

SUMMARY



Valves for industry, HVAC & water works

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Technical manual

CE-PED - Pressure Equipment Directive (97/23/EC)

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:

- Equipment with PS < 0,5 bar
- Valves and fittings < DN32 (CE marking prohibited)

DN: Nominal size	PS: Maximum allowable pressure	TS: Maximum/minimum allowable temperature
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2 - Fluid groups

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

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

3 - Risk categories

Risk category IV only applies for safety devices.

3/1 - Dangerous gases (group 1), example: natural gas

Class	PN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
	2,5	A3 § 3															
	6																
	10																
	16																
150																	
	25	A3 § 3															
	40																
300																	
	63																
	100																
600		A3 § 3															
1500																	
2500																	

3/2 - Other gases (group 2), example: air

Class	PN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500
	2,5	A3 § 3																	
	6																		
	10																		
	16																		
150																			
	25	A3 § 3																	
	40																		
300																			
	63																		
	100																		
600		A3 § 3																	
1500																			
2500																			

3/3 - Dangerous liquids (group 1), example : fuel

Class	PN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500
	2,5	A3 § 3																	
	6																		
	10																		
	16																		
150																			
	25	A3 § 3																	
	40																		
300																			
	63																		
	100																		
600		A3 § 3																	
1500																			
2500																			

3/4 - Other liquids (group 2), example: water

Class	PN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500
	2,5	A3 § 3																	
	6																		
	10																		
	16																		
150																			
	25	A3 § 3																	
	40																		
300																			
	63																		
	100																		
600		A3 § 3																	
1500																			
2500																			

Pressure rating

Standard	Temp.	Pressure									
Max. admissible pressure	20°C	20 bar	50 bar	64 bar	69 bar	100 bar	138 bar	150 bar	207 bar	250 bar	420 bar
ISO	20°C	PN20	PN50	PN64	-	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	-	-	-	-
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

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 +350°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	-25°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 (EN 1503-3)

Cast iron

NF A 32-101	EN 1561	DIN 1691	WN°	ASTM	Min. temp.	Max. temp.
FGL 250	EN-GJL 250	GG 25	EN-JL-1040	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	EN-JS1050	A 536 Gr 60-40-18	-15°C	+350°C
FGS 400-15	EN-GJS-400-15	GGG 40	EN-JS1030	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

Bronze (EN 1503-4)

EN 1982	DIN	WN°	ASTM	Min. temp.	Max. temp.
CC 491K	CuSn5Zn5Pb5-C	2.1096	B62 C83600	-10°C	+260°C
CB 491K	CuSn5Zn5Pb5-B	2.1097	B30 C83600	-10°C	+260°C

Working conditions for elastomeres

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/+80°C	Non aromatic hydrocarbons, natural gas, greases, oil, compressed air, glycol, water.	Atmospheric environment, petrol, solvents.
Hypalon	-10°C/+80°C	Mineral acids, oxydizing fluids.	Acetic-based and acetone-based environment.
FKM (Viton®)	-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: please check on data sheets for appropriate restrictions.

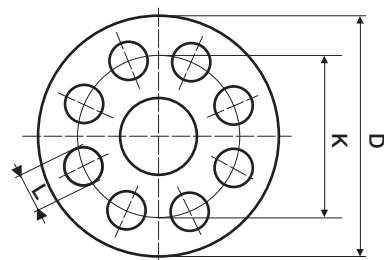
Flanges dimensions (EN 1092-1 & ANSI B16.5)

Dimensions in mm

DN (mm)	ISO PN6					ISO PN10					ISO PN16					ISO PN25				
	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	75	50	11	4	M 10	90	60	14	4	M 12	90	60	14	4	M 12	90	60	14	4	M 12
15	80	55	11	4	M 10	95	65	14	4	M 12	95	65	14	4	M 12	95	65	14	4	M 12
20	90	65	11	4	M 10	105	75	14	4	M 12	105	75	14	4	M 12	105	75	14	4	M 12
25	100	75	11	4	M 10	115	85	14	4	M 12	115	85	14	4	M 12	115	85	14	4	M 12
32	120	90	14	4	M 12	140	100	19	4	M 16	140	100	19	4	M 16	140	100	19	4	M 16
40	130	100	14	4	M 12	150	110	19	4	M 16	150	110	19	4	M 16	150	110	19	4	M 16
50	140	110	14	4	M 12	165	125	19	4	M 16	165	125	19	4	M 16	165	125	19	4	M 16
65	160	130	14	4	M 12	185	145	19	4	M 16	185	145	19	4	M 16	185	145	19	8	M 16
80	190	150	19	4	M 16	200	160	19	8	M 16	200	160	19	8	M 16	200	160	19	8	M 16
100	210	170	19	4	M 16	220	180	19	8	M 16	220	180	19	8	M 16	235	190	23	8	M 20
125	240	200	19	8	M 16	250	210	19	8	M 16	250	210	19	8	M 16	270	220	28	8	M 24
150	265	225	19	8	M 16	285	240	23	8	M 20	285	240	23	8	M 20	300	250	28	8	M 24
200	320	280	19	8	M 16	340	295	23	8	M 20	340	295	23	12	M 20	360	310	28	12	M 24
250	375	335	19	12	M 16	395	350	23	12	M 20	405	355	28	12	M 24	425	370	31	12	M 27
300	440	395	23	12	M 20	445	400	23	12	M 20	460	410	28	12	M 24	485	430	31	16	M 27
350	490	445	23	12	M 20	505	460	23	16	M 20	520	470	28	16	M 24	555	490	34	16	M 30
400	540	495	23	16	M 20	565	515	28	16	M 24	580	525	31	16	M 27	620	550	37	16	M 33
450	595	550	23	16	M 20	615	565	28	20	M 24	640	585	31	20	M 27	670	600	37	20	M 33
500	645	600	23	20	M 20	670	620	28	20	M 24	715	650	34	20	M 30	730	660	37	20	M 33
600	755	705	28	20	M 24	780	725	31	20	M 27	840	770	37	20	M 33	845	770	40	20	M 36
700	860	810	28	24	M 24	895	840	31	24	M 27	910	840	37	24	M 33	960	875	43	24	M 39
800	975	920	31	24	M 27	1015	950	34	24	M 30	1026	950	40	24	M 36	1085	990	49	24	M 45
900	1075	1020	31	24	M 27	1115	1050	34	28	M 30	1125	1050	40	28	M 36	1185	1090	49	28	M 45
1000	1175	1120	31	28	M 27	1230	1160	37	28	M 33	1255	1170	43	28	M 39	1320	1210	56	28	M 52

Dimensions in mm

DN (mm)	ISO PN40					ISO PN20 - ANSI 150					ISO PN50 - ANSI 300				
	Union sizes			Screws		Union sizes			Screws		Union sizes			Screws	
	D	K	L	Number	Ø	D	K	L	Number	Ø	D	K	L	Number	Ø
10	90	60	14	4	M 12										
15	95	65	14	4	M 12	88,9	60,5	15,8	4	M 14	95,3	66,5	15,8	4	M 14
20	105	75	14	4	M 12	98,6	69,9	15,8	4	M 14	117,4	88,6	19,0	4	M 16
25	115	85	14	4	M 12	108,0	79,4	15,8	4	M 14	124,0	88,9	19,0	4	M 16
32	140	100	19	4	M 16	117,0	88,9	15,8	4	M 14	133,0	98,4	19,0	4	M 16
40	150	110	19	4	M 16	127,0	98,4	15,8	4	M 14	156,0	114,3	22,2	4	M 20
50	165	125	19	4	M 16	152,0	120,4	19,0	4	M 16	165,0	127,0	22,2	8	M 20
65	185	145	19	8	M 16	178,0	139,7	19,0	4	M 16	190,0	149,2	22,2	8	M 20
80	200	160	19	8	M 16	190,0	152,4	19,0	4	M 16	210,0	168,3	22,2	8	M 20
100	235	190	23	8	M 20	229,0	190,5	19,0	8	M 16	254,0	200,0	22,2	8	M 20
125	270	220	28	8	M 24	254,0	215,9	22,2	8	M 20	279,0	235,0	22,2	8	M 20
150	300	250	28	8	M 24	279,0	241,3	22,2	8	M 20	318,0	269,9	22,2	12	M 20
200	375	320	31	12	M 27	343,0	298,4	22,2	8	M 20	381,0	330,2	25,4	12	M 24
250	450	385	31	12	M 30	406,0	362,0	25,4	12	M 24	444,0	387,4	28,5	16	M 27
300	515	450	34	16	M 30	483,0	431,8	25,4	12	M 24	521,0	450,8	31,8	16	M 30
350	580	510	37	16	M 33	533,0	476,2	28,5	12	M 27	584,0	514,4	31,8	20	M 30
400	660	585	40	16	M 36	597,0	539,8	28,5	16	M 27	648,0	571,5	35,0	20	M 33
450						635,0	577,8	31,8	16	M 30	711,0	628,6	35,0	24	M 33
500	755	670	43	20	M 39	698,0	635,0	31,8	20	M 30	775,0	685,8	35,0	24	M 33
600	890	795	49	20	M 45	813,0	749,3	35,0	20	M 33	914,0	812,8	41,1	24	M 39



Face to face (EN 558-1 & EN 558-2)

Dimensions in mm

	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
DIN 3202 / F1	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100	1200	1250	1450
DIN 3202 / F2	210	230	230	260	260	300	340	380	430	500	550	650	775	900	1025	1150	1275	1400	1600
DIN 3202 / F4	115	120	125	130	140	150	170	180	190	200	210	230	250	270	290	310	330	350	390
DIN 3202 / F5	-	-	120	140	240	250	270	280	300	325	350	400	450	500	550	600	650	700	800
DIN 3202 / F32	90	95	100	105	115	125	145	155	175	200	225	275	325	375	425	475	500	-	-
DIN 3202 / F33	105	115	115	130	130	150	170	190	215	250	275	325	-	-	-	-	-	-	-
ANSI B16.10 *	108	117	127	140	165	178	190	203	229	254	267	292	330	356	381	406	432	457	508



Valves for industry, HVAC & water works

• Carbon steel & stainless steel ball valves

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VALVES

Valves for HVAC



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Cast iron ball valves,
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PACKAGES

Valves for industry



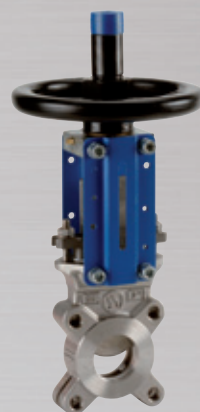
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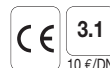
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Carbon steel & stainless steel ball valves



1 piece

97/23/CE directive N° 0035 - Risk category II - PTFE seats - Reduced bore - Locking device - 800 lbs WOG - Max. pressure 40 bar - Max. temperature 180°C.



708 - Stainless steel

CF8M-1.4408 body - 316 ball.

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
price €	5,14	7,26	8,03	11,46	17,37	27,38	35,04	60,18

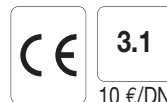
Concerned by article 3 § 3 from 97/23/CE directive - Chrome plated carbon steel ball - POM/PTFE ball seats; NBR other seats - Reduced bore - Max. temperature 100°C.



799 - Galvanized carbon steel A105

Ø	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"
Max. pressure (bar)	500	500	500	315	315	315
code	799002	799003	799004	799005	799006	799007
price €	21,94	23,14	25,76	49,42	59,34	60,96

2 pieces



97/23/CE directive N° 0036 - Risk category II - PTFE seats - Full bore (except: 789 & 709 reduced bore) - Locking device - 1000 lbs - Max. pressure 63 bar - Max. temperature 180°C.

705 - Carbon steel

A216WCB body - 316 ball.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Max. pressure (bar)	63	63	63	63	50	50	40	40	25	25
code	705002	705003	705004	705005	705006	705007	705008	705009	705010	705011
price €	9,57	9,58	9,86	11,82	17,88	25,95	39,68	60,93	127,43	183,49

715 - Stainless steel - Blue handle

CF8M-1.4408 body - 316 ball.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Max. pressure (bar)	63	63	63	63	50	50	40	40	25	25
code	715002	715003	715004	715005	715006	715007	715008	715009	715010	715011
price €	9,63	9,63	10,50	14,01	21,45	31,52	44,21	75,26	143,98	223,20
*red sleeve code	9830370	9830370	9830370	9830371	9830371	9830372	9830372	9830373	9830374	9830374
price €	1,02	1,02	1,02	1,42	1,42	1,60	1,60	1,60	1,70	1,70

* sleeve only; sent not mounted.

706 - Stainless steel - Red handle

CF8M-1.4408 body - 316 ball.

