOU26	MCRBOU32

Adaptor for copper pipe

	Brass		
Ø	16x2-14	16x2-16	20x2-18
pack	10	10	10
code	MCRAC1614	MCRAC1616	MCRAC2018

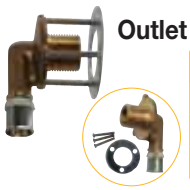
Stainless steel sleeve

Ø	10	20	26	32	40	50	63	75
pack	10	10	5	5	1	1	1	1
code	MCRB16	MCRB20	MCRB26	MCRB32	MCRB40	MCRB50	MCRB63	MCRB75

Short elbow wall connection - 35 mm

Ø	1/2"-16	1/2"-20	3/4"-26
pack	10	10	5
code	MCRCA216	MCRCA220	MCRCA426

Outlet wall connection set



Ø	ext. 3/4"-int.1/2"-16
pack	10
code	MCRSOR16

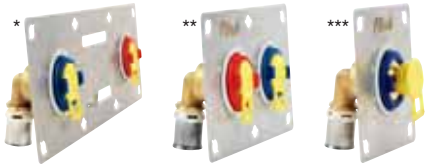
Long elbow wall connection - 78 mm

Ø	1/2"-16	1/2"-20
pack	10	10
code	MCRCAL216	MCRCAL220

Medium elbow wall connection - 52 mm

Ø	1/2"-16
pack	10
code	MCRCAM216

Support system for plasterboard



	Ø	center distance (mm)	pack	code
*	F 1/2" - 16 x 2	150	16	PLACMCR216
	F 1/2" - 20 x 2	150	16	PLACMCR220
**	F 1/2" - 16 x 2	55	32	PLACMCRF216
***	M 3/8" - 16 x 2		32	PLACMCRM816MONO

Stainless steel board set

center distance (mm)	pack	code
150	14	PLACINOX

Compression fittings

For 16 x 2, 20 x 2 & 26 x 3 multilayer pipes - ⚠ **Add a PTFE gasket for male fittings before connecting.**

Female

Ø	16-3/8"	16-1/2"	16-3/4"	20-1/2"	20-3/4"	26-1"
code	120034	120044	120054	120144	120154	120264

Male

Ø	16-3/8"	16-1/2"	20-1/2"	20-3/4"	26-3/4"	26-1"
code	121034	121044	121144	121154	121254	121264

Elbow female

Ø	16-1/2"
code	127044

Elbow male

Ø	16-1/2"
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

Elbow equal

Ø	16	20	26
code	125004	125104	125204

Wall connection

Ø	16-1/2"
code	129044

Sizing tool

For pipes Ø 16 to 26.

Ø	16-1/2"
code	123604

Compression fittings - Radiators connections

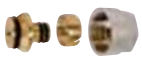
Free nut Eurocone 3/4"

For metal pipe Ø15 on male lockshield valves, valves for panel radiators & Eurocone 3/4"

code
437515

Free nut Eurocone

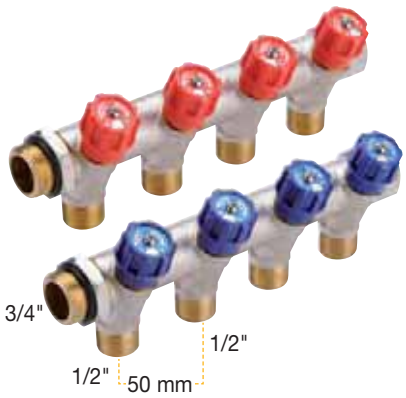
Connection on radiators & lockshields valves 3/4" male Eurocone (sold by 2)



Ø	code
F 3/4"-16	MCCEC416
F 3/4"-20	MCCEC420

Distribution manifolds

Flat bearing manifolds

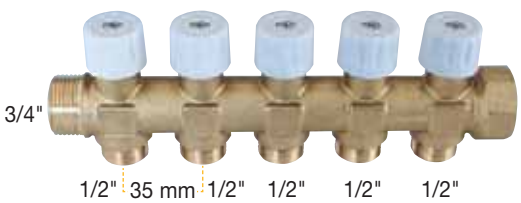


Sanitary manifolds with built-in valves

3/4" - Ø body 27 mm

Ø outlet 1/2" - Center distance 50 mm.

outlets	2	3	4	5
blue valve code	COLRB42	COLRB43	COLRB44	COLRB45
red valve code	COLRR42	COLRR43	COLRR44	COLRR45



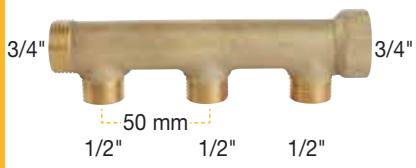
3/4" - Ø body 24,5 mm

Ø outlet 1/2" - Center distance 35 mm (compact).

outlets	2	3	4	5
code	SANR42	SANR43	SANR44	SANR45

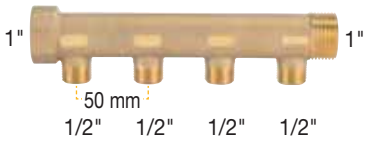
Sanitary manifolds with built-in valves

Male/female
3/4" - Ø body 24 mm for 2 to 6 outlets - Ø body 26 mm for 7 to 9 outlets
Ø outlet 1/2" - Center distance 50 mm.



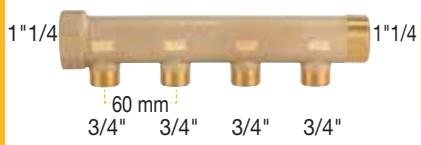
outlets	2	3	4	5	6	7	8	9
code	ECOMPF42	ECOMPF43	ECOMPF44	ECOMPF45	ECOMPF46	CCOMF47	CCOMF48	CCOMF49

1" - Ø body 30 mm
Ø outlet 1/2" - Center distance 50 mm.



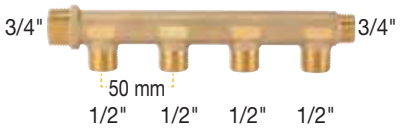
outlets	2	3	4	5	6	7
code	CCOMP102	CCOMP103	CCOMP104	CCOMP105	CCOMP106	CCOMP107

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 23 mm
Ø outlet 1/2" - Center distance 50 mm.

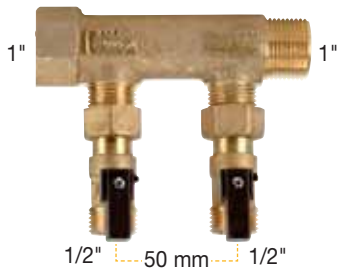


outlets	2	3	4	5	6	7	8	9	10
code	CCOMP41	CCOMP42	CCOMP43	CCOMP44	CCOMP45	CCOMP46	CCOMP47	CCOMP48	CCOMP49

Pre-equipped with valves
3/4" - Ø body 26 mm
Ø outlet 1/2" - Center distance 50 mm.

outlets	2	3	4	5	6
code	COLET42	COLET43	COLET44	COLET45	COLET46

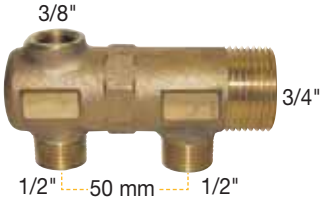
1" - Ø body 30 mm
Ø outlet 1/2" - Center distance 50 mm.



outlets	2	3	4	5	6
code	COLET102	COLET103	COLET104	COLET105	COLET106

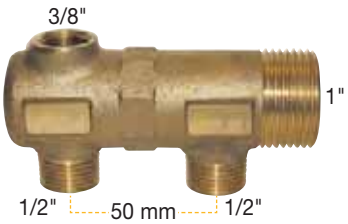
Single manifolds with draining outlet

3/4" - Ø body 25 mm for 2 to 5 outlets - Ø body 28 mm for 6 to 9 outlets
Ø outlet 1/2" - Center distance 50 mm.



outlets	2	3	4	5	6	7	8	9
code	SIMPP42	SIMPP43	SIMPP44	SIMPP45	SIMPP46	SIMPP47	SIMPP48	SIMPP49

1" - Ø body 30 mm for 2 to 4 outlets - Ø body 32 mm for 5 to 9 outlets
Ø outlet 1/2" - Center distance 50 mm.



outlets	2	3	4	5	6	7	8	9
code	SIMPP102	SIMPP103	SIMPP104	SIMPP105	SIMPP106	SIMPP107	SIMPP108	SIMPP109

Accessories for manifolds

Compact ball valve (FM1/2")

	code
With free nut for flat bearing manifolds	VANP2E

	code
Without free nut for flat bearing manifolds	678004

Drain cock ball valve

Ø	code
1/2" FM	ROB554

Fitting 2 outlets (F3/8" & F1/2")

Ø	code
3/4"	BOU599D4
1"	BOU599D10
1"1/4	BOU599D14

Plain cap for flat bearing

Ø	code
1/2"	300G15
3/4"	300G20
1"	300G26
1"1/4	300G33

Thermometer holder

F1/2" - M1/2" (threaded F1/4")

	code
	PORDER2

Brackets (sold by 2)

Ø	code
3/4"	SUP4
1"	SUP10
1"1/4	SUP658U

Single clips for pipe sheathes

(sold by box of 100)

Ø clip	16	18	20	22	25	28
pack	16 boxes	16 boxes	16 boxes	16 boxes	12 boxes	12 boxes
code	FIXS16	FIXS18	FIXS20	FIXS22	FIXS25	FIXS28

Double clips for pipe sheathes

(sold by box of 100, except Ø 28: box of 50)

Ø clip	16	18	20	22	25	28
pack	16 boxes	12 boxes	12 boxes	9 boxes	9 boxes	12 boxes
code	FIXD16	FIXD18	FIXD20	FIXD22	FIXD25	FIXD28

Ball valve with free nut (FM1/2")

	code
For conical bearing manifolds	VANDERC
For flat bearing manifolds	VANDERP

Ball valve with union fitting

Ø	code
3/4"	VAN5244
1"	VAN52410
1"1/4	VAN52414

Fitting 1 outlet (F3/8")

Ø	code
3/4"	BOU599R4
1"	BOU599R10
1"1/4	BOU599R14

Plain cap for conical bearing

Ø	code
1/2"	BOU599C2
3/4"	BOU599C4
1"	BOU599C10
1"1/4	BOU599C14

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	6	

Clips for housing cabinet

For 3/4" & 1" manifolds (sold by 4)

	code
Center distance 35 mm	SUP35
Center distance 50 mm	SUP50

Pipe guide angle

Ø pipe	12	16	20
pack	10	10	10
code	GT12	GT16	GT20

Quadruple clips for pipe sheathes (sold by box of 50)

Ø clip	20	25
pack	12 boxes	9 boxes
code	FIXQ20	FIXQ25

Gas flexible hoses

NEW

For domestic use only (stove, oven, cooktop, baking sheet, ...) - Blister packaging.

Natural gas - No expiration date

According to NF D36-121 -
1/2" connections - PS: 21 mbar.

length (m)	pack	code
0,75	10	FGN0750
1,00	10	FGN1000
1,25	10	FGN1250
1,50	5	FGN1500
2,00	5	FGN2000

Butane/propane - No expiration date

According to NF D36-125 - 1/2" x 20 x 150 connections - PS: butane 37 mbar; propane 28 mbar.

length (m)	pack	code
0,75	10	FGP0750
1,00	10	FGP1000
1,25	10	FGP1250
1,50	5	FGP1500
2,00	5	FGP2000

Natural gas - 10 year validity

According to NF D36-103 -
1/2" connections - PS: 21 mbar.

length (m)	pack	code
1,00	10	MN1000
1,25	10	MN1250
1,50	10	MN1500
2,00	10	MN2000

Butane/propane - 10 year validity

According to NF D36-112 - 1/2" x 20 x 150 connections - PS: butane 37 mbar; propane 28 mbar.

length (m)	pack	code
1,00	10	MP1000
1,25	10	MP1250
1,50	10	MP1500
2,00	10	MP2000

2 gasket set - natural gas

color	code
blue	JOISN

2 gasket set - butane/propane

color	code
orange	JOISP

Braided rubber flexible hoses

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 - Nickel plated 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.

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
		200	10	FF22 0200S
		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

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

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 1000S
		1200	10	CFF22 1200
	EF 3/4" - F 3/4"	1200	10	CFF44 1200
		1500	10	CFF44 1500
		2000	10	CFF44 2000

Elbow female/male

	fittings	length (mm)	pack	code
Ø 8 mm	EF 1/2" - M 1/2"	1000	10	CFM22 1000S
	EF 3/4" - M 3/4"	500	10	CFM44 0500S
		1000	10	CFM44 1000S

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 0300S
		500	10	FB8812 0500
	F 1/2" - Bicone 10	300	10	FB2810 0300S
		500	10	FB2810 0500
	F 1/2" - Bicone 12	300	10	FB2812 0300S
		500	10	FB2812 0500
	F 1/2" - Bicone 14	300	10	FB2214 0300S
		500	10	FB2214 0500S

Bicone/bicone

	fittings	length (mm)	pack	code
Ø 8 mm	Bicone 10 - Bicone 10	300	10	BB881010 0300
	Bicone 10 - Bicone 12	300	10	BB881012 0300S
		500	10	BB881012 0500
	Bicone 12 - Bicone 12	300	10	BB881212 0300
	Bicone 10 - Bicone 14	300	10	BB821014 0300S
		500	10	BB821014 0500
	Bicone 12 - Bicone 14	300	10	BB821214 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 0300S
	M 3/8" - Bicone 12	300	10	MB2812 0300

Female/sleek end

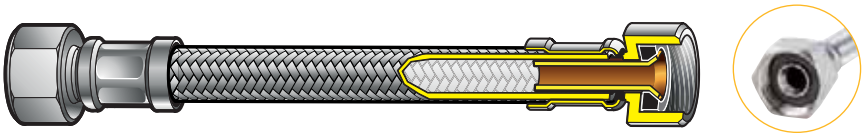
	fittings	length (mm)	pack	code
Ø 8 mm	F 3/8" - SE 10	300	10	FTL810 0300
	F 1/2" - SE 10	300	10	FTL210 0300

Male (short)/female

	fittings	length (mm)	pack	code
Ø 8 mm	M 10 - 1 short - F 3/8"	300	10	MXF8 0300S

Male (middle)/female

	fittings	length (mm)	pack	code
Ø 8 mm	M 10 - 1 middle - F 3/8"	300	10	MYF8 0300S

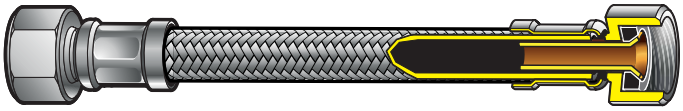


Hospital & collective housing - Bore Ø 8,2 mm

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

	fittings	length (mm)	pack	code
Ø 8 mm	F 1/2" - F 1/2"	300	10	PFF22 0300
		500	10	PFF22 0500
		700	10	PFF22 0700
		1000	10	PFF22 1000



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: 90°C / 10 bar - Water PH: 6 to 8 - Min. radial bending 50 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	10	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	10	GFF44 1500
		2000	10	GFF44 2000

Female/male

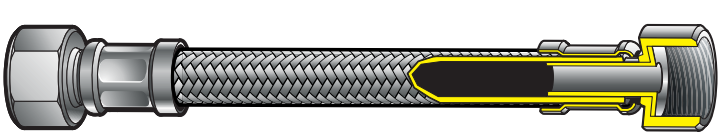
	fittings	length (mm)	pack	code
Ø 13 mm	F 1/2" - M 1/2"	300	10	GFM22 0300S
		500	10	GFM22 0500S
		700	10	GFM22 0700S
		1000	10	GFM22 1000S
	F 3/4" - M 1/2"	300	10	GFM42 0300
		500	10	GFM42 0500S
		700	10	GFM42 0700
	F 3/4" - M 3/4"	300	10	GFM44 0300S
		500	10	GFM44 0500S
		700	10	GFM44 0700S
		1000	10	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
		2000	10	GCFF22 2000
	EF 3/4" - F 3/4"	500	10	GCFF44 0500S
		700	10	GCFF44 0700S
		800	10	GCFF44 0800S
		1000	10	GCFF44 1000S
		1200	10	GCFF44 1200S
		1500	10	GCFF44 1500S
		2000	10	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
	EF 3/4" - M 3/4"	300	10	GCFM44 0300
		500	10	GCFM44 0500
		800	10	GCFM44 0800
		1000	10	GCFM44 1000



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 - 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	10	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	10	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	5	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	5	HFF1010 1000S
Ø 32 mm	F 1"1/4 - F 1"1/4	500	160	5	HFF1414 0500S
		700	160	5	HFF1414 0700S
		1000	160	5	HFF1414 1000S
Ø 40 mm	F 1"1/2 - F 1"1/2	500	180	5	HFF1212 0500S
		700	180	5	HFF1212 0700S
		1000	180	5	HFF1212 1000S
Ø 50 mm	F 2" - F 2"	500	230	5	HFF2020 0500S
		700	230	5	HFF2020 0700S
		1000	230	5	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	10	HFM22 1000S
Ø 19 mm	F 3/4" - M 3/4"	300	80	5	HFM44 0300S
		500	80	5	HFM44 0500S
		700	80	5	HFM44 0700S
		1000	80	5	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	5	HFM1010 1000S
Ø 32 mm	F 1"1/4 - M 1"1/4	500	160	5	HFM1414 0500S
		700	160	5	HFM1414 0700S
		1000	160	5	HFM1414 1000S
Ø 40 mm	F 1"1/2 - M 1"1/2	500	180	5	HFM1212 0500S
		700	180	5	HFM1212 0700S
		1000	180	5	HFM1212 1000S
Ø 50 mm	F 2" - M 2"	500	230	5	HFM2020 0500S
		700	230	5	HFM2020 0700S
		1000	230	5	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 0700S
		1000	70	10	HCFF22 1000S
Ø 19 mm	EF 3/4" - F 3/4"	300	80	10	HCFF44 0300S
		500	80	10	HCFF44 0500S
		700	80	10	HCFF44 0700S
		1000	80	10	HCFF44 1000S
Ø 25 mm	EF 1" - F 1"	500	100	5	HCFF1010 0500S
		700	100	5	HCFF1010 0700S
		1000	100	5	HCFF1010 1000S

Elbow female/female

	fittings	length (mm)	min. radial bending (mm)	pack	code
Ø 25 mm	EF 1" - M 1"	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

EPDM flexible hoses

Air conditioning, heating & heat pump - Bore Ø 13 to 50 mm

For air conditioning, heating, heat pump & solid fuel boiler - High resistance textile & EPDM hose - High springback - Ozone & condensate protection - Brass fittings - Aluminium sockets - TS: -40°C/+110°C - Max. pressure: 20 bar up to F1"-F1", 10 bar above - Water & glycol: max. 30% glycol.

Female/female

	fittings	length (mm)	Ø fitting bore (mm)	min. radial bending (mm)	code
Ø 13 mm	F 1/2" - F 1/2"	300	10,5	105	ITFF22 0300
		500	10,5	105	ITFF22 0500
		700	10,5	105	ITFF22 0700
		1000	10,5	105	ITFF22 1000
Ø 19 mm	F 3/4" - F 3/4"	300	15	150	ITFF44 0300
		500	15	150	ITFF44 0500
		700	15	150	ITFF44 0700
		1000	15	150	ITFF44 1000
Ø 25 mm	F 1" - F 1"	500	20	200	ITFF1010 0500
		700	20	200	ITFF1010 0700
		1000	20	200	ITFF1010 1000
Ø 32 mm	F 1"1/4 - F 1"1/4	500	27	250	ITFF1414 0500
		700	27	250	ITFF1414 0700
		1000	27	250	ITFF1414 1000
Ø 38 mm	F 1"1/2 - F 1"1/2	500	33	300	ITFF1212 0500
		1000	33	300	ITFF1212 1000
Ø 50 mm	F 2" - F 2"	500	44	350	ITFF2020 0500
		1000	44	350	ITFF2020 1000

Female/male

	fittings	length (mm)	Ø fitting bore (mm)	min. radial bending (mm)	code
Ø 13 mm	F 1/2" - M 1/2"	500	10,5	105	ITFM22 0500
		700	10,5	105	ITFM22 0700
		1000	10,5	105	ITFM22 1000
Ø 19 mm	F 3/4" - M 3/4"	300	15	150	ITFM44 0300
		500	15	150	ITFM44 0500
		700	15	150	ITFM44 0700
		1000	15	150	ITFM44 1000

Corrugated stainless steel flexible piping system

Guarantee 10 Years

Flexible & extensible hoses - Boilerflex

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	12,1	16,5	RFM22 090
		130 to 220	12,1	16,5	RFM22 130
		220 to 420	12,1	16,5	RFM22 220
16	F 3/4" - M 3/4"	90 to 140	16,1	21,5	RFM44 090
		130 to 220	16,1	21,5	RFM44 130
		220 to 420	16,1	21,5	RFM44 220
25	F 1" - M 1"	130 to 220	25,3	32,0	RFM1010 130
		220 to 420	25,3	32,0	RFM1010 220

Flexible pipes & fittings

Insulated solar panel connections

Guarantee: 10 years - Stainless steel 316L - Anti-UV insulation foam socket - Probe with PVC sheath for bi-pipe - Insulation thickness 13 mm - PS: 10 bar - TS: -57°C/+127°C (temporarely: +175°C).

supplied with 4 fitting sets:

Bi-pipe

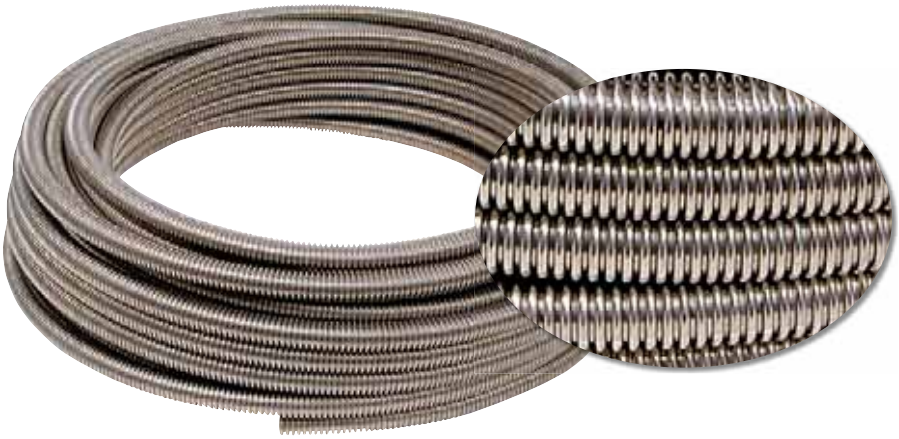
Sold only by coil

Ø pipe (mm)	fittings	coil length (m)	code
16	FF 3/4"	10	ECO1610C13
		15	ECO1615C13
		20	ECO1620C13
20	FF 1"	10	ECO2010C13
		15	ECO2015C13
		20	ECO2020C13

Heating, plumbing & air-conditioning connections

Guarantee: 10 years - Stainless steel 316L - Max. temperature & pressure: 300°C / 10 bar.

ISO 9001

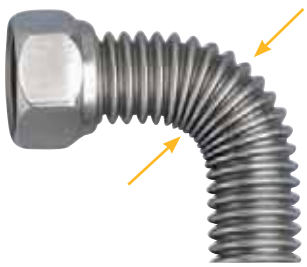


Cutter-pipe

code
ICT

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
	100	16,1	21,5	10	40	58	I16100
20	25	20,1	26,5	10	40	70	I2025
25	25	25,3	32	7	28	85	I2525

Complete set - Flat bearing

1 coil & 10 fitting sets

Ø pipe (mm)	coil length (m)	Ø fitting	code
16	15	3/4"	IKIT16

To be ordered by pack of 10 pcs

Fittings - Conical bearing

Female

Ø pipe (mm)	fittings	code
12	1/2"	IRF212
16	3/4"	IRF416
20	1"	IRF1020

Male

Ø pipe (mm)	fittings	code
12	1/2"	IRM212
16	3/4"	IRM416
20	1"	IRM1020

To be ordered by pack of 10 sets

Fittings - Flat bearing

Fittings sets

Nut + ring + gasket, sold by pack of 10 sets

Ø pipe (mm)	fittings	code
12	1/2"	IR12
16	3/4"	IR16
20	1"	IR20
25	1"1/4	IR25

Piston

code
IPISTON

Head

Ø pipe (mm)	code
12	ITE12
16	ITE16
20	ITE20
25	ITE25

Nipple

Economical solution for flat bearing instead of piston & head.

Ø	pack	code
1/2"	10	IM2
3/4"	10	IM4
1"	10	IM10
1"1/4	10	IM14

Heating

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Thermostatic radiator valves

thermador

Control head

Built-in sensor with liquid-filled element - Connection M30 x 1,5.

EN 215

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

To be ordered by multiple of 12 pcs

Manual radiator valves

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

Straight type

Ø	pack	code
1/2"	12/96	RRI15D

Female lockshield valves

Angle type

Ø	pack	code
1/2"	12/156	CRI15

Straight type

Ø	pack	code
1/2"	12/156	TRI15

Male radiator valves

Angle type

Ø	pack	code
1/2"	12/96	RRI15EM

Straight type

Ø	pack	code
1/2"	12/96	RRI15DM

Male lockshield valves

Angle type

Ø	pack	code
1/2"	12/156	CRI15M

Straight type

Ø	pack	code
1/2"	12/156	TRI15M

To be ordered by multiple of 12 pcs

Thermostatic radiator valves

Control head

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.

EN 215

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

5 mm key

Ø	packaging	pack	code
1/2"	blister of 10	50/200	BP15
1/2"	bulk	100/500	BP15V

Wheel air vent

Ø	packaging	pack	code
1/8"	blister of 10	50/200	PV05C
1/8"	bulk	100	PV05CV

Plain cap

Ø	packaging	pack	code
1/2"	blister of 10	50/200	BPL15
1/2"	bulk	100/500	BPL15V

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

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

Hostaform wheel air vent

Rubber seat & PTFE ring

Ø	packaging	pack	code
1/8"	bulk	50	PV05L

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

Square driving air vent

4 mm key

Ø	packaging	pack	code
1/8"	blister of 10	50/200	PC05C
1/8"	bulk	100	PC05CV

Mini drain cock with o-ring

Ø	packaging	pack	code
3/8"	blister of 10	50/200	RV12
3/8"	bulk	50	RV12V

Key for square driving air vent

	pack	code
4 mm	10	ZCLE4
5 mm	10	ZCLE5

Automatic hygroscopic air vent

Ø	pack	code
1/8"	25	PD05
1/4"	25	PD08
3/8"	25	PD12
1/2"	25	PD15

Drain cock ball valve

Ø	pack	code
1/2"	150	RVC15T

Conical drain valves

Male - Female

Ø	pack	code
3/8"	25	60112
1/2"	25	60115
3/4"	10	60120

Male & cap

Ø	pack	code
3/8"	25	60312
1/2"	25	60315
3/4"	10	60320

Female - Female

Ø	pack	code
3/8"	25	60212
1/2"	25	60215
3/4"	10	60220

Nozzle

Ø	pack	code
3/8"	25	ZRT12
1/2"	25	ZRT15
3/4"	25	ZRT20

NEW

Towel heaters

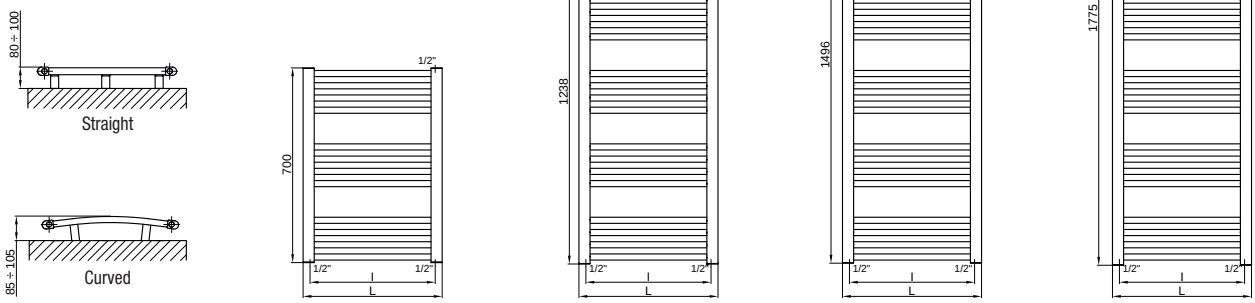
According to EN 442-1 - Laquered carbon steel 22 mm diameter vertical radiant bodies - 30 x 40 mm horizontal manifolds - White RAL 9016 - Support set & drain cock included - Connections 2 x 1/2"F & 1 x 1/2" for drain cock - Max. pressure: 8 bar - Max. temperature: +110°C - ⚠ Do not use any electric resistor with a power (W) higher than the one mentionned in the chart (power Δt = 50°C (W).

