

Gate Valves (DIN)

Bronze, DIN Flanged Ends

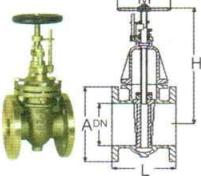
Bolted Bonnet Inside Screwed Stem

Válvulas de compuerta (DIN) Bronce, bridas DIN

DIN 型青銅仕切弁

闸阀 (DIN) 青铜, DIN 法兰端

Bronze gate valve with bronze wedge and seat, pressure rating PN 4/6/10/16, flat faced flanges acc. to DIN PN 10/16, bolted bonnet, position indicator, inside screwed stem, non-rising stem and handwheel, face to face acc. to EN 558-1, 14 (DIN 3202-F4).



Heavy duty construction with flat faced flanges. A position indicator is a standard feature of the valve. Possible certification by various classification societies.

Application: especially suitable for use in shipbuilding.

Pressure and Temperature Range

Bore	Pressure and Temperature Range
DN 40 thru DN 150	16 bar - 100°C, 11 bar - 225°C
DN 200	10 bar - 100°C, 6 bar - 225°C
DN 250	6 bar - 100°C, 4 bar - 225°C
DN 300	4 bar - 100°C, 2.5 bar - 225°C

Material Specification

Component	Material	EN and/or (DIN)
Body Bonnet and Wedge	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Stem	Brass	CuZn35Ni3Mn2AlPb (CuZn35Ni)
Bonnet Gasket	Asbestos-free	
Gland Packing	Asbestos-free	
Position Indicator	Brass	CuZn35Ni3Mn2AlPb (CuZn35Ni)

How to order: CODE

Gate valve (DIN), bronze, DIN flanged ends, bolted bonnet inside screwed stem, SIZE DN

Unit Per Pcs.

CODE	DN	Size mm				Weight Kg
		A	H	L	M	
75 55 51	40	150	260	140	140	11.5
	52	165	260	150	140	14
	53	185	320	170	160	18
	54	200	350	180	160	21
	55	220	410	190	200	29
75 55 56	125	250	440	200	200	38
	57	285	520	210	250	50
	59	340	630	230	250	79
	60	395	720	250	315	108
	61	300	445	280	400	187

Gate Valves (DIN)

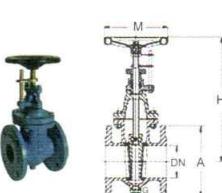
Cast Iron, DIN Flanged Ends, Inside Screwed Stem, Short Face to Face, Bronze Seat

Válvulas de compuerta (DIN) Hierro fundido, bridas DIN

DIN 型鑄鐵仕切弁

闸阀 (DIN) 铸铁, DIN 法兰端

Cast iron gate valve with bronze seat, pressure rating PN 2.5/6/10, flanged ends acc. to DIN PN 10, bolted bonnet, inside screwed stem, non-rising stem, non-rising handwheel, solid wedge, short Face To Face acc. to EN 558-1, 14 (DIN 3202-F4). This model has standard a position indicator and drain plug.



Application: cold and hot fresh water, seawater, lubricating oil steam etc.

Pressure and Temperature Range

Bore	Stem and Hot Water	Other Media
DN 40 thru DN 300	8 bar - 150°C	10 bar - 120°C
DN 350 thru DN500	2 bar - 150°C	6 bar - 120°C
DN 600	-	2.5 bar - 120°C

Material Specification

Component	Material	EN and/or (DIN)
Body and Bonnet	Cast iron	GJL-250 (GG-25)
Body Seat Rings	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Wedge (DN40-DN100)	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Wedge (DN125-DN600)	Cast iron	GJL-250 (GG-25)
Wedge Set Rings (DN125-600)	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Stem	Brass	- (CuZn41Pb62)
Handwheel	Cast iron	- (CuZn41Pb62)
Bonnet Gasket	Novus 34	-
Gland Packing	PTFE	-
Position Indicator	Brass	- (CuZn41Pb62)

How to order: CODE

Gate valve (DIN), cast iron, DIN flanged ends, inside screwed stem, short face to face, bronze seat, with position indicator and drain plug, SIZE DN

Unit Per Pcs.

CODE	DN	Size mm					Weight Kg
		A	H	L	M	G	
75 55 71	40	150	140	255	125	-	10
	72	165	150	270	150	1/2"	12
	73	185	170	323	175	1/2"	17
	74	200	180	355	175	1/2"	22
	75	220	190	405	200	1/2"	27
75 55 76	125	250	200	460	200	1/2"	33
	77	285	210	518	225	1/2"	43
	78	340	230	608	225	3/4"	65
	79	395	250	708	250	3/4"	100
	80	445	270	818	300	3/4"	142
75 55 81	350	505	290	997	400	1"	207
	400	565	310	1,087	400	1"	246
	500	670	350	1,308	500	1"	416
	600	780	390	1,493	500	1"	624

Gate Valves (DIN)

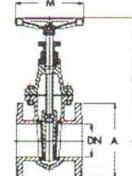
Cast Iron, DIN Flanged Ends, Inside Screwed Stem, Short Face to Face, Bronze Seat

Válvulas de compuerta (DIN) Hierro fundido, bridas DIN

DIN 型鑄鐵仕切弁

闸阀 (DIN) 铸铁, DIN 法兰端

Cast iron gate valve with bronze seat, pressure rating PN 2.5/6/10, flanged ends acc. to DIN PN 10, bolted bonnet, inside screwed stem, non-rising stem, non-rising handwheel, solid wedge, short Face To Face acc. to EN 558-1, 14 (DIN 3202-F4).



Application: cold