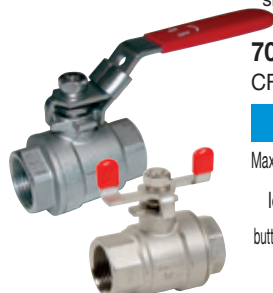
Ø	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Max. pressure (bar)	63	63	63	63	50	50	40	40	25	25
lever code	706002	706003	706004	706005	706006	706007	706008	706009	706010	706011
butterfly handle code	706102	706103	706104	706105	706106	-	-	-	-	-
price €	11,74	13,21	13,20	14,79	22,38	34,43	52,94	85,33	177,49	257,63
*blue sleeve code	9830380	9830380	9830381	9830381	9830382	9830382	9830383	9830383	9830384	9830384
price €	1,02	1,02	1,02	1,02	1,42	1,42	1,60	1,60	1,70	1,70

* sleeve only; sent not mounted; also usable for 705/704/789/709.

733 - Stainless steel - ISO pad

CF8M-1.4408 body - 316 ball.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Max. pressure (bar)	63	63	63	63	50	50	40	40
code	733002	733003	733004	733005	733006	733007	733008	733009
price €	20,86	21,90	21,90	21,90	33,55	50,34	80,47	122,71





704 - Stainless steel - NPT threaded

CF8M-1.4408 body - 316 ball.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Max. pressure (bar)	63	63	63	63	50	50	40	40
code	704002	704003	704004	704005	704006	704007	704008	704009
price €	12,71	14,31	14,30	16,03	24,24	37,30	57,36	92,44



789 - Stainless steel - Male-Female

CF8M-1.4408 body & ball.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Max. pressure (bar)	63	63	63	63	50	50	40	40
code	789002	789003	789004	789005	789006	789007	789008	789009
price €	19,34	19,43	19,44	21,18	32,08	49,83	70,29	115,81



709 - Stainless steel - Male-Male

CF8M-1.4408 body & ball.

Ø	3/8"	1/2"	3/4"	1"
Max. pressure (bar)	63	63	63	50
code	709003	709004	709005	709006
price €	13,60	13,60	18,18	26,96

9831 - Butterfly handle for 705/706/704/789/709



Ø	1/4"	3/8"	1/2" & 3/4"	1"
code	9831131	9831132	9831133	9831134
price €	3,40	3,40	4,05	6,20

NEW 2 pieces - 800 lbs



97/23/CE directive N° 0948 - Full bore - 800 lbs - Max. pressure 138 bar - PTFE + carbon graphite seat - Anti blow-out stem - Antistatic system - Fire safe BS 6755.



717 - Carbon steel - BSP & NPT threaded

A105 carbon steel body - 316 stainless steel ball - Temperature range: -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
price €	56,37	62,60	81,57	83,50	138,90	161,97	271,00	272,00



716 - Stainless steel - BSP & NPT threaded

316 stainless steel body & ball - Temperature range: -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
price €	118,37	134,17	136,00	193,47	268,50	406,07	565,90	844,50



718 - Carbon steel - Butt welding ends schedule 80

A105 carbon steel body - 316 stainless steel ball - Length: 100 mm - Temperature range: -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
code	718008	718010	718015	718020	718025	718032	718040	718050
price €	79,20	79,20	89,97	110,40	154,83	178,67	269,27	337,33



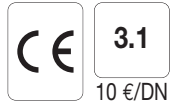
719 - Carbon steel - Butt welding ends schedule 80

316 stainless steel body & ball - Length: 100 mm - Temperature range: -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
code	719008	719010	719015	719020	719025	719032	719040	719050
price €	167,20	167,20	225,87	308,00	453,30	613,07	809,60	1 126,40

Carbon steel & stainless steel ball valves (continued)

3 pieces



10 €/DN

97/23/CE directive N° 0035 - Risk category II - PTFE seats - Full bore - Locking device - Max. pressure 63 bar - Temperature range: -20°C/+180°C.

796 - Carbon steel - BSP threaded

797 - Carbon steel - Butt welding

798 - Carbon steel - Socket welding

A216WCB body - 304 ball.



Ø	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
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
price €	13,10	13,10	15,50	20,90	26,70	44,00	56,50	81,60	164,00	236,00	489,00

790 - Stainless steel - BSP threaded

791 - Stainless steel - Butt welding

792 - Stainless steel - Socket welding

744 - Stainless steel - NPT threaded

CF8M-1.4408 body - 316 ball.



Ø	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
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
price €	15,44	15,44	19,03	24,40	35,54	50,61	75,73	118,41	240,41	366,00	681,76
744 code	744002	744003	744004	744005	744006	744007	744008	744009	-	-	-
price €	16,94	18,18	21,14	29,66	39,74	70,56	77,22	138,00			

Stem extension 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"
Height	125,50	125,50	125,50	127,50
code	9810601	9810602	9810603	9810604
price €	16,60	21,20	24,40	33,80

Blue sleeve



Ø	1/4"-3/4"	1"-1 1/4"	1 1/2"-2"	2 1/2"-3"	4"
*code	9830444	9830445	9830446	9830447	9830448
**code	9830432	9830433	9830434	9830435	9830436
price €	1,02	1,02	1,42	1,60	1,70

* for 796/797/798/790/791/792/744; sent not mounted.

** for 737/738/739/747/748/749; sent not mounted.

3 pieces - ISO pad



10 €/DN 3 €/pc

97/23/CE directive N° 0038 - Risk category III - Stainless steel reinforced PTFE seats - Full bore - ISO direct mounting pad - Locking device - Max. pressure 63 bar - Max. temperature 200°C.

737 - Carbon steel - BSP threaded

738 - Carbon steel - Butt welding

739 - Carbon steel - Socket welding

A216WCB body - CF8M-1.4408 ball.



Ø	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
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
price €	47,80	47,80	47,80	54,00	68,00	92,40	127,60	191,40	335,40	446,00	819,06

747 - Stainless steel - BSP threaded

748 - Stainless steel - Butt welding

749 - Stainless steel - Socket welding

CF8M-1.4408 body & ball.



Ø	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
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
price €	51,36	52,00	54,00	58,00	77,20	99,80	136,00	212,24	415,06	643,04	1 008,90

3 pieces - ISO pad - Fire Safe



10 €/DN 3 €/pc

97/23/CE directive N° 0038 - Risk category III - H module - EN 12516-1 - PTFE seats - ANSI B16-34 - 600 lbs class - Full bore - ISO pad - Locking device - API 607 firesafe - Antistatic system - Temperature range: -20°C/+218°C in carbon steel, -30°C/+218°C in stainless steel - Max. pressure 140 bar up to 3/4", 125 bar for 1", 100 bar above.

702 - Carbon steel - BSP threaded, Butt welding, Socket welding & NPT threaded

A216WCB body - CF8M-1.4408 ball.



Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4"	1"1/2"	2"
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
price €	71,63	71,63	77,20	94,27	124,92	168,30	223,17	461,76

703 - Stainless steel - BSP threaded, Butt welding, Socket welding, NPT threaded

CF8M-1.4408 body & ball.



Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4"	1"1/2"	2"
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
price €	82,40	82,40	88,88	108,63	143,98	194,27	257,24	576,43

Valve & limit switch on request



3 pieces flanged



10 €/DN

97/23/CE directive N° 0036 - Risk category II - Flanged PN40 - PTFE seats - Full bore - DIN 3202 F1 - Locking device - Max. pressure 40 bar - Max. temperature 180°C.

730 - Carbon steel

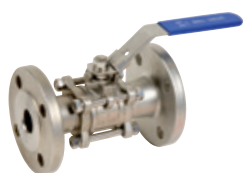
A216WCB body - 304 ball.



DN	15	20	25	32	40	50	65	80	100
Face to face code	730015	730020	730025	730032	730040	730050	730065	730080	730100
price €	39,06	70,14	72,86	114,76	134,18	178,66	322,88	419,42	715,24

731 - Stainless steel

CF8M-1.4408 body & ball.



DN	15	20	25	32	40	50	65	80	100
Face to face code	731015	731020	731025	731032	731040	731050	731065	731080	731100
price €	59,44	92,07	95,65	150,64	176,13	257,93	423,79	596,34	938,75

3 pieces flanged - ISO pad



10 €/DN 3 €/pc

97/23/CE directive N° 0035 - Risk category II - Flanged PN40 - PTFE-stainless steel seats - Full bore - ISO mounting pad - NF 29355 - DIN 3202 F1 - Locking device - Max. pressure 40 bar - Max. temperature 200°C.

710 - Carbon steel

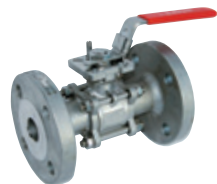
A216WCB body - CF8M-1.4408 ball.



DN	15	20	25	32	40	50	65	80	100
Face to face code	710015	710020	710025	710032	710040	710050	710065	710080	710100
price €	112,27	124,03	152,60	216,77	244,43	381,97	672,07	827,57	1 146,57

711 - Stainless steel

CF8M-1.4408 body & ball.

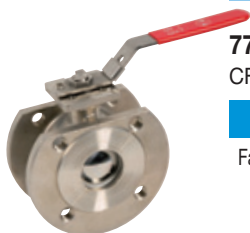


DN	15	20	25	32	40	50	65	80	100
Face to face code	711015	711020	711025	711032	711040	711050	711065	711080	711100
price €	126,37	156,13	168,13	245,47	339,57	451,50	748,77	1 027,53	1 431,30

Wafer - ISO pad



97/23/CE directive N° 0035 - Risk category II - Flanged PN16 - ISO 5211 mounting pad - Full bore - Anti blow-out stem - Glass reinforced seats - PTFE gaskets & gland pack - Max. pressure 16 bar - Max. temperature 180°C.



771 - Stainless steel

CF8M-1.4408 body & ball.

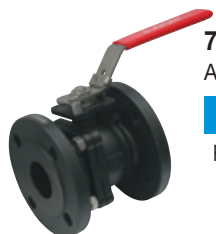
DN	15	20	25	32	40	50	65	80	100	125	150
Face to face	35	39	44	52	64	83	101	118	150	164	182
code	771015	771020	771025	771032	771040	771050	771065	771080	771100	771125	771150
price €	60,00	50,17	64,96	105,77	142,20	188,43	312,93	423,62	629,77	1 736,72	2 183,35

Split body - Standard



97/23/CE directive N° 0035 - Risk category II - PTFE seats - Full bore - ISO 5211 mounting pad - Locking device - Max. pressure 16 bar - Max. temperature 150°C.

Flanged PN16



762 - Carbon steel

A216WCB body - CF8-1.4308 ball - DIN 3202 F4/F5.

DN	15	20	25	32	40	50	65	80	100	125	150	200
Face to face	115	120	125	130	140	150	170	180	190	325	350	400
code	762015	762020	762025	762032	762040	762050	762065	762080	762100	762125	762150	762200
price €	71,57	86,54	113,29	148,80	192,21	249,15	369,23	455,69	620,43	1 197,42	1 556,06	2 821,40

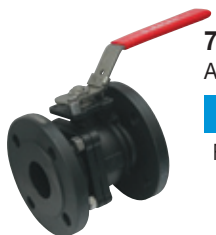


763 - Stainless steel

CF8M-1.4408 body & ball - DIN 3202 F4/F5.

DN	15	20	25	32	40	50	65	80	100	125	150	200
Face to face	115	120	125	130	140	150	170	180	190	325	350	400
code	763015	763020	763025	763032	763040	763050	763065	763080	763100	763125	763150	763200
price €	94,50	112,57	146,64	195,48	247,84	322,58	501,01	601,00	822,29	1 848,00	2 415,00	4 158,00

ANSI 150 - ISO PN20



778 - Carbon steel

A216WCB body - CF8-1.4308 ball - ASME B16.10 - Antistatic system.

DN	15	20	25	32	40	50	65	80	100
Face to face	108	117	127	140	165	178	190	203	229
code	778015	778020	778025	778032	778040	778050	778065	778080	778100
price €	73,06	82,08	109,79	138,48	198,73	277,28	462,98	563,75	883,08



779 - Stainless steel

CF8M-1.4408 body & ball - ASME B16.10 - Antistatic system.

DN	15	20	25	32	40	50	65	80	100
Face to face	108	117	127	140	165	178	190	203	229
code	779015	779020	779025	779032	779040	779050	779065	779080	779100
price €	90,88	103,94	138,61	177,29	252,19	356,97	577,01	707,24	1 150,43

Flanges, see page 37



Valve & limit
switch
on request

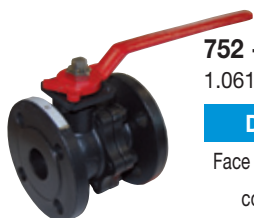


Split body - Reference +



97/23/CE directive N°0062 - Risk category III - H module - Plain PTFE TFM1600 seats - Full bore - ISO 5211 mounting pad - Locking device - Ball with decompression hole - Anti blow-out stem - Antistatic system - Max. pressure 40 bar up to DN50, 16 bar above - Impact tests available.