Straight

height (mm)	width (mm)	center distance (mm)	weight (kg)	volume (l)	power Δt = 50°C (W)	code
700	500	450	4,1	2,9	301	MAH500700D
1238	500	450	7,1	5,0	514	MAH5001238D
1238	600	550	7,9	5,7	598	MAH6001238D
1496	500	450	8,5	6,0	631	MAH5001496D
1496	600	550	9,5	6,8	728	MAH6001496D
1775	600	550	11,2	8,0	858	MAH6001775D

Curved

height (mm)	width (mm)	center distance (mm)	weight (kg)	volume (l)	power Δt = 50°C (W)	code
700	500	444	4,1	2,9	301	MAH500700G
1238	500	444	7,1	5,0	514	MAH5001238G
1238	600	546	7,9	5,7	598	MAH6001238G
1496	500	444	8,5	6,0	631	MAH5001496G
1496	600	546	9,5	6,8	728	MAH6001496G
1775	600	546	11,2	8,0	858	MAH6001775G



Electric sets for towel heater

When the boiler is off, the device offers the requested temperature & dries the towels - Includes: heating cartridge, chromed tee, control panel, o-rings & key.

Digital

Temperature setting: +5 to +30°C - 1 ou 2 h boost mode.

White

power (W)	code
200	KM0300DB
500	KM0500DB
750	KM0750DB
1000	KM1000DB
1250	KM1250DB

Grey

power (W)	code
300	KM0300DG
500	KM0500DG
750	KM0750DG
1000	KM1000DG
1250	KM1250DG

Analogue

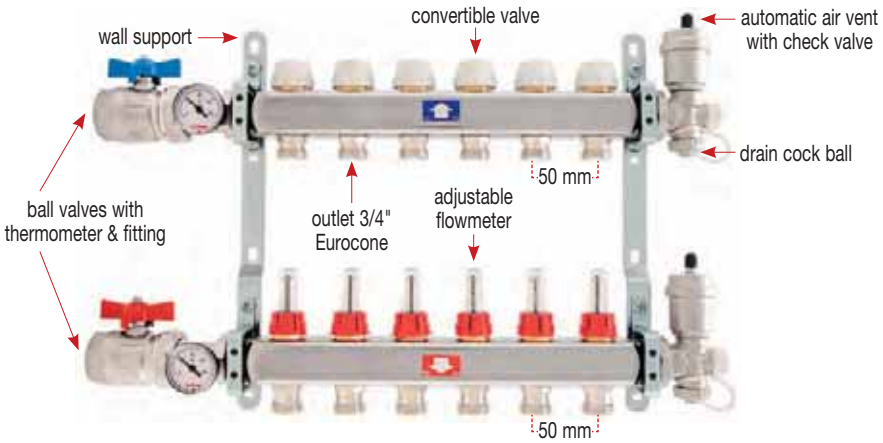
Temperature setting: +7 to +30°C. 2 h boost mode - 6 order pilot wire.

White

power (W)	code
300	KM0300AB
500	KM0500AB
750	KM0750AB
1000	KM1000AB
1250	KM1250AB

NEW

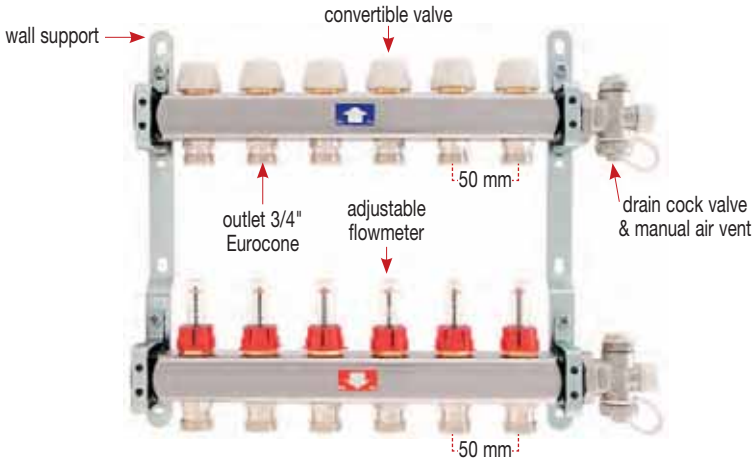
Stainless steel distribution manifolds



Complete set

Max. pressure: 6 bar -
Max. temperature: +70°C.

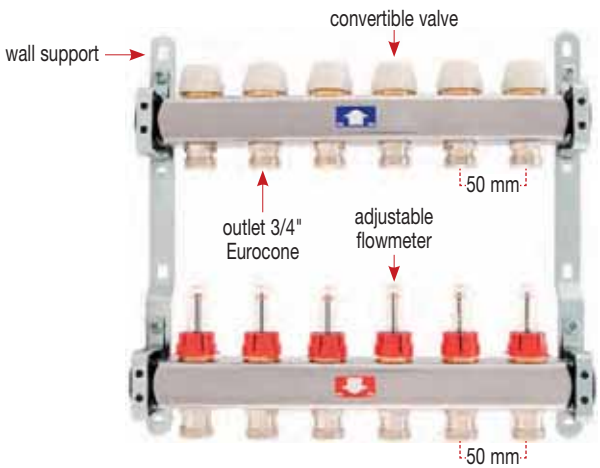
outlets	dimension (mm)	code
2	312	COLSTCI2
3	362	COLSTCI3
4	412	COLSTCI4
5	462	COLSTCI5
6	512	COLSTCI6
7	562	COLSTCI7
8	612	COLSTCI8
9	662	COLSTCI9
10	712	COLSTCI10



Set with flowmeters, air vents & drain cocks

Max. pressure: 6 bar -
Max. temperature: +70°C.

outlets	dimension (mm)	code
2	199	COLSTFADI2
3	249	COLSTFADI3
4	299	COLSTFADI4
5	349	COLSTFADI5
6	399	COLSTFADI6
7	449	COLSTFADI7
8	499	COLSTFADI8
9	549	COLSTFADI9
10	599	COLSTFADI10



Set with flowmeters

Max. pressure: 6 bar -
Max. temperature: +70°C.

outlets	dimension (mm)	code
2	143	COLSTFI2
3	193	COLSTFI3
4	243	COLSTFI4
5	293	COLSTFI5
6	343	COLSTFI6
7	393	COLSTFI7
8	443	COLSTFI8
9	493	COLSTFI9
10	543	COLSTFI10

Electrothermic head for stainless steel manifolds

No tension, normally closed - 1 m wire - 230V - 1W - TS: 0°C/+60°C - Δp: 1,5 bar - IP54 - 2 threads w/ a 300 mA auxiliary microswitch.

CE

code
TETI2

Fittings for distribution manifolds

Eurocone connection (compatible for stainless steel & brass distribution manifolds).

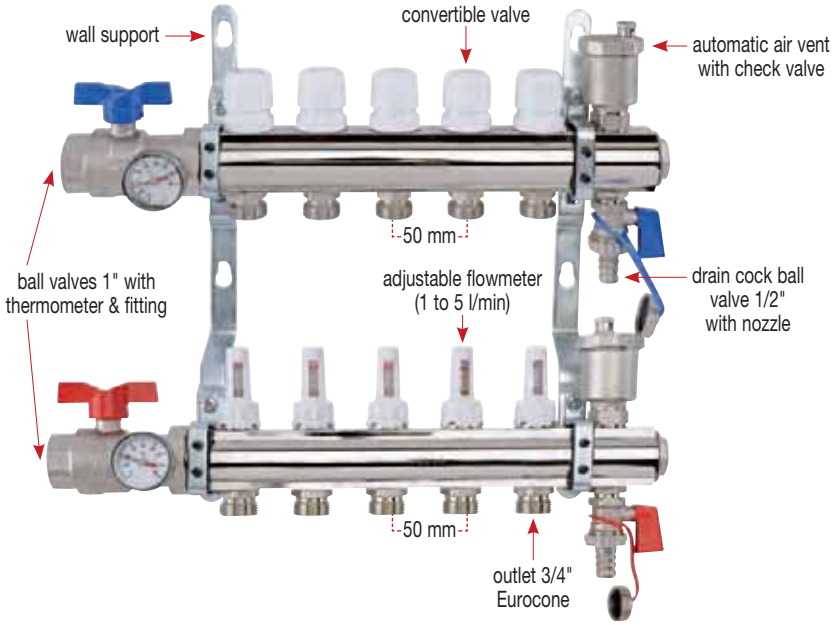
Fittings for multilayer pipes

Ø	pack	code
3/4" - 16x2	20/300	MCEUR341620I
3/4" - 20x2	20/300	MCEUR342020I

Fittings for plastic (PEX) pipes

Ø	pack	code
3/4" - 16x1,5	25/200	PEUR341615I
3/4" - 16x2	20/300	PEUR341620I
3/4" - 17x2	20/300	PEUR341720I

Brass distribution manifold



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

Accessories for brass distribution manifold

Flowmeter

code
DEBSTC

Thermometer

code
THESTC

Thermostatic shut-off valve

code
ROBTHSTC

Electrothermic head

No tension, normally closed - 1 m wire - 230V - 1,2W - Position indicator - M30 x 1,5.

code
TETPB

Air vent

code
PURSTC

Drain cock ball valve

1/2" inlet & 3/4" outlet

	code
Red	ROBSTCR
Blue	ROBSTCB

Wall support

(sold by 2)

code
SUPSTC

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

Accessories for heating floor slabs

Slab heating cutter

code
THE

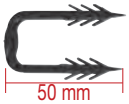
Spare blade

code
LAM

Mechanical staple

For AG400, AG500, AG40PLUS & AG55PLUS

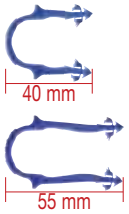
code
AGRAF



Jumpers

50 mm (sold by 500)

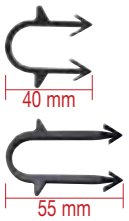
code
CAV



High performance thermic staples

(sold by box of 300)

	pack	code
40 mm	20 boxes	AG40PLUS
55 mm	10 boxes	AG55PLUS

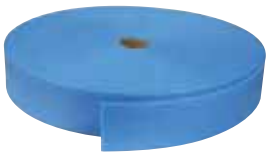


Staples

for 13x16 & 16x20 pipes (sold by box of 300)

	pack	code
40 mm	20 boxes	AG400
55 mm	10 boxes	AG550

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 150 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

(sold by roll)

	pack	code
50 m x 120 mm - 5 mm thick	10 rolls	ISOFBAM
50 m x 150 mm - 5 mm thick	8 rolls	ISOFBAM2

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

Blister

code
PINCOU

For pipes up to Ø 32

Blister

Box of 10

code
PINCT
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

	pack	code
1 l	16	PAR1
5 l		PAR5

Filling pump

	code
For Para-heating 1 l	POM1
For Para-heating 5 l	POM5

Circulators for domestic use

According to the 2013 & 2015 European Directive ErP 2009/125/EC - EEI between 0,19 & 0,23 - Max. pressure: 10 bar - IP44 - Insulation class: F - 230V~50/60Hz - Max. glycol: 30%.

EVOSTA

0,4 to 3,3 m³/h up to 6,9 m - Temperature range: +2°C/+95°C.

	length (mm)	Ø	code
EVOSTA 40	130	1"1/2	EVA4070130
	130	1"	EVA407013026
	180	1"1/2	EVA4070180
	180	2"	EVA4060180X
	120	oval flanges	EVA4060120

EVOTRON

0,4 to 4,2 m³/h up to 8 m - Temperature range: -10°C/+110°C.

	length (mm)	Ø	code
EVOTRON 40	130	1"1/2	EV40130
	180	1"1/2	EV40180
	180	2"	EV40180X
	130	1"	EV4013026
EVOTRON 60	130	1"1/2	EV60130
	180	1"1/2	EV60180
	180	2"	EV60180X
	130	1"	EV6013026
EVOTRON 80	130	1"1/2	EV80130
	180	1"1/2	EV80180
	180	2"	EV80180X

Insulation for threaded circulators

code
CIEVA

Oval DN25 flanges with bolts

(sold by set of 2)

Ø	pack	code
3/4" F	50	ZCB20
1" F	35	ZCB26
1"1/4 F	25	ZCB33

Rinsing sleeve for threaded circulators

Includes 2 valves & 2 nozzles

length (mm)	code
130	MR130
180	MR180

Union fittings (sold by 2)

For threaded circulators Ø 1"1/2

Threaded

	Ø	pack	code
Cast iron	3/4" F	24	ZRU20
Cast iron	1" F	24	ZRU26
Carbon steel	1"1/4 M	24	ZRU33M

	Ø	pack	code
Brass	1/2" F	50	ZRUL15
Brass	3/4" F	50	ZRUL20
Brass	1" F	50	ZRUL26

Welding

	Ø	pack	code
Brass	22	50	ZRCU22
Brass	28	50	ZRCU28

For threaded circulators Ø 2"

Threaded

	Ø	pack	code
Cast iron	1"1/4 F	24	ZRU33F

Threaded oval flanges with gaskets & bolts

(sold by set of 2)

Ø	code
1"1/2	ZBO40
2"	ZBO50

Adaptors with gaskets

(sold by set of 2)

Ø	code
1"1/2 - 2"	ZF4050

Threaded fitting with gasket

	Ø	code
Brass extension 20 mm	1"1/2	ZKE40
20 mm	2"	ZKE50
30 mm	1"1/2	ZKE4030

Ball valve free nut

Ø	code
1"1/2 - 1"F	ZVSC4026

Free nut check valve

Direct mounting on union connected circulator - Declutchable for drainage.

Ø	code
1"1/2 - 1"M	CATET

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

Ø	code
1"	CTB026
1"1/4	CTB033
1"1/2	CTB040
2"	CTB050
65	CTB065
80	CTB080
100	CTB100

Circulators for sanitary hot water

Includes valve, check valve & 1/2" M union fittings - Max. pressure: 10 bar - Max. temperature: +95°C - IP42.

Brass - Standard

	code
With clock & thermostat +45/+65°C	V152HT
With clock, without thermostat	V152H
Without clock, with thermostat +35/+90°C	V153TR
Without clock & thermostat	V152M

Body FF 1/2"

	code
Without clock & thermostat	V152F

Brass - Very low consumption

	code
Self-regulating	V155SL
With clock	V155VZ

Body FF 1/2"

	code
Without clock & thermostat	V155R

According to the 2013 & 2015 European Directive ErP 2009/125/EC.

Bronze

	length (mm)	Ø	code
EVOTRON SAN 40	150	1"1/2	EVS40150
EVOTRON SAN 60	150	1"1/2	EVS60150
EVOTRON SAN 80	150	1"1/2	EVS80150

	length (mm)	Ø	code
EVOPLUS SAN 40	180	1"1/2	EVS40180
EVOPLUS SAN 60	180	1"1/2	EVS60180
EVOPLUS SAN 80	180	1"1/2	EVS80180
EVOPLUS SAN 110	180	1"1/2	EVS110180

Circulators for collective use

	length (mm)	Ø	flanged	code
EVOPLUS 40	180	1"1/2		EVO40180M
EVOPLUS 40	180	2"		EVO40180XM
EVOPLUS B40	220		DN32	EVOB40220
EVOPLUS B40	250		DN40	EVOB40250
EVOPLUS D40 - Double	220		DN32	EVOD40220
EVOPLUS D40 - Double	250		DN40	EVOD40250
EVOPLUS 60	180	1"1/2		EVO60180M
EVOPLUS 60	180	2"		EVO60180XM
EVOPLUS B60	220		DN32	EVOB60220
EVOPLUS B60	250		DN40	EVOB60250
EVOPLUS D60 - Double	220		DN32	EVOD60220
EVOPLUS D60 - Double	250		DN40	EVOD60250
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
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

	length (mm)	Ø	flanged	code
EVOPLUS 80	180	1"1/2		EVO80180M
EVOPLUS 80	180	2"		EVO80180XM
EVOPLUS B80	220		DN32	EVOB80220
EVOPLUS B80	250		DN40	EVOB80250
EVOPLUS D80 - Double	220		DN32	EVOD80220
EVOPLUS D80 - Double	250		DN40	EVOD80250
EVOPLUS 110	180	1"1/2		EVO110180M
EVOPLUS 110	180	2"		EVO110180XM
EVOPLUS B110	220		DN32	EVOB110220
EVOPLUS B110	250		DN40	EVOB110250
EVOPLUS D110 - Double	220		DN32	EVOD110220
EVOPLUS D110 - Double	250		DN40	EVOD110250
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

Closed tanks - SBR membrane

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

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	3/4" M	387	140	VC53112
18	1	3/4" M	387	200	VC53118
6	1	3/4" M	324	100	VC54106
8	1	3/4" M	324	129	VC54108
10	1	3/4" M	324	139	VC54110
12	1	3/4" M	324	170	VC54112

* Working pressure: 3 bar.

NEW

Closed tanks - NBR membrane - 10 bar

Carbon steel body - 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

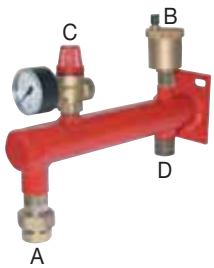
Tank accessories

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

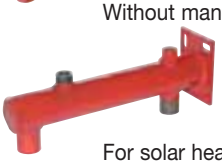
Wall brackets

(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 DN50, flanged PN16 above.

volume (l)	DN	code
80	50	PD050
100	65	PD065
130	80	PD080
200	100	PD100
300	125	PD125

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 (sold by 10 pcs only)

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

GOETZE

Max. temperature: +120°C.

pre-set (bar)	discharge capacity kW	discharge capacity 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

Sanitary

pre-set (bar)	Ø	code
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-3/4F"	27030V
6	1/2"F-3/4F"	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

GOETZE

Differential valve

Barberi

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

Dry - ABS plastic box

Ø 50 - Axial

pressure (bar)	Ø connection	code
0 - 4	1/4"	MA04
0 - 6	1/4"	413006TH
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"	413106
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

Brass connection - Max. temperature: +60°C - Class 1,6 - Polycarbonate glass.

Ø 50 - Axial

pressure (bar)	Ø connection	code
0 - 2,5	1/4"	413203
0 - 6	1/4"	413206
0 - 10	1/4"	MA10G
0 - 16	1/4"	413216

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 50 - Radial

pressure (bar)	Ø connection	code
0 - 2,5	1/4"	413303
0 - 6	1/4"	413306
0 - 10	1/4"	MR10G
0 - 16	1/4"	413316

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

Hydrometer

Ø 63 - Radial

pressure (mCe)	Ø connection	code
0 - 10	3/8"	H10
0 - 20	3/8"	H20

Thermomanometer

Ø 80

Temperature range: 0°C/+120°C -
With socket for dismantling without draining.

	pressure (bar)	Ø connection	code
Axial	0 - 4	1/2"	MTA
Radial	0 - 4	1/2"	MTR

Manometer holder valves

Ø	code
1/4"	ZRI08
3/8"	ZRI12
1/2"	ZRI15

Ø	code
1/4"	1306002
3/8"	1306003
1/2"	1306004

Push-button valve

Ø	code
1/4"	9880302
1/2"	9880304

Coil siphon

Ø	code
M1/4"-F1/4"	9880202
M1/2"-F1/2"	9880204

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
160	0°C/+120°C	1/2"	45	20	T160A

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

Angle

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".

NEW

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

NEW

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

Thermometers

Accessories for thermometers

Tee

(for 63 mm plunger thermometer)

Ø	code
1"	130RT26
1"1/4"	130RT33
1"1/2"	130RT40
2"	130RT50

Valves with thermometer

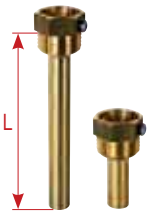
	inlet	outlet	code
* Red handle	1"1/2 free nut	1" M	VTR40
Blue handle	1" M	1"1/2 free nut	VTB40M
Blue handle	1" M	1" M	VTB26

* with antithermo-siphon check valve

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 1/2" with blocking screw.

length (mm)	Ø int./Ø ext.	code
45	9 x 11	ZDG15045
100	9 x 11	ZDG15100

Solid fuel boiler equipment

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

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

Cast aluminium.

Ø	code
111 to 139	SR1
139 to 180	SR2
180 to 220	SR3

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

ErP

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

Mixing valves

Max. temperature: +110°C - Max. pressure: 6 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 97/23/EC Directive.

Threaded

Cast iron

	3 way					4 way				
Ø	3/4"	1"	1"1/4	1"1/2	2"	3/4"	1"	1"1/4	1"1/2	2"
kvs	13	17	24	31	41	13	17	24	31	41
code	V3V20	V3V26	V3V33	V3V40	V3V50	V4V20	V4V26	V4V33	V4V40	V4V50

Brass female

	3 way					4 way				
Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"	1/2"	3/4"	1"	1"1/4
kvs	2,5	6,3	8	15	24	40	2,5	6,3	8	15
code	VC3V15	VC3V20	VC3V26	VC3V33	VC3V40	VC3V50	VC4V15	VC4V20	VC4V26	VC4V33

Brass male

	3 way			4 way		
Ø	3/4"	1"	1"1/4	3/4"	1"	1"1/4
kvs	2,5	6,3	8	2,5	6,3	8
code	VC3V20M	VC3V26M	VC3V33M	VC4V20M	VC4V26M	VC4V33M

Threaded - For solar, solid fuel boiler & heat pump

The valve gives priority to the cheapest energy before switching gradually to the most expensive one -
May be equipped with SME actuators & Automix regulation - To be installed with a mixing water tank.

Brass female

	4 way				
Ø	3/4"	3/4"	1"	1"	1"1/4*
kvs	4	6,3	6,3	10	10
code	VMB2004	VMB2006	VMB2606	VMB2610	VMB3310M

* male

Insulation for 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

3 positions - Direct mounting on Thermador mixing valves - IP40.

230 V / 50 Hz

	code
SME 130 5 Nm - Complete opening: 140 s - 1,5 m wire.	SME130
SME 20S with auxiliary contact 10 Nm - Complete opening: 140 s - 1,5 m wire.	SME20S
SME 23 for thermostat regulation 10 Nm - Complete opening: 670 s - 1,5 m wire.	SME23
SME 96L 15 Nm - Complete opening: 280 s.	SME96L

24 V

	code
SME 24	SME24
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.	SME212
SME 140 signal 0-10V	SME140V

Mouting set

For:	code
Esbe/Danfoss	MSNRE6
Centra (DR & ZR)	MSNRC
Oventrop/Meibes/Wita	MSNRO
VCI/VBG31/VBF21	MSNRL

Flanged PN6

Cast iron

3 way						
Ø	50	65	80	100	125	150
kvs	65	100	185	310	510	820
code	VB3V050	VB3V065	VB3V080	VB3V100	VB3V125	VB3V150

4 way					
50	65	80	100	125	150
65	100	185	310	510	820
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: 20Nm - IP44.

code
SMEB

Regulation devices

Based on outdoor temperature - To be used with threaded mixing valves only - Includes: regulator, water probe, external probe (20 m), power supply, actuator, connectors & mounting pad.

Automix 30 Q

With timer

code
RA30Q

Automix 10

Built-in regulating functions

code
RA10
RACT*

* For solid fuel boiler

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

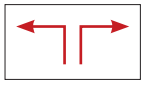
Radio transmission

code
RA20

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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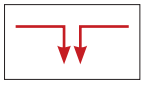
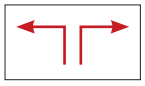


3 way valve, normally closed, spring return - 2 thread 230V actuator - Opening time: 18 s - Closing time: 5 s. - Temperature: +2°C/+93°C - Max. pressure: 21 bar - IP20 - Max. glycol: 50%.

Ø	Kv	Δps (bar)	code
1"F	6,9	1,3	VDL3V26



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
Radio transmission	battery	TARB
	mains	TARS

Standard digital

NEW

Temperature setting: -5°C/+30°C - ON/OFF regulation - Shut-off 5 (2) A - IP30.

		code
Wire	battery	TASF
Radio transmission	battery	TASOR

Programmable +

NEW

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 - Δt 2° ± 1°K - IP54.

	code
Temperature setting: -5°C/+35°C	TAE2

Changeover contact 16 (2,5) A 250V - Δt 3° ± 1°K.

	code
Temperature setting: 0/+60°C - Probe Ø 6 x 119 mm - Capillary 0,90 m - IP54.	TAC32
Temperature setting: -35°C/+35°C - Probe Ø 6 x 140 mm - Capillary 1 m - IP55.	TAC33

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

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

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

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
0°C/+40°C	1000	Ø 6,5 - L95	TH549177
0°C/+310°C	1500	Ø 3 - L195	TH549178

Safety

Manual resetting - Pre-set 110°.

temperature setting	capillary length (mm)	sensor	code
-90°C/+110°C	1500	Ø 6,5 - L95	TH542286

With adjustment stop

temperature setting	capillary length (mm)	sensor	code
0°C/+90°C	1500	Ø 6,5 - L95	TH540359

Expansion tanks

Solar expansion tank - White

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%.

* except 12 l

Ø	code
12	V012S
18	V018S
24	V024S
35**	V035S
80**	V080S
105**	V105S
150**	V150S
200**	V200S
250**	V250S
300**	V300S

** on base

Solar expansion tank - Red

Preset pressure: 2,5 bar - Max. working pressure: 6 bar - Testing pressure: 9,6 bar - TS: -10°C/+110°C - Nitrile membrane - Connection M 3/4".

Ø	code
18	V718
25	V725
40	V740
60	V760

Circulators

Solar circulators

Insulation class: F - According to European Directive ErP 2009/125/EC.

	length (mm)	Ø	code
EVOTRON SOL 40	130	1"1/2	EV40130SOL
	180	1"1/2	EV40180SOL
	130	1"	EV4013026SOL

	length (mm)	Ø	code
EVOTRON SOL 60	180	1"1/2	EV60180SOL
	130	1"	EV6013026SOL
EVOTRON SOL 80	180	1"1/2	EV80180SOL
	130	1"	EV8013026SOL

Accessories

Flowmeter

3 valves (fill-in, draining and flow-regulation) - Max. temperature: +110°C - Connexion 1".

code
ZDEBIT

Antithermo-siphon check valve

Declutchable - Max. temperature: +110°C - Connexion free nut 1" and Male 3/4".

code
ZCLAD

Solar controller

Easy installing & easy use - Supplied with 3 probes (1 sensor probe 1.5 m, 2 sensor probes 2.5 m, 4th optional) - 3 mechanical relay outlets - 4 probe fittings - Class 2 - IP20 - Dimensions 110x155x45 - Screen 84x45 - Rail DIN mounting 3 access levels: user, professional settings, wiring - 13 combinations: ecological, economical & vacation modes - Built-in clock: boost or programmable mode; anti-bacterian, temperature & anti-frost protections.

	code
Complete controller	RS13

	code
Sensor probe	SRSC
Tank probe	SRSB
Thermowell 1/2"	DGRS15
Thermowell 3/4"	DGRS20

Solar panel connections, see page 239

Mixing valves, see page 258

Mixing water tanks for heat pumps

Reversible insulated tank (to be installed between the heat pump and the boiler, at any side) -
Supplied with 4 caps up to 50 l - Carbon steel body - Expanded polyurethane insulation - Threaded connections.

Wall mounting

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	788	290	450	1"1/4	C	BMEL25SKE
50	1000	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	788	290	150	1"1/4	C	BMEL25SK
50	1000	343	200	1"1/4	C	BMEL50SK
100	870	450	175	1"1/4	C	BMEL100SKM

Ground standing

2 x 4 connections

volume (l)	height (mm)	Ø (mm)	center distance connection (mm)	Ø connections	ErP class	code
100	954	175	126	1"1/4	C	BMEL100SK
200	1438	330	270	1"1/4	C	BMEL200SK
300	1515	275/300	450	1"1/4	C	BMEL300SK
500	1816	350/380/350	600	2"	C	BMEL500SK

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 & heating water heaters

Resistors

Incoloy thermoplungers - 1"1/2 connection - For 100 to 500 l tanks - Control & safety thermostats (manual reset) - 2 m wire - IP44 - ⚠ **No glycol.**

Thermostats 230V +30/+70°C, safety +90°C.

power (kW)	max. power (W/cm²)	plunger length (mm)	code
2	8,5	320	RES2000TM
3	10,3	320	RES3000TM
6	10,3	380	RES6000TM

Thermostats 3~400V +30/+75°C, safety +98°C.

power (kW)	max. power (W/cm²)	plunger length (mm)	code
2	10,1	229	RES2000TT
3	10,0	314	RES3000TT
4	10,0	399	RES4000TT
5	12,5	400	RES5000TT
6	15,1	400	RES6000TT

Heating water heaters

Stainless steel 304 body - Insulated body - Incoloy-800 resistors - Horizontal mounting - 1" F connections - Control & safety thermostats (manual reset) - Wall support - 2 m wire - IP55 - ⚠ **No glycol.**

Thermostats 230V, +30/+70°C, safety +90°C.

power (kW)	max. power (W/cm²)	code
3	3,2	RB03000M
6	6,5	RB06000M

Thermostats 3~400V, +30/+75°C, safety +98°C.

power (kW)	max. power (W/cm²)	code
3 x 1	3,2	RB03000T
3 x 2	6,5	RB06000T
3 x 3	9,7	RB09000T

Sanitary hot water production & storage tanks

NEW

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 10 bar - Temperature range -10°C/+90°C.

capacity (l)	code
200	BREV0200
300	BREV0300
500	BREV0500
800	BREV0800

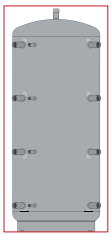
capacity (l)	code
1000*	BREV1000
1500*	BREV1500
2000*	BREV2000

* please consult for specific freight charges

Storage & exchanger tanks

Heating water storage tanks

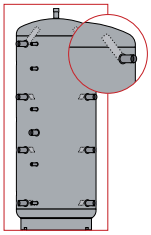
For discontinous heating boilers (such as wood boilers) - Carbon steel body - 50 mm injected foam or 100 mm soft polyester insulation, white plastic coated - 1"1/2 outlet for additional electric resistor for PLUS range - Storage: max. pressure 3 bar, max. temperature +99°C - Exchanger: max. pressure 12 bar, max. temperature +110°C - ErP E class (except 500 l: C class).



STANDARD without exchanger

capacity (l)	code
500	B0500
800	B0800
1000*	B1000

* please consult for specific freight charges



PLUS without exchanger

capacity (l)	code
500	BS0500V
800	BS0800V
1000*	BS1000V
1500*	BS1500V

* please consult for specific freight charges

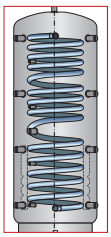
PLUS with carbon steel pipe exchanger

capacity (l)	code
500	BS0500SE
800	BS0800SE
1000*	BS1000SE
1500*	BS1500SE

* please consult for specific freight charges

Heating water storage & sanitarys hot water production tanks

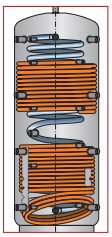
Up to 3 different heating sources, with an additional electric supply - Used for solid fuel boilers, biomass & solar heating system - Carbon steel body & exchanger - Stainless steel 316L pipe for instant sanitary hot water production - 50 mm injected foam or 100 mm soft polyester insulation - Grey PVC 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 E class (except 500 l: C class).



Without exchanger

capacity (l)	code
570	BSES0600
800	BSES0800
1000*	BSES1000
1500*	BSES1500
2000*	BSES2000

* please consult for specific freight charges



With 2 carbon steel pipe exchangers

capacity (l)	code
570	BSE0600
800	BSE0800
1000*	BSE1000
1500*	BSE1500
2000*	BSE2000

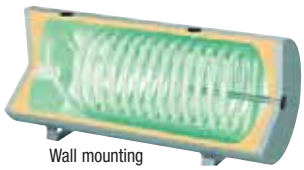
* please consult for specific freight charges

Sanitary hot water production & storage tanks

NEW

STANDARD

XL (for heat pump)



Wall mounting

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 & XL: storage max. pressure 10 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.

capacity (l)	STANDARD code	XL code	Wall mounting code
100	-	-	BECS0100M
150	-	-	BECS0150M
200	BECS0200	BECS02XL	BECS0200M
300	BECS0300	BECS03XL	BECS0300M
500	BECS0500	BECS05XL	-
800	BECS0800	-	-
1000*	BECS1000	-	-

* please consult for specific freight charges

Hot water air heater - ProH$_2$0

Compact - Water coil (tested 30 bar) - Motorised fan IP54 with gland pack - Wall or suspended installation - Right side water connection - 230V AC - 1 speed fan - Galvanised steel housing - Supply grid with carbon steel adjustable blades - Copper heat exchanger with aluminium blades.

Other types on request

Standard

type	sound pressure (Lp dB(A) at 5m)	power consumption (W)	current consumption (A)	dimension (mm)	code
AW22	35	1 x 90	1 x 0,42	L 520 x H 440 x l 350	AW22
AW23	36	1 x 95	1 x 0,44	L 520 x H 440 x l 350	AW23
AW32	38	1 x 140	1 x 0,65	L 620 x H 540 x l 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	1080	8,2	29	1404
AW23	20,9	52	898	16,1	43	1381	10,5	34	1796
AW32	26,7	44	1146	20,5	37	1763	13,3	30	2292

Power & air temperature are given for a 15°C recovery temperature.

Suspended support set

code
KS

Dual deflection grid

	code
For AW22 & AW23 types	GDD2
For AW32 type	GDD3

Wall support set

	code
For AW22 & AW23 types	KMF2
For AW32 type	KMF36

Venturi jet grid

	code
For AW22 & AW23 types	GJV2
For AW32 type	GJV3

Vertical metal beam support set

code
KPM234

Weekly programmable thermostat

code
TAP

Control panel

	code
1 zone	BCTAW900
1 zone, programmable	BCPAW900

Monophased 20A proximity switch

code
IPM

Streamlined destratification fan with thermostat - DS

Ridge heat recovery - Dual deflection supply grid - Detratification built-in thermostat, adjustable 0 to +40°C - Compact - Ceiling installation with 4 chains, horizontal position, at 2/3 building height - Galvanised steel - IP55 electrical connection - Direct coupling motor fan with aluminium blades.

Other types on request

type	flow (m^3/h)	installation height (m)	sound pressure (Lp dB(A) at 5m)	power consumption (W / A)	dimension (mm)	code
DS4000	3600	4 to 7	42	165 / 0,8	H 500 x L 500 x l 270	DS4000
DS6000	5500	5 to 8	41	100 / 0,46	H 550 x L 550 x l 380	DS6000
DS8000	7200	5 to 9	44	184 / 1,6	H 600 x L 600 x l 380	DS8000

Speed variator

	code
For DS4000 & DS6000 types	SX
For DS8000 type	SX550

Monophased 20A proximity switch

code
IPM

Air curtains on request

Commercial use air fan - Minimax

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, 10/10 thickness - Removable rain-protection cover - Direct coupling motor with built-in thermal protection.

	flow (m^3/h)	available pressure (Pa)	power consumption (W)	outlet/inlet (mm)	dimension (mm)	code
	200	235	39	125	L 390 x l 200 x H 350	CM125
*	200	235	39	125	L 390 x l 200 x H 350	CMISO125
	270	300	52	160	L 390 x l 200 x H 350	CM160
*	270	300	52	160	L 390 x l 200 x H 350	CMISO160
	540	350	155	200	L 350 x l 295 x H 400	CM200
*	540	350	155	200	L 350 x l 295 x H 400	CMISO200
	1000	500	155	250	L 470 x l 335 x H 450	CM250
*	1000	500	155	250	L 470 x l 360 x H 450	CMISO250

Other type on request

* 25 mm mineral wool insulation

Dual flow high efficiency air fan - Neotime

Compact for ceiling easy installation (includes supports) - Indoor installation - 230 V AC - Carbon steel housing - High density 25 mm mineral wool insulation - Electrical housing with connection and control - Proximity switch - Inclined condensate tank - All or nothing bypass (summer/winter use with thermostat) - Inlet and outlet air strainers - Direct driven EC motors with thermal protection - Programmable built-in timers for 2 flow use - Flow control switch on each fan.

flow (m^3/h)	available pressure (Pa)	power consumption (W)	outlet/inlet (mm)	dimension (mm)	code
600	1000	2 x 169	250	L 1700 x l 780 x H 330	CN0600
900	700	2 x 220	315	L 2020 x l 965 x H 415	CN0900
1300	400	2 x 400	355	L 2195 x l 1220 x H 415	CN1300
1800	400	2 x 400	400	L 2275 x l 1220 x H 495	CN1800
2500	380	2 x 400	400	L 2395 x l 1740 x H 495	CN2500

Other type on request

Accessories for air fan

Electronically variable speed controllers

code
SXSF1

Differential pressostat (non mounted)

code
AMDD

Soft cuff

mm	code
125	MS125
160	MS160
200	MS200
250	MS250
315	MS315
355	MS355
400	MS400

Potentiometer (1 or 2 EC motors)

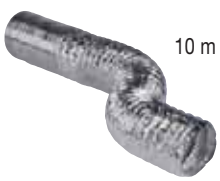
code
POTCN

3 position speed selector

code
SCSF2

Aluminium ducts

Soft & sleek



10 m length

Ø	code
100	CAS10010
125	CAS12510
150	CAS15010
160	CAS16010
200	CAS20010

Compact flexible & sleek

3 m length

Ø	code
100	CAF10003
125	CAF12503
150	CAF15003
160	CAF16003
200	CAF20003

Soft & insulated

10 m length
25 mm insulation

Ø	code
100	CASLV2510010
125	CASLV2512510
150	CASLV2515010
160	CASLV2516010
200	CASLV2520010
250	CASLV2525010
305	CASLV2531510

5 m length
50 mm insulation

Ø	code
100	CASLV5010005
125	CASLV5012505
150	CASLV5015005
160	CASLV5016005
200	CASLV5020005

NEW

Accessories for soft PE+ & aluminium ducts

To be ordered by multiple of 10 pcs

Monothread gear clamp

Ø	code
80	STM080
100	STM100
125	STM125
150	STM150
160	STM160
200	STM200
250	STM250
315	STM315

Reduction male/female
(scoring fitting)

Ø	code
100-80	RMF10080
125-100	RMF125100
125-100-80	RMF12580
150-125	RMF150125
160-125	RMF160125
200-160	RMF200160

Coupling sleeve

Ø	code
80	M080
100	M100
125	M125
150	M150
160	M160
200	M200

To be ordered by multiple of 100 pcs

Nylon gear clamp

Ø	code
80-125	STN080125
125-160	STN125160

Metal roof outlet cap

Ø	code
125	CTTM125
160	CTTM160
200	CTTM200
250	CTTM250
315	CTTM315
355	CTTM355
400	CTTM400

Coupling sleeve w/ gasket

Ø	code
250	MMGJ250
315	MMGJ315

Reinforced adhesive tape

	code
50 m x 50 mm	BANR50

Aluminium adhesive tape

	code
50 m x 50 mm	BAN50

NEW

High density PE ducts

For dual flow 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

Rigid elbow 90°

Ø	code
75	COUPH075
90	COUPH090

Elbow double adaptor
(for Ø 125 air extract unit)

Ø	code
2 x Ø75 & Ø125	ACDPH075125
2 x Ø90 & Ø125	ACDPH090125

"Clip" mounting flange

Ø	code
75	FIXPH075

Nipple

Ø	code
75	MPH075
90	MPH090

Gasket

Ø	code
75	J075
90	J090

Connection for plenum

Ø	code
75	PF075
90	PF090

Distribution plenum chamber

	code
1 inlet Ø160 & 5 outlets Ø75 or 90	P05090
1 inlet Ø160 & 10 outlets Ø75 or 90	P10090

Cap

Ø	code
75	BCPH075
90	BCPH090

NEW

Network accessories

■ Manually adjustable air extract units

Plastic air extract & air intake

Ø	code
80	BRP080
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
80	BR080
125	BR125

Metal air intake

Ø	code
100	BTRI100
125	BTRI125
160	BTRI160
200	BTRI200

Metal socket

Ø	code
100	MTG100100
125	MTG125100
160	MTG160100
200	MTG200100

Ventilation - Commercial use

Ceiling diffuser

Aluminium circular
(w/ adjustable ABS central cone)

Ø	ext. dimension (mm)	flow (m^3/h)	code
160	288	200-600	BTOR160
200	370	200-900	BTOR200
250	461	300-1200	BTOR250

Wall deflection grid

Dual deflection

dimension mm	flow (m^3/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 w/ 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 grid w/ mosquito net

White pre-lacquered rectangle

dimension mm	flow section (cm^2)	code
290 x 50	45	GABLAM2905F45
200 x 100	50	GABLAM2010F50
300 x 100	85	GABLAM3010F85
240 x 140	130	GABLAM2414F130

Anodised rectangle

dimension mm	flow section (cm^2)	code
290 x 50	45	GAGRAM2905F45
200 x 100	50	GAGRAM2010F50
300 x 100	85	GAGRAM3010F90
240 x 140	130	GAGRAM2414F130

Anodised rectangle for outdoor

dimension mm	flow section (cm^2)	code
400 x 390	560	GAGRAV4039F560
600 x 590	1440	GAGRAV6059F1440

White pre-lacquered rectangle

dimension mm	flow section (cm^2)	code
150 x 150	60	GABLAM1515F60
200 x 200	120	GABLAM2020F120
250 x 250	210	GABLAM2525F210

Anodised square

dimension mm	flow section (cm^2)	code
150 x 150	60	GAGRAM1515F60
200 x 200	135	GAGRAM2020F135
250 x 250	240	GAGRAM2525F240

Flow regulator

Adjustable

dimension mm	flow section (cm^2)	code
80	15-50	RDR08030
100	15-50	RDR10030
100	50-100	RDR10075
125	15-50	RDR12530
125	50-100	RDR12575
125	100-180	RDR125120
160	50-100	RDR160100
160	100-180	RDR160150
160	180-300	RDR160250
200	100-180	RDR200180
200	180-300	RDR200250
200	300-500	RDR200400

Self-adjusting extract unit

Single flow

flow (m^3/h)	code
15	BTA15
30	BTA30
45	BTA45
60	BTA60
75	BTA75
90	BTA90

Cuff w/ gasket

Ø (mm)	code
100	MJ100
116	MJ116
125	MJ125

Air conditioning

4 modes: automatic, cold, ventilation, dehumidification - Automatic condensates venting - Infra-red remote control - 3 air flows - Two-pin power socket - Ø 140 mm & 1,5 long semi-flexible outer pipe for hot air venting - White & black ABS cover - R410A refrigerant - 3 speed rotation - Scroll rotary compressor - Programmble with sleep mode - 4 anti-dust washable air filters & 1 active carbon filter - Anti-bactereous condensates case - 230 V AC - Energy class A - Insulation class II - Sound pressure: 46 Lp at 3m dB (A) - Temperature range: +18°C/+35°C - Dimension (mm): L 480 x H 744 x l 313 - Weight: 25-26 kg - Window set for release - Condensate case continuous drainage function for very wet climate.

⚠ **Seasonal products: please consult for availability.**

Mobile air conditioner

flow (m^3/h)	power: cold (W)	power consumption (W)	power: hot (W)	volume m^3 (m^2)	code
350	3000	1150	-	110 (45)	CM3001
370	3300	1270	-	130 (55)	CM3501
*370	3300	1270	2800	130 (55)	CMR3501

* hot mode.

Door leaf window set

code
KCM

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	12 W/m	5BMS	5BMSM
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	31 W/m	20BMS	20BMSM
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

Y - connection
2 cable connection - IP65.

code
AUT2

Terminations (sold by 5)

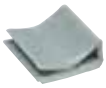
code
AUTOKIT

Connection set
Rubber pieces & gland-pack for connection or termination.

code
MANTER

Pipe clamps
(sold by 100)

code
COL



Gutter clips
(sold by 100)

code
CLIP

Fiber glass self-adhesive tape
50 m x 12 mm

code
FIB

Aluminium self-adhesive tape
50 m x 50 mm

code
ALU

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

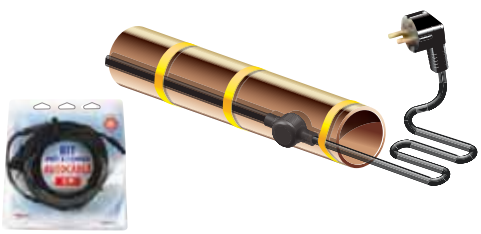
Thermostat - Humidostat sets
Includes thermostat, sensor and probe (for 20BMF)

Roof snow removal

code
THT

Ramp, slab and road protection

code
THS



Ready-to-use cable set
Anti-frost protection - Includes electric plug & thermostat for shut-off above +5/+8°C (energy saving) - 230 V -
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

Plumbing

- Water heater safety
  - Sanitary expansion tanks ..... page 270
  - Hammer arresters ..... page 270
  - Sanitary safety valves ..... page 271
  - Boiler accessories ..... page 271
- Leakage detectors ..... page 271
- Pressure reducing valves ..... page 272
- Balancing & desinfection valves ..... page 272
- Thermostatic mixing valves ..... page 273
- Washing machine & toilet supplies ..... pages 274 to 275
- Water meters ..... pages 276 to 277
- Water filtration
  - Domestic water filtration ..... pages 278 to 280
  - Liquids filtration ..... pages 281 to 282
  - Domestic water filtration ..... page 282

Sanitary expansion tanks

Standard

Food quality & safety butyl membrane - 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

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

Stainless steel

Volume (l)	Ø connection	code
8	3/4" MM	VEX08I
12	3/4" MM	VEX11I

Expansion tank fitting

3/4" MMF

code
ZTMMFN

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

Hammer arresters

With membrane

Max. pressure: 10 bar
Test pressure: 15 bar
Pre-set: 3 bar
Max. temperature: +99°C
Butyl membrane - Stainless steel 304 body.

Volume (cm³)	Ø connection	code
160	1/2" M	Z160
500	1/2" M	Z050
2000	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 hot water production & storage tanks, see page 263

Sanitary safety valves

With built-in check valve

Nickel-plated brass.

Standard

Ø	pack	pre-set (bar)	code
1/2"	20	7	GTH15
3/4"	20	7	GTH20

With lever

Ø	pack	pre-set (bar)	code
1/2"	* 25	8,5	GTH15L
3/4"	** 20	8,5	GTH20L

* To be ordered by multiple of 25 pieces.
** While stocks last.

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 254

Bronze

GŒTZE

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

Boiler accessories

Electrical insulation fitting

3 piece fitting - Direct mounting on 3/4" M/F water heater.

Ø	pack	code
3/4" MF	50	ZRICE
3/4" M - 1/2" F	1	ZRICE2015MF

Siphon for safety device

code
ZES26

Free flow 2 handle mixers

For water heater max. 50 l - Includes 2 chrome-plated pipes.

code
MEL

Includes 2 flexible hoses.

code
MELSE

Leakage detectors

Jetly

Sound alarm in case of water leakage, open valve, forgotten watering, defective toilet flush - 230V - Detected leakage min. flow: 30 l/h.

Standard

Ø	code
3/4"	471420

Actuated

With solenoid valve - Shut-off after 2 mn.

Ø	code
3/4"	471421

Pressure reducing valves

To be ordered by multiple of 4 pcs

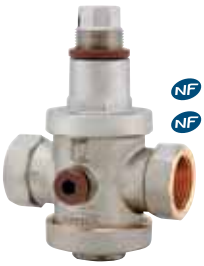
Standard - Brass

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

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.



Female - Female

Ø	pack	face to face (mm)	code
NF 1/2"	1/34	77	RPI15H
NF 3/4"	1/34	85	RPI20H
1"	1/18	91	RPI26H
1"1/4	1/9	118	RPI33H
1"1/2	1/9	126	RPI40H
2"	1/8	142	RPI50H

Male union fittings

Ø	pack	face to face with fittings (mm)	code
NF 1/2"	1/34	123	RPI15HM
NF 3/4"	1/24	135	RPI20HM
1"	1/18	156	RPI26HM

Supplied with union fittings

Heavy duty - Bronze

Stainless steel seat - Built-in filter - With manometer outlets - Downstream adjustable pressure: 1 to 7 bar.

Male union fittings

Max. upstream pressure: 25 bar.

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: 25 bar.

DN	face to face (mm)	code
50	230	246827
65	290	246828
80	310	246829

Balancing & desinfection valves

Balancing

Setpoint temperature, adjustable +36°C to +63°C - Pre-set temperature: +57°C.

Ø	threaded	code
15	3/4"	VTH15
20	1"	VTH20

Balancing & desinfection

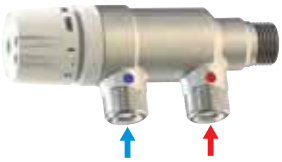
Includes 2 thermostatic cartridges - Setpoint temperature, adjustable +36°C to +60°C - Automatic opening for thermic desinfection, adjustable +70°C to +75°C (pre-set: +70°C) - Connections for valve & thermometer.

Ø	threaded	code
15	3/4"	VTH15D
20	1"	VTH20D

Standard

Max. pressure: 5 bar - Max. temperature: +95°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

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

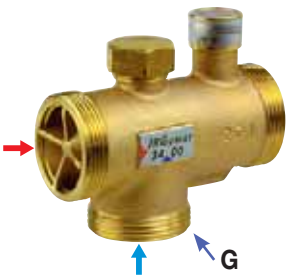
Solar

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

Set of 3 fittings 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 93 to 100 mm; with glue - Extension: straight 300/540 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 93 to 100 mm; without glue - Extension 300/540 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 93 to 100 mm - Temperature: -10°C to +60°C.

length (mm)	pack	code
400	15	PIP400
540	15	PIP540

Elbow

ABS - 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

ABS - 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

PVC 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

Free nut end fitting

Ø	coil length (m)	code
32 x 1"1/4	10	ET114
40 x 1"1/4	10	ET40114
40 x 1"1/2	10	ET112

Female end fitting

Ø	pack	code
32 x 32	10	E32FL
40 x 32	10	E4032FL
40 x 40	10	E40FL

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
M 32 - M 32	RECM32
M 40 - M 40	RECM40

Weaved spiral (flat end) bellow

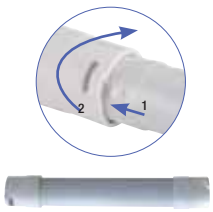
Extension 300/600 mm.

Ø	free nut	code
M32	1"1/4	REC32
M40	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 339

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"	1	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"	10/50	1325004

Washing machine valve - Self-drilling

Ø	pack	code
10 to 14 - 3/4"	10/50	1330005

Washing machine valve - Vertical double outlet

Ø	pack	code
1/2" - 3/4" - 3/4"	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"	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 - Elbow 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

Use: water distribution - Excluded from 2014/68/UE directive (article 1, § 2b) - EU approved - MID 2004/22/EC - 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).