Flanged PN16



752 - Carbon steel

1.0619 body - CF8M-1.4408 ball - DIN 3202 F4/F5 - Temperature range: -20°C/+250°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
price €	105,97	119,90	161,70	220,92	227,88	266,20	374,18	468,23	771,28	1 279,85	1 718,75	3 554,47

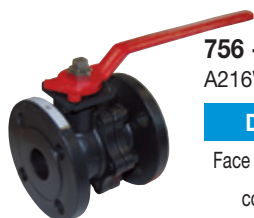


753 - Stainless steel

CF8M-1.4408 body & ball - DIN 3202 F4/F5 - Temperature range: -50°C/+250°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
price €	165,18	200,02	252,27	353,28	419,47	590,15	694,65	938,48	1 447,05	2 446,77	3 505,70	4 301,37

ANSI 150 - ISO PN20



756 - Carbon steel

A216WCB body - CF8M-1.4408 ball - ASME B16.10 - Temperature range: -29°C/+250°C.

DN	15	20	25	40	50	65	80	100	150	200
Face to face	108	117	127	165	178	190	203	229	394	457
code	756015	756020	756025	756040	756050	756065	756080	756100	756150	756200
price €	88,55	95,52	126,87	193,05	252,27	402,05	450,82	694,65	1 610,77	3 370,00

NEW



757 - Stainless steel

CF8M-1.4408 body & ball - ASME B16.10 - Temperature range: -50°C/+250°C.

DN	15	20	25	40	50	65	80	100	150	200
Face to face	108	117	127	165	178	190	203	229	394	457
code	757015	757020	757025	757040	757050	757065	757080	757100	757150	757200
price €	151,25	161,70	213,95	374,18	517,00	719,03	938,48	1 492,33	2 805,55	5 780,00

NEW

NEW

Please consult for availability

ANSI 300 - ISO PN50



768 - Carbon steel

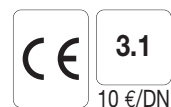
A216WCB body - CF8M-1.4408 ball - ASME B16.10 - Temperature range: -29°C/+250°C.

DN	15	20	25	40	50	80	100	150
Face to face	140	152	165	190	216	283	305	403
code	768015	768020	768025	768040	768050	768080	768100	768150
price €	99,00	116,42	161,70	259,23	318,45	607,57	928,03	2 290,02

Stainless steel
ANSI 300
on request

3 ways

Threaded



10 €/DN

97/23/CE directive N° 0035 - Risk category II - PTFE seats - 4 seats - 3 ways tightness - Reduced bore - Locking device - Threaded ends - ISO mounting pad - Max. pressure 40 bar - Max. temperature 140°C.

780 - Stainless steel - L port

781 - Stainless steel - T port

CF8M-1.4408 body - 316 ball.

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
price €	54,90	54,90	54,90	72,85	104,83	169,15	269,71	325,15



Concerned by 3, § 3 from 97/23/CE directive - POM/PTFE ball seats; NBR other seats - Special for high pressure - Max. temperature 100°C.



721 - Galvanized carbon steel - L port

Ø	1/4"	3/8"	1/2"	3/4"	1"
Max. pressure (bar)	400	400	350	350	350
code	721002	721003	721004	721005	721006
price €	56,04	58,78	63,12	91,92	109,86

Flanged



10 €/DN 3 €/pc

97/23/CE directive N° 0038 - Risk category II - PTFE seats - 4 seats - 3 ways tightness - Full bore - Flanged PN16 - Max. pressure 16 bar - Max. temperature 150°C.

783 - Carbon steel - L port

784 - Carbon steel - T port

A216WCB body - 304 ball.

DN	50	65	80	100	125	150
783 code	783050	783065	783080	783100	783125	783150
784 code	784050	784065	784080	784100	784125	784150
price €	732,00	1 104,00	1 264,00	2 462,00	4 076,00	4 694,00

Valve & limit switch
on request

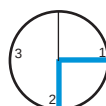
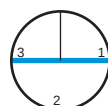
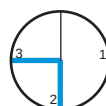
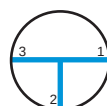
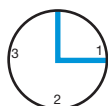
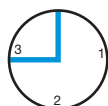
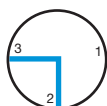
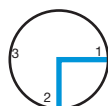


785 - Stainless steel - L port

786 - Stainless steel - T port

CF8M-1.4408 body - 316 ball.

DN	50	65	80	100	125	150
785 code	785050	785065	785080	785100	785125	785150
786 code	786050	786065	786080	786100	786125	786150
price €	1 075,80	1 600,00	1 960,00	3 518,00	5 518,00	7 864,00



T port

L port

ADLER range

3 pieces



97/23/CE directive N° 0038 - Risk category III - H module - 800 lbs WOG - DIN 3202 M3 - Full bore - ISO mounting pad.

712 - Carbon steel - BSP threaded, Butt welding & Socket welding

A216WCB body - 304 ball.



Ø	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Max. pressure (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
price €	93,05	92,00	94,95	104,28	125,23	155,08	214,00	271,85	500,92	686,43	940,92

713 - Stainless steel - BSP threaded, Butt welding & Socket welding

CF8M - 1.4408 body - 316 ball.



Ø	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Max. pressure (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
price €	116,60	116,60	133,10	155,54	197,90	230,26	350,16	425,34	803,00	1 041,34	1 716,66

Wafer



97/23/CE directive N° 0038 - Risk category III - H module - PTFE seats - Full bore - ISO 5211 mounting pad - Flanged PN16 (except * : PN25).

720 - Carbon steel

A105-1.0460 body - 304 ball.



DN	15	20	25	32	40	50	65	65/25	80	100	125	150	200
Face to face	35	35	43	51	64	85	103	103	120	155	182	234	310
code	720015	720020	720025	720032	720040	720050	720065	720066	720080	720100	720125	720150	720200
price €	112,22	117,76	130,30	158,28	214,92	318,16	439,50	440,00	558,46	812,86	1 255,70	2 700,10	5 980,62

770 - Stainless steel

316 body & ball.



DN	15	20	25	32	40	50	65	80	100	125	150	200
Face to face	35	38	43	51	64	85	103	120	155	182	234	310
code	770015	770020	770025	770032	770040	770050	770065	770080	770100	770125	770150	770200
price €	210,25	235,45	277,54	404,37	497,48	758,98	1 104,40	1 848,58	2 886,86	2 240,62	4 433,85	8 607,54

Split body - ANSI



97/23/CE directive N° 0038 - Risk category III - H module - PTFE seats - Full bore - ISO 5211 mounting pad.

766 - Carbon steel - ANSI 150 - ISO PN20

A105-1.0460 body - 304 ball.



DN	15	20	25	40	50	65	80	100
Face to face	108	118,5	126	165	178	190	203	229
code	766015	766020	766025	766040	766050	766065	766080	766100
price €	196,65	227,38	245,72	345,23	466,06	647,69	759,54	1 250,77

**Stainless steel
ANSI 150
on request**

758 - Carbon steel - ANSI 300 - ISO PN50

A105-1.0460 body - 304 ball.



DN	15	20	25	40	50	65	80	100
Face to face	140	151	165	191	216	241	283	305
code	758015	758020	758025	758040	758050	758065	758080	758100
price €	250,46	252,00	319,42	480,62	587,88	828,55	1 051,32	1 831,08

Silicone free / dry clean for ADLER valves

DN	10-50	65-80	100	125	150	200
code	9830150	9830151	9830152	9830153	9830154	9830155
price €	84,67	102,67	124,67	146,67	160,00	214,00

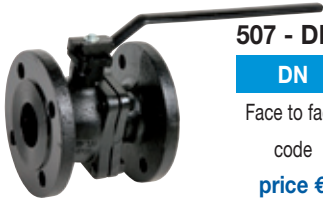
**Heating
jacket
on request**

Cast iron ball valves



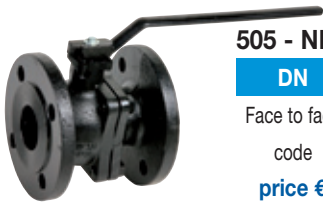
3 €/pc

Cast iron GG25 body - Stainless steel ball - PTFE seat - Flanged PN10/16 - ISO 5211 mounting pad - Full bore - Anti blow-out stem - Max. pressure 16 bar - Max. temperature 200°C.



507 - DIN 3202 F18

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	200	210	400
code	507015	507020	507025	507032	507040	507050	507065	507080	507100	507125	507150	507200
price €	40,44	44,97	51,76	71,50	79,26	95,76	141,71	179,56	243,94	390,14	642,53	934,35



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
price €	84,00	90,91	129,74	162,41	233,59	376,26	628,94

PVC ball valves



Use: for corrosive fluids - Excluded from 97/23/CE directive (article 1, § 3.2) - PVC body & ends - PTFE ball gaskets - FKM O-ring gaskets - Max. ΔP 3 bar - Max. temperature 60°C.



598 - With glued unions

Max. pressure 16 bar up to DN50, 10 bar above.

DN	20	25	32	40	50	63
code	598020	598025	598032	598040	598050	598063
price €	12,25	15,57	19,48	24,15	32,58	42,77

599 - With threaded unions

Max. pressure 16 bar up to 1"1/2, 10 bar above.

Ø	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"
code	599004	599005	599006	599007	599008	599009
price €	12,58	16,15	21,17	24,83	33,45	44,06

Brass ball valves



Products concerned by article 3, § 3 from 97/23/CE directive - PN40/30 - Nickel plated CW617 brass body - PTFE gland pack - Full bore - Anti-blow out stem.



521 - NPT threaded

Ø	1/4"	3/8"	1/2"	3/4"	1"
lever code	521002	521003	521004	521005	521006
butterfly handle code	521012	521013	521014	521015	521016
price €	5,90	6,10	9,42	13,50	20,16

For oxygen - PN10 - Sold with caps.

520 - Dry cleaned - White lever

561 - Dry cleaned - White butterfly handle

Ø	1/4"	3/8"	1/2"	3/4"	1"
520 code	520002	520003	520004	520005	520006
561 code	561002	561003	561004	561005	561006
price €	5,74	6,30	9,74	13,16	21,46



552 - Stainless steel handle

Nickel plated body - Brushed interior - Temperature range: -10°C/+120°C.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
Max. pressure (bar)	25	25	25	25	25	20	20	16	10	10
code	552002	552003	552004	552005	552006	552007	552008	552009	552010	552011
price €	4,57	5,00	5,80	8,23	13,97	19,67	21,37	34,83	88,33	112,87



Drinking water

Butterfly valves



Standard

97/23/CE - CE 0035 (H) - Gear box recommended for DN200 to 300; some types supplied with gear box - Working temperature with EPDM seat: 110°C (temporarily 130°C) - Max. pressure 16 bar up to DN300, 10 bar above.

■ Wafer - Flanged PN10/16 - ANSI 150 (up to DN600)



1125 - Body GG25 / Disc GGG40 / Seat EPDM



DN	32-40	50	65	80	100	125	150	200	250	300
Max. pressure (bar)	16	16	16	16	16	16	16	16	16	16
without gear box code	1125040	1125050	1125065	1125080	1125100	1125125	1125150	1125200	1125250	1125300
price €	28,21	30,28	34,30	38,32	48,68	64,46	76,61	120,69	203,12	259,84

DN	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
Max. pressure (bar)	16	16	16	16	16	16	10	10	10	10	10	10	10	10	10
with gear box code	1125102	1125127	1125152	1125202	1125252	1125302	1125350	1125400	1125450	1125500	1125600	1125700	1125800	1125900	1125990
price €	115,43	134,42	149,05	228,87	328,09	417,27	513,79	797,39	1 009,95	1 725,04	2 387,42	4 508,00	5 151,99	7 900,72	9 777,45

NEW



1123 - Body GG25 / Disc SS316 / Seat EPDM



DN	32-40	50	65	80	100	125	150	200	250	300
Max. pressure (bar)	16	16	16	16	16	16	16	16	16	16
without gear box code	1123040	1123050	1123065	1123080	1123100	1123125	1123150	1123200	1123250	1123300
price €	30,71	34,22	40,88	46,65	67,12	89,92	116,24	195,65	350,47	496,91

DN	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
Max. pressure (bar)	16	16	16	16	16	16	10	10	10	10	10	10	10	10	10
with gear box code	1123102	1123127	1123152	1123202	1123252	1123302	1123350	1123400	1123450	1123500	1123600	1123700	1123800	1123900	1123990
price €	133,25	160,70	192,38	312,67	499,03	694,59	786,36	1 248,68	1 637,61	2 485,52	3 655,38	7 515,47	8 871,34	12 653,25	17 573,96

NEW



1121 - Body GG25 / Disc SS316 / Seat NBR - Max. temperature 80°C.