ISO 9001

Single jet

Cold water - MID R100

bore	Ø	length (mm)	nominal flow (m³/h)	max. flow (m³/h)	code
15	3/4"	110	2,5	3,1	1701015
20	1"	130	4	5	1701020

Hot water - MID R100

bore	Ø	length (mm)	nominal flow (m³/h)	max. flow (m³/h)	code
15	3/4"	110	2,5	3,1	1702015
20	1"	130	4	5	1702020

Cold water - MID R160

bore	Ø	length (mm)	nominal flow (m³/h)	max. flow (m³/h)	code
15	3/4"	110	2,5	3,1	1740015
20	1"	130	4	5	1740020

Hot water - MID R160

bore	Ø	length (mm)	nominal flow (m³/h)	max. flow (m³/h)	code
15	3/4"	110	2,5	3,1	1746015
20	1"	130	4	5	1746020

Single jet - Pulse transmitter

Cold water - MID R100

bore	Ø	length (mm)	nominal flow (m³/h)	max. flow (m³/h)	code 1x1l
15	3/4"	110	2,5	3,1	1714015
20	1"	130	4	5	1714020

Hot water - MID R100

bore	Ø	length (mm)	nominal flow (m³/h)	max. flow (m³/h)	code 1x1l
15	3/4"	110	2,5	3,1	1727015
20	1"	130	4	5	1727020

Cold water - MID R160

bore	Ø	length (mm)	nominal flow (m³/h)	max. flow (m³/h)	code 1x1l
15	3/4"	110	2,5	3,1	1719015
20	1"	130	4	5	1719020

Hot water - MID R160

bore	Ø	length (mm)	nominal flow (m³/h)	max. flow (m³/h)	code 1x1l
15	3/4"	110	2,5	3,1	1729015
20	1"	130	4	5	1729020

Woltmann & irrigation water meters, see page 152

Multi jet

Cold water - MID R100

bore	Ø	length (mm)	nominal flow (m³/h)	max. flow (m³/h)	code
15	3/4"	170	2,5	3,1	1770015
20	1"	190	4	5	1770020
25	1"1/4	260	6,3	7,8	1770025
30	1"1/2	260	10	12,5	1770030
40	2"	300	16	20	1770040
50	2"1/2	300	25	31,2	1770050

Cold water - MID R160

bore	Ø	length (mm)	nominal flow (m³/h)	max. flow (m³/h)	code
15	3/4"	170	2,5	3,1	1771015
20	1"	190	4	5	1771020
25	1"1/4	260	6,3	7,8	1771025
30	1"1/2	260	10	12,5	1771030
40	2"	300	16	20	1771040
50	2"1/2	300	25	31,2	1771050

Hot water - MID R50

bore	Ø	length (mm)	nominal flow (m³/h)	max. flow (m³/h)	code
15	3/4"	165	2,5	3,1	1707115
20	1"	190	4	5	1707120
25	1"1/4	260	6,3	7,8	1707125
30	1"1/2	260	10	12,5	1707130
40	2"	300	16	20	1707140
50	2"1/2	300	25	31,2	1707150

Multi jet - Pulse transmitter

Cold water - MID R100

bore	Ø	length (mm)	nominal flow (m³/h)	max. flow (m³/h)	code 1x1l	code 1x10l	code 1x100l
15	3/4"	165	2,5	3,1	1776015	1776016	-
20	1"	190	4	5	1776020	1776021	-
25	1"1/4	260	6,3	7,8	1776025	1776026	-
30	1"1/2	260	10	12,5	1776030	1776031	1776032
40	2"	300	16	20	1776040	1776041	1776042
50	2"1/2	300	25	31,2	1776050	1776051	1776052

Cold water - MID R160

bore	Ø	length (mm)	nominal flow (m³/h)	max. flow (m³/h)	code 1x1l	code 1x10l	code 1x100l
15	3/4"	165	2,5	3,1	1777015	1777016	-
20	1"	190	4	5	1777020	1777021	-
25	1"1/4	260	6,3	7,8	1777025	1777026	-
30	1"1/2	260	10	12,5	1777030	1777031	1777032
40	2"	300	16	20	1777040	1777041	1777042
50	2"1/2	300	25	31,2	1777050	1777051	1777052

Hot water - MID R50

bore	Ø	length (mm)	nominal flow (m³/h)	max. flow (m³/h)	code 1x1l	code 1x10l	code 1x100l
15	3/4"	165	2,5	3,1	1725015	1725016	-
20	1"	190	4	5	1725020	1725021	-
25	1"1/4	260	6,3	7,8	1725025	1725026	-
30	1"1/2	260	10	12,5	1725030	1725031	1725032
40	2"	300	16	20	1725040	1725041	1725042
50	2"1/2	300	25	31,2	1725050	1725051	1725052

Accessories

Pulse transmitter

code
9811018

Valve with probe holder outlet

Ø	1/2"	3/4"	1"
code	9811004	9811005	9811006

Free nut with sealing hole (sold by single piece)

Ø F	1/2"	3/4"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
Ø M	3/8"	1/2"	3/4"	3/4"	1"	1"1/4	1"1/2	2"
bore	-	15	15	20	25	30	40	50
pack	10	10	10	10	1	1	1	1
code	9811093	9811054	9811094	9811065	9811076	9811087	9811098	9811099

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

Brass nipples with o-ring

(sold by 2)

	code
MM 3/4"	938080
MM 1"	938081

BX & CX 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"	1000	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	20"	2000	493817
FA 20 BX - 5 µ			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"	1600	493822
RL 20 BX - 50 µ	20"	3000	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"	2200	493826
RS 20 BX - 50 µ	20"	3800	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"	1400	493834
HA 20 BX	20"	2800	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"	2200	493830
SA 20C BX - 50 µ	20"	3800	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"	1200	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

25 kg
1,5 kg

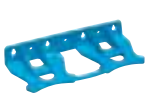
	code
	494250
	494015

PH test

	code
	494010

Filters accessories

		code
L key	For Mignon 3 P	494300
U key	For 2 P & 3 P filters	494317



	code
Single filter wall support Screws included	494325
Duplex filter wall support Screws included	494330

	code
By-pass 3/4" for Duplex, Biplex & Duo	494350

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"	300	493800
FA Mignon SX - 25 µ	5"	300	493801
FA 7 SX - 5 µ	7"	700	493802
FA 7 SX - 25 µ	7"	700	493803
FA 10 SX - 1 to 3 µ	10"	1000	493902
FA 10 SX - 5 µ	10"	1000	493804
FA 10 SX - 10 µ	10"	1000	493839
FA 10 SX - 25 µ	10"	1000	493805
Set 3 FA 10 SX - 25 µ	10"	1000	493460

Max. temperature: +80°C	height	optimal flow (l/h)	code
FA 10 HOT SX - 25 µ	10"	1000	493951

Potable water filtration & reversed osmose systems pre-filtration - ACS agreement - Polypropylene - Max. temperature: +80°C.

	height	optimal flow (l/h)	code
CPP 110SX - 1 µ	10"	1500	493760
CPP 110 SX - 5 µ	10"	1500	493761
CPP 110 SX - 25 µ	10"	1500	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"	2200	493807

Food use - ACS agreement - Washable - Polyester net - Max. temperature: +40°C.

	height	optimal flow (l/h)	code
RL 10 SX - 50 µ	10"	1500	493808

Container filled with polyphosphate - For 10" filters - Cold water (max. +20°C).

	height	optimal flow (l/h)	code
HA 10 SX	10"	1400	493811

Liquids filtration

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"	3500	506018JE

	flow (l/h) for Δp = 0,2 bar	code
NW 25 3/4"	5500	506025
NW 25 1"	5500	506026

	flow (l/h) for Δp = 0,2 bar	code
NW 32 1"1/4	6500	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 3,4 l - For 60 m³ water.	506700

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 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 - Polypropylene.	506597

	code
Single For NW 18/25/32 & TIO - Polypropylene.	506598

	code
Double For NW 25/32 - Stainless steel.	506599

Filter sleeves (sold by 5)

Filtration	For NW 18 code	For NW 25 & TIO code	For NW 32 code	For NW 500/650/800 code
5 µ	506096	506100	506110	506120
10 µ	506097	506101	506111	506121
25 µ	506098	506102	506112	506122
50 µ	506095	506104	506114	506124
100 µ	506099	506103	506113	506123
150 µ nylon	-	506105	506115	506125
300 µ nylon	-	-	506118	506300

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.

Mono-UV 25 W — code 498210
Mono-UV 40 W — code 498209

Trio-UV 25 W — code 498212
Trio-UV 40 W — code 498213

Includes CTN cartridge filled with activated carbon - Filtration, purification& sterilisation.

Duo-UV — code 498211

Includes 1 filter NW25 (25 µ).

5° rotation to take out & replace the UV lamp

25 W lamp set — code 937748
Quartz housing — code 937753

Domestic water filtration

Rinsable filters

Brass head - Stainless steel 316 cartridge - Filtration 89 µ - Drain valve - Max. pressure: 10 bar - Max. temperature: +30°C.

MEC 316 3/4" — code 491500
Recommended flow 2,4 m³/h (max. 4,2 m³/h)

MEC 316 1" — code 491501
Recommended flow 3,6 m³/h (max. 6 m³/h)

MEC 316 1"1/4 — code 491502
Recommended flow 5,4 m³/h (max. 7 m³/h)

Manuel self-cleaning filters

Brass head - Stainless stell 316 cartridge with built-in Turboclean turbine - Filtration 89 µ - Drain valve - Max. pressure: 10 bar - Max. temperature: +30°C.

PLOT 3/4" — code 491496
Recommended flow 2,4 m³/h (max. 4,2 m³/h)

PLOT 1" — code 491497
Recommended flow 3,6 m³/h (max. 6 m³/h)

PLOT 1"1/4 — code 491498
Recommended flow 5,4 m³/h (max. 7,8 m³/h)

PLOT 1"1/2 — code 491499
Recommended flow 7,2 m³/h (max. 9,6 m³/h)

Cartridges

85 µ for MEC — code 937994
89 µ for MEC — code 937995
50 µ for MEC — code 937988

89 µ for PLOT — code 939013

Key for MEC/PLOT — code 494299

FAUCETS

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2017 **COLLECTION**

Professional line

Original European design & manufacturing

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Guarantee 5 years

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NF · PZH · ACS Drinking water · IQNet · AENOR ER

OUR SELECTION

Mixer

- Ceramic cartridge Ø 35 mm
- Flexible hoses F3/8"
- Height under nozzle 140 mm
- Total height 160 mm
- 10° angle jet

NF · CERAMIC C3 CARTRIDGE

Voda	Code	Price €
Chrome	VOD10	

Basin mixer

- Ceramic cartridge Ø 35 mm - Energy saving
- Flexible hoses F3/8"
- Total height 130 mm
- 10° angle jet

NF · CERAMIC C3 CARTRIDGE

Voda	Code	Price €
Chrome	VOD15	

Shower set

- Thermostatic mixer
- Built-in ceramic switch
- ABS shower head Ø 200 mm
- Monojet ABS shower
- Brass pipe Ø 21 mm
- Adjustable wall support
- Total height 1042 mm

NF

Mizu	Code	Price €
Chrome	MIZ25	

Shower mixer

Code	Price €
VOD20	

Bath/shower mixer

Code	Price €
VOD30	

Bath/shower single hole mixer

Code	Price €
VOD32	

Bidet

Code	Price €
VOD40	

Thermostatic shower mixer

- Center distance 150±20 mm
- Scalding protection
- Flow limiter
- Flexible hose outlet M1/2"

NF · CERAMIC C2 CARTRIDGE

Mizu	Code	Price €
Chrome	MIZ50	

Thermostatic bath/shower mixer

- Center distance 150±20 mm
- Scalding protection
- Flow limiter
- Flexible hose outlet M1/2"
- Automatic change-over

NF · CERAMIC C2 CARTRIDGE

Mizu	Code	Price €
Chrome	MIZ55	

Cartridge	Code	Price €
For Mizu types	CARTHERM1	

Basin mixer

- Ceramic cartridge Ø 35 mm
- Flexible hoses F3/8"
- CLIC CLAC brass drainage
- Total height 200 mm

Papee	Code	Price €
Chrome	PAP15	

Basin mixer

- Ceramic cartridge Ø 35 mm
- Flexible hoses F3/8"
- CLIC CLAC brass drainage
- Total height 90 mm

Maji	Code	Price €
Anthracite	MAJ15B	
White	MAJ15W	
Orange	MAJ15O	
Green	MAJ15G	
Red	MAJ15R	

Basin mixer

- Ceramic cartridge Ø 25 mm
- Flexible hoses F3/8"
- Brass drainage
- Metal base
- Total height 155 mm

Wossa	Code	Price €
Chrome	WOS15C	
White	WOS15W	
Black	WOS15B	
Blue	WOS15M	
Red	WOS15R	
Green	WOS15G	

Bath/shower mixer

- Ceramic cartridge Ø 35 mm
- Center distance 150±20 mm
- Flexible hose outlet M1/2"
- Fittings M1/2" - M3/4"
- Automatic change-over

Papee	Code	Price €
Chrome	PAP30	

Shower mixer

- Ceramic cartridge Ø 35 mm
- Center distance 150±20 mm
- Flexible hose outlet M1/2"
- Fittings M1/2" - M3/4"

Maji	Code	Price €
Anthracite	MAJ20B	

Bath/shower mixer

- Ceramic cartridge Ø 35 mm
- Center distance 150±20 mm
- Flexible hose outlet M1/2"
- Fittings M1/2" - M3/4"
- Automatic change-over

Maji	Code	Price €
Anthracite	MAJ30B	

Shower mixer

- Ceramic cartridge Ø 25 mm
- Flexible hoses F3/8"

Wossa	Code	Price €
Chrome	WOS20C	
White	WOS20W	
Black	WOS20B	

Bath/shower mixer

- Ceramic cartridge Ø 25 mm
- Center distance 150±20 mm
- Flexible hose outlet M1/2"
- Fittings M1/2" - M3/4"
- Automatic change-over

Wossa	Code	Price €
Chrome	WOS30C	
White	WOS30W	
Black	WOS30B	

Basin mixer
- Ceramic cartridge Ø 25 mm
- Flexible hoses F3/8"
- Brass drainage
- Total height 164 mm

Egau	Code	Price €
Chrome	EGA15C	
White	EGA15W	
Black	EGA15B	

Basin mixer
- Ceramic cartridge Ø 25 mm
- Flexible hoses F3/8"
- CLIC CLAC brass drainage
- Total height 157 mm

Ura	Code	Price €
Chrome	URA15	

Basin mixer
- Ceramic cartridge Ø 25 mm
- Flexible hoses F3/8"
- Brass drainage
- Total height 246,5 mm

Shona	Code	Price €
Chrome	SH015	

Shower mixer
- Ceramic cartridge Ø 35 mm
- Center distance 150±20 mm
- Flexible hose outlet M1/2"
- Fittings M1/2" - M3/4"

Shona	Code	Price €
Chrome	SH020	

Bath/shower mixer
- Ceramic cartridge Ø 35 mm
- Center distance 150±20 mm
- Flexible hose outlet M1/2"
- Fittings M1/2" - M3/4"
- Automatic change-over

Shona	Code	Price €
Chrome	SH030	

Basin mixer
- Ceramic cartridge Ø 25 mm
- Flexible hoses F3/8"
- CLIC CLAC brass drainage
- Total height 140 mm

Dour	Code	Price €
Chrome	DOU15	

Shower mixer
- Ceramic cartridge Ø 25 mm
- Center distance 150±20 mm
- Flexible hose outlet M1/2"
- Fittings M1/2" - M3/4"

Dour	Code	Price €
Chrome	DOU20	

Bath/shower mixer
- Ceramic cartridge Ø 25 mm
- Center distance 150±20 mm
- Flexible hose outlet M1/2"
- Fittings M1/2" - M3/4"
- Automatic change-over

Dour	Code	Price €
Chrome	DOU30	

Basin mixer
- Ceramic cartridge Ø 40 mm
- Flexible hoses F3/8"
- Brass drainage
- Total height 125 mm

Telo	Code	Price €
Chrome	TEL15	

Shower mixer
- Ceramic cartridge Ø 40 mm
- Center distance 150±20 mm
- Flexible hose outlet M1/2"
- Fittings M1/2" - M3/4"

Telo	Code	Price €
Chrome	TEL20	

Bath/shower mixer
- Ceramic cartridge Ø 40 mm
- Center distance 150±20 mm
- Flexible hose outlet M1/2"
- Fittings M1/2" - M3/4"
- Automatic change-over

Telo	Code	Price €
Chrome	TEL30	

Basin mixer
- Ceramic cartridge Ø 35 mm
- Flexible hoses F3/8"
- Brass drainage
- Total height 134 & 179 mm

Wata Plus		Code	Price €
Chrome	normal	WPL15	
	medium	WPL17	

Basin mixer
- Ceramic cartridge Ø 35 mm
- Flexible hoses F3/8"
- Mix drainage
- Total height 140 mm

Madi	Code	Price €
Chrome	MAD15	

Shower mixer
- Ceramic cartridge Ø 35 mm
- Center distance 150±20 mm
- Flexible hose outlet M1/2"
- Fittings M1/2" - M3/4"

Madi	Code	Price €
Chrome	MAD20	

Basin mixer
- Ceramic cartridge Ø 40 mm
- Flexible hoses F3/8"
- Brass drainage
- Total height 150 mm

Kome	Code	Price €
Chrome	KOM15	

Basin mixer
- Ceramic cartridge Ø 40 mm
- Flexible hoses F3/8"
- Brass drainage
- Total height 303 mm

Kome	Code	Price €
Chrome	KOM17	

Shower mixer
- Ceramic cartridge Ø 35 mm
- Center distance 150±20 mm
- Flexible hose outlet M1/2"
- Fittings M1/2" - M3/4"

Wata Plus	Code	Price €
Chrome	WPL20	

Bath/shower mixer
- Ceramic cartridge Ø 35 mm
- Center distance 150±20 mm
- Flexible hose outlet M1/2"
- Fittings M1/2" - M3/4"

Wata Plus	Code	Price €
Chrome	WPL30	

Bath/shower mixer
- Ceramic cartridge Ø 35 mm
- Center distance 150±20 mm
- Flexible hose outlet M1/2"
- Fittings M1/2" - M3/4"
- Semi-automatic change-over

Madi	Code	Price €
Chrome	MAD30	

Bath/shower single-hole mixer
- Ceramic cartridge Ø 40 mm
- 2 flexible hoses
- Bath/shower change-over

Madi	Code	Price €
Chrome	MAA32	

Shower mixer
- Ceramic cartridge Ø 40 mm
- Center distance 150±20 mm
- Flexible hose outlet M1/2"
- Fittings M1/2" - M3/4"

Kome	Code	Price €
Chrome	KOM20	

Bath/shower mixer
- Ceramic cartridge Ø 40 mm
- Center distance 150±20 mm
- Flexible hose outlet M1/2"
- Fittings M1/2" - M3/4"
- Automatic change-over

Kome	Code	Price €
Chrome	KOM30	

Bath/shower single-hole mixer
- Ceramic cartridge Ø 40 mm
- Flexible hoses F3/8"

Kome	Code	Price €
Chrome	KOM32	

High basin mixer

- Ceramic cartridge Ø 35 mm
- Flexible hoses F3/8"
- Brass drainage
- Total height 355 mm

Metsi	Code	Price €
Chrome	MET18	

Basin mixer

- Ceramic cartridge Ø 35 mm
- Flexible hoses F3/8"
- Brass drainage
- Total height 170 mm

Metsi	Code	Price €
Chrome	MET15	

Basin mixer

- Ceramic cartridge Ø 35 mm
- Flexible hoses F3/8"
- Brass drainage
- Total height 143 mm

Omi	Code	Price €
Chrome	OMI15	

Shower mixer

- Ceramic cartridge Ø 35 mm
- Center distance 150±20 mm
- Flexible hose outlet M1/2"
- Fittings M1/2" - M3/4"

Omi	Code	Price €
Chrome	OMI20	

Bath/shower mixer

- Ceramic cartridge Ø 35 mm
- Center distance 150±20 mm
- Flexible hose outlet M1/2"
- Fittings M1/2" - M3/4"

Omi	Code	Price €
Chrome	OMI30	

Basin mixer

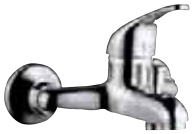
- Ceramic cartridge Ø 40 mm
- Flexible hoses F3/8"
- Total height 120 mm
- 20° angle jet

Auga	Code	Price €
Chrome	AGA15	

Shower mixer

Code	Price €
AGA20	

Bath/shower mixer



Code	Price €
AGA30	

Bath/shower single hole mixer

Code	Price €
AGA32	

Bidet

Code	Price €
AGA40	

Basin mixer

- Flexible hoses F3/8"
- 1/2 turn ceramic heads
- Total height 205 mm
- 8° angle jet

Akvo	Code	Price €
Chrome	AKV15	

Shower mixer

Code	Price €
AKV20	

Bath/shower mixer

Code	Price €
AKV30	

Infrared high basin tap

- Monofluid
- 6V external lithium mixer battery (supplied)
- Auto-cleaning: every 24 h
- Safety 1: automatic shut-off 60 s
- Safety 2: shut-off if low battery
- External casing - IP67

Vatten	Code	Price €
Chrome	VAT70IR	

Infrared high basin mixer

- Hot/cold water mixer
- 6V external lithium mixer battery (supplied)
- Auto-cleaning: every 24 h
- Safety 1: automatic shut-off 60 s
- Safety 2: shut-off if low battery
- External casing - IP67

Vatten	Code	Price €
Chrome	VAT71IR	

Basin tap

- Monofluid
- 15 s temporisation
- Min-max pressure 1-6 bar

Wetter	Code	Price €
Chrome	WET80TMP	

Basin tap

- Monofluid
- 15 s temporisation
- Min-max pressure 1-6 bar

Wetter	Code	Price €
Chrome	WET82TMP	

Basin tap

- Monofluid
- 15 s temporisation
- Min-max pressure 1-6 bar

Wetter	Code	Price €
Chrome	WET88TMP	

Basin mixer

- Ceramic cartridge Ø 35 mm
- Long & soft handle, no sharp angle
- Height under nozzle 102 mm
- Total height 208 mm

Abba	Code	Price €
Chrome	ABB80PMR	

Infrared basin tap

- Monofluid
- 6V external lithium mixer battery (supplied)
- Auto-cleaning: every 24 h
- Safety 1: automatic shut-off 60 s
- Safety 2: shut-off if low battery
- External casing - IP67

Vatten	Code	Price €
Chrome	VAT72IR	

Infrared basin mixer

- Hot/cold water mixer
- 6V external lithium mixer battery (supplied)
- Auto-cleaning: every 24 h
- Safety 1: automatic shut-off 60 s
- Safety 2: shut-off if low battery
- External casing - IP67

Vatten	Code	Price €
Chrome	VAT73IR	

Basin mixer

- Hot/cold water mixer
- 15 s temporisation
- Min-max pressure 1-6 bar

Wetter	Code	Price €
Chrome	WET86TMP	

Basin tap & mixer

- Monofluid
- 15 s temporisation
- Min-max pressure 1-6 bar

Wetter	Code	Price €
Tap	WET84TMP	
Hot/cold water mixer	WET85TMP	

Shower thermostatic mixer

- Thermostatic cartridge
- Long & soft handle, no sharp angle
- Cold body

Abba	Code	Price €
Chrome	ABB81PMR	

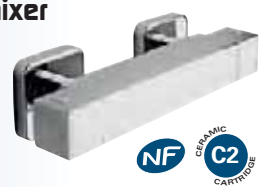
Mixer

- Ceramic cartridge Ø 35 mm
- Adjustable nozzle
- Long & soft handle, no sharp angle
- Height under nozzle 140 mm
- Total height 166 mm

Abba	Code	Price €
Chrome	ABB82PMR	

Thermostatic shower mixer

- Center distance 150±20 mm
- Scalding protection
- Flow limiter
- Flexible hose outlet M1/2"
- Metal handles



Neru Plus	Code	Price €
Chrome	NPL50	

Thermostatic bath/shower mixer

- Center distance 150±20 mm
- Scalding protection
- Flexible hose outlet M1/2"
- Built-in ceramic switch
- Metal handles

Neru Plus	Code	Price €
Chrome	NPL55	

Thermostatic shower mixer

- Center distance 150±20 mm
- Scalding protection
- Flow limiter
- Flexible hose outlet M1/2"
- Metal handles

Uji Plus	Code	Price €
Chrome	UPL50	

Thermostatic bath/shower mixer

- Center distance 150±20 mm
- Scalding protection
- Flexible hose outlet M1/2"
- Built-in ceramic switch
- Metal handles

Uji Plus	Code	Price €
Chrome	UPL55	

Thermostatic shower mixer

- Center distance 150±20 mm
- Scalding protection
- Flow limiter
- Flexible hose outlet M1/2"

Wata Plus	Code	Price €
Chrome	WPL50	

Thermostatic bath/shower mixer

- Center distance 150±20 mm
- Scalding protection
- Flexible hose outlet M1/2"
- Built-in ceramic switch

Wata Plus	Code	Price €
Chrome	WPL55	

Thermostatic shower mixer

- Center distance 150±20 mm
- Scalding protection
- Flow limiter
- Flexible hose outlet M1/2"

Mizu	Code	Price €
Chrome	MIZ50	

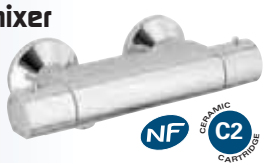
Thermostatic bath/shower mixer

- Center distance 150±20 mm
- Scalding protection
- Flexible hose outlet M1/2"
- Automatic change-over
- Flow limiter

Mizu	Code	Price €
Chrome	MIZ55	

Thermostatic shower mixer

- Center distance 150±20 mm
- Scalding protection
- Flow limiter
- Flexible hose outlet M1/2"



Joy	Code	Price €
Chrome	J074155CR	

Thermostatic bath/shower mixer

- Center distance 150±20 mm
- Scalding protection
- Flexible hose outlet M1/2"
- Automatic change-over
- Flow limiter

Joy	Code	Price €
Chrome	J074106CR	

Shower set
- Thermostatic mixer NF
- Cold body
- Shower head 250 x 250 mm
- Monojet ABS square shower
- Metal handle
- Built-in ceramic switch
- Brass pipe 30 x 15 mm
- Total height 1022 mm

Neru Plus	Code	Price €
Chrome	NER30	

Shower set
- Thermostatic mixer NF
- Cold body
- Slim metal shower head Ø 250 mm
- Monojet ABS shower
- Metal handle
- Built-in ceramic switch
- Adjustable brass pipe Ø 20 mm
- Adjustable wall support
- Total height 1052 mm

Wata	Code	Price €
Chrome	WAT35	

Shower set
- Thermostatic mixer NF
- Cold body
- Adjustable ABS shower head Ø 200 mm
- Monojet shower
- Built-in ceramic switch
- Telescopic adjustable brass pipe Ø 23 mm
- Height 800 to 1280 mm

Wata	Code	Price €
Chrome	WAT39	

Shower set
- Thermostatic mixer NF
- Cold body
- Slim metal shower head 250 x 250 mm
- Square monojet ABS shower
- Metal handle
- Built-in ceramic switch
- Adjustable brass pipe Ø 20 mm
- Adjustable wall support
- Total height 1052 mm

Wata	Code	Price €
Chrome	WAT37	

Shower set
- Thermostatic mixer NF
- Cold body
- ABS shower head 250 x 250 mm
- Monojet ABS shower
- Metal handle
- Built-in ceramic switch
- Adjustable brass pipe Ø 20 mm
- Adjustable wall support
- Total height 1052 mm

Wata	Code	Price €
Chrome	WAT33	

Shower set
- Thermostatic mixer NF
- Cold body
- ABS shower head Ø 250 mm
- Monojet ABS shower
- Metal handle
- Built-in ceramic switch
- Adjustable brass pipe Ø 20 mm
- Adjustable wall support
- Total height 1052 mm

Wata	Code	Price €
Chrome	WAT31	

Shower set
- Thermostatic mixer NF
- Slim metal shower head 200 x 200 mm
- Monojet ABS shower
- Built-in ceramic switch
- Adjustable brass pipe Ø 20 mm
- Adjustable wall support
- Total height 1052 mm

Mizu	Code	Price €
Chrome	MIZ33	

Shower set
- Thermostatic mixer NF
- Slim metal shower head Ø 200 mm
- Monojet ABS shower
- Built-in ceramic switch
- Adjustable brass pipe Ø 20 mm
- Adjustable wall support
- Total height 1052 mm

Mizu	Code	Price €
Chrome	MIZ29	

Shower set
- Thermostatic mixer NF
- ABS shower head 200 x 200 mm
- Monojet ABS shower
- Built-in ceramic switch
- Adjustable brass pipe Ø 21 mm
- Adjustable wall support
- Total height 1052 mm

Mizu	Code	Price €
Chrome	MIZ31	

Shower set
- Thermostatic mixer NF
- ABS shower head Ø 200 mm
- Monojet ABS shower
- Built-in ceramic switch
- Adjustable brass pipe Ø 21 mm
- Adjustable wall support
- Total height 1052 mm

Mizu	Code	Price €
Chrome	MIZ27	

Shower set
- Thermostatic mixer NF
- ABS shower head Ø 200 mm
- Monojet ABS shower
- Built-in ceramic switch
- Brass pipe Ø 21 mm
- Adjustable wall support
- Total height 1042 mm

Mizu	Code	Price €
Chrome	MIZ25	

Shower set
- Ceramic shower mixer
- Cold body
- ABS shower head Ø 200 mm
- Monojet ABS shower
- Adjustable brass pipe
- Adjustable wall support
- Total height 1052 mm

Mizu	Code	Price €
Chrome	MIZ21	

Shower set
- Thermostatic mixer
- 3 jet ABS shower head Ø 105 mm
- Brass pipe Ø 20 mm
- Flow limiter
- Total height 1014 mm

Mizu	Code	Price €
Chrome	MIZ10	

Shower set
- Universal connection
- Built-in change-over
- ABS shower head Ø 200 mm
- Monojet shower Ø 100 mm
- 150 cm shower flexible
- 60 cm connection flexible
- Manual change-over on flexible
- Adjustable brass pipe
- Total height 1050 mm

Uden	Code	Price €
Chrome	UDE355BA	

Thermostatic shower mixer
- Thermostatic cartridge
- Plate 160x200 mm
- Manual switch

Nipi		Code	Price €
Chrome	2 ways	NIP65	
Chrome	3 ways	NIP66	

Thermostatic bath/shower mixer
- Thermostatic cartridge
- Round plate Ø 165 mm
- Manual switch

Uisse		Code	Price €
Chrome	1 way	UIS65	
Chrome	2 ways	UIS66	

Bath/shower mixer
- Ceramic cartridge
- Round plate Ø 160 mm
- Manual switch

Maya		Code	Price €
Chrome	1 way	MAA60	
Chrome	2 ways	MAA61	

Thermostatic bath/shower mixer
- Thermostatic cartridge
- Plate 120x170 mm
- Manual switch

Uisse		Code	Price €
Chrome	1 way	UIS67	
Chrome	2 ways	UIS68	

Shower bar

- Bar 60 cm
- Monojet ABS shower
- Metal flexible 150 cm
- Pipe Ø 25 mm

Uden	Code	Price €
Chrome	UDE350BA	

Shower bar

- Bar 60 cm
- 3 jet ABS shower
- PVC flexible 150 cm
- Pipe Ø 22 mm

Uden	Code	Price €
Chrome	UDE300BA	

Shower bar

- Bar 60 cm
- 5 jet ABS shower
- Soap holder
- PVC flexible 150 cm
- Pipe Ø 22 mm

Aghe	Code	Price €
Chrome	AGH400BA	

Shower bar

- Adjustable bar 70 cm
- Adjustable supports
- Monojet ABS shower
- PVC flexible 150 cm
- Pipe Ø 25 mm

Aghe	Code	Price €
Chrome	AGH360BA	

Shower head

- Chrome plated ABS
- Anti-calcareous soft pins
- Thickness 10 mm

mm	Code	Price €
Ø 200	UDE106TD	
Ø 250	UDE101TD	

Shower head

- Chrome plated ABS
- Anti-calcareous soft pins
- Thickness 10 mm

mm	Code	Price €
200 x 200	UDE100TD	
250 x 250	UDE107TD	

Shower head

- Metal chrome plated 10 mm thickness
- Anti-calcareous soft pins

mm	Code	Price €
Ø 200	AGH108TD	
Ø 250	AGH102TD	
Ø 300	AGH104TD	

Shower head

- Metal chrome plated 10 mm thickness
- Anti-calcareous soft pins

mm	Code	Price €
250 x 250	AGH103TD	

Shower head

- Metal chrome plated 3 mm thickness
- Anti-calcareous soft pins

mm	Code	Price €
Ø 200	AGH109TD	
Ø 250	AGH110TD	
Ø 300	AGH105TD	

Shower head

- Metal chrome plated 3 mm thickness
- Anti-calcareous soft pins

mm	Code	Price €
200 x 200	AGH111TD	
300 x 300	AGH112TD	

Shower spray

- Ø 80 mm
- ABS monojet

Code	Price €
UDE201DO	

Shower spray

- Ø 105 mm
- ABS 3 & 5 jets
- Anti-calcareous

Jets	Code	Price €
3	UDE212DO	
5	UDE206DO	

Shower spray

- Ø 102 mm,
- ABS 3 jets
- Anti-calcareous

Code	Price €
UDE205DO	

Shower spray

- Ø 120 mm,
- ABS 3 jets
- Anti-calcareous

Code	Price €
UDE210DO	

Shower spray

- Ø 100 mm,
- ABS monojet
- Anti-calcareous,
- AIR-MIX® system

Code	Price €
AGH202DO	

Flexible hose

- Brass double interlocking
- Connection FF1/2"
- Free nut / anti-twist
- Very soft

L (cm)	Code	Price €
150	UDE30FLA	

Flexible hose

- Metal-coated PVC
- Connection FF1/2"
- Free nut / anti-twist

L (cm)	Code	Price €
60	AGH31FLL	
150	AGH32FLL	
175	AGH33FLL	
200	AGH34FLL	

Flexible hose

- Metal double interlocking
- Connection FF1/2"

L (cm)	Code	Price €
150	UDE25FLA	

Flexible hose

- Metal double interlocking
- Connection FF1/2"
- Free nut
- Extensible 150 to 200 mm

L (cm)	Code	Price €
150/200	UDE32FLA	

ABS shower support

- Ø 34 mm
- Projection 44 mm

Code	Price €
UDE28SUP	

ABS shower support

- Projection 70 mm
- Adjustable

Code	Price €
UDE29SUP	

ABS shower support

- Dimension 35 x 30 mm
- Projection 42 mm

Code	Price €
UDE27SUP	

Brass embedded water connection

- Ø 52 mm
- Projection 26 mm
- MM1/2"

Code	Price €
UDE25SUP	

Brass embedded water connection

- Dimension 30 x 30 mm
- Projection 50 mm
- MM1/2"

Code	Price €
UDE26SUP	

Brass shower arm

- Length 350 mm
- Diameter 22 x 22 mm
- M1/2"

Code	Price €
UDE40BR	

Cartridge

	Code	Price €
For NER50, NER25, NER55, NIP55, NIP50, NIP25, all Mizu types	CARTHERM1	
For NER65, NIP65, NIP66	CARTHERM2	
For all Uji types	CARTHERM3	
For all Wata types	CARTHERM4	

Display

- Dimensions
  L 33 x l 40 x H 40 cm

Code	Price €
PRES8	

Fittings set for display

Code	Price €
ECR1	

Brass embedded water connection

- Dimension 52 mm
- Projection 46 mm
- MM1/2"
- Adjustable position

Code	Price €
UDE24SUP	

Brass embedded water connection

- Projection 66 mm
- MM1/2"
- Outlet & support

Code	Price €
UDE30SUP	

Brass shower arm

- Length 350 mm
- Diameter Ø 18 mm
- M1/2"

Code	Price €
UDE35BR	

High mixer with spray

- 1 jet spray
- Ceramic cartridge Ø 40 mm
- Flexible hoses F3/8"
- Height under nozzle 225 mm
- Total height 400 mm
- 6° angle jet

Ama	Code	Price €
Chrome	AMA13	

High mixer with spray

- 2 jet spray
- Ceramic cartridge Ø 40 mm
- Flexible hoses F3/8"
- Height under nozzle 160 mm
- Total height 540 mm
- Straight jet

Danum	Code	Price €
Chrome	DAN13	

High mixer with spray

- 2 jet spray
- Ceramic cartridge Ø 40 mm
- Flexible hoses F3/8"
- Height under nozzle 125 mm
- Total height 434 mm
- Straight jet

Uige	Code	Price €
Chrome	UIG13	

High mixer

- Stainless steel body
- Ceramic cartridge Ø 40 mm
- Flexible hoses F3/8"
- Height under nozzle 206 mm
- Total height 374 mm
- 5° angle jet

Vand	Code	Price €
Chrome	VAN10	

High mixer

- Stainless steel body
- Ceramic cartridge Ø 40 mm
- Flexible hoses F3/8"
- Height under nozzle 238 mm
- Total height 294 mm
- Straight jet

Vand	Code	Price €
Chrome	VAN11	

Flexible hose high mixer

- 1 jet flexible hose
- Silicone ECOLOR® sheath
- Ceramic cartridge Ø 25 mm
- Flexible hoses F3/8"
- Height under nozzle 267 mm
- Total height 481 mm

Tubig	Code	Price €
Chrome	TUB12C	
Black	TUB12N	
White	TUB12W	
Purple	TUB12P	
Orange	TUB12A	
Blue	TUB12B	
Lemon	TUB12Y	

High mixer with spray

- 1 jet pull-out spray
- Silicone ECOLOR® sheath
- Ceramic cartridge Ø 35 mm
- Flexible hoses F3/8"
- Height under nozzle 267 mm
- Total height 295 mm
- 8° angle jet

Taner	Code	Price €
Chrome	TAN10	
Chrome/Black	TAN12N	
Chrome/White	TAN12W	
Chrome/Purple	TAN12P	
Chrome/Orange	TAN12A	
Chrome/Blue	TAN12B	
Chrome/Lemon	TAN12Y	

High mixer with adjustable nozzle

- Ceramic cartridge Ø 40 mm
- Flexible hoses F3/8"
- Height under nozzle 260 mm
- Total height 336 mm
- 4° angle jet

Dolo	Code	Price €
Chrome	DOL10	

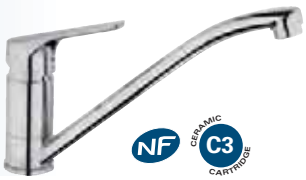
High mixer

- Ceramic cartridge Ø 35 mm
- Flexible hoses F3/8"
- Height under nozzle 154 mm
- Total height 259 mm
- Straight jet

Ama	Code	Price €
Chrome	AMA10	

Mixer

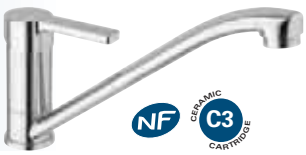
- Ceramic cartridge Ø 35 mm
- Flexible hoses F1/2"
- Height under nozzle 152 mm
- Total height 175 mm
- 15° angle jet



Madi	Code	Price €
Chrome	MAD10	

Mixer

- Ceramic cartridge Ø 35 mm
- Flexible hoses F1/2"
- Height under nozzle 140 mm
- Total height 186 mm
- 10° angle jet



Omi	Code	Price €
Chrome	OMI10	

High mixer

- 1/2 turn ceramic head
- Flexible hoses F3/8"
- Height under nozzle 220 mm
- Total height 270 mm
- 8° angle jet

Akvo	Code	Price €
Chrome	AKV10	

High mixer with spray

- 1 jet pull-out spray
- Ceramic cartridge Ø 40 mm
- Flexible hoses F3/8"
- Height under nozzle 170 mm
- Total height 354 mm
- Straight jet

High mixer

- Ceramic cartridge Ø 40 mm
- Flexible hoses F3/8"
- Height under nozzle 228 mm
- Total height 351 mm
- 8° angle jet

Kome	Code	Price €
Chrome with pull-out spray	KOM12	
Chrome	KOM10	
Chrome/Black	KOM12N	
Chrome/White	KOM12W	
Chrome/Purple	KOM12P	
Chrome/Orange	KOM12A	
Chrome/Blue	KOM12B	
Chrome/Lemon	KOM12Y	

Mixer

- Ceramic cartridge Ø 35 mm
- Flexible hoses F3/8"
- Height under nozzle 156 mm
- Total height 242 mm
- 35° angle jet

Wossa	Code	Price €
Chrome	WOS10	

High mixer

- Ceramic cartridge Ø 40 mm
- Flexible hoses F3/8"
- Height under nozzle 230 mm
- Total height 270 mm
- 25° angle jet

Urna	Code	Price €
Chrome	URN10	

Sink mixer

- Ceramic cartridge Ø 35 mm
- Adjustable nozzle
- Long & soft handle, no sharp angle
- Height under nozzle 140 mm
- Total height 166 mm

Abba	Code	Price €
Chrome	ABB82PMR	

Consumer line

Trendy & high performance, elegant & reliable:
a big variety of styles & uses

OUR SELECTION

High mixer

- Flow limiter Ø 25 cartridge
- Body Ø 36
- Adjustable nozzle
- Height under nozzle 265 mm
- Projection 221 mm

Ophir	Code	Price €
Chrome	666099	
Brushed nickel	666179	

Basin mixer

- Cartridge Ø 35
- Body Ø 42
- Height under nozzle 75 mm
- Total height 126 mm
- Projection 100 mm

Elliot	Code	Price €
White	512119	
Grey	512159	
Black	512199	
Beige	512169	

Basin mixer

- Ceramic cartridge Ø 25
- Body Ø 36
- Metal handle
- Height under nozzle 116 mm
- Projection 124 mm

Izawa	Code	Price €
Chrome	582099	

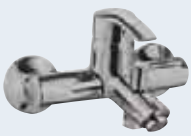
Basin mixer

- Ceramic cartridge Ø 40
- Body Ø 54
- Metal handle
- Height under nozzle 50 mm
- Total height 140 mm
- Projection 126 mm

Callisto	Code	Price €
Brushed metal	802179	

Shower mixer

Code	Price €
804179	



Bath/shower mixer

Code	Price €
801179	

Basin high mixer

- Cartridge Ø 35
- Body 41 x 41 mm
- Metal handle
- Sold without drainage
- Height under nozzle 234 mm
- Projection 128 mm

Equs	Code	Price €
Chrome	613099	

Shower mixer

Code	Price €
614099	

Basin mixer

- Cartridge Ø 35
- Body 42 x 42 mm
- Metal handle
- Brass drainage
- Projection 183 mm

Ginko	Code	Price €
Chrome	742099	

Basin mixer

- Ceramic cartridge Ø 25 - Energy saving
- Body Ø 38
- Metal handle
- Ultra thin aerator with water saving function (40%)
- Height under nozzle 140 mm
- Projection 151 mm

Ophir	Code	Price €
Chrome	662099	
Matt black	662089	
Black & chrome	662199	
White & chrome	662119	

Basin mixer

- Ceramic cartridge Ø 25
- Body Ø 36
- Metal handle
- Ultra thin aerator with water saving function (40%)
- Height under nozzle 110 mm
- Projection 110 mm

Reno	Code	Price €
Chrome	732099	
White	732019	
Matt black	732089	

Basin mixer

- Cartridge Ø 35
- Body 41 x 41 mm
- Metal handle
- Brass drainage
- Height under nozzle 68 mm
- Total height 178 mm
- Projection 106 mm

Equs	Code	Price €
Chrome	612099	

Bath/shower mixer

Code	Price €
611099	

Basin mixer

- Cartridge Ø 25
- Body 40 x 45 mm
- Metal handle
- Height under nozzle 95 mm
- Total height 145 mm
- Projection 120 mm

Charlotte	Code	Price €
Chrome	522099	

Basin mixer

- Ceramic cartridge Ø 25 - Energy saving
- Body Ø 45
- Metal handle
- Ultra thin aerator with water saving function (40%)
- Height under nozzle 94 mm
- Projection 118 mm

Mezzo	Code	Price €
Chrome	672099	
White	672019	
Matt black	672089	

Basin mixer

- Ceramic cartridge Ø 35 - Energy saving
- Metal handle
- Height under nozzle 124 mm
- Total height 174 mm
- Projection 121 mm

Gangi	Code	Price €
Chrome	472099	

Basin mixer

- Cartridge Ø 35
- Body Ø 48
- Metal handle
- Height under nozzle 80 mm
- Projection 102 mm

Milo	Code	Price €
Chrome	182099	

Basin mixer

- Ceramic cartridge Ø 25 - Energy saving
- Body Ø 45
- Metal handle
- Height under nozzle 127 mm
- Projection 130 mm

Aukland	Code	Price €
Chrome	542099	

Basin mixer

- Ceramic cartridge Ø 35
- Body Ø 40
- Metal handle
- Height under nozzle 105 mm
- Total height 168 mm
- Projection 132 mm

Nelson	Code	Price €
Chrome	572099	

Basin mixer

- Ceramic cartridge Ø 35
- Body Ø 50
- Metal handle
- Brass drainage
- Built-in flow limiter - Energy saving
- Projection 109 mm

Lyra	Code	Price €
Chrome	982099	

Basin mixer

- Ceramic cartridge Ø 25 - Energy saving
- Body Ø 45
- Metal handle
- Aerator with water saving function (40%)
- Height under nozzle 65 mm
- Projection 121 mm

Jersey	Code	Price €
Chrome	652099	
Matt black	652089	
Brushed nickel	652179	

Basin mixer

- Ceramic cartridge Ø 35
- Body Ø 50
- Metal handle
- Height under nozzle 95 mm
- Total height 150 mm
- Projection 107 mm

Ispica	Code	Price €
Chrome	482099	

Shower mixer

Code	Price €
484099	

Bath/shower mixer

Code	Price €
481099	

High basin mixer

- Cartridge Ø 35
- Body 42 x 42 mm
- Metal handle
- Sold without drainage*
- Height under nozzle 248 mm
- Projection 105 mm

Scuba	Code	Price €
Chrome	103099	

Basin mixer

- Ceramic cartridge Ø 25
- Body Ø 35
- Metal handle
- Height under nozzle 99 mm
- Total height 180 mm
- Projection 108 mm

Winston	Code	Price €
Chrome	552099	

Infrared basin mixer

- Works with 2 batteries (1,5 V AA, not included)
- Operates up to 28 cm away with angle from 0 to 30°
- Response time < 1 s
- Body Ø 55
- Height under nozzle 137 mm
- Projection 116 mm

Sensis	Code	Price €
Chrome	858039	

Basin mixer

- Ceramic cartridge Ø 35
- Body Ø 44
- Metal handle
- Height under nozzle 64 mm
- Total height 147 mm
- Projection 111 mm

Ascoli	Code	Price €
Chrome	492099	

NF

Shower mixer

Code	Price €
494099	

NF

Bath/shower mixer

Code	Price €
491099	

* See "Push-up" drainage page ???

Basin mixer

- Cartridge Ø 35
- Body 42 x 42 mm
- Metal handle
- Height under nozzle 98 mm
- Total height 192 mm
- Projection 105 mm

Scuba	Code	Price €
Chrome	102099	

Shower mixer

Code	Price €
104099	

Bath/shower mixer

Code	Price €
101099	

High basin mixer

- Ceramic cartridge Ø 35
- Body Ø 41
- Metal handle
- Height under nozzle 88 mm
- Total height 150 mm
- Projection 97 mm

NF

Spoleto	Code	Price €
Chrome	502099	

Basin mixer

- Ceramic cartridge Ø 35
- Body Ø 41
- Metal handle
- Height under nozzle 68 mm
- Total height 129 mm
- Projection 97 mm

NF

Spoleto	Code	Price €
Chrome	503099	

NF

Shower mixer

Code	Price €
504099	

NF

Bath/shower mixer

Code	Price €
501099	

NF

Bath/shower single-hole mixer

Code	Price €
506099DI	

Basin mixer

- Ceramic cartridge Ø 40
- Body Ø 47
- Metal handle
- Built-in flow limiter - Energy saving
- Height under nozzle 57 mm
- Total height 124 mm
- Projection 92 mm

Trapani	Code	Price €
Chrome	462099	

Shower mixer

Code	Price €
464099	

Bath/shower mixer

Code	Price €
461099	

Bath/shower single-hole mixer

Code	Price €
646099	

Basin mixer

- Cartridge Ø 35
- Body Ø 42
- Height under nozzle 78 mm
- Total height 140 mm
- Projection 102 mm

Dobson	Code	Price €
Chrome	532099	

Basin mixer

- Cartridge Ø 35
- Body Ø 40
- Height under nozzle 110 mm
- Total height 163 mm
- Projection 121 mm

Barton	Code	Price €
Chrome	972099	

Basin mixer

- Cartridge Ø 35
- Body Ø 45
- Metal handle
- Height under nozzle 138 mm
- Projection 135 mm

Happy	Code	Price €
Chrome	782099	

Basin mixer

- Cartridge Ø 35
- Body Ø 42
- Metal handle
- Free and adjustable nozzle
- Height under nozzle 110 mm
- Total height 197 mm
- Projection 120 mm

Swedge	Code	Price €
Chrome	132099	

Basin mixer

- Cartridge Ø 35
- Body Ø 45
- Flow limiter
- Height under nozzle 86 mm
- Projection 108 mm

Hope	Code	Price €
Chrome	152099	

Shower mixer

Code	Price €
154099	

Bath/shower mixer

Code	Price €
151099	

Basin mixer

- Cartridge Ø 35
- Height under nozzle 64 mm
- Total height 128 mm
- Projection 85 mm

Hook

	Code	Price €
Chrome	622099	

Shower mixer

Code	Price €
624099	

Bath/shower mixer

Code	Price €
621099	

Basin high mixer

- Cartridge Ø 40
- Body Ø 42
- Metal handle
- Sold without drainage*
- Height under nozzle 200 mm
- Projection 101 mm

Kilya

	Code	Price €
Chrome	813099	

Basin mixer

- Cartridge Ø 40
- Body Ø 45
- Metal handle
- Total height 186 mm
- Projection 115 mm

Kilya

	Code	Price €
Chrome	812099	
Black	812089	

Shower mixer

Code	Price €
814099	

Bath/shower mixer

Code	Price €
811099	

Basin mixer

- Ceramic cartridge Ø 40
- Body Ø 45
- Metal handle
- Height under nozzle 110 mm
- Total height 166 mm

Amber

	Code	Price €
Chrome	762099	

Basin mixer

- Cartridge Ø 40
- Body Ø 50
- Metal handle
- Projection 115 mm

Romanz

	Code	Price €
Chrome	132009	
Chrome/gold	132229	

Basin mixer

- Cartridge Ø 35
- Body Ø 42
- Height under nozzle 103 mm
- Total height 167 mm
- Projection 117 mm

Harlow

	Code	Price €
Chrome	792099	

* See "Push-up" drainage page ???

Basin mixer with adjustable nozzle

- 1/2 turn ceramic heads
- Brass crosspieces
- Height under nozzle 167 mm
- Projection 128 mm

Adonis

Chrome

Code	Price €
872099	

Bath/shower mixer

Code	Price €
871099	

Basin mixer

- Cartridge Ø 40
- Body Ø 50
- Metal handle
- Height under nozzle 50 mm
- Total height 105 mm
- Projection 105 mm

Téthys

Chrome

Code	Price €
772099	

Shower mixer

Code	Price €
774099	

Bath/shower mixer

Code	Price €
771099	

Basin mixer

- Cartridge Ø 35
- Body Ø 45
- Metal handle
- Height under nozzle 54 mm
- Total height 140 mm
- Projection 129 mm

Tellus

Chrome

Code	Price €
712099	

Shower mixer

Code	Price €
714099	

Bath/shower mixer

Code	Price €
711099	

Basin mixer

- Cartridge Ø 35
- Body Ø 45
- Metal handle
- ABS drainage
- 112 mm projection

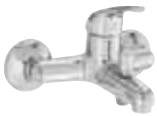
Léto

Chrome

Code	Price €
852009	

Shower mixer

Code	Price €
854009	



Bath/shower mixer

Code	Price €
851009	

Bath/shower single-hole mixer

Code	Price €
853009	

Bidet mixer

Code	Price €
857009	

Thermostatic mixers

- 1/2 turn ceramic heads
- Thermostatic cartridge with scalding protection
- Cold body with built-in change-over

NF

Thermosur 650 Chrome		Code	Price €
Shower		**884659**	
Bath / shower	175 mm projection	**881659**	

Thermostatic mixers

- 1/2 turn ceramic heads
- Thermostatic cartridge with scalding protection
- Cold body with built-in change-over

NF

Thermosur 450 Chrome		Code	Price €
Shower		**884459**	
Bath / shower	175 mm projection	**881459**	

Thermostatic mixers

- 1/2 turn (for shower mixer) & 1/4 turn (for bath / shower mixer) ceramic heads
- Thermostatic cartridge with scalding protection
- Metal crosspieces & built-in change-over for bath / shower mixer

Thermosur 430 Chrome		Code	Price €
Shower	75 mm projection	**884439**	
Bath / shower	163 mm projection	**881439**	

Thermostatic mixers

- 1/2 turn (for shower mixer) & 1/4 turn (for bath / shower mixer) ceramic heads
- Thermostatic cartridge with scalding protection
- Built-in change-over for bath / shower mixer

Thermosur 420 Chrome		Code	Price €
Shower	75 mm projection	**884429**	
Bath / shower	158 mm projection	**881429**	

Thermostatic mixers

- 1/4 turn ceramic heads
- Thermostatic cartridge with scalding protection

Thermosur 400 Chrome		Code	Price €
Shower	75 mm projection	**884499**	
Bath / shower	175 mm projection	**881499**	

Thermostatic mixers

- Thermostatic cartridge with scalding protection
- Built-in change-over
- Double inlet for shower bar

Thermosur 390 Chrome		Code	Price €
Shower	74 mm projection	**884999**	

Thermostatic mixers

- 1/2 turn ceramic cartridge
- Thermostatic cartridge with scalding protection

NF

Thermosur 350 Chrome		Code	Price €
Shower		**884599**	
Bath / shower	175 mm projection	**881599**	

Thermostatic mixers

- 1/2 turn ceramic cartridge
- Thermostatic cartridge with scalding protection

Thermosur 200 Chrome		Code	Price €
Shower	74 mm projection	**884299**	
Bath / shower	159 mm projection	**881299**	

Thermostatic mixers

- 1/2 turn ceramic cartridge
- Thermostatic cartridge with scalding protection

Thermosur 100 Chrome		Code	Price €
Shower	75 mm projection	**884009**	
Bath / shower	105 mm projection	**881009**	

Basin tap

- Cold and hot water mixer
- Cartridge Ø 25
- Body 35 x 35 mm
- Metal handle

Baros	Code	Price €
Chrome	838299	

Basin tap

- Spring temporization
- Body Ø 35
- Metal tappet

Sanéos	Code	Price €
Chrome	858099	

Basin mixer

- 1/2 turn ceramic head
- Metal crosspiece

Scop	Code	Price €
Chrome	838199	

Basin mixer

- Checks heads
- ABS crosspiece

Ru	Code	Price €
Chrome	838095	

Basin mixer

- Cartridge Ø 35
- Body Ø 50
- Long lever
- Height under nozzle 55 mm
- Total height 204,5 mm
- Projection 152 mm

Access01-PMR	Code	Price €
Chrome	858209	

Shower thermostatic mixer

- Thermostatic cartridge with scalding protection
- Cold body
- Long lever
- Projection 64 mm

Access01-PMR	Code	Price €
Chrome	858409	

Bath/shower thermostatic mixer

- Cartridge Ø 35
- Thermostatic cartridge with scalding protection
- Built-in change-over
- Long lever
- Projection 148 mm

Access01-PMR	Code	Price €
Chrome	858109	

Sink mixer

- Cartridge Ø 35
- Body Ø 50
- Fountain nozzle
- Long lever
- Height under nozzle 133 mm
- Total height 305 mm
- Projection 200 mm

Access01-PMR	Code	Price €
Chrome	858509	

Sink mixer

- Cartridge Ø 40
- Body Ø 52
- Flow limiter
- Height under nozzle 116 mm
- Projection 230 mm

Access02-PMR	Code	Price €
Chrome	728099	

High mixer
Touch release

- Built-in touch release system
- Ceramic cartridge Ø 35
- Metal handle
- Height under nozzle 235 mm
- Total height 330 mm

Tact	Code	Price €
Chrome	966099	

High mixer with spray

- Cartridge Ø 35
- Body Ø 42
- Base Ø 53
- Free nozzle with independant handle
- Single jet spray
- Total height 470 mm
- Projection 159 mm

Mareeba	Code	Price €
Chrome	878099	
Brushed nickel	878179	

High mixer

- Cartridge Ø 35
- Body Ø 42
- Metal handle
- Free nozzle
- Adjustable arm
- Height under nozzle 271 mm
- Projection 386 mm

Broome	Code	Price €
Chrome	758099	

High mixer with spray

- Cartridge Ø 35
- Body Ø 50
- Metal handle
- Free nozzle
- Extractible aerator with double clamp 1,50 m metal flexible spray
- Height under nozzle 280 mm
- Total height 480 mm
- Projection 220 mm

Sonic	Code	Price €
Chrome	827099	

High mixer with spray

- Ceramic cartridge Ø 35
- Body Ø 52
- Metal handle
- Free nozzle
- Height under nozzle 197 mm
- Total height 382 mm
- Projection 190 mm

Gala	Code	Price €
Chrome	987099	

High mixer with spray

- Cartridge Ø 35
- Body Ø 44
- Metal handle
- 2 jet pull-out with nylon flexible spray
- 360° adjustable nozzle
- Height under nozzle 130,5 mm
- Total height 525mm

Soho	Code	Price €
Chrome	138099	
Brushed nickel	138179	

High mixer

- Flow limiter cartridge
- Body Ø 48
- Adjustable aerator
- Height under nozzle 255 mm
- Projection 200 mm

Respect-U	Code	Price €
Brushed nickel	105179	
Black	105089	
Anthracite	105159	

High mixer with spray

- Cartridge Ø 40
- Body Ø 42
- Metal handle
- ABS 2 jet pull-out withdouble clamp 1,50 m metal flexible spray
- Free nozzle
- Height under nozzle 230 mm

Zéphir	Code	Price €
Chrome	826099	

High mixer
- Cartridge Ø 35
- Body Ø 45
- Metal handle
- Free nozzle
- Height under nozzle 270 mm