DN	32-40	50	65	80	100	125	150	200	250	300
Max. pressure (bar)	16	16	16	16	16	16	16	16	16	16
without gear box code	1121040	1121050	1121065	1121080	1121100	1121125	1121150	1121200	1121250	1121300
price €	33,26	37,07	44,29	50,54	72,71	97,42	125,93	211,95	379,67	538,32

1198 - Gear box (only for butterfly valves 1125, 1123, 1121, 1135 & 1133)

DN	40-50-65-80	100	125-150	200	250	300
code	1198001	1198002	1198003	1198004	1198005	1198006
price €	47,22	47,22	47,22	69,45	69,45	86,82

PTFE gaskets for a good tightness.

The stem comes through the disc for a perfect rigidity.

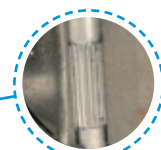
Vulcanized seat on insert to resist to hammer chock and vacuum.



Epoxy paint



Epoxy painted, aluminium and locking handle with 10 positions notched pad.



Disc hold by strias eliminating all mechanical moves.

Butterfly valves (continued)

Lug - Flanged PN10/16



1135 - Body **GG25** / Disc **GGG40** / Seat **EPDM**



DN	40	50	65	80	100	125	150	200	200*	250	250*	300	300*
Max. pressure (bar)	16	16	16	16	16	16	16	16	16	16	16	16	16
without gear box code	1135040	1135050	1135065	1135080	1135100	1135125	1135150	1135200	1135201	1135250	1135251	1135300	1135301
price €	32,50	34,87	39,51	44,12	56,10	75,27	89,73	141,49	141,50	239,37	239,38	307,11	307,10
with gear box code	-	-	-	-	1135102	1135127	1135152	1135202	1135203	1135252	1135253	1135302	1135303
price €	-	-	-	-	105,64	125,96	141,28	217,90	217,90	321,63	321,63	410,41	410,41

* Flanged PN16.

Gear box, see page 19

1133 - Body **GG25** / Disc **SS316** / Seat **EPDM**



DN	40	50	65	80	100	125	150	200	200*	250	250*	300	300*
Max. pressure (bar)	16	16	16	16	16	16	16	16	16	16	16	16	16
without gear box code	1133040	1133050	1133065	1133080	1133100	1133125	1133150	1133200	1133201	1133250	1133251	1133300	1133301
price €	41,87	46,82	55,65	63,63	86,83	116,47	150,26	254,81	254,80	460,55	460,55	599,40	599,40
with gear box code	-	-	-	-	1133102	1133127	1133152	1133202	1133203	1133252	1133253	1133302	1133303
price €	-	-	-	-	148,00	176,00	214,00	346,00	346,00	564,00	564,00	740,00	740,00

* Flanged PN16.



Reference +

97/23/CE directive - CE 0409 Risk category III - B & C modules for: 1150/1151/1152/1153/1154/1157 & 1160/1163 - Gear box recommended above DN200; to be ordered in addition to the valve; some types supplied with gear box - Supplied bare shaft above DN300 - Max. temperature with EPDM seat: 110°C - Max. pressure 16 bar up to DN200 or DN300, 10 bar above.

Lug - Flanged PN10/16



1160 - Body **GGG50** / Disc **SS316** or **GGG50** / Seat **EPDM**



Disc **SS316** up to DN100, **GGG50** above.

DN	32	40	50	65	80	100	125	150	200	250	300	350	400
Max. pressure (bar)	16	16	16	16	16	16	16	16	16	16	16	10	10
without gear box code	1160032	1160040	1160050	1160065	1160080	1160100	1160125	1160150	1160200	1160250	1160300	1160350	1160400
price €	86,89	87,91	88,00	100,86	114,12	127,88	160,68	184,55	347,17	540,00	704,00	881,29	1 149,11
with gear box code	-	-	-	-	-	-	-	-	-	-	-	1160352	1160402
price €	-	-	-	-	-	-	-	-	-	-	-	988,00	1 242,00

1163 - Body **GGG50** / Disc **SS316** / Seat **EPDM**



DN	40	50	65	80	100	125	150	200	200*	250	250*	300	300*	350	400
Max. pressure (bar)	16	16	16	16	16	16	16	16	16	16	16	16	16	10	10
code	1163040	1163050	1163065	1163080	1163100	1163125	1163150	1163200	1163201	1163250	1163251	1163300	1163301	1163350	1163400
price €	97,14	101,72	109,05	138,92	161,63	196,31	244,74	453,14	453,14	675,35	675,36	969,69	969,70	1 284,68	1 801,23

* Flanged PN16.



1162 - Body **GGG50** / Disc **SS316** or **GGG50** / Seat **NBR**



Disc **SS316** up to DN100, **GGG50** above.

DN	40	50	65	80	100	125	150	200
Max. pressure (bar)	16	16	16	16	16	16	16	16
code	1162040	1162050	1162065	1162080	1162100	1162125	1162150	1162200
price €	88,68	92,06	104,92	119,14	132,83	166,06	187,82	352,65

1181 - For gas - Body **GGG50** / Disc **SS316** or **GGG50** / Seat **NBR**



Disc **SS316** up to DN100, **GGG50** above - Class: MOP5.

DN	40	50	65	80	100	125	150	200
Max. pressure (bar)	5	5	5	5	5	5	5	5
code	1181040	1181050	1181065	1181080	1181100	1181125	1181150	1181200
price €	103,20	104,00	107,85	128,22	147,17	180,71	214,58	405,29



Valve & limit switch on request



■ Wafer - Flanged PN10/16 - ANSI 150 (up to DN400)



1150 - Body GGG50 / Disc SS316 or GGG50 / Seat EPDM
Disc **SS316** up to DN100, **GGG50** above.



DN	32-40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
Max. pressure (bar)	16	16	16	16	16	16	16	16	16	16	10	10	10	10	10
without gear box code	1150040	1150050	1150065	1150080	1150100	1150125	1150150	1150200	1150250	1150300	1150350	1150400	1150450	1150500	1150600
price €	76,09	76,25	87,32	99,32	111,02	140,03	160,00	230,09	377,26	554,58	732,43	904,65	2 863,08	3 404,03	5 480,92
with gear box code	-	-	-	-	-	-	-	-	-	-	1150352	1150402	1150452	1150502	1150602
price €	-	-	-	-	-	-	-	-	-	-	830,97	1 015,14	3 004,00	3 564,35	5 760,00

NEW



1153 - Body GGG50 / Disc SS316 / Seat EPDM



DN	32-40	50	65	80	100	125	150	200	250	300	350	400	450	500
Max. pressure (bar)	16	16	16	16	16	16	16	16	16	16	10	10	10	10
without gear box code	1153040	1153050	1153065	1153080	1153100	1153125	1153150	1153200	1153250	1153300	1153350	1153400	1153450	1153500
price €	90,18	90,20	100,15	123,17	148,34	183,63	224,06	340,58	550,00	836,09	1 149,05	1 617,32	4 187,78	4 636,12
with gear box code	-	-	-	-	-	-	-	-	-	-	1153352	1153402	1153452	1153502
price €	-	-	-	-	-	-	-	-	-	-	1 222,35	1 707,86	4 320,00	4 885,04

NEW



1152 - Body GGG50 / Disc SS316 or GGG50 / Seat NBR
Disc **SS316** up to DN100, **GGG50** above.



DN	32-40	50	65	80	100	125	150	200	250	300	350	400	450	500
Max. pressure (bar)	16	16	16	16	16	16	16	16	16	16	10	10	10	10
without gear box code	1152040	1152050	1152065	1152080	1152100	1152125	1152150	1152200	1152250	1152300	1152350	1152400	1152450	1152500
price €	79,82	80,62	91,23	103,72	115,66	144,37	164,37	243,17	388,74	575,78	797,82	1 067,97	3 553,60	4 410,09
with gear box code	-	-	-	-	-	-	-	-	-	-	1152352	1152402	1152412	1152502
price €	-	-	-	-	-	-	-	-	-	-	921,89	1 146,07	3 720,00	4 640,00

NEW



1151 - Body GGG50 / Disc SS316 / Seat NBR



DN	32-40	50	65	80	100	125	150	200	250	300
Max. pressure (bar)	16	16	16	16	16	16	16	16	16	16
code	1151040	1151050	1151065	1151080	1151100	1151125	1151150	1151200	1151250	1151300
price €	91,45	91,85	102,31	128,80	123,69	183,82	228,18	357,38	556,89	849,14



1157 - Body GGG50 / Disc SS316 / Seat Silicone



DN	32-40	50	65	80	100	125	150	200
Max. pressure (bar)	16	16	16	16	16	16	16	16
code	1157040	1157050	1157065	1157080	1157100	1157125	1157150	1157200
price €	129,82	135,17	154,80	185,45	213,20	266,00	324,58	467,48



1154 - Body GGG50 / Disc SS316 / Seat FKM (Viton®)



DN	32-40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
Max. pressure (bar)	16	16	16	16	16	16	16	16	16	16	10	10	10	10	10
without gear box code	1154040	1154050	1154065	1154080	1154100	1154125	1154150	1154200	1154250	1154300	1154350	1154400	1154450	1154500	1154600
price €	176,40	185,23	204,00	232,89	273,72	386,25	510,18	747,45	1 379,94	1 641,75	2 100,00	3 447,02	7 100,00	8 758,77	13 754,00
with gear box code	-	-	-	-	-	-	-	-	-	-	1154352	1154402	-	-	-
price €	-	-	-	-	-	-	-	-	-	-	2 762,00	3 530,00	-	-	-

NEW



NEW

1145 - Body GGG50 / Disc SS316 / Seat PTFE



DN	32-40	50	65	80	100	125	150	200	250*	300*
Max. pressure (bar)	16	16	16	16	16	16	16	10	10	10
code	1145040	1145050	1145065	1145080	1145100	1145125	1145150	1145200	1145250	1145300
price €	289,24	319,72	389,78	454,49	596,92	786,91	930,66	1 256,77	1 947,66	2 575,13

*Includes gear box.

Butterfly valves (continued)



NEW

1147 - Body GGG50 / Disc SS316 or GGG50 / Seat Nitrile carboxyl

Disc **SS316** up to DN100, **GGG50** above.



DN	32-40	50	65	80	100	125	150	200	250	300
Max. pressure (bar)	16	16	16	16	16	16	16	16	16	16
code	1147040	1147050	1147065	1147080	1147100	1147125	1147150	1147200	1147250	1147300
price €	94,69	94,69	108,15	117,95	136,21	167,29	199,41	313,66	491,54	718,87



NEW

1146 - Body GGG50 / Disc Uranus B6 / Seat Hypalon®



DN	32-40	50	65	80	100	125	150	200	250	300
Max. pressure (bar)	16	16	16	16	16	16	16	16	10	10
code	1146040	1146050	1146065	1146080	1146100	1146125	1146150	1146200	1146250	1146300
price €	124,11	124,11	144,32	177,38	217,11	354,77	430,92	726,38	1 488,58	2 348,28



1155 - Body GGG50 / Disc CF8M + PTFE / Seat PTFE



DN	32-40	50	65	80	100	125	150	200	250*	300*
Max. pressure (bar)	16	16	16	16	16	16	16	10	10	10
code	1155040	1155050	1155065	1155080	1155100	1155125	1155150	1155200	1155250	1155300
price €	820,00	825,84	852,92	866,46	1 045,84	1 238,00	1 411,38	1 864,92	2 937,74	3 960,49

*Includes gear box.



NF

1141 - For gas - Body GGG50 / Disc SS316 or GGG50 / Seat NBR

Disc **SS316** up to DN100, **GGG50** above - Class: MOP5.



DN	32-40	50	65	80	100	125	150	200
Max. pressure (bar)	5	5	5	5	5	5	5	5
code	1141040	1141050	1141065	1141080	1141100	1141125	1141150	1141200
price €	87,17	90,80	102,65	115,32	129,97	159,94	190,00	288,58



1144 - For fire network - Body GGG50 / Disc CF8M or GGG50 / Seat EPDM

Disc **CF8M** up to DN100, **GGG50** above - All diameters supplied with gearbox.



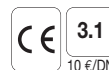
DN	50	65	80	100	125	150	200	250	300
Max. pressure (bar)	16	16	16	16	16	16	16	16	16
code	1144050	1144065	1144080	1144100	1144125	1144150	1144200	1144250	1144300
price €	432,89	444,80	457,26	469,78	616,68	638,71	967,72	1 126,25	1 628,55



Smoke.
Uncomplete
tightness

1111 - Body Carbon steel / Disc SS316 or GGG50 - Disc SS316 up to DN100, GGG50 above.