Fine	Code	Price €
Chrome	887099	

High mixer
- Ceramic cartridge Ø 35
- Body Ø 50
- Metal handle
- Free nozzle
- Height under nozzle 263 mm
- Total height 370 mm
- Projection 169 mm

Roma	Code	Price €
Chrome	127099	

High mixer
- Ceramic cartridge Ø 35
- Body Ø 40
- Metal handle
- Free nozzle
- Height under nozzle 284 mm
- Total height 366 mm
- Projection 210 mm

Palma	Code	Price €
Chrome	687099	

High mixer with adjustable nozzle
- Ceramic cartridge Ø 40
- Body Ø 50
- Metal handle
- Height under nozzle 230 mm
- Total height 322 mm
- Projection 198 mm

Mica	Code	Price €
Chrome	757099	

High mixer
- Ceramic cartridge Ø 35
- Body Ø 42
- Metal handle
- Free nozzle
- Height under nozzle 235 mm
- Total height 320 mm

Somerset	Code	Price €
Chrome	897099	

High mixer
- Cartridge Ø 35
- Body Ø 50
- Free nozzle
- Height under nozzle 261 mm
- Total height 275 mm
- Projection 197 mm

Kiama	Code	Price €
Chrome	975099	

High mixer
- Cartridge Ø 35
- Body Ø 53
- Metal handle
- Free nozzle
- Height under nozzle 230 mm
- Total height 400 mm
- Projection 210 mm

Alice	Code	Price €
Chrome	147099	

High mixer with spray
- Ceramic cartridge Ø 40
- Body Ø 50
- Metal handle
- Height under nozzle 262 mm
- Total height 450 mm
- Projection 250 mm

Bristol	Code	Price €
Chrome	817099	

High mixer with adjustable nozzle
- Cartridge Ø 40
- Body Ø 50
- Metal handle
- Free nozzle
- Height under nozzle 245 mm
- Height in low position 75 mm
- Total height 335 mm
- Projection 190 mm

Farello	Code	Price €
Chrome	756099	

High mixer
- Body Ø 36
- Metal handle
- Free nozzle
- Height under nozzle 258 mm
- Total height 405 mm
- Projection 230 mm

Talgon	Code	Price €
Chrome	116099	

High mixer

- 1/2 turn ceramic heads
- Brass crosspieces
- Free nozzle
- Height under nozzle 182 mm
- Total height 247 mm
- Projection 235 mm

Arkéos	Code	Price €
Antique copper	755149	
Antique bronze	755189	

High mixer

- Ceramic cartridge Ø 40
- Body Ø 48
- Metal handle
- Free nozzle
- Height under nozzle 220 mm
- Projection 180 mm

Callisto	Code	Price €
Brushed metal	805179	

High mixer

- Cartridge Ø 35
- Flow limiter aerator 7,5 to 9 l/mn
- Body Ø 42
- ABS handle
- Free nozzle
- Height under nozzle 243 mm
- Total height 334 mm
- Projection 181 mm

Happy	Code	Price €
Chrome	787099	

High mixer

- Ceramic cartridge Ø 40
- Body Ø 48
- Metal handle
- Free nozzle
- Height under nozzle 240 mm
- Total height 328 mm
- Projection 196 mm

Helix	Code	Price €
Chrome	705099	

Mixer

- Ceramic cartridge Ø 35
- Body Ø 50
- Metal handle
- Free nozzle
- Height under nozzle 130 mm
- Total height 176 mm
- Projection 202 mm

Lyra	Code	Price €
Chrome	985099	

High mixer

- Ceramic cartridge Ø 35
- Body Ø 49,5
- Metal handle
- Free nozzle
- Height under nozzle 236 mm
- Projection 175 mm

Swan	Code	Price €
Matt black	965089	
Brushed metal	965179	

High mixer

- Cartridge Ø 40
- Body Ø 50
- Metal handle
- Free nozzle
- Height under nozzle 220 mm
- Total height 340 mm

Spirit	Code	Price €
Chrome	867099	

High mixer

- Cartridge Ø 40
- Body Ø 51
- Metal handle
- Free nozzle
- Height under nozzle 179 mm
- Total height 300 mm
- Projection 220 mm

Bridge	Code	Price €
Chrome	145099	

High mixer

- 1/2 turn ceramic heads
- Brass crosspieces
- Free nozzle
- Height under nozzle 175 mm
- Projection 199 mm

Eros +	Code	Price €
Chrome	835099	

Mixer

- Ceramic cartridge Ø 35
- Body Ø 40
- Metal handle
- Free nozzle
- Height under nozzle 130 mm
- Total height 194 mm
- Projection 208 mm

Modena	Code	Price €
Chrome	165099	

Mixer with spray

- Energy saving cartridge Ø 35
- Body Ø 45
- Flow limiter aerator 7,5 to 9 l/mn
- Height under nozzle 175 mm
- Projection 209 mm

Happy	Code	Price €
Chrome	786099	

Mixer

- Energy saving cartridge Ø 35
- Body Ø 45
- Flow limiter aerator 7,5 to 9 l/mn
- Metal handle
- Height under nozzle 175 mm
- Projection 210 mm

Happy	Code	Price €
Chrome	785099	

Mixer

- Flow limiter
- Body Ø 55
- Height under nozzle 155 mm
- Projection 222 mm

Léonard	Code	Price €
Chrome	795099	

Mixer

- Ceramic cartridge Ø 40
- Body Ø 48
- Metal handle
- Height under nozzle 144 mm
- Projection 226 mm

Sawyer	Code	Price €
Brushed metal	765179	

Mixer

- Cartridge Ø 40 with flow and temperature limiter
- Body Ø 45
- Metal handle
- Free nozzle
- Height under nozzle 141 mm
- Projection 223 mm

Saturnos	Code	Price €
Chrome	725099	
Brushed stainless steel	725179	
White	725019	
Terre de France	725119	
Antique bronze	725139	
Beige granite	725159	

Mixer with spray

- Ceramic cartridge Ø 40
- Metal handle
- Free nozzle
- Height under nozzle 142 mm
- Projection 210 mm

Strada	Code	Price €
Chrome	126099	

Mixer

- Cartridge Ø 40
- Metal handle
- Free nozzle
- Height under nozzle 133 mm
- Projection 226 mm

Strada	Code	Price €
Chrome	125099	

Mixer

- Flow limiter
- Metal handle
- Body Ø 50
- Cartridge Ø 35
- Height under nozzle 124 mm
- Projection 202 mm

Andrews	Code	Price €
Chrome	155099	

Mixer

- Cartridge Ø 40
- Body Ø 54
- Metal handle
- Cast free nozzle
- Height under nozzle 140 mm

Linéa	Code	Price €
Chrome	735099	
Terre de France	735119	
Antique bronze	735139	
Beige granite	735159	

Mixer with spray

- Cartridge Ø 40
- Body Ø 50
- Metal handle
- ABS 2 jet pull-out with double clamp 1,20 m metal flexible spray
- Free nozzle
- Height under nozzle 131 mm
- Projection 247 mm

Saturnos	Code	Price €
Chrome	726099	
Terre de France	726119	
White	726019	

Mixer

- Ceramic cartridge Ø 40
- Body Ø 49
- Metal handle
- Height under nozzle 120 mm
- Projection 225 mm

Baryon	Code	Price €
Chrome	645099	

Mixer with spray

- Cartridge Ø 40
- Body Ø 54
- Metal handle
- ABS 2 jet pull-out with double clamp 1,20 m metal flexible spray
- Height under nozzle 120 mm
- Projection 205 mm

Léto	Code	Price €
Chrome	856009	
Terre de France	856119	

Mixer

- Cartridge Ø 35
- Body Ø 43
- Metal handle
- Free nozzle
- Height under nozzle 116 mm
- Projection 140 mm

Léto	Code	Price €
Chrome	855099	
Antique bronze	855139	

High mixer

- Checks heads
- ABS crosspieces
- Free nozzle
- Height under nozzle 200 mm
- Total height 262 mm
- Projection 198 mm

Ru	Code	Price €
Chrome	855195	

Mixer

- Cartridge Ø 35
- Body Ø 45
- Metal handle
- Free and adjustable nozzle
- Height under nozzle 140 mm

Swedge	Code	Price €
Chrome	135099	

Mixer

- Cartridge Ø 35
- Body Ø 40
- Metal handle
- Free nozzle
- Height under nozzle 131 mm
- Projection 220 mm

Chester	Code	Price €
Chrome	175099	

Mixer

- Cartridge Ø 40
- Body Ø 50
- Metal handle
- Free nozzle
- Height under nozzle 130 mm

Téthys	Code	Price €
Chrome	775099	
White	775019	
Terre de France	775119	
Black	775089	
Antique brass	775139	
Antique copper	775149	
Antique stone	775159	

High mixer

- Cartridge Ø 35
- Body Ø 45
- Metal handle
- Free nozzle
- Height under nozzle 179 mm

Tellus	Code	Price €
Chrome	717099	

High mixer

- 1/2 turn ceramic heads
- Brass crosspieces
- Free nozzle
- Height under nozzle 196 mm
- Total height 251 mm

Adonis	Code	Price €
Chrome	875099	

Guarantee 2 Years

Sink mixer

- Checks head
- ABS crosspieces

Sold by multiple of 12 pieces

	Code	Price €
Chrome	855199	

Sink mixer

- Cartridge Ø 35
- Body Ø 40

Sold by multiple of 12 pieces

	Code	Price €
Chrome	785000	

Basin mixer

- Checks head
- ABS crosspieces

Sold by multiple of 12 pieces

	Code	Price €
Chrome	852099	

Basin mixer

- Cartridge Ø 35
- Body Ø 40
- ABS drainage

Sold by multiple of 12 pieces

	Code	Price €
Chrome	782000	

Shower mixer

- Checks head
- ABS crosspieces
- Center distance 150 ± 15 mm

Sold by multiple of 12 pieces

	Code	Price €
Chrome	854099	

Shower mixer

- Cartridge Ø 35
- Body Ø 40
- Center distance 150 ± 15 mm

Sold by multiple of 12 pieces

	Code	Price €
Chrome	784000	

Bath / shower mixer

- Checks head
- ABS crosspieces
- Center distance 150 ± 15 mm

Sold by multiple of 12 pieces

	Code	Price €
Chrome	851099	

Bath / shower mixer

- Cartridge Ø 35
- Body Ø 40
- Center distance 150 ± 15 mm

Sold by multiple of 12 pieces

	Code	Price €
Chrome	781000	

Shower thermostatic mixer

- 1/4 turn heads
- Scalding protection
- Center distance 150 ± 15 mm

Sold by multiple of 6 pieces

	Code	Price €
Chrome	884009	

Bath / Shower thermostatic mixer

- 1/2 turn ceramic heads
- Thermostatic cartridge with scalding protection
- Center distance 150 ± 15 mm

Sold by multiple of 6 pieces

	Code	Price €
Chrome	881009	

Bidet mixer

- Adjustable aerator
- Projection 96 mm

	Code	Price €
Chrome	857009	

	Code	Price
F 22/100	064911	
M 24/100	064921	
M 28/100	064931	

	Code	Price
With anti-calcareous filter		
F 22/100	064951	
M 24/100	064961	
M 28/100	064971	

Offset fittings 40 mm
(sold by 2)

	Code	Price
M 1/2. Nut F 1/2	700182	
MM 1/2 - 3/4	700192	

Roses
(sold by 2)
3/4

Code	Price
891590	

Universal pull-out spray for sink mixers
ABS hose: 2 jets

	Code	Price
Chrome	051305	
Terre de France	051313	
White	051319	

Universal flexible hoses for sink mixer
Nylon.
Length 120 cm.
F 15/21.

Code	Price
051330	

Metal.
Chrome plated.
Double clamp.
Length 120 cm.
F 15/21.

Code	Price
051301	

Aerator
With built-in flow limiter

	flow	Code	Price
F 22/100	61	064811	
F 22/100	81	064821	
M 24/100	61	064831	
M 24/100	81	064841	

Cartridge for aerator

	Code	Price
28/100	064941	
22/100 or 24/100	064901	

Standard shafts
(sold by 2)
Height 70 mm. MM 1/2 - 3/4

Code	Price
700232	

Wall crosspiece with rose
MM 1/2 - 3/4. Length 113 mm

Code	Price
700161	

Free nuts (sold by 2)
FF 1/2

Code	Price
700151	

Universal ceramic 1/2 turn head with ABS cross-piece

	Code	Price
3/8	700251	
1/2	700261	
17/150	700271	
18/150	700281	
19/150	700291	
20/150	700301	
21/150	700311	
22/150	700321	

Universal drainage «Push-up"

With chrome plated brass extension M1".
L: 200 mm - Ø 30 mm.
For sink without overflow Ø 30 mm to Ø 40 mm.

Code	Price
051401	

With chrome plated brass extension M1".
L: 200 mm - Ø 30 mm.
For sink with overflow Ø 30 mm to Ø 40 mm.

Code	Price
051411	

Universal display
Metal. Includes shower / bath nuts.
H 46 x W 46 x L 100 cm or H 46 x W 46 x L 133 cm.
Sold without faucet

	Code	Price
L 100 cm	890301	
L 133 cm	890302	

Bathroom signs
To be installed on support 50 x 20 cm

Code	Price
000064	

Code	Price
000097	

Code	Price
000059	

Kitchen signs
To be installed on support 50 x 20 cm

Code	Price
000065	

Code	Price
000098	

Pumps & Garden

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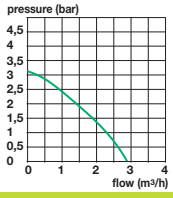
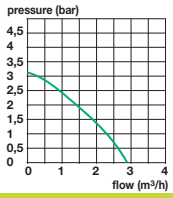
Surface pumps

NEW



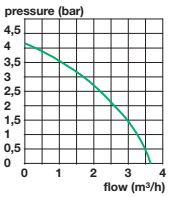
Pallet of 48 pcs
sold by 2 pcs

	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

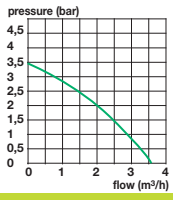
	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Ecop 140	600	0,8	1~230	3,5	35	5	002020



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	1000	1,3	1~230	3,6	42	5	002040

Booster sets



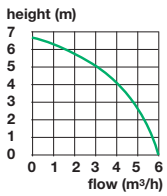
Pallet of 18 pcs

	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

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 160/20	1000	1,3	1~230	3,6	42	5	20	002120

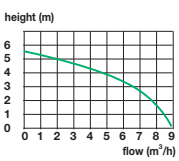
Drainage clear water pump



Pallet of 72 pcs
sold by 4 pcs

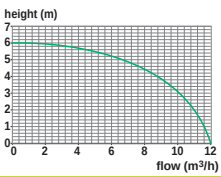
	power supply W	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	code
Ecop 100 automatic	250	0,3	1~230	6	6,8	002236

Sewage pumps



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 automatic	400	0,5	1~230	9	5,5	002237



Pallet of 72 pcs
sold by 4 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	code
Sewage 550 W	550	0,7	1~230	12	6	002260

Swimming pool pumps

Pallet of 30 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	code
PC 300	300	0,4	1~230	7	10	002960

For aboveground pool (5 to 25 m³).

Pallet of 40 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	code
PC 500	500	0,7	1~230	2	9	10	002961

For 20 to 45 m³ pool.

Pallet of 18 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	code
PC 800	800	1,1	1~230	3,2	15	15	002962

For 40 to 90 m³ pool.

Swimming pool pump fittings

PVC 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

PVC fitting to be glued

	code
F1"1/2 - M50 - F40	261280
M1"1/2 - M50 - F40	261290

PVC 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

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.

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	3/4" M	002201

Pallet of 80 pcs

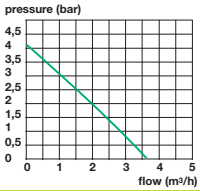
	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	min. suction level (mm)	outlet Ø	code
EC 300	350	0,5	1~230	3	10	3	3/4" M	002800

		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

		code
Tank set	For 1000 l rainwater tank - Includes ball valve, fitting & PTFE band.	262361

Spring - Surface pumps

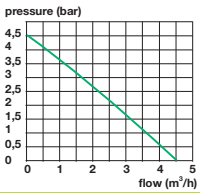
Comfort & simplicity



Pallet of 18 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Spring 900	900	1,2	1~230	3,6	42	8	002070

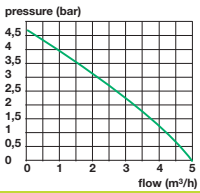
High performance



Pallet of 18 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Spring 1100	1100	1,5	1~230	4,6	46	8	002071

Super power - Lack of water protection



Pallet of 18 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Spring 1300 automatic	1300	1,7	1~230	5	46	8	002172

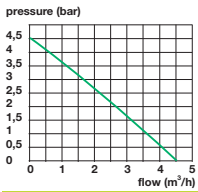
Fully automatised water management system.

Built-in automatisation & safety mecanism.

Lack of water protection: shut-off in case of outlet valve closing.

Spring - Booster set

Automatic solution - Constant pressure & flow



Pallet of 8 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	tank (l)	code
Spring 1100/24	1100	1,5	1~230	4,6	45	8	24	002171

Interchangeable membrane.

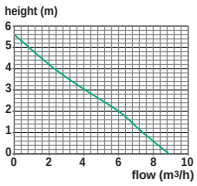
Built-in manometer for pressure control.

Multi stage & high flow fitting

For SPRING pumps connection to any kind of pipe.

code
262001

Storm - Drainage & sewage pump



Manual/automatic switch.

Clear water.

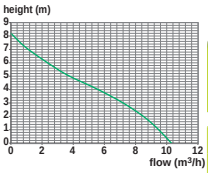
Sewage water.

Pallet of 34 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m^3/h)	max. height (m)	max. suction (mm)	max. particles diameter (mm)	outlet Ø	code
Storm CDW 400	400	0,5	1~230	7	5	5 - clear water 25 - waste water	25	1"1/2 M	002250

Includes 3 m rope.

Storm - Drainage clear water pumps

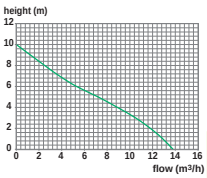


Manual/automatic switch.

Pallet of 34 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m^3/h)	max. height (m)	max. suction (mm)	max. particles diameter (mm)	outlet Ø	code
Storm CW 550	550	0,7	1~230	10	8	1	5	1"1/2 M	002251

Includes 3 m rope.



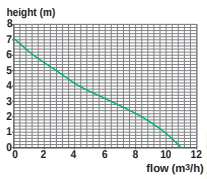
Sensor: adjustable probe with automatic on/off function at the user given water level.

Pallet of 34 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m^3/h)	max. height (m)	max. suction (mm)	max. particles diameter (mm)	outlet Ø	code
Storm CW 750	750	1,0	1~230	13	9	1	5	1"1/2 M	002252

Includes 3 m rope.

Storm - Sewage pumps

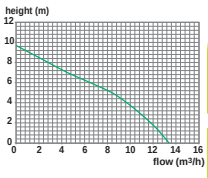


Manual/automatic switch.

Pallet of 34 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m^3/h)	max. height (m)	max. suction (mm)	max. particles diameter (mm)	outlet Ø	code
Storm DW 550	550	0,7	1~230	10	7	6	30	1"1/2 M	002247

Includes 3 m rope.

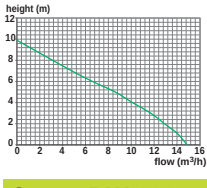


Sensor: adjustable probe with automatic on/off function at the user given water level.

Pallet of 34 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m^3/h)	max. height (m)	max. suction (mm)	max. particles diameter (mm)	outlet Ø	code
Storm DW 750	750	1,0	1~230	12	8	6	30	1"1/2 M	002248

Includes 3 m rope.



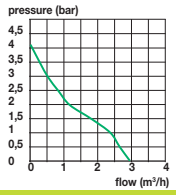
Sensor: adjustable probe with automatic on/off function at the user given water level.

Pallet of 34 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m^3/h)	max. height (m)	max. suction (mm)	max. particles diameter (mm)	outlet Ø	code
Storm DW 900	900	1,2	1~230	15	9,5	6	30	1"1/2 M	002249

Includes 3 m rope.

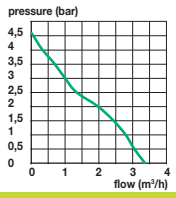
Surface pumps



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	8	002056

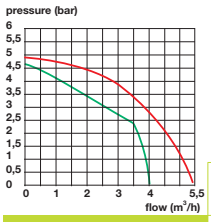
Includes 4 m suction set, check valve, quick fittings F1" & F Ø15, aquastop quick fitting Ø15, 20m watering pipe, water-hose nozzle with quick connection.



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	9	002064

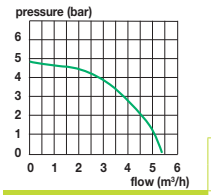
AF 100



AF 130

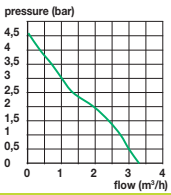
Pallet of 30 pcs

	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	8	002034
AF 130	1300	1,7	1~230	5,5	48	8	002039



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	48	8	002745

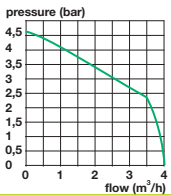


Pallet of 40 pcs

	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	9	002164

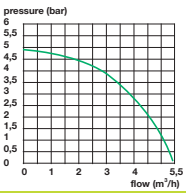
Includes automatic & lack of water protection device & built-in manometer.

Booster sets



BF 100/20: pallet of 18 pcs
BF 100/50: pallet of 8 pcs

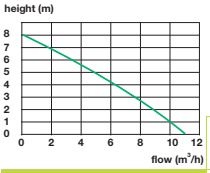
	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction (m)	tank (l)	code
BF 100/20	1000	1,3	1~230	4	45	8	24	002142
BF 100/50	1000	1,3	1~230	4	45	8	50	002155



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	8	24	002186

Sewage pump

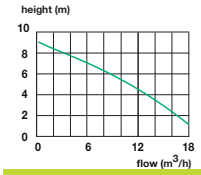


Pallet of 72 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	max. suction level (m)	outlet Ø	code
Inox ECC 190	750	1,0	1~230	11	8	45	1"1/2 F	002227

Passing through Ø 30 mm.

Dirty water pump

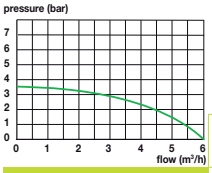


Pallet of 60 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	outlet Ø	code
Inox EV 300	580	0,8	1~230	18	9	1"1/2 F	002244

Passing through Ø 35 mm.

Well pump

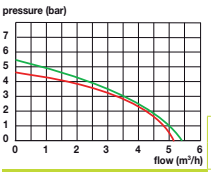


Pallet of 40 pcs

	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	3,1	1~230	6	34	10	157	1"1/4 M	002509

Includes 10 m rope.

Borehole pumps Ø 4"

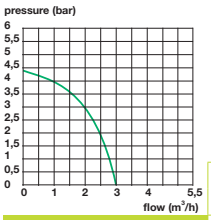


Pallet of 40 pcs

	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	5,4	48	20	1"1/4 F	002306
– **Subinox 7**	900	1,2	1~230	5,5	56	20	1"1/4 F	002307

Includes starting panel, electric cable & 20 m rope.

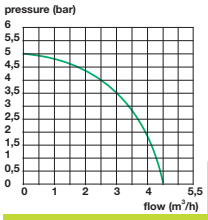
Spid'O Pro - Surface pumps



Pallet of 48 pcs

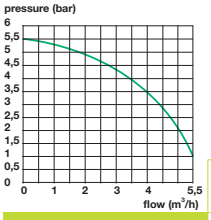
	power supply (W)	(hp)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Jetinox 550 kit	550	0,7	1~230	2,4	2,9	42	9	002051

Includes 4 m suction set with check valve.



Pallet of 50 pcs

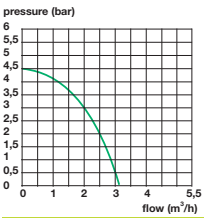
	power supply (W)	(hp)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Jetinox 1200	1200	1,6	1~230	5,2	4,5	50	9	002074



Pallet of 50 pcs

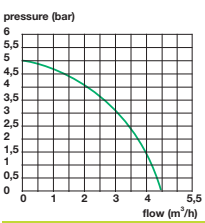
	power supply (W)	(hp)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
Plurinox 1200	1200	1,6	1~230	5,2	6	55	8	002756

Spid'O Pro - Booster sets



Pallet of 18 pcs

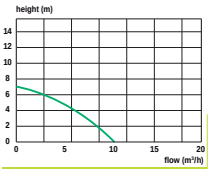
	power supply (W)	(hp)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	max. suction (m)	tank (l)	code
X80/20 Protec	800	1,1	1~230	3,5	3,3	46	9	22	002136



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	9	50	002156

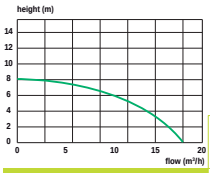
Spid'O Pro - Sewage pumps



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	1"1/4 M	002213

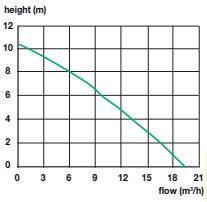
Passing through Ø 25 mm.



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	1"1/2 M	002214

Passing through Ø 30 mm.

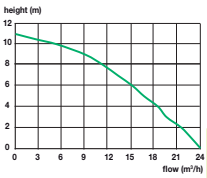


Pallet of 40 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	min. suction level (mm)	outlet Ø	code
Inox ECC Pro 300	1200	1,6	1~230	19,5	10,5	55	1"1/2 M	002253

With Vortex stainless steel impeller - Passing through Ø 40 mm.

Spid'O Pro - Dirty water pump

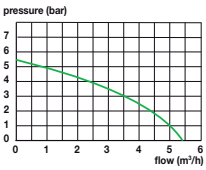


Pallet of 40 pcs

	power supply (W)	(hp)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	min. suction level (mm)	outlet Ø	code
Inox ECC Pro 400	1500	2,0	1~230	24	11	55	2"F	002254

With Vortex stainless steel impeller - Passing through Ø 40 mm.

Spid'O Pro - 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	20	1"F	002518

Includes starting panel & lack of water protection, electric cable & 20 m rope.

Portable engine driven pumps (SP 95)

Pallet of 24 pcs

	power supply (hp)	max. flow (m^3/h)	max. height (m)	max. suction (m)	fuel tank (l)	code
T 414	2,1	10	36	5	1,3	002814

Inlet & outlet M1".

Pallet of 20 pcs

	power supply (hp)	max. flow (m^3/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 (m^3/h)	max. height (m)	max. suction (m)	fuel tank (l)	code
T 435	5,6	25	6	6	3,6	002835

Inlet M1"1/2 & outlet M1"1/2 or M1".

Gas oil transfer pump

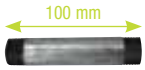
For gas oil, fuel oil & biofuel.

	power supply (W)	power supply (hp)	voltage (V-50Hz)	max. flow (m^3/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.

Manual pumps

	max. flow (m^3/h)	max. height (m)	suction Ø	code
MA 9	0,9 to 1,2	3 to 4	1"	002860



		code
Metal extension	M1"	051160
	M1"1/4	051175

	max. flow (m^3/h)	max. height (m)	suction Ø	code
MA 12	1,2	6 to 7	1"1/4	002875

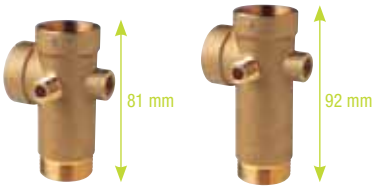
	code
Foot for MA 12	002876

	max. flow (m^3/h)	max. height (m)	suction Ø	code
MA H	1,2 to 1,8	1	1 m steel plunger	002880

Includes 2 m pipe, Ø 20 mm.

Pumps accessories

	Ø	code
3 way fitting	1" FF 1"	BB11-008



	Ø	height (mm)	code
5 way fitting	1" FF 1" - F 1/4" - M 1/4"	81	RP5V
	1" FF 1" - F 1/4" - M 1/4"	92	BB11-007

		code
Pre-filter	For pumps - Sand & solid particles (250 µ) - Brass drainage - Brass 1" inlet x 1" outlet - Easy maintenance.	260065

		length (m)	Ø pipe	Ø	code
Plastic suction set	PVC pipe - Food quality & safety - Includes Plastic check valves & strainer.	4	22	F 1"	003000
		7	22	F 1"	003005

		length (m)	Ø pipe	Ø	code
Brass suction set	PVC pipe - Food quality & safety - Includes brass check valve & stainless steel strainer.	5	22	F 1"	003010
		7	22	F 1"	003020

		length (m)	Ø pipe	Ø	code
Metal suction set	PVC pipe - Food quality & safety - Includes brass fitting & check valve, stainless steel strainer, aluminium socket.	7	25	F 1"	003025
		7	30	F 1"1/4	003030

		length (m)	Ø pipe	Ø	code
Universal drainage set	For all drainage/sewage/dirty water pumps PVC pipe.	5	25	F 1"1/4	002200
		5	32	F 1"1/2	002205

		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 m^3/h - Fittings MM 1".	003190

		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
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

Plastic couplings

blister packaging

2 piece free nut
MF1"

code
261061

Fitting
F1"1/4 - 32/25

code
261071

Fitting
M1" - M3/4"

code
261041

Fitting
F1"1/4 - M3/4" - 38/25

code
261021

Fitting
M1"1/2 w/ gasket - M1"1/4 - 50/40

code
261081

Fitting
F1" w/ gasket - 30/25
F1"1/2 w/ gasket - 24/32/40

code
262091
261171

Check valve
MM1"

code
262461

Check valve
FM1"

code
262561

Nipple
MM1" w/ gasket

code
262061

Nipple
MM1"1/4

code
262071

Nipple
MM1"1/2

code
262081

Reduced nipple
M1" - M1/2"
M1"1/4 - M1"

code
262661
262671

Reduced nipple
M1" - F3/4"
M1"1/4 - F1"
M1"1/2 - F1"1/4

code
261101
261111
261161

3 ways
M1" w/ gasket - F1" - F3/4"

code
261001

Elbow
F1" - M3/4"

code
261011

Elbow
MF1"
MF1"1/2

code
262111
261181

Elbow
F1"1/4 w/ gasket - 30

code
261191

Elbow
M1"1/4 - F1"
M1"1/4 - M1"

code
262101
262171

Elbow
M1"1/4 w/ gasket - 25

code
262151

Elbow
M1"1/4 w/ gasket - 30

code
262161

Elbow
MM1" w/ gasket - M3/4" - 25

code
262141

Elbow
M1"1/2 - F1"1/2 w/ gasket

code
262181

Reduced nipple
F1" - M3/4"
F1"1/4 - M1"
F1"1/2 - M1"
F1"1/2 - M1"1/4

code
261121
261131
261141
261151

Reduced nipple
M1"1/2 - M1"1/4
M2" - M1"1/2

code
262691
262701

Socket
FF3/4"
FF1"
FF1"1/4
FF1"1/2

code
262011
262021
262031
262041

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

PTFE band (sold by 10)
12 m long, 12 mm wide, 0,075 mm thick.

code
262204

9 mm

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

packaging

9 mm

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

12 mm

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

9 mm

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

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

blister packaging

Brass fluted fittings

2 piece hose nozzle w/ 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 w/ captive gasket

Ø	1/2"-13	3/4"-15	3/4"-19	1"-25	1"1/4-30
code	292401	292501	292511	292621	292731

2 piece elbow

Ø	3/4"-15	1"-19
code	290001	290011

Tee

Ø	15	19
code	296001	296011

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

Hose nozzle

Ø	3/4"-20	1"-25	1"1/4-30
code	263151	263161	263171

Nipple

Ø	15	19	25
code	294001	294011	294021

Elbow w / free nut

Ø	1/2"-13 to 15	3/4"-15 to 19
code	290101	290201

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

Compatible with ABS plastic quick fittings (pages 326 & 327).

Coupling

Ø	15	19
code	291101	291111

Coupling w/ 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 w/ 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 w/shut-off valves

F3/4"

code
291431

Spare gaskets

(sold by 10)

code
291009

NEW

ABS plastic quick fittings

blister packaging

High flow automatic fitting
Int. Ø 19 mm

code
295811

Adaptor for nozzle valve
For Ø 15 to 17 mm nozzle

code
295301

Coupling

code
295901

Valve nozzle
F1/2"-3/4"
F3/4"-1"

code
295251
295261

Female coupling
Ø 15 mm
Ø 19 mm

code
295501
295511

Female coupling with aquastop
Ø 15 mm
Ø 19 mm

code
295601
295611

2 way valve nozzle
w/ shut-off valves F1/2"

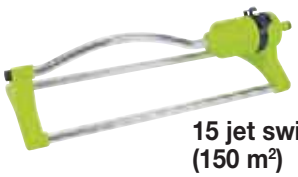
code
295921

3 way selector

code
295211

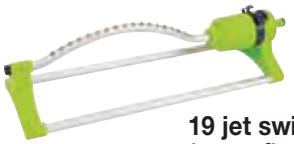
3 way metal selector

code
291441



15 jet swinging sprinkler (150 m²)
Adjustable swing angle

code
298601



19 jet swinging sprinkler (220 m²)
Adjustable swing angle - Brass outlets

code
298611

High flow female adaptor
Int. F1"-1"

code
295271

Male coupling
Int. M3/4"

code
295451

3 way junction

code
295911

Nipple
Ø 15 mm
Ø 19 mm

code
295701
295711

Male compling
M3/4"

code
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

code
295001
295011

Multijet water-hose nozzle

code
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

code
298311
298321

Sprinkler

code
298651

3 jet rotary sprinkler

code
298641

8 position sprinkler

code
298701

3 arm sprinkler

code
298711

Spray gun set
Includes: 1 valve nozzle F1/2"-3/4"
+ 1 quick fitting + 1 aquastop quick fitting

	code
For pipe Ø 15 mm	298351
For pipe Ø 19 mm	298361

POUSS'EO jet
2 jet spray gun

x 2

code
300001

POUSS'EO multi
8 jet spray gun

x 8

code
300011

POUSS'EO ergo
8 jet spray gun

x 8

code
300111

TELESCOP'O
6 jet spray telescopic gun
70 to 105 cm

code
298531

TERRASS'O
Pipe with reel
10 m

code
006611

COMPACT'O
Wall automatic reel

	code
20 m	006021
30 m	006031

Watering pipe - Anti-twist
25 m length - 22 bar - 4 anti-twist layers -
Textile knitted with polyester - 10 years guarantee.

Ø int.	15	20
code	006152	006192

BASIC'O jet
2 jet spray gun

x 2

code
298401

BASIC'O multi
9 jet spray gun

x 9

code
298411

METAL'EO jet
Metal 2 jet spray gun

x 2

code
299001

METAL'EO multi
Metal 8 jet spray gun

x 8

code
299011

MINUT'O
Timer - 0 to 120 mm

code
006041

TEMP'O 12
Programmable timer -
12 pre-set programms
+ solenoid valve
+ 2 AA batteries

code
006051

Wall PVC harness
25 m - Ø 15 pipe

code
006011

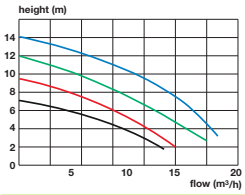
Metal harness
25 m - Ø 15 pipe

code
006111

Watering box
With angle brass ball valve

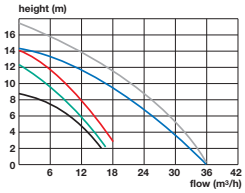
Ø	15	20
male outlet	3/4"	1"
female hose	3/4" + 1/2"	3/4"
code	695015	695020

Drainage pumps



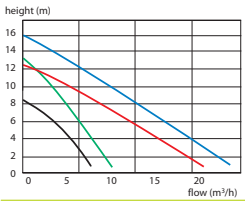
	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m3/h)	max. height (m)	min. suction level (mm)	outlet Ø	code
DR Blue 40 automatic	300	1~230	2,3	10,8	7	77	1"1/4 F	137004
DR Blue 50 automatic	370	1~230	2,8	14,4	9,5	77	1"1/4 F	137005
DR Blue 75 automatic	550	1~230	4,1	14,4	12	77	1"1/4 F	137007
DR Blue 100 automatic	750	1~230	5,6	18	14,2	77	1"1/4 F	137010

Max. particles 7 mm - Includes 10 m cable.



	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m3/h)	max. height (m)	min. suction level (mm)	outlet Ø	code
DR Blue Pro 50 automatic	370	1~230	2,8	14,4	8,7	77	1"1/4 F	137205
DR Blue Pro 75 automatic	550	1~230	4,1	14,4	12,3	77	1"1/4 F	137207
DR Blue Pro 75 T	550	3~400	1,6	14,4	12,3	77	1"1/4 F	137208
DR Blue Pro 100 automatic	750	1~230	5,6	18	14,6	77	1"1/4 F	137210
DR Blue Pro 100 T	750	3~400	2,2	18	14,6	77	1"1/4 F	137211
DR Blue Pro 150 automatic	1100	1~230	7,5	36	14,4	77	2" F	137215
DR Blue Pro 150 T	1100	3~400	3,2	36	14,4	77	2" F	137216
DR Blue Pro 200 automatic	1500	1~230	10	36	17	77	2" F	137218
DR Blue Pro 200 T	1500	3~400	4,3	36	17	77	2" F	137219

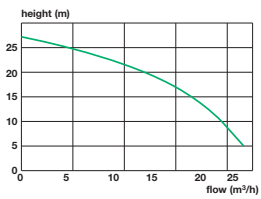
Max. particles 15 mm - Includes 10 m cable.



	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m3/h)	max. height (m)	passing through (mm)	outlet Ø	code
DR Steel 25 M automatic	250	1~230	2,3	7,2	8,5	10	1"1/4 F	137608
DR Steel 37 M automatic	370	1~230	3,1	9	13,6	10	1"1/4 F	137610
DR Steel 55 M automatic	550	1~230	4,3	18,1	12,4	12	1"1/2 F	137612
DR Steel 75 M automatic	750	1~230	5,6	19,9	16	12	1"1/2 F	137614
DR Steel 75 M*	750	1~230	5,6	19,9	16	12	1"1/2 F	137615
DR Steel 75 T	750	3~400	2,4	19,9	16	12	1"1/2 F	137616

Max. particles 10 mm for DR 25 & DR 37, 12 mm for DR 55 & DR 75 - Includes 10 m cable.

* Without level switch.

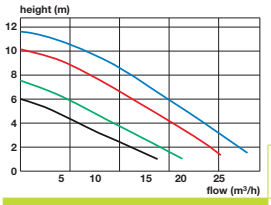


	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m3/h)	max. height (m)	outlet Ø	code
AP Blue Pro 200 automatic	1500	1~230	10	25,2	25,2	1"1/2	137431
AP Blue Pro 200 T	1500	3~400	4,3	25,2	25,2	1"1/2	137435

Max. particles 7 mm - Includes 10 m cable.

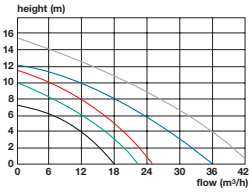
For non automatic pumps: level switches, see page 346

Dirty water pumps



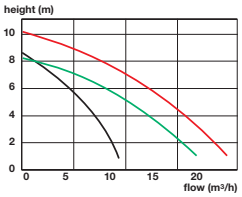
	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m3/h)	max. height (m)	min. suction level (mm)	outlet Ø	code
DG Blue 40 automatic	300	1~230	2,3	14,4	6	122	1"1/2 F	137104
DG Blue 50 automatic	370	1~230	2,8	18	7,6	122	1"1/2 F	137105
DG Blue 75 automatic	550	1~230	4,1	21,6	10,1	122	1"1/2 F	137107
DG Blue 100 automatic	750	1~230	5,6	25,2	11,6	122	1"1/2 F	137110

Passing through Ø 40 mm - Includes 10 m cable.



	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m3/h)	max. height (m)	min. suction level (mm)	outlet Ø	code
DG Blue Pro 50 automatic	370	1~230	2,8	18	7	122	1"1/2 F	137305
DG Blue Pro 75 automatic	550	1~230	4,1	21,6	10,2	122	1"1/2 F	137307
DG Blue Pro 75 T	550	3~400	1,6	21,6	10,2	122	1"1/2 F	137308
DG Blue Pro 100 automatic	750	1~230	5,6	25,2	11,4	122	1"1/2 F	137310
DG Blue Pro 100 T	750	3~400	2,2	25,2	11,4	122	1"1/2 F	137311
DG Blue Pro 150 automatic	1100	1~230	7,5	36	12,3	122	2" F	137315
DG Blue Pro 150 T	1100	3~400	3,2	36	12,3	122	2" F	137316
DG Blue Pro 200 automatic	1500	1~230	10	43,2	15,3	122	2" F	137318
DG Blue Pro 200 T	1500	3~400	4,3	43,2	15,3	122	2" F	137319

Passing through Ø 40 mm - Includes 10 m cable.

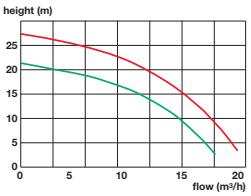


	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m3/h)	max. height (m)	passing through (mm)	outlet Ø	code
DG Steel 25 M automatic*	370	1~230	3,1	10,8	8,7	25	1"1/4 F	137600
DG Steel 55 M automatic	550	1~230	4,3	19,9	8,1	40	1"1/2 F	137602
DG Steel 75 M automatic	750	1~230	5,6	21,7	10	40	1"1/2 F	137604
DG Steel 75 T	750	3~400	2,3	21,7	10	40	1"1/2 F	137606

Passing through Ø 40 mm (except DG 37: Ø 25 mm) - Includes 10 m cable.

* Sewage only.

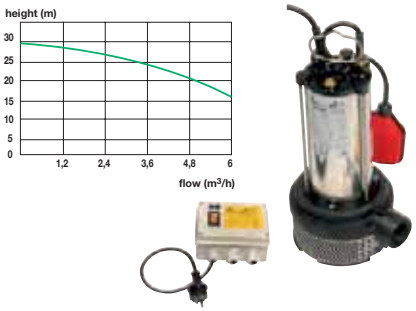
Grinder dirty water pumps



	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.



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	1"1/2 F	132001
Semisom 130 H M*	1100	1~230	7,6	6	30	1"1/2 F	132002
Semisom 130 H T	1100	3~400	2,9	6	30	1"1/2 F	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	1"1/2 F	132038
Horizontal outlet								
Semisom 290 automatic	550	1~230	4,2	12	8	200	1"1/2 F	136039
Semisom 290 M + SP*	550	1~230	4,2	12	8	200	1"1/2 F	136040
Semisom 290 M	550	1~230	4,2	12	8	200	1"1/2 F	136050
Semisom 290 T	550	1~230	1,7	12	8	200	1"1/2 F	136045
Semisom 290 T automatic	550	1~230	1,7	12	8	200	1"1/2 F	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	2" F	136073
Horizontal outlet								
Semisom 490 automatic	1100	1~230	7,3	29	10	200	2" F	136079
Semisom 490 M + SP*	1100	1~230	7,3	29	10	200	2" F	136075
Semisom 490 M	1100	1~230	7,3	29	10	200	2" F	136081
Semisom 490 T	1100	3~400	2,7	29	10	200	2" F	136076
Semisom 490 T automatic	1100	3~400	2,7	29	10	200	2" F	136071
NEW Semisom 590 M auto. + SP*	1500	1~230	10,5	36	13	200	2" F	136101
NEW Semisom 590 M + SP*	1500	1~230	10,5	36	13	200	2" F	136100
NEW Semisom 590 T	1500	3~400	4,1	36	13	200	2" F	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	2" F	132100
Semisom 500/50 T	1100	3~400	3,3	30	9,5	275	2" F	132105
Semisom 800/50 M*	1500	1~230	11,4	30	12	275	2"1/2 F	132110
Semisom 800/50 T	1500	3~400	4	30	12	275	2"1/2 F	132115
Semisom 900/50 M*	1500	1~230	11,4	48	16	275	2"1/2 F	132120
Semisom 900/50 T	1500	3~400	4	48	16	275	2"1/2 F	132125
Semisom 1000/50 T	2200	3~400	5,9	54	19,5	275	2"1/2 F	132135

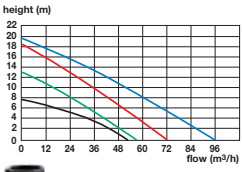
Passing through Ø 50 mm - Includes 10 m cable.

* 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 650 M*	1500	1~230	12	36	8,5	275	2"1/2 F	132082
Semisom 650 T	1500	3~400	4,6	36	8,5	275	2"1/2 F	132075
Semisom 650 T automatic	1500	3~400	4,6	36	8,5	275	2"1/2 F	132076
NEW Semisom 650+ M	1500	1~230	12	36	12,5	275	2"1/2 F	132089
NEW Semisom 650+ T	1500	3~400	4,6	36	12,5	275	2"1/2 F	132086
NEW Semisom 650+ T automatic	1500	3~400	4,6	36	12,5	275	2"1/2 F	132087

Passing through Ø 50 mm - Includes 10 m cable.

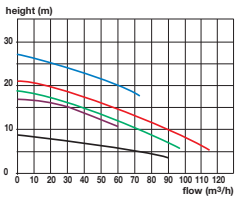
* Includes starting panel.



	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	3" F	132140
– Semisom 754/65 T	1200	3~400	3,3	42	7,3	275	3" F	132145
– Semisom 1100/65 T	2200	3~400	6	48	12	275	3" F	132155
– Semisom 1300/65 T	3400	3~400	8,1	54	17	275	3" F	132165
– Semisom 1500/65 T	3400	3~400	9	78	17,5	275	3" F	132175

Passing through Ø 65 mm - Includes 10 m cable.

* Includes starting panel.

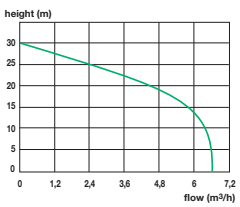


	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	min. suction level (mm)	outlet Ø	code
– Semisom 1504/80 T	2600	3~400	8,1	84	8,7	275	3"	132895
– Semisom 1055/80 T	4100	3~400	9,2	60	16,5	275	3"	132805
– Semisom 1675/80 T	5500	3~400	12	96	18,3	275	3"	132845
– Semisom 2100/80 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 346

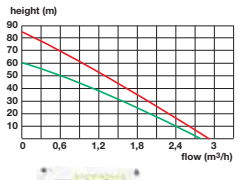


Grinder dirty water pumps

	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	6,5	31	132013
Semisom 125 GR M*	1800	1~230	9,2	6,5	31	132014
Semisom 125 GR T	1500	3~400	2,9	6,5	30	132015

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	1" F	151020
– Turbosom 77 M*	750	1~230	2,4	84	10	136	1" F	151030
– Turbosom 77 T	750	3~400	2,4	85	10	136	1" F	151035

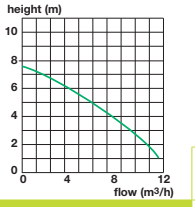
Supplied with 15 m cable and 15 m rope.

	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	1"1/4 F	150603
– SRM 4/100 M*	650	1~230	6	46	30	130	1"1/4 F	150602
– SRM 6/100 automatic*	950	1~230	6	69	30	130	1"1/4 F	150609
– SRM 6/100 M*	950	1~230	6	69	30	130	1"1/4 F	150608
– SRT 6/100 T	950	3~400	6	69	30	130	1"1/4 F	150610
– SRM 7/100 automatic*	1200	1~230	6	80	30	130	1"1/4 F	150612
– SRM 7/100 M*	1200	1~230	6	80	30	130	1"1/4 F	150611
– SRT 7/100 T	1200	3~400	6	80	30	130	1"1/4 F	150613

Supplied with 15 m cable and 15 m rope.

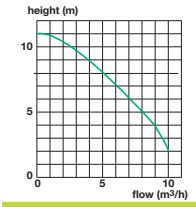
* Includes starting panel.

Drainage pumps



	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	outlet Ø	code
Oma 3	150	1~230	1,6	10	7,5	1"1/4 F	133096

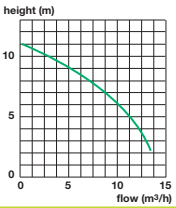
Max. particles 10 mm - Includes 10 m cable.



	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	1" F	133100
LSC E1-4S*	480	1~230	2,9	10	11	1" F	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.

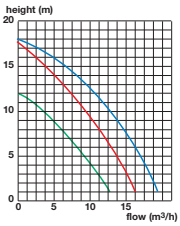


	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	outlet Ø	code
LB-480 A	480	1~230	2,9	13	11	2" M	133107

Max. particles 6 mm.

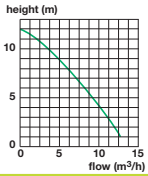
Sandy & muddy water pumps

NEW



	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	2" M	133101
HS2-45 automatic	400	1~230	2,6	11	12	2" M	133104
HS2-75S	750	1~230	4,6	13	18	2" M	133106
HS3-75S	750	1~230	4,6	18	18	3" M	133102

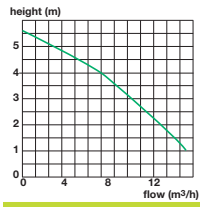
Max. particles 7 mm - Includes 10 m cable.



	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	outlet Ø	code
HS2-4S set	400	1~230	2,6	11	12	2" M	133103

Max. particles 7 mm - Includes HS2-4S pump, 20 m pipe Ø 20 mm & case - Dimension (mm): L 58 x l 28 x H 43.

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	2" F	133097

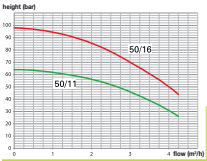
Max. particles 35 mm - Includes 10 m cable.

For non automatic pumps: level switches, see page 346

Borehole pumps Ø 4"

TW SUB 50/11 M & T supplied with 30 m cable & 30 m nylon rope -
TW SUB 50/16 M & T supplied with 40 m cable & 40 m nylon rope - Made in Germany.

CE

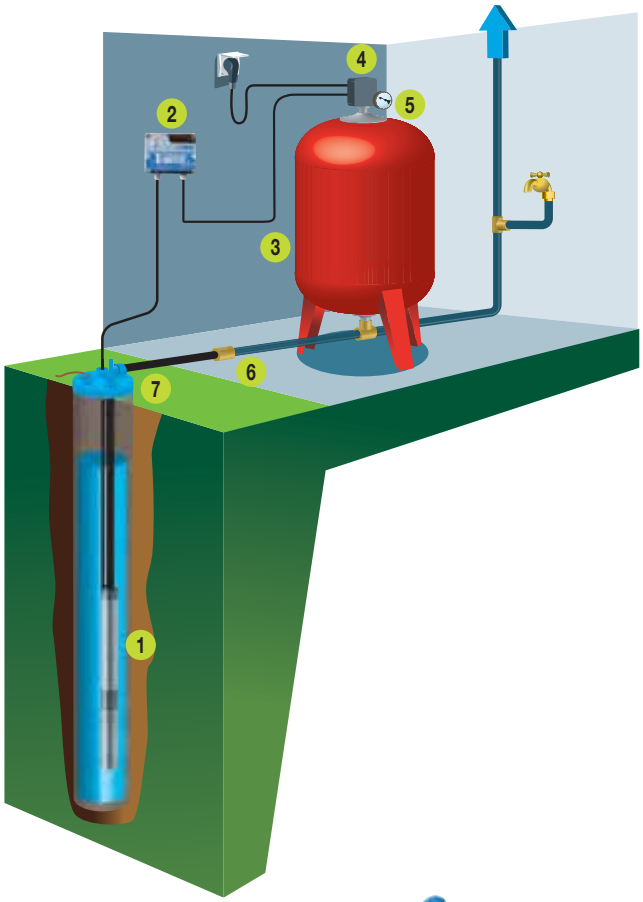


	power supply (W)	voltage (V-50Hz)	max. flow (m³/h)	max. height (m)	outlet Ø	code*	code**
TW SUB 50/11 M	750	1~230	4,8	64	1"1/4 F	151622	151621
TW SUB 50/11 T	750	3~400	4,8	64	1"1/4 F	151628	151627
TW SUB 50/16 M	1100	1~230	4,8	97	1"1/4 F	151632	151631
TW SUB 50/16 T	1100	3~400	4,8	97	1"1/4 F	151638	151637

* Includes starting panel in 1~230 V versions.
** Includes control panel & lack of water protection in 1~230 V & 3~400 V versions.

Set for borehole or well domestic installation

1800 to 3000 l/h flow for 4 to 5 people water use & 1000 m² watering.



30 m maximum depth

Water level	Flow
15 m	1800 l/h at 4 bar - 3000 l/h at 3 bar
20 m	1800 l/h at 3,5 bar - 3000 l/h at 2,5 bar
25 m	1800 l/h at 3 bar - 3000 l/h at 2 bar

	code
1 **Pump 1~230 V (TW SUB 50/11 M)**	151621
2 Includes panel, 30 m cable & 30 m rope	
or	
1 **Pump 3~400 V (TW SUB 50/11 T)**	151627
2 Includes panel 30 m cable & 30 m rope	

+	code
3 **Vertical tank 100 l**	309100
4 **Pressure switch XMP 6 PM**	412506
5 **Manometer 0-6 bar**	413106
6 **Check valve 1"1/4**	305007
7 **Tight cap 1"1/4**	551502

40 m maximum depth

Water level	Flow
25 m	3000 l/h at 4,5 bar - 3500 l/h at 3 bar
30 m	3000 l/h at 4 bar - 3500 l/h at 2,5 bar
40 m	3000 l/h at 3 bar - 3500 l/h at 1,5 bar

	code
1 **Pump 1~230 V (TW SUB 50/16 M)**	151631
2 Includes panel, 40 m cable & 40 m rope	
or	
1 **Pump 3~400 V (TW SUB 50/16 T)**	151637
2 Includes panel 40 m cable & 40 m rope	

+	code
3 **Vertical tank 200 l**	309200
4 **Pressure switch XMP 6 PM**	412506
5 **Manometer 0-6 bar**	413106
6 **Check valve 1"1/4**	305007
7 **Tight cap 1"1/4**	551502

WHIGS TECHNOLOGY

7 **Borehole tight cap**	code
1"1/4 for borehole Ø 90 to 140 mm	551502
NEW 2" for borehole Ø 125 to 175 mm	551503

Includes tight gaskets - Max. pump depth: 120 m - Max. weight: 500 kg.

T-Water® pumps

Borehole pumps accessories

Cooling housing Ø 4" for bottom tank

	length (mm)	code
1 For TW SUB 50/11M, 50/11T & 50/16T	400	454000
2 For TW SUB 50/16M	525	454005JE
3 Strainer & gear clamp		454025
4 Horizontal support set		454020

Suspension wire

Ø		code
4 mm	Stainless steel wire*	550004
	Wire clamp	550010
6 mm	Stainless steel wire*	549999
	Wire clamp	550015

* Price/meter.

NEW

Franklin motors for Ø 4" pumps

F304 stainless steel casing

power supply (W)	1~230 code	3~400 code
250	190012	-
370	190023	190027
550	190032	190037
750	190043	190048
1100	190052	190058
1500	190062	190068
2200	190072	190077
3000	-	190087

Includes 1,5 m cable up to 1500 W, 2,5 m above.