1112 - Body SS316 / Disc SS316



DN	32-40	50	65	80	100	125	150	200
1111 code	1111040	1111050	1111065	1111080	1111100	1111125	1111150	1111200
price €	143,02	143,30	165,48	190,22	220,10	263,48	341,48	496,14
1112 code	1112040	1112050	1112065	1112080	1112100	1112125	1112150	1112200
price €	329,90	451,06	490,98	541,20	665,68	833,34	979,08	1 484,32

Uncomplete tightness;
loss factor: 1,5 to 2%
of Kvs.

1195 - Cast iron sleeve - NF 29323

DN	40	50	65	80	100	125	150	200
Length	103	99	108	114	120	130	144	168
NF total length	136	142	154	160	172	186	200	228
code	1195040	1195050	1195065	1195080	1195100	1195125	1195150	1195200
price €	30,32	36,96	48,71	58,75	71,25	99,25	136,43	157,18

1196 - Cast iron sleeve - DIN 3202 F18

DN	40	50	65	80	100	125	150	200
Length	107	107	124	134	138	144	154	170
DIN total length	140	150	170	180	190	200	210	230
code	1196040	1196050	1196065	1196080	1196100	1196125	1196150	1196200
price €	45,64	52,46	61,06	68,46	87,48	124,72	147,94	173,18

1197 - Gear box with position indicator for "Reference +" (only for "Reference +" butterfly valves, pages 20 to 22)

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
price €	76,08	76,08	76,08	76,08	76,08	138,44	138,44	220,00	240,00	380,00	440,00	580,00

Other types & diameters
on request



Double eccentric construction



Bi-directional use - Supplied with gear box above DN150 - Temperature range: -20°C/+210°C.

Wafer - Flanged PN25

1113 - Body **A216WCB** / Disc **CF8M** / Seat **PTFE-Graphite**

DN	50	65	80	100	125	150	200	250	300	350
Max. pressure (bar)	25	25	25	25	25	25	25	25	25	25
code	1113050	1113065	1113080	1113100	1113125	1113150	1113200	1113250	1113300	1113350
price €	469,27	478,45	599,29	682,81	862,19	962,94	1 702,86	2 280,34	3 102,35	4 416,59

1114 - Body **CF8M** / Disc **CF8M** / Seat **PTFE-Graphite**

DN	50	65	80	100	125	150	200	250	300	350
Max. pressure (bar)	25	25	25	25	25	25	25	25	25	25
code	1114050	1114065	1114080	1114100	1114125	1114150	1114200	1114250	1114300	1114350
price €	551,02	613,56	828,28	970,98	1 228,75	1 370,36	2 327,26	3 142,82	4 344,76	6 199,53

Wafer - ANSI 150 - ISO PN20

1115 - Body **A216WCB** / Disc **CF8M** / Seat **PTFE-Graphite**

DN	50	65	80	100	125	150	200	250	300	350
Max. pressure (bar)	25	25	25	25	25	25	25	25	25	25
code	1115050	1115065	1115080	1115100	1115125	1115150	1115200	1115250	1115300	1115350
price €	469,27	478,45	599,29	682,81	862,19	962,94	1 702,86	2 280,34	3 102,35	4 416,59

Stainless steel wafer ANSI 150 on request

1193 - Gear box with position indicator (only for butterfly valves 1113, 1114 & 1115)

DN	50-65	80	100	125-150
code	1193001	1193002	1193003	1193004
price €	56,00	56,00	94,00	99,80

Needle valves

For compatible common fluids of group 2 -
Concerned by article 3, § 3 from 97/23/CE directive.



482 - Bronze

Brass hat - Max. pressure 25 bar -
Max. temperature 180°C.

Ø	1/4"	3/8"	1/2"	3/4"
code	482002	482003	482004	482005
price €	24,46	25,88	29,17	42,74

High pressure



481 - Stainless steel - BSP

487 - Stainless steel - NPT

Max. pressure 400 bar -
Temperature range: -20°C/+180°C.

Ø	1/4"	3/8"	1/2"	3/4"
481 code	481002	481003	481004	481005
487 code	487002	487003	487004	487005
price €	37,20	42,07	53,16	83,60

484 - A105/F6 forged steel - NPT threaded

483 - A105/F6 forged steel - BSP threaded

486 - A105/F6 forged steel - Socket welding

Graphite gland pack - 3000 psi - Max. pressure 200 bar - Max. temperature 250°C.



Ø	1/4"	3/8"	1/2"	3/4"	1"
484 code	484002	484003	484004	484005	484006
483 code	483002	483003	483004	483005	483006
486 code	486008	486010	486015	486020	486025
price €	42,58	42,58	48,02	57,32	92,28



Floating ball valves



Excluded from 97/23/CE directive (article 1, § 3.2).

490 - Brass

Stainless steel inner mechanism - PE ball - EPDM gasket -
Max. pressure 10 bar - Max. temperature 40°C.

Ø male	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Ø ball	120	150	180	220	220	300
code	490004	490005	490006	490007	490008	490009
price €	42,23	96,57	109,03	154,70	263,80	356,80

494 - Stainless steel

304 body & inner mechanism -
316 ball - FKM gasket -
Max. temperature 90°C.

Ø male	3/4"	3/4"
Ø ball	156	245
Max. pressure (bar)	6	8
code	494005	494105
price €	330,00	340,00



Gate valve

NEW

Please consult for availability

Threaded

106 - Stainless steel

97/23/CE directive N°0038 - H module.

CF8M-1.4408 body & gate - PTFE seats - Max. pressure 16 bar - Temperature range: -20°C/+180°C.

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	106004	106005	106006	106007	106008	106009
price €	52,72	64,57	78,63	100,64	131,52	162,72



Flanged

150 - Cast iron GG25 - Metal seat

Excluded from 97/23/CE directive (article 1, § 3.2).

Flanged PN10 - DIN 3202 F4 - Max. pressure 10 bar up to DN150, 6 bar above - Max. temperature 90°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	150040	150050	150065	150080	150100	150125	150150	150200	150250	150300
price €	57,47	67,64	78,18	93,87	134,82	186,82	241,34	421,78	574,76	843,19

NEW



180 - Resilient seated gate valve

Concerned by article 3, § 3 from 97/23/CE directive.

Ductile iron GGG50 body - EPDM wedge - DIN 3202 F4 - Flanged PN10/16 - Temperature range: -10°C/+120°C - Max. pressure 16 bar - Non rising stem - Full and total bore - Clockwise closing - Epoxy coated.

DN	40	50	65	80	100	125	150	200	200*	250	250*	300	300*
Face to face	140	150	170	180	190	200	210	230	230	250	250	270	270
code	180040	180050	180065	180080	180100	180125	180150	180200	180201	180250	180251	180300	180301
price €	59,27	73,83	87,37	104,37	132,83	199,17	232,47	389,70	389,70	616,04	616,03	893,40	893,40

* Flanged PN16.

98018 - Square cap for 180

DN	40	50	65	80	100	125	150	200	250	300
code	9801831	9801831	9801831	9801832	9801832	9801833	9801833	9801833	9801834	9801834
price €	9,44	9,44	9,44	9,60	9,60	10,68	10,68	10,68	17,04	17,04

Globe valves

Threaded

Use: for compatible common fluids of group 2 - 97/23/CE directive N° 0497 - Risk category III.

451 - Bronze

With union hat - Stainless steel globe & seat - Max. pressure 25 bar - Max. temperature 180°C.

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	451002	451003	451004	451005	451006	451007	451008	451009
price €	56,17	56,60	65,03	86,90	117,70	195,47	238,60	332,97

Use: for compatible common fluids of group 2 - Module A of 97/23/CE directive - Risk category I.

485 - Stainless steel 316

Metal seat - Max. pressure 16 bar - Max. temperature 180°C.

Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
code	485004	485005	485006	485007	485008	485009
price €	32,80	35,27	51,13	67,00	87,53	109,07



Flanged



Use: for compatible common fluids of group 2 - Concerned by article 3, § 3 from 97/23/CE directive.

470 - Cast iron GG25 - Flanged PN16

Stainless steel stem & seat - DIN 3202 F1 - Rising stem - Max. pressure 16 bar - Temperature range: -10°C/+120°C.

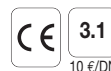
DN	15	20	25	32	40	50	65	80	100	125	150	200
Face to face	130	150	160	180	200	230	290	310	350	400	480	600
code	470015	470020	470025	470032	470040	470050	470065	470080	470100	470125	470150	470200
price €	25,26	29,29	38,61	53,28	69,22	90,08	106,47	151,78	196,58	316,88	418,94	730,47



Use: for compatible common fluids of group 2 - 97/23/CE directive N° 0062 - Risk category III - H module.

479 - Cast iron GG25 - Flanged PN16 - High temperature

Stainless steel seat & stem - DIN 3202 F1 - Rising stem - Max. pressure 16 bar - Temperature range: -10°C/+300°C.



DN	15	20	25	32	40	50	65	80	100	125	150	200
Face to face	130	150	160	180	200	230	290	310	350	400	480	600
code	479015	479020	479025	479032	479040	479050	479065	479080	479100	479125	479150	479200
price €	44,21	47,91	59,09	71,85	75,03	94,21	142,21	186,79	274,62	381,62	476,26	1 211,85

NEW



Use: for compatible common fluids of group 2 - 97/23/CE directive N° 0062 - Risk category III.

476 - Ductile iron GGG40 - Flanged PN16 - With stainless steel bellow

Stainless steel seat, stem & bellow - DIN 3202 F1 - Non rising stem - Max. pressure 16 bar (steam: 10 bar max.) - Temperature range: -10°C/+350°C.



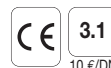
DN	15	20	25	32	40	50	65	80	100	125	150	200
Face to face	130	150	160	180	200	230	290	310	310	400	480	600
code	476015	476020	476025	476032	476040	476050	476065	476080	476100	476125	476150	476200
price €	138,79	146,02	164,81	193,73	222,64	258,78	355,65	455,40	608,65	938,27	1 182,59	3 226,83

Use: for common fluids - 97/23/CE directive N° 0062 - Risk category III - H module.



471 - Carbon steel - Flanged PN25/40

A216WCB body - Stainless steel seat & stem - DIN 3202 F1 - Rising stem - Max. pressure 40 bar - Temperature range: -20°C/+400°C.



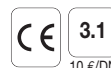
DN	15	20	25	32	40	50	65	80	100	125	150	200
Face to face	130	150	160	180	200	230	290	310	350	400	480	600
code	471015	471020	471025	471032	471040	471050	471065	471080	471100	471125	471150	471200
price €	124,21	139,03	146,41	216,06	250,53	286,94	466,44	624,35	859,88	1 354,18	1 681,56	2 685,15

Use: for common fluids - 97/23/CE directive N° 0062 - Risk category III - H module.



475 - Carbon steel - Flanged PN25/40 - With stainless steel bellow

A216WCB body - Stainless steel seat, stem & bellow - DIN 3202 F1 - Rising stem - Max. pressure 40 bar - Temperature range: -20°C/+400°C.



DN	15	20	25	32	40	50	65	80	100	125	150	200
Face to face	130	150	160	180	200	230	290	310	350	400	480	600
code	475015	475020	475025	475032	475040	475050	475065	475080	475100	475125	475150	475200
price €	247,85	221,56	246,29	354,32	416,38	509,91	784,09	990,94	1 162,32	1 915,94	2 182,62	5 301,29

Carbon steel - 800 lbs



Directive 97/23/CE N° 0036, H module - Risk category III - ASTM A105 carbon steel body - 1/2 stellite trim 8 - Bolted gland pack & bonnet - Rising stem for gate & globe valves - Max. pressure 138 bar - Temperature range: -20°C/+440°C.

Gate valves

F6 gate - A410 stellite seat - Graphite gland pack.

113 - NPT threaded

112 - Socket welding

114 - BSP threaded



Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
113 code	113003	113004	113005	113006	113007	113008	113009
112 code	112010	112015	112020	112025	112032	112040	112050
114 code	114003	114004	114005	114006	114007	114008	114009
price €	44,88	44,88	49,69	64,76	98,09	126,95	157,08

Globe valves

F6 globe - A410 stellite seat - Graphite gland pack.

413 - NPT threaded

412 - Socket welding

414 - BSP threaded



Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
413 code	413003	413004	413005	413006	413007	413008	413009
412 code	412010	412015	412020	412025	412032	412040	412050
414 code	414003	414004	414005	414006	414007	414008	414009
price €	51,61	51,61	57,38	74,37	113,80	152,91	181,44

Globe valves with stainless steel bellow

403 - NPT threaded

402 - Socket welding

404 - BSP threaded



Ø	1/2"	3/4"	1"	1"1/4	1"1/2	2"
403 code	403004	403005	403006	403007	403008	403009
402 code	402015	402020	402025	402032	402040	402050
404 code	404004	404005	404006	404007	404008	404009
price €	151,81	159,21	200,95	330,54	330,54	460,47

Piston check valves

A410 piston - A410 stellite seat - With spring - All positions.

313 - NPT threaded

312 - Socket welding

314 - BSP threaded



Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
313 code	313003	313004	313005	313006	313007	313008	313009
312 code	312010	312015	312020	312025	312032	312040	312050
314 code	314003	314004	314005	314006	314007	314008	314009
price €	38,47	38,47	42,64	55,46	85,59	111,56	137,20

Ball check valves

A410 ball - A410 stellite seat - Horizontal mounting.



10 €/DN 3 €/pc



319 - NPT threaded

318 - Socket welding

Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
319 code	319003	319004	319005	319006	319007	319008	319009
318 code	318010	318015	318020	318025	318032	318040	318050
price €	38,24	38,40	42,32	54,59	85,00	110,12	136,15

Y-strainers



10 €/DN 3 €/pc

Use: for compatible common fluids of group 2 - 97/23/CE directive N° 1115 - Risk category II - Use : steam - Forged A105 carbon steel - Mesh 0,8 mm - With draining cap - Max. pressure 138 bar - Temperature range: -20°C/+440°C.

231 - BSP threaded

232 - Socket welding

234 - NPT threaded



Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
231 code	231002	231003	231004	231005	231006	231007	231008	231009
232 code	232008	232010	232015	232020	232025	232032	232040	232050
234 code	234002	234003	234004	234005	234006	234007	234008	234009
price €	44,00	44,80	44,80	57,14	91,50	183,46	184,14	305,66

Stainless steel 316 - 800 lbs



10 €/DN 3 €/pc

Directive 97/23/CE N° 0036, H module - Risk category III - Stainless steel 316 body & inner parts - TRIM 10 (F316, standard stainless steel 316 on seat and stem) - Bolted gland pack & bonnet - Rising stem for gate & globe valves - Max. pressure 138 bar - Temperature range: -30°C/+440 °C.

Gate valves

F316 gate - 316 seat - Graphite gland pack.

153 - NPT threaded

152 - Socket welding



Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
153 code	153003	153004SF	153005SF	153006SF	153007	153008	153009
152 code	152010	152015	152020	152025	152032	152040	152050
price €	170,17	170,17	189,99	284,61	561,00	562,87	743,51

Globe valves

F316 globe - 316 seat - Graphite gland pack.

453 - NPT threaded

452 - Socket welding



Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
453 code	453003	453004	453005	453006	453007	453008	453009
452 code	452010	452015	452020	452025	452032	452040	452050
price €	190,37	190,37	212,81	313,04	629,07	630,19	831,59

Ball check valves

316 ball & seat.

359 - NPT threaded

358 - Socket welding

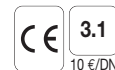
Ø	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
359 code	359003	359004	359005	359006	359007	359008	359009
358 code	358010	358015	358020	358025	358032	358040	358050
price €	173,16	173,16	193,73	284,61	571,85	572,97	743,92



Y-strainers

Threaded

Use: for compatible common fluids of group 2 - 97/23/CE directive N° 0035 - Risk category II - Mesh 1 mm - With draining cap - Max. pressure 16 bar - Max. temperature 200°C.



230 - Stainless steel

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
price €	10,56	10,60	10,60	12,56	25,30	31,08	41,90	60,04

Flanged

For compatible common fluids of group 2 - Concerned by article 3, § 3 from 97/23/CE directive.

220 - Cast iron

Flanged PN16 up to DN200 (except*: PN10), PN10 above (except**: PN16) - DIN 3202 F1 - Stainless steel screen - With draining cap - Max. pressure 16 bar up to DN200, 10 bar above - Max. temperature 120°C.

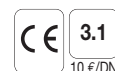


DN	15	20	25	32	40	50	65	80	100	125	150	200	200*	250	250**	300	300**	350	400
Mesh (mm)	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,5	1,5	1,5	1,5	1,5	1,5	1,5	3	3
Face to face	130	150	160	180	200	230	290	310	350	400	480	600	600	730	730	850	850	980	1100
code	220015	220020	220025	220032	220040	220050	220065	220080	220100	220125	220150	220200	220201	220250	220251	220300	220301	220350	220400
price €	20,47	22,67	24,87	35,31	40,97	52,77	70,23	95,49	125,11	187,49	268,56	456,95	456,95	784,34	784,34	1 120,09	1 120,09	1 665,66	2 207,86

97/23/CE directive N° 0062 - Risk category III.

225 - Cast iron - Steam use

Flanged PN16 - DIN 3202 F1 - Max. pressure 16 bar - Max. temperature 300°C.

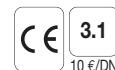


DN	15	20	25	32	40	50	65	80	100
Mesh (mm)	1	1	1	1	1	1	1,25	1,25	1,6
Face to face	130	150	160	180	200	230	290	310	350
code	165015	165020	165025	165032	165040	165050	165065	165080	165100
price €	37,77	41,97	44,07	54,56	71,35	81,84	121,71	155,29	218,24

Concerned by article 3, § 3 from 97/23/CE directive.

233 - Ductile iron - Water use

Flanged PN16 up to DN200 (except*: PN10), PN 10 above (except**: PN16 - DIN 3202 F1 - Epoxy paint - Stainless steel screen, screws & bolts - Max pressure 16 bar up to DN200, 10 bar above - Max. temperature 80°C.

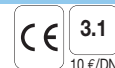


DN	40	50	65	80	100	125	150	200*	200	250	250**	300	300**
Mesh (mm)	2	2	2	2	2	3,15	3,15	5	5	5	5	5	5
Face to face	200	230	290	310	350	400	480	600	600	730	730	850	850
code	233040	233050	233065	233080	233100	233125	233150	233200	233201	233250	233251	233300	233301
price €	65,54	76,55	107,66	134,70	175,27	341,74	369,01	550,36	550,36	954,09	954,09	1 470,52	1 470,52

For compatible common fluids of group 2 - 97/23/CE directive N° 0062 - Risk category I up to DN80, risk category II above.

235 - Carbon steel

Flanged PN25/40 - DIN 3202 F1 - Max. pressure 40 bar - Max. temperature 400°C.



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
price €	105,18	138,97	149,19	191,10	235,76	286,39	286,87	438,09	664,56	892,99	1 226,62	2 164,60

For compatible common fluids of group 2 - 97/23/CE directive N° 0035 - Risk category I up to DN50, risk category II above.

240 - Stainless steel

Flanged PN16 - DIN 3202 F1 - Max. pressure 16 bar - Max. temperature 180°C.



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	630
code	240015	240020	240025	240032	240040	240050	240065	240080	240100	240125	240150	240200
price €	145,59	165,14	196,56	267,12	286,25	356,81	529,35	661,92	1 024,46	1 270,31	2 712,70	3 231,71

Stainless steel - All positions

97/23/CE directive N° 0035 - Risk category II.

380 - Female-Female

Max. pressure 63 bar - Max. temperature 200°C.



384 - Female-Female. NPT threaded

Max. pressure 63 bar - Max. temperature 200°C.



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	-	-	-
price €	27,16	32,00	34,40	41,66	54,24	71,66	93,76	140,00	235,06	339,04	563,84

381 - Butt welding

Max. pressure 63 bar - Max. temperature 200°C.



382 - Socket welding

Max. pressure 63 bar - Max. temperature 200°C.



Ø	8	10	15	20	25	32	40	50	65	80	100
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
price €	27,70	30,00	34,94	40,84	50,84	69,56	95,24	132,70	236,74	340,00	504,86

383 - With strainer basket

Max. pressure 63 bar - Max. temperature 200°C.



3.1
10 €/DN

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
price €	42,90	52,14	62,64	79,04	98,46	126,20	181,30	341,74	449,06	682,46

386 - Wafer flanged PN10/16/25/40 & ANSI 150/300

Max. pressure 40 bar - Max. temperature 200°C.



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
price €	18,51	23,97	29,54	37,66	49,55	68,59	105,98	160,76	238,83

97/23/CE directive N° 0496 - Risk category III, H module.

3.1
10 €/DN

388 - Female-Female

With ball - Max. pressure 400 bar - Max. temperature 180°C.

389 - Female-Female - NPT threaded

With ball - Max. pressure 400 bar - Max. temperature 180°C.

High pressure



Ø	1/4"	3/8"	1/2"	3/4"	1"
388 code	388002	388003	388004	388005	388006
389 code	389002	389003	389004	389005	389006
price €	172,56	175,04	175,62	232,62	289,66

Vertical lift

97/23/CE directive N° 0497 - Risk category III.



350 - Bronze

Stainless steel inner mechanism - Max. pressure 25 bar - Max. temperature 180°C.



Ø	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
code	350002	350003	350004	350005	350006	350007	350008	350009
price €	48,49	49,29	54,37	69,57	95,29	160,94	205,69	280,66

Swing

3.1

10 €/DN

97/23/CE directive - Risk category I - A module.



320 - Stainless steel - Female-Female

Max. pressure 16 bar - Max. temperature 200°C.

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
price €	26,40	26,40	26,40	29,34	36,00	54,00	68,00	104,00

Excluded from 97/23/CE directive (article 1, § 3-2) - Flanged PN16 - DIN 3202-F6.



360 - Cast iron - Metal / Metal

Max. pressure 16 bar - Max. temperature 120°C for 360, 80°C for 362.

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
price €	66,06	74,99	95,83	109,23	168,42	245,58	282,95	534,98

362 - Cast iron - Metal / EPDM

Wafer swing - Single plate



3.1

10 €/DN

Excluded from 97/23/CE directive (article 1, § 3-2) - NF 29337.



364 - Carbon steel - EPDM gasket

Max. pressure 16 bar up to DN200, 10 bar above - Max. temperature 110°C for 364, 80°C for 351.

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	-	-	-	-	-
price €	19,82	21,45	25,04	30,36	39,78	53,47	65,44	105,06	166,27	266,74	351,19	519,24	798,61	1 060,02	1 591,65

NEW

351 - Carbon steel - NBR gasket



365 - Stainless steel 316 - FKM (Viton®) gasket

Max. pressure 16 bar up to DN200, 10 bar above - Max. temperature 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
price €	49,02	53,50	74,51	90,70	115,27	164,83	223,08	426,54	629,49	907,49	1 482,00	2 096,98	2 858,26	3 743,10	5 154,06

Wafer swing - Dual plate



3.1

10 €/DN

97/23/CE directive N° 0035 - Risk category II.



370 - Cast iron - NBR gasket

Flanged PN10/16 - Max. pressure 16 bar up to DN300, 10 bar above - Max. temperature 90°C for 370, 110°C for 371.

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	144	184	191	203	213	222
370 code	370050	370065	370080	370100	370125	370150	370200	370250	370300	370350	370400	370450	370500	370600
price €	20,62	25,26	33,04	41,52	51,88	69,12	118,10	151,62	240,90	516,52	730,52	986,50	1 297,72	1 538,00
371 code	371050	371065	371080	371100	371125	371150	371200	371250	371300	-	-	-	-	-
price €	25,96	30,06	41,64	53,32	73,20	99,78	176,00	273,48	396,00					

371 - Cast iron - EPDM gasket - Stainless steel plate



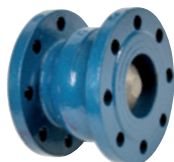
372 - Stainless steel 316 - FKM (Viton®) gasket

Flanged PN25 up to DN200, PN10/16 above - Max. pressure 16 bar up to DN300, 10 bar above - Max. temperature 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	144	184	191	203	213	222
code	372050	372065	372080	372100	372125	372150	372200	372250	372300	372350	372400	372450	372500	372600
price €	116,40	140,92	197,97	263,45	348,84	491,94	942,17	1 292,53	1 814,97	3 751,46	5 012,45	6 635,96	8 763,87	10 844,51

Cast iron - Spring

Concerned by article 3, § 3 from 97/23/CE directive - GG25 body.



369 - Flanged PN16 - Standard

Max. pressure 16 bar - Max. temperature 110°C - 304 throttle - EPDM gasket.

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
price €	68,37	88,27	112,30	150,57	226,27	289,40	572,47	978,03	1 489,03

3.1

10 €/DN



366 - Flanged PN16 - Reference +

Max. pressure 16 bar - Max. temperature 130°C - GGG40 throttle - EPDM gasket.

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
price €	112,31	137,60	180,09	239,82	329,14	404,12	750,37	1 288,46	3 226,06



3.1

10 €/DN

Excluded from 97/23/CE directive (article 1, § 3.2).

368 - Flanged PN16 with strainer basket - Standard

All positions - Steel strainer - Max. temperature 110°C.