Starting panel for 1~230V

µF	code
12,5	472011
16	472021
20	472031
30	472041
40	472051
50	472063
70	472071

Cable

length (mm)	code
1,5*	431518
1,5**	431519
2,5*	431523
2,5**	431532
5*	431531
15***	431716
30***	431731

* Stainless steel 304 connection.
** Stainless steel 316 connection.
*** Brass connection.

DAB® pumps

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 30/30 T	450	3~400	1,3	3,3	46,0	8	030085
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 304 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.

e.sybox

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 E.sybox connected.

	power supply (W)	voltage (V-50Hz)	hp	amp. (A)	max. flow (m³/h)	max. height (m)	max. suction (m)	code
E.sybox mini	850	1~230	1,1	7	4,2	55	8	209501
E.sybox	1550	1~230	2,1	10	7,2	62	8	209500

For E.sybox & E.sybox mini - Includes float valve, check valve, suction & discharge pipe.

	tank (l)	code
E.sytank	250	450160

	code
E.sydock	450151

	code
E.sywall	450150

	code
Pack E.sytank mini	209523
Pack E.sytank	209522

	code
2 fittings 1"	453089

Drainage pumps

	power supply (W)	voltage (V-50Hz)	max. flow (m^3/h)	max. height (m)	min. suction level (m)	outlet Ø	code
Verty Nova 200	220	1~230	6	6,2	3	1" 1/4 M	131003
Verty Nova 400	400	1~230	10	9	3	1" 1/4 M	131004

Built-in level switch - Max. particles 5 mm - Includes 10 m cable.

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m^3/h)	max. height (m)	min. suction level (m)	outlet Ø	code
Nova 180 automatic	220	1~230	1,1	5	5	77	25 mm	131009
Nova 300 automatic	220	1~230	1,5	9	7,6	85	1"1/4 F	131020

Max. particles 5 mm for Nova 180, 10 mm for Nova 300 - Includes 5 m cable.

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m^3/h)	max. height (m)	min. suction level (m)	outlet Ø	code
Nova-up 300 MAE	210	1~230	1,5	9	7,6	86	1" 1/4 M	131123
Nova-up 600 MAE	520	1~230	3,4	12,9	9,8	150	1" 1/4 M	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 (m^3/h)	max. height (m)	min. suction level (m)	outlet Ø	code
Nova-up 600 automatic	520	1~230	3,4	13	9,8	150	1" 1/4 M	131090

Max. particles 10 mm - Includes 10 m cable - Vertical outlet.

Sewage pump

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m^3/h)	max. height (m)	min. suction level (m)	outlet Ø	code
Feka 600 automatic	550	1~230	4,3	12	7,4	175	1" 1/4 F	131102

Passing through 25 mm - Includes 5 m cable.

Well pumps

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m^3/h)	max. height (m)	min. suction level (m)	pump Ø (mm)	outlet Ø	code
Divertron 1000	550	1~230	3,8	4,2	34	15	150	1" F	152599
Divertron 1000-X*	550	1~230	3,8	4,2	34	15	150	1" F	152600
Divertron 1200	750	1~230	4,8	4,2	43	15	150	1" F	152601
Divertron 1200-X*	750	1~230	4,8	4,2	43	15	150	1" F	152602

Built-in automatic device with lack of water protection & check valve - Includes 15 m cable.

* For connection to rain water collecting tank.

		length (m)	code
Suction set for rainwater collecting tank	Includes strainer basket & floating ball.	1,5	355253
		3	355237
Rope		20	550504

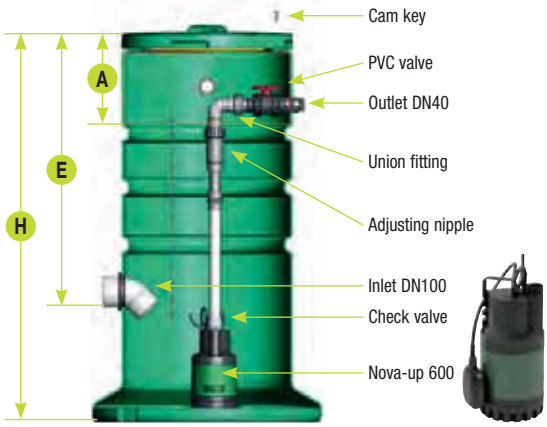
Wastewater lifting stations

According 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 (m^3/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



NEW

Pre-equipped tank*

tank (l)	code
170	457706
210	457708
300	457711
360	457714
480	457718
650	457725

* Without pump.

NEW

Tank

tank (l)	code
170	457006
210	457008
300	457011
360	457014
480	457018
650	457025

		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

		code
Tight connection set	For tight connection up to 5 connectors 1,5 to 6 mm^2.	432106

Complete set for wastewater

Not for sewage & dirty water (toilets, etc...) - 30 l tank - Nova 300 automatic pump, 1~230V-50Hz, max. particles 5 mm - Float valve - Check valve - Dimension (mm): L 408 x l 310 x H 360.

	power supply (W)	voltage (V-50Hz)	max. flow (m^3/h)	max. height (m)	tank (l)	code
Novabox 30/300	220	1~230	9	7,1	30	131450

Sewage & dirty water lifting stations

According to EN 12050-1 - With foot peg and guide bars.

Indoor & outdoor installation

1 pump

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 - Dimension (mm): L 800 x l 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	27	10,5	270	145011

2 pumps

Underground installation 270 l polyethylene tank - 12 screws closing cover - Composite guide bar device - 100 mm PVC inlet, 63 mm PVC outlet, 63 mm PVC aerator, 50 mm PVC wire outlet - Dimension (mm): L 800 x l 640 x H 940 - DR2P control panel for 2 pumps to be mounted at installation - 2 level controls for pumps - 2 SEMISOM 290 pumps, 1~230V-50Hz, with Vortex impeller, 10 m wire, passing through Ø 50 mm - 2 mounted 2" cast iron ball check valves.

	power supply (W)	voltage (V-50Hz)	max. flow (m^3/h)	max. height (m)	tank (l)	code
Bifos DR2P 270 PP/290 M	550	1~230	12	8	270	145020

		height (mm)	code
Extension for DSD & DR2P	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 - Dimension (mm): L 785 x l 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

	height (mm)	code
Extension for Fekafos Enter	200	452991
	400	452992

Accessories

		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/mm - Max. height 8 mm - Includes check valve - Dimension (mm): L 456 x l 178 - 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 restaurant	max. meals/day canteen	flow (l/s)	separator volume (l)	sludge trap volume (l)	dimension (mm)	code
YGO500E	100	220	1	240	100	L 1000 x l 1000 x H 1000	457340
YGO501E	150	330	1,5	510	150	L 1200 x l 1200 x H 1230	457660
YGO502E	200	440	2	490	200	L 1200 x l 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 restaurant	max. meals/day canteen	flow (l/s)	separator volume (l)	sludge trap volume (l)	dimension (mm)	code
HG0502E	209	443	2	480	200	L 1635 x l 770 x H 1090	457350
HG1002E	209	443	2	480	200	L 1635 x l 770 x H 1090	457351
HG0504E	417	886	4	1200	400	L 1635 x l 770 x H 1090	457355
HG1004E	417	886	4	1200	400	L 1635 x l 770 x H 1090	457356

Greases separators - Dishwashing

Restaurants & collective use.

		code
MINIGR	Stainless steel tank - 33/42 inlet & outlet with clamp - Tight stainless steel cover - Drainage with 1" valve & cap - 55 l volume - Max. flow 0,75 l/s - Dimension (mm): L 510 x l 410 x H 415.	456514

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 l 435 x H 450.	456517

		code
Drainage valve	For polyethylene saparator.	658450

Greases tank

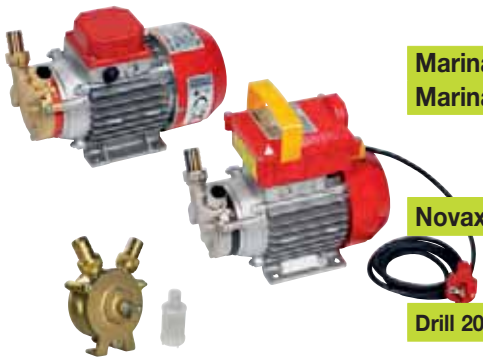
Single family kitchen use - 200 l high density polyethylene tank - 410 mm tight cover - Underground installation - 110 mm connection - Built-in removable trap - Dimension (mm): L 1000 x l 585 x H 715.

		code
GM2 E		456518

Liquid transfer pumps

For clear water, salty water, wine, vinegar, milk.

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	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 (m³/h)	max. height (m)	code
Marina 20 - 12V	350	12V DC	25	27	18	093070
Marina 20 - 24V	350	24V DC	13	27	18	093080

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. height (m)	code
Novax - 20B	340	1~230	1,8	27	20	093058

		code
Drill 20 for drilling machine	With strainer basket.	093100

Oil transfer pumps

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	code
Viscomat 70 M	1	1~230	4,6	1500	090100
Viscomat 70 T	1	3~400	2,2	1500	090105
Viscomat 90 M	1	1~230	6,2	3000	090110
Viscomat 90 T	1	3~400	5	3000	090115

Gas oil transfer pumps

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. pressure (bar)	code
Panther 56 Filter	370	1~230	2,2	3,5	1,7	090012

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. pressure (bar)	code
Panther 72 Filter	500	1~230	4,2	4,8	1,9	090007

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. pressure (bar)	code
Cube 56/33	370	1~230	2,2	50	1,7	090009
Cube 70/33	500	1~230	4,2	70	1,9	090017
Cube 56/33 CFD*	370	1~230	2,2	50	1,7	090019
Cube 70/33 CFD*	500	1~230	4,2	70	1,9	090023

* Includes CFD water absorber filter.

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. pressure (bar)	code
Station ST Panther 56	370	1~230	2,2	50	1,7	090002
Station 56/33 Diesel	370	1~230	2,2	50	1,7	090003

	power supply (W)	voltage (V-50Hz)	amp. (A)	max. flow (m³/h)	max. pressure (bar)	code
Station P56 Filter GO	370	1~230	2,2	50	1,7	090064
Station P72 Filter GO	500	1~230	4,2	70	1,9	090065

	power supply (W)	voltage (V-50Hz)	max. flow (m^3/h)	max. pressure (bar)	code
Carry 3000 12V	260	12V DC	2,4	1,9	090021
Carry 3000 24V	260	24V DC	2,4	1,9	090031

	power supply (W)	voltage (V-50Hz)	max. flow (m^3/h)	max. pressure (bar)	code
Battery set 3000 12V	260	12V DC	2,4	1,9	090041
Battery set 3000 24V	260	24V DC	2,4	1,9	090051

	power supply (W)	voltage (V-50Hz)	max. flow (m^3/h)	max. pressure (bar)	code
Panther 56 DC 12V	370	12V DC	3,5	1,7	090014
Panther 72 DC 24V	500	24V DC	4,8	1,9	090015

	power supply (W)	voltage (V-50Hz)	max. flow (m^3/h)	max. pressure (bar)	code
Piusibox 12V	260	12V DC	2,4	1,9	090060
Piusibox 24V	260	24V DC	2,4	1,9	090061

		code
Litre meter	Precision ± 1% - Fittings Ø 1" F - Max. pressure 3,5 bar.	530010

		code
Gas oil nozzle	Free nut Ø 1" F & hose nozzle Ø 20 mm - Max flow 60 l/mn.	530020

		code
Gas oil nozzle w/ automatic shut-off	Free nut Ø 1" F & hose nozzle Ø 20 mm - Max. flow 60 l/mn - Min. pressure 0.4 bar.	530025

		code
Discharge pipe	Ø 20 mm with welded fittings MM 1". 4 m	530031

		code
Suction pipe	Ø 25 mm with welded fittings MM 1". 1 m	530026
	1,5 m	530027
	2 m	530028

		code
Hose nozzle	M 1" for Ø 20 mm.	453056
	M 1" for Ø 25 mm.	453057

		code
Filter	Ø 3/4" M - 1" F & hose nozzle.	530050

		code
Suction pipe	M 1" - Adjustable length 50 to 90 cm.	530033

		code
Presscontrol	For Panther 56 & 72 - 1~230V (50Hz) - Fitting M 1".	416003
Stainless steel fitting set	Socket MM 1" & elbow 1".	453014

Guarantee 2 Years

Membrane tanks

2 years Guarantee - EC according to PED-97/23 - Pre-set pressure: 2 bar - Temperature: -10°C to +90°C - Food quality & safety membrane.

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

volume (l)	type	max. pressure (bar)	Ø connection M	height (mm)	length (mm)	Ø tank (mm)	code
24	V	10	1"	340		350	301024

volume (l)	type	max. pressure (bar)	Ø connection M	height (mm)	length (mm)	Ø tank (mm)	code
20	V	10	1"	495		250	301020

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

20 l

100 l to 495 l

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

Membranes on request for all types of Varem tanks

Guarantee 5 Years

Diaphragm tanks

5 years guarantee - No maintenance required - EC according to PED-97/23. CE

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		305008JE
18	V	10	1"	370		305018
18	V	16	1"	370		305019
24	V	10	1"	440		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"		440	305020
60	H	10	1"		530	305060
80	H	10	1"		730	305080
100	H	10	1"		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		305059
80	V	10	1"	815		305079
100	V	10	1"	805		305100
150	V	10	1"	820		305150
200*	V	10	1"1/4	1034		306201
240*	V	10	1"1/4	1201		306240
310*	V	10	1"1/4	1488		306310
450*	V	10	1"1/4	1505		306450

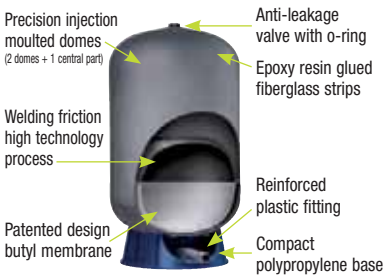
Pre-set: 1,9 bar; except * 2,6 bar.

C2-Lite

Fiberglass tank: leight weight - Max. temperature: 50°C.

volume (l)	type	max. pressure (bar)	Ø connection M	height (mm)	length (mm)	code
60	V	8,6	1"	649	9	318060
100	V	8,6	1"	967	12	318100
130	V	8,6	1"	1227	15	318130
250	V	8,6	1" 1/4	1303	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	5,3	318018
24	V	10	1"	454	6,2	318024

Pre-set: 1,9 bar.

		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

Automatic devices

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
XMP 6 wired bipolar	Same as XMP 6 bipolar, except: wired included.	412501

NEW

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
XMPC 6 PM bi/tripolar	Same as XMP 6 PM, except: **sold by multiple of 20 pcs only.**	412516
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
	Pressure setting: 5 - 50 bar - Differential pressure: 2 - 15 bar.	132004

More informations page 155.

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 and 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°.	15 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°.	15 m 10 m	405005 405010

			code
Tuba Ecolo 1"1/4	Neoprene wire - 12 (4) A 250V - 160 x 36 mm - Differential angle 20°.	15 m 10 m	411815 411820

Accessories & fittings

		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

		code
Connection set 3C	For 3 connectors (1~230V) - IP67.	432102
Connection set 4C	For 4 connectors (3~400V) - IP67.	432104

		length (m)	Ø pipe	Ø	code
Plastic suction set	PVC pipe - Food quality & safety - Includes Plastic check valves & strainer.	4	22	F 1"	003000
		7	22	F 1"	003005

		length (m)	Ø pipe	Ø	code
Brass suction set	PVC pipe - Food quality & safety - Includes brass check valve & stainless steel strainer.	5	22	F 1"	003010
		7	22	F 1"	003020

		length (m)	Ø pipe	Ø	code
Metal suction set	PVC pipe - Food quality & safety - Includes brass fitting & check valve, stainless steel strainer, aluminium socket.	7	25	F 1"	003025
		7	30	F 1"1/4	003030

		length (m)	Ø pipe	Ø	code
Universal drainage set	For all drainage/sewage/dirty water pumps PVC pipe.	5	25	F 1"1/4	002200
		5	32	F 1"1/2	002205

		length (m)	Ø pipe	code
Flat discharge pipe	PVC pipe.	10	25	005110
		10	30	005111
		25	30	005113

		length (m)	code
Flat discharge set	PVC pipe - Ø 50 - 2" camlock fitting - Male or female nipple to be mounted on the pump.	10	454509

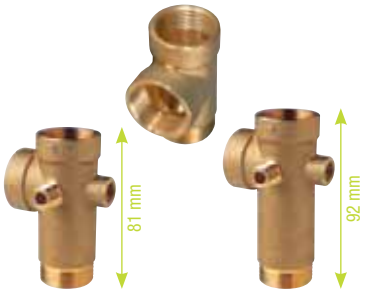
		length (m)	Ø pipe	code
Flat discharge pipe & fittings	PVC pipe - Symmetrical fittings at both ends - Temperature: -10°C to 60°C - Pressure 8 bar at 20°C.	10	50	454510
		15	50	454515
		10	80	454511

		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	1"1/4	Threaded FF - Max. pressure: 10 bar - PVC body & ball - Max. temperature: 60°C.	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

Accessories & fittings



	Ø		code
3 way fitting	1"	FF 1"	BB11-008

	Ø		height (mm)	code
5 way fitting	1"	FF 1" - F 1/4" - M 1/4"	81	RP5V
	1"	FF 1" - F 1/4" - M 1/4"	92	BB11-007

Manometers

T-METER®

Dry - ABS plastic box

Ø 50 - Axial

pressure (bar)	Ø connection	code
0 - 4	1/4"	MA04
0 - 6	1/4"	413006TH
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"	413106
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 - 4	1/2"	M100R06
0 - 10	1/2"	M100R10

Glycerin filled - Stainless steel box

Brass connection - Max. temperature: 60°C - Class 1,6 - Polycarbonate glass.

Ø 50 - Axial

pressure (bar)	Ø connection	code
0 - 2,5	1/4"	413203
0 - 6	1/4"	413206
0 - 10	1/4"	MA10G
0 - 16	1/4"	413216

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 50 - Radial

pressure (bar)	Ø connection	code
0 - 2,5	1/4"	413303
0 - 6	1/4"	413306
0 - 10	1/4"	MR10G
0 - 16	1/4"	413316

Ø 63 - Axial

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

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

NEW

Filtration pumps

KRIPSOL

	power supply (hp)	flow (m³/h)	max. height (m)	1~230 V (50Hz) code	3~400 V (50Hz) code
KS	0,75	11	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

KRIPSOL

	power supply (hp)	flow (m³/h)	max. height (m)	1~230 V (50Hz) code	3~400 V (50Hz) code
KSX Pro	0,5	7,5	14	101002050	-
	0,75	11,5	16	101002070	101002073
	1	15,4	18	101002100	101002103
	1,5	21,5	18	101002150	101002153
	2	25,7	18	101002200	101002203

PENTAIR

	power supply (hp)	flow (m³/h)	max. height (m)	1~230 V (50Hz) code	3~400 V (50Hz) code
Sta-Rite 5P2R Freshwater	0,5	8	18	101025050	101025053
	0,75	12	18,5	101025070	101025073
	1	14	20	101025100	101025103
	1,5	18	22	101025150	101025153
Sta-Rite 5P2R 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

1"1/2 connection.

PENTAIR

	power supply (hp)	flow (m³/h)	1~230 V (50Hz) code
Whisperflo	3	4 to 32	101021999

Speed variation.

Water boosters

DAB WATER•TECHNOLOGY

	power supply (hp)	flow (m³/h)	max. height (m)	1~230 V (50Hz) code	3~400 V (50Hz) code
Jetcom	0,75	3,6	54	103011070	-
	1	3,6	54	103011100	103011103

DAB WATER•TECHNOLOGY

	power supply (hp)	flow (m³/h)	max. height (m)	1~230 V (50Hz) code	3~400 V (50Hz) code
Eurocom	0,75	4,8	54	103012070	103012073
	1	4,8	62	103012100	103012103

Water booster cleaner

PENTAIR

		code
Bluefury Lite	4 venturi jets - Filtration bag - Recommended min. flow: 3,6 m³/h - Recommended waster booster: 1 hp - Supplied with 9,4 m pipe, return valve & flow tester - Max. pool dimensions: 12 m x 7 m.	252021001

Filtration

KRIPSOL

	flow (m³/h)	filter (mm)	Ø valve (mm)	sand capacity (kg)	gravel capacity (kg)	code
Granada	10	500	1"1/2	75	25	151005500
	14	600	1"1/2	100	25	151005600

Polymere tank - Microfusion assembling - Includes valve - Sand, gravel & fittings not included.

KRIPSOL

	flow (m³/h)	filter (mm)	Ø valve (mm)	sand capacity (kg)	gravel capacity (kg)	code
Artik	10,5	520	1"1/2	75	25	151001520
	16	640	1"1/2	100	50	151001640
	18	680	2"	125	50	151001680
	22,5	760	2"	150	75	151001760
	31,5	900	2"	225	100	151001910

Laminated polyester tank - Gelcoat finishing - Includes valve - Sand, gravel & fittings not included.

PENTAIR

	flow (m³/h)	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
	22	760	2"	200	75	151021760
	32	910	2"	300	125	151021910

One-piece fiberglass polyester tank - Includes valve - Sand, gravel & fittings not included.

		code
Aqualoon	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, chemicals resistent, recyclable, non toxic.	159090100

Dosing device

HAYWARD

		code
In line dosing device	4 kg chlorine - ABS - Control valve - Only for pebble products - For max. 95 m³ pool - Dimensions: 206 x 390 mm.	122000

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

NEW

Installation accessories

		code
Skimmer	For concrete & liner pool - White ABS - Supplied with cap - 322 mm wall bushing - 40 mm overflow - 5 to 6 m³/h.	301215070

		code
Level control	Max. inlet pressure 2,5 bar - Ø 3/4" connection to potable water - 275 mm height - 209 mm diameter - 50 mm connection.	301252000

		code
Projector 300 W - 12V	For concrete & liner pool - White ABS - 280 mm diameter - Ø 3/4" connection - 2,5 m cable - 300 W not supplied with cable gland.	301231070
Projector LED 16 W - 1400 LM		301233070
Projector LED 35 W - 1100 LM		301233570

		code
Connection box	For projector - 3 outlets - Supplied with 2 cable glands.	301251000

		code
Discharge device	For concrete & liner pool - White ABS - Supplied with cap - 6 m³/h flow - 100 mm diameter - 50 mm connection.	301241070

		code
Suction point	For concrete & liner pool - White ABS - Supplied with cap - 100 mm diameter - 50 mm connection.	301245070

		code
Wall bushing - Concrete	300 mm length - Usable 250 mm & 175 mm - 110 mm diameter - 50/2" connection.	301253010

		code
Wall bushing - Liner	300 mm length - Usable 250 mm & 175 mm - 118 mm diameter - 50/2" connection.	301253070

		code
Main drain	For concrete & liner pool - White ABS - Ø 12,5 mm grid - 6 m³/h max. flow - 230 mm diameter - 2" connection.	301221070

		code
Nipple	F 50 - M 2".	5523575020
	F 63 - M 2".	5523576320

		code
Spare lamp PAR 56	300 W - 12 V.	309011300

		code
Spare LED PAR 56	White - 6 leds - 16 W - 1100 LM.	309030060
	White - 12 leds - 30 W - 2050 LM.	309040120
	Colour - 12 leds - 28 W - 810 LM.	309040128

NEW

PVC valves & fittings

To be glued.

Elbow 90°

Ø	pack	code
50	60	5523105050

Nipple

Ø	pack	code
50	100	5523405050

Elbow 45°

Ø	pack	code
50	150	5523155050

Reduced nipple

Ø	pack	code
M63/F50	90	5523456350

Tee

Ø	pack	code
50	80	5523305050

Union

Ø	pack	code
50	100	5523605050

Threaded union

Ø	pack	code
1"1/2 - 50	45	5523625015
2" - 50	40	5523625020

Threaded reduced nipple

Ø	pack	code
F40/M50 - 1"1/2	130	5523574015
F50/M63 - 2"	75	5523575020

Ball valve

Ø	pack	code
32	30	5523903200
50	24	5523905000
63	16	5523906300

Ball valve w/ control ball

FIP

Ø	pack	code
32	25	5521913200
50	15	5521915000
63	8	5521916300

Ball check valve

Ø	pack	code
50	24	5523805050
63	16	5523806363

Transparent ball check valve

Ø	pack	code
50	1	5524805000
63	1	5524806300

Maintenance accessories

Depth net — With pickup-debris scraper. code: 601101200

Head liner groom — Supplied with anti-piling valve & lateral brush. code: 601101100

12 wheel head groom — For concrete pool. code: 601101112

Telescopic handle — For above depth net & grooms - 1,4 to 4,2 m - 3 pieces - Compact. code: 601404942

Groom pipe — EVA with PE interior spiral - 9 m - Ø 44 mm ext., Ø 38 mm int. code: 602013809

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.

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 CONDITIONS

4.1. Time limit

Our invoices are dated on the day of shipment. They are payable at 30 days at the end of the month by bank transfer.

4.2. Advanced payment

0,3% by month of advanced payment.

4.3. Penalties for late payment

Should there be any delay in a total or partial payment, our Company reserves the right to apply a penalty for late payment of an amount equivalent to the result of the application of a rate that is three times the legal rate, calculated at monthly rests following a formal warning sent to the purchaser.

All costs of whatever nature, relating to a payment that is late or in default, will be the responsibility of the purchaser.

Any compensation or deductions made unilaterally by the purchaser will be deemed to be late payments and will trigger the application of the sanctions set out above.

5. DELIVERY

5.1. Delivery conditions

See spreadsheet below.

5.2. Transfer of risk

Should goods be collected or delivered 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.

5.3. 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.

5.4. Returns

5.4.1. No return of goods will be accepted if a complaint has not previously been made to us and accepted by us.

5.4.2. 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.

5.4.3. Deduction

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 5.1 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:

Third party insurance after delivery:

- €5,000,000 per year for all types of damage
- €1,500,000 per year for non-consecutive intangible damage.

13. ATTRIBUTION OF JURISDICTION – APPLICABLE LAW

13.1. 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.

13.2. 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.

Country	Free delivery on orders over	Freight charge otherwise	Fixed admin. charge
Andorra	500 €	70 €	50 €
Austria	500 €	70 €	
Belgium	400 €	40 €	
Bosnia & Herzegovina	1 000 €	100 €	50 €
Bulgaria	500 €	100 €	
Croatia	500 €	100 €	
Czech Republic	500 €	70 €	
Denmark	500 €	70 €	
Estonia	500 €	100 €	
Finland	500 €	100 €	
Germany	500 €	70 €	

Country	Free delivery on orders over	Freight charge otherwise	Fixed admin. charge
Greece	500 €	100 €	
Hungary	500 €	70 €	
Ireland	500 €	100 €	
Italy	500 €	70 €	
Latvia	500 €	100 €	
Liechtenstein	500 €	100 €	50 €
Lithuania	500 €	100 €	
Luxembourg	400 €	40 €	
Montenegro	1 000 €	100 €	50 €
Netherlands	400 €	40 €	
Norway	1 000 €	100 €	50 €

Country	Free delivery on orders over	Freight charge otherwise	Fixed admin. charge
Poland	500 €	70 €	
Portugal (peninsula)	500 €	70 €	
Republic of Macedonia	1 000 €	100 €	50 €
Romania	500 €	100 €	
Serbia	1 000 €	100 €	50 €
Slovakia	500 €	70 €	
Slovenia	500 €	70 €	
Spain (peninsula)	400 €	40 €	
Sweden	500 €	100 €	
Switzerland	500 €	100 €	50 €
UK	500 €	70 €	

Pictures and prices are given under typographical reserves of errors. The Company reserves the right to make any modification for improvement.

thermador
international

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Working hours: Monday to Thursday 8h15-11h50 - 13h00-17h00
Friday 8h15-11h50 - 13h00-16h00

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