DN	50	65	80	100	125	150	200	250
code	368050	368065	368080	368100	368125	368150	368200	368250
price €	102,00	132,00	186,00	254,00	342,00	438,00	792,00	1 284,84



363 - Flanged PN16 with strainer basket - Reference +

All positions - Steel strainer - Max. temperature 130°C.

DN	50	65	80	100	125	150	200	250	300
code	363050	363065	363080	363100	363125	363150	363200	363250	363300
price €	152,80	180,95	234,98	317,42	420,83	509,66	913,26	1 571,63	3 486,03



Cast iron & ductile iron - Ball

Excluded from 97/23/CE directive (article 1, § 3.2) - For water treatment and water distribution networks - EN 12050-4 for lifting stations.

331 - Threaded - Standard

GGG40 NBR ball up to 1"1/2, coated NBR aluminium ball above - Max. pressure 10 bar - Max. temperature 80°C.

Ø	1"	1"1/4	1"1/2	2"	2"1/2	3"
Face to face	85	85	90	115	135	160
code	331006	331007	331008	331009	331010	331011
price €	28,30	38,87	40,63	51,17	70,77	92,90



335 - Threaded - Reference +

GG25 body - Phenolic resin ball up to 1"1/2, coated NBR aluminium ball above - Max. pressure 10 bar - Max. temperature 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
price €	58,06	58,09	58,76	68,29	99,06	174,15



3.1

10 €/DN

332 - Flanged PN10/16 - Standard

Ductile iron body & ball - NBR ball for DN40, coated NBR aluminium ball above - Flanged PN16 up to DN150, PN10 above - Max. pressure 10 bar - Max. temperature 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
price €	74,33	82,37	117,63	129,37	168,70	305,20	331,50	684,57	1 020,07	1 609,40



336 - Flanged PN10/16 - Reference +

GG25 body - Phenolic resin ball for DN40, coated NBR aluminium ball for DN50 to 200, coated NBR ductile iron ball above - Flanged PN16 up to DN150, PN10 above - Max. pressure 10 bar - Max. temperature 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
price €	153,74	154,00	154,00	182,44	253,50	421,82	457,91	843,18	1 942,91	2 611,00	4 025,79	7 188,82



3.1

10 €/DN

Strainer baskets

392 - Plastic threaded end - Stainless steel mesh



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
code	392003	392004	392005	392006	392007	392008	392009	392010	392011	392012
price €	1,63	1,73	1,93	2,13	2,80	3,17	4,67	9,83	12,07	15,90

391 - Full stainless steel 316



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
code	391003	391004	391005	391006	391007	391008	391009	391010	391011	391012
price €	16,83	17,77	21,00	24,97	26,80	32,67	48,80	106,67	110,03	118,63

367 - Flanged PN16 - Galvanized carbon steel



DN	50	65	80	100	125	150	200	250
code	367050	367065	367080	367100	367125	367150	367200	367250
price €	78,22	97,82	114,24	134,64	154,44	180,18	193,60	330,66

376 - Flanged PN10/16 - Stainless steel 304



DN	50	65	80	100	125	150	200	200/16	250	250/16	300/10
code	376050	376065	376080	376100	376125	376150	376200	376201	376250	376251	376300
price €	161,38	185,08	192,90	270,66	324,48	403,32	618,50	560,00	951,28	960,00	1 173,34

Expansion joints

Metal



97/23/CE directive N° 0036 - Risk category II.

1551 - Threaded - With external & internal liner

PN16 - Aluminium external liner - Steel internal liner - Stainless steel 316 bellow - Max. temperature 250°C - Max. pressure 16 bar (at 20°C).



Ø	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Length	255	240	265	300	300	300
code	1551004	1551005	1551006	1551007	1551008	1551009
price €	44,85	47,72	59,74	72,43	87,49	95,45

1511 - Butt welding - With stainless steel 321 internal liner & below

Stainless steel 321 bellow - Steel butt welding connection - Max. pressure 16 bar (at 20°C) - Max. temperature 300°C (at 10 bar).



DN	25	32	40	50	65	80	100	125	150	200	250
Length	185	185	200	270	260	275	310	310	350	330	360
code	1511025	1511032	1511040	1511050	1511065	1511080	1511100	1511125	1511150	1511200	1511250
price €	87,66	94,77	98,15	102,55	149,94	168,22	193,94	226,90	270,80	336,77	395,32

1521 - Flanged PN16 - With stainless steel 321 internal liner

Stainless steel 321 bellow - Steel flanges - Max. pressure 16 bar (at 20°C) - Max. temperature 300°C (at 10 bar).



DN	25	32	40	50	65	80	100	125	150	200	250
Length	105	105	120	150	140	155	220	190	270	275	285
code	1521025	1521032	1521040	1521050	1521065	1521080	1521100	1521125	1521150	1521200	1521250
price €	117,11	131,32	142,32	168,22	189,54	216,62	253,85	303,09	364,18	463,52	585,54

Rubber

Excluded from 97/23/CE directive (article 1, § 3.2) - Max. pressure (at 20°C) 10 bar up to DN250, 7 bar above - Max. temperature 100°C for 1501-1502-1504, 80°C for 1503.

Threaded

1504 - EPDM double wave

Zinc plated cast iron union fittings.



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
price €	15,00	15,00	16,20	19,86	23,39	29,51	44,24	57,37

Flanged

1501 - EPDM - Flanged PN10

Cadmium steel flanges.



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	265	265	265	265	265
code	1501032	1501040	1501050	1501065	1501080	1501100	1501125	1501150	1501200	1501250	1501300	1501350	1501400	1501450	1501500	1501600
price €	22,52	25,94	30,18	38,07	43,43	53,22	74,95	90,60	142,03	209,64	245,55	404,23	499,41	575,07	746,28	1 074,48

1502 - EPDM - Flanged PN16

Cadmium steel flanges.



DN	200	250	300
Length (mm)	205	240	260
code	1502200	1502250	1502300
price €	151,04	216,54	265,00

1503 - NBR - Flanged PN10

Cadmium steel flanges.



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
price €	24,10	27,75	32,28	40,74	46,47	56,94	80,18	96,94	152,01

98604 - Expansion limiter with screws set - Flanged PN10

For 1501 & 1503 - Supplied without expansion joint & flange.



DN	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
code	9860407	9860408	9860409	9860410	9860411	9860412	9860413	9860414	9860415	9860416	9860417	9860418	9860419	9860420	9860421	9860422
price €	44,00	44,00	56,60	60,46	60,46	60,46	64,32	81,04	88,76	96,50	97,78	118,00	124,00	136,00	148,00	188,00

98603 - Expansion limiter with screws set - Flanged PN16

For 1502 - Supplied without expansion joint & flange.

DN	200	250	300
code	9860315	9860316	9860317
price €	88,76	99,06	108,08

Flanges, see page 37



Rubber-metal pipe connector

NEW

1509 - EPDM - Flanged PN10

Max. pressure 10 bar - Temperature range: -10°C/+100°C - Supplied with screws & bolts.



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
price €	92,82	92,82	92,82	103,50	124,00	152,23	173,10	226,43	280,90

Knife gate valves

Manually operated



Uni-directional tightness

For fluids concerned by risk category III, H module of 97/23/CE directive N° 0062 - Uni-directional tightness: sense of mounting - Rising rotating stem, non rising hand wheel - Rilsan painted - Flanged PN10 - NFE 29311 - DIN 3230 - ISO 5208.

170 - Cast iron - NBR gasket

GG25 body - Stainless steel 304 gate - Max. temperature 80°C.

176 - Cast iron - Metal seat

GG25 body - Stainless steel 304 gate - Max. temperature 100°C.

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
Max. pressure (bar)	10	10	10	10	10	10	10	8	6	4	4	3	3	3	2
170 code	170050	170065	170080	170100	170125	170150	170200	170250	170300	170350	170400	170450	170500	170600	170700
176 code	176050	176065	176080	176100	176125	176150	176200	176250	176300	-	-	-	-	-	-
price €	166,69	179,31	186,56	206,66	249,93	284,02	472,97	604,84	803,20	1 369,11	1 719,86	2 229,83	2 491,39	3 988,84	7 266,90

172 - Stainless steel - EPDM gasket

CF8M-1.4408 body - Stainless steel 316 gate - Max. temperature 100°C.

DN	50	65	80	100	125	150	200	250	300	350	400
Max. pressure (bar)	10	10	10	10	10	10	10	8	6	4	4
code	172050	172065	172080	172100	172125	172150	172200	172250	172300	172350	172400
price €	302,25	368,97	394,25	454,04	542,54	662,38	1 030,56	1 576,17	2 475,27	4 250,40	5 103,32

Bi-directional tightness

Same as above, except: bi-directional tightness; non rising stem & handwheel.

178 - Cast iron - NBR gasket

GG25 body - Stainless steel 304 gate - Max. temperature 80°C.

DN	50	65	80	100	125	150	200	250	300
Max. pressure (bar)	10	10	10	10	10	10	10	8	6
code	178050	178065	178080	178100	178125	178150	178200	178250	178300
price €	188,69	203,00	211,19	233,96	282,92	321,51	535,42	684,68	909,23

Options

Lever set

DN	50	65	80	100	125	150	200	250	300
code	9801780	9801781	9801782	9801783	9801784	9801785	9801786	9801787	9801788
price €	116,88	118,20	120,32	124,16	136,60	135,96	236,08	234,44	245,60

Limit switches

1 limit switch (all diameters)

Set of 2 limit switches for DN50 to 150

DN200 to 300

code	price €
9801350	84,50
9801351	147,20
9801352	154,60

Deflector

NBR seat

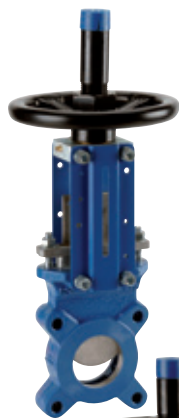
EPDM seat

*PTFE seat

FKM seat

DN	50	65	80	100	125	150	200	250	300	350	400
code	985670	985671	985672	985673	985674	985675	985676	985677	985678	985679	985680
price €	72,80	88,20	128,60	163,00	180,60	249,68	355,50	451,54	538,98	991,52	1 166,86
code	985500	985501	985502	985503	985504	985505	985506	985507	985508	985509	985510
price €	42,00	44,00	46,00	50,00	54,00	60,00	68,00	76,00	88,00	150,00	150,00
code	985520	985521	985522	985523	985524	985525	985526	985527	985528	985529	985530
price €	42,00	44,00	46,00	50,00	54,00	60,00	68,00	76,00	88,00	150,00	150,00
code	985540	985541	985542	985543	985544	985545	985546	985547	985548	985549	985550
price €	74,00	84,00	102,00	112,00	130,00	138,00	138,00	184,00	230,00	380,00	470,00
code	985560	985561	985562	985563	985564	985565	985566	985567	985568	985569	985570
price €	74,00	84,00	102,00	112,00	130,00	138,00	138,00	184,00	230,00	380,00	470,00

*Uncomplete tightness - Leakage rate class III.



NEW

Please consult for availability



ISO pad connected



CE 97/23 category I - Free rising rotating stem - ISO 5211 pad (only for electric actuator) - Free for actuator - Uni-directional tightness: sense of mounting - Rilsan painted - Flanged PN10 - NFE 29311 - DIN 3230 - ISO 5208.



170 - Cast iron - NBR gasket

GG25 body - Stainless steel 304 gate - Max. temperature 80°C.

176 - Cast iron - Metal seat

GG25 body - Stainless steel 304 gate - Max. temperature 100°C.

DN	50	65	80	100	125	150	200	250*	300*	350*	400*
ISO	F10	F10	F10	F10	F10	F10	F10	F10	F10	F10	F10
Stem (diam x pitch)	20 x 4	20 x 4	20 x 4	20 x 4	20 x 4	25 x 5	25 x 5	25 x 5	25 x 5	35 x 6	35 x 6
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
Max. pressure (bar)	10	10	10	10	10	10	10	8	6	4	4
170 ISO code	440004ISO	440005ISO	440006ISO	440007ISO	440008ISO	440009ISO	440010ISO	440011ISO	440012ISO	440013ISO	440014ISO
176 ISO code	446004ISO	446005ISO	446006ISO	446007ISO	446008ISO	446009ISO	446010ISO	446011ISO	446012ISO	446013ISO	446014ISO
price €	197,30	211,80	217,47	268,00	297,97	347,10	572,00	728,00	996,00	1 706,57	2 288,50

* 40 € to be added for special packaging.



172 - Stainless steel - EPDM gasket

CF8M-1.4408 body - Stainless steel 316 gate - Max. temperature 100°C.

DN	50	65	80	100	125	150	200	250*	300*	350*	400*
ISO	F10	F10	F10	F10	F10	F10	F10	F10	F10	F10	F10
Stem (diam x pitch)	20 x 4	20 x 4	20 x 4	20 x 4	20 x 4	25 x 5	25 x 5	25 x 5	25 x 5	35 x 6	35 x 6
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
Max. pressure (bar)	10	10	10	10	10	10	10	8	6	4	4
code	445004ISO	445005ISO	445006ISO	445007ISO	445008ISO	445009ISO	445010ISO	445011ISO	445012ISO	445013ISO	445014ISO
price €	330,63	394,00	447,30	518,80	590,60	796,73	1 202,47	1 740,00	2 783,73	4 535,07	5 608,77

* 40 € to be added for special packaging.

Electric actuated



CE 97/23 category I - Uni-directional tightness: sense of mounting - Electric actuator REGADA 230V - IP67 - Temperature range: -25°C / +55°C - Safety manual gear - Heating resistance 20W - S4 duty service - 25% - 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 - Stainless steel 304 gate - Max. temperature 80°C.

176 - Cast iron - Metal seat

GG25 body - Stainless steel 304 gate - Max. temperature 100°C.



DN	Operating			170 Code	176 code	price €
	Actuator	time (s)				
50	SO2	39		440004027100	446004027100	2 624,00
65	SO2	48		440005027100	446005027100	2 638,00
80	SO2	60		440006027100	446006027100	2 642,00
100*	SO2	75		440007027100	446007027100	2 670,00
125*	SO2	93		440008027100	446008027100	2 716,00
150*	SO2	114		440009027100	446009027100	2 762,00
200*	MO3	60		440010027150	446010027150	3 986,00
250*	MO3	75		440011027150	446011027150	4 128,00
300*	MO3	90		440012027150	446012027150	4 354,00

* 40 € to be added for special packaging.

172 - Stainless steel - EPDM gasket

CF8M-1.4408 body - Stainless steel 316 gate - Max. temperature 100°C.



DN	Operating			code	price €
	Actuator	time (s)			
50	SO2	39		445004027100	2 748,00
65	SO2	48		445005027100	2 806,00
80	SO2	60		445006027100	2 854,00
100*	SO2	75		445007027100	2 920,00
125*	SO2	93		445008027100	2 988,00
150*	SO2	114		445009027100	3 178,00
200*	MO3	60		445010027150	4 574,00
250*	MO3	75		445011027150	5 068,00
300*	MO3	90		445012027150	6 032,00

* 40 € to be added for special packaging.

Electric actuated with AUMA
on request

Pneumatic actuated



3.1

10 €/DN



Double acting pneumatic actuator - Painted steel side covers - Actuator designed for lubricated air input 6 bar.



170 - Cast iron - NBR gasket

GG25 body - Stainless steel 304 gate -
Max. temperature 80°C.

176 - Cast iron - Metal seat

GG25 body - Stainless steel 304 gate -
Max. temperature 100°C.

DN	170 code	176 code	price €
50	440004035010	446004035010	212,00
65	440005035011	446005035011	226,00
80	440006035012	446006035012	242,00
100	440007035013	446007035013	288,00
125	440008035014	446008035014	402,00
150	440009035015	446009035015	442,00
200	440010035016	446010035016	784,00
250 *	440011035017	446011035017	1 080,00
300 *	440012035018	446012035018	1 284,00
350 *	440013035019	446013035019	2 360,00
400 *	440014035020	446014035020	2 694,00

* 40 € to be added for special packaging.



172 - Stainless steel - EPDM gasket

CF8M-1.4408 body - Stainless steel 316 gate -
Max. temperature 100°C.

DN	code	price €
50	445004035010	350,00
65	445005035011	446,00
80	445006035012	450,00
100	445007035013	546,00
125	445008035014	730,00
150	445009035015	914,00
200	445010035016	1 490,00
250 *	445011035017	2 376,00
300 *	445012035018	3 020,00
350 *	445013035019	4 580,00
400 *	445014035020	4 720,00

* 40 € to be added for special packaging.

Accessories

Limit switches

Set of 2 limit switches for pneumatic actuated valves DN50 to 150
DN200 to 300

code	price €
041312	162,00
041314	162,00

Position detectors

Inductive detector IFM Ø12 10-36V DC PNP NO 3 threads with M12 connector

code	price €
121147N	96,00
121150N	96,00
122141N	96,00
122143N	96,00

Inductive detector P+F Ø12 10-36V DC PNP NO 3 threads with 2 m wire

Filters - Regulators - Lubrifiers

Filter regulator 1/4" DN50 to 200

Filter regulator 3/8" DN250 to 400

code	price €
172002	39,80
172003	39,80

Filter regulator + lubricator 1/4" DN50 to 200

Filter regulator + lubricator 3/8" DN250 to 400

170002	54,00
170003	54,00

Solenoid valve 5/2 monostable - IP65 Lucifer 341 PO1 - DN50 to 200

Connection 1/4" inlet and 1/8" outlet -
Tubing to actuator included.

Voltage	code	price €
230V AC	042450N	164,00
24V AC	042452N	164,00
48V AC	042452N	164,00
110V AC	042453N	164,00
12V DC	042454N	164,00
24V DC	042455N	164,00

Solenoid valve 5/2 monostable - IP65 Lucifer 341 PO2 - DN250 to 300

Connection 1/4" inlet and 1/8" outlet -
Tubing to actuator included.

Voltage	code	price €
230V AC	042460N	276,00
24V AC	042461N	276,00
48V AC	042462N	276,00
110V AC	042463N	276,00
12V DC	042464N	276,00
24V DC	042465N	276,00

Break

Ø	code	price €
1/8"	041196	5,80
1/4"	041195	5,80

Silencer

Ø	code	price €
1/8"	041192	1,76
1/4"	041193	2,60

Single effect sets

Normally closed with air tank DN50 to 200
Normally closed with air tank DN250 & 300
Normally open with air tank DN350 & 400

code	price €
042600	640,00
042601	740,00
042602	760,00

Flanges

■ Butt welding carbon steel flanges

2100 - Single flange PN16

2101 - Single flange PN10



DN	15	20	25	32	40	50	65	80	100	125	150	200/10
holes	4	4	4	4	4	4	4	8	8	8	8	8
code	2100015	2100020	2100025	2100032	2100040	2100050	2100065	2100080	2100100	2100125	2100150	2101200
price €	4,94	6,57	8,71	12,29	17,20	15,69	19,06	22,06	25,77	42,46	45,20	67,00

DN	200/16	250/10	250/16	300/10	300/16
holes	12	12	12	12	12
code	2100200	2101250	2100250	2101300	2100300
price €	76,23	99,00	124,37	122,17	182,60

■ Flat 316L stainless steel flanges

2109 - Single flange PN16

3.1

10 €/DN



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
price €	28,83	31,40	53,43	64,86	84,86	75,40	106,91	172,46	154,66	122,66	266,40	256,31

■ Flange gaskets

98021 - Universal gasket

For water, oil, steam, gas - 150°C - 40 bar.



DN	15	20	25	32	40	50	65	80	100	125	150	200
code	9802104	9802105	9802106	9802107	9802108	9802109	9802110	9802111	9802112	9802113	9802114	9802115
price €	0,96	1,10	1,40	1,66	1,96	2,56	3,30	3,86	4,66	6,06	7,30	11,26

DN	250	300
code	9802116	9802117
price €	15,40	20,10

■ Bolts sets

2103 - Bolts set for flanged PN16 valves



DN	15	20	25	32	40	50	65	80	100	125	150	200
code	2103015	2103020	2103025	2103032	2103040	2103050	2103065	2103080	2103100	2103125	2103150	2103200
price €	7,04	7,04	9,68	9,68	9,68	9,68	10,12	20,24	20,24	25,52	59,84	88,18

2110 - Bolts set for wafer butterfly valves



DN	50	65	80	100	125	150	200	250	300
code	2110050	2110065	2110080	2110100	2110125	2110150	2110200	2110250	2110300
price €	8,14	8,58	17,16	19,36	38,28	42,68	42,68	130,02	130,02

2111 - Bolts set for lug butterfly valves



DN	40	50	65	80	100	125	150	200	250	300
code	2111040	2111050	2111065	2111080	2111100	2111125	2111150	2111200	2111250	2111300
price €	7,04	6,16	6,16	11,44	11,44	14,96	38,72	38,72	85,80	99,00

Repair clamps

Excluded from 97/23/CE directive (article 1, § 3-1) -
 Stainless steel band - Ductile iron clamp - EPDM
 rubber gasket - Max. temperature: 60°C.

DN	20-140	200	250	300	400	500
Max. pressure (bar)	20	16	10	8	4,5	2,5

Repairing

1401 - M Type - 1 bolt - Length 80 mm

Ext. pipe Ø	21/25	26/30	29/33	33/37	38/42	42/45	48/51	50/54	55/60	60/64	65/69	69/73	71/76
code	1401021	1401026	1401029	1401033	1401038	1401042	1401048	1401050	1401055	1401060	1401065	1401069	1401071
price €	7,44	7,46	7,62	7,64	7,98	7,98	8,32	8,42	9,02	11,10	11,02	11,20	11,28

Ext. pipe Ø	76/82	82/87	87/93	94/100	99/104	105/111	112/118	120/126	126/131	131/136	139/145	156/162	167/173
code	1401076	1401082	1401087	1401094	1401099	1401105	1401112	1401120	1401126	1401131	1401139	1401156	1401167
price €	11,98	11,98	11,98	12,42	12,60	12,98	13,70	23,10	22,44	22,78	24,06	25,20	25,50

Repairing for complete break

1403 - B Type - 3 bolts - Length 200 mm

Ext. pipe Ø	48/56	56/64	60/68	68/78	78/88	88/98	98/108	108/118	114/126	126/138	138/150	140/153
code	1403048	1403056	1403060	1403068	1403078	1403088	1403098	1403108	1403114	1403126	1403138	1403140
price €	79,04	79,80	81,22	82,24	82,02	86,08	88,84	92,24	94,02	96,12	98,78	100,90

Ext. pipe Ø	150/162	162/174	168/182	174/186	186/198	198/210	210/223	222/234	234/246	243/255	273/285
code	1403150	1403162	1403168	1403174	1403186	1403198	1403210	1403222	1403234	1403243	1403273
price €	104,12	105,74	109,56	112,80	112,62	117,62	123,88	127,64	137,28	148,32	166,50

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

Ext. pipe Ø	88/110	114/137	138/160	160/182	182/202	202/224	217/240	240/262	262/284	273/296	296/319	324/346
code	1406088	1406114	1406138	1406160	1406182	1406202	1406217	1406240	1406262	1406273	1406296	1406324
price €	159,20	160,44	167,34	160,54	170,00	172,14	179,86	185,10	199,76	174,08	204,00	215,98

Ext. pipe Ø	346/368	365/387	387/410	410/432	428/450	450/474	470/492	492/516
code	1406346	1406365	1406387	1406410	1406428	1406450	1406470	1406492
price €	230,20	200,02	245,34	265,44	240,02	268,42	268,96	311,98

Tapping bridges

Use: water works - Excluded from 97/23/CE directive (article 1, § 3-2).

1189 - Tapping bridge for polyethylene and PVC pipes

Polypropylene body - Max. pressure 10 bar - Max. temperature 45°C.

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
price €	1,62	1,62	1,62	1,62	1,62	1,62	1,62	1,68	1,92	2,06	2,20	2,20	2,84	3,00	3,20

1190 - Tapping bridge for multi-pipes

Cast iron body - NBR glued gasket - Stainless steel 304 bridge and screws - For polyethylene, PVC, carbon steel and cast iron pipes -
 Max. pressure 10 bar - Max. temperature 60°C.

		Threaded outlet							
DN	Ø ext.	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
30	40-50	1190038 20,02	1190039 20,02						
40	48-55		1190048 22,08	1190049 22,08					
50	60-68		1190060 23,68	1190061 23,68	1190062 32,00	1190063 31,08			
65	72-80		1190070 30,44	1190071 30,50	1190072 33,22	1190073 33,22			
70	76-84		1190076 30,78	1190077 30,84	1190078 34,00	1190079 33,70			
80	88-104		1190089 34,00	1190090 34,00	1190091 37,46	1190092 34,98	1190093 39,46		
90	98-112		1190100 33,08	1190101 33,08	1190102 36,44	1190103 36,68			
100	112-126		1190114 32,98	1190115 33,08	1190116 36,72	1190117 36,72	1190118 39,10		
125	140-154		1190140 32,54	1190141 33,08	1190142 38,00	1190143 38,24	1190144 42,90		
150	168-184		1190168 33,40	1190169 33,52	1190170 38,14	1190171 39,28	1190172 41,16	1190173 49,02	1190174 62,00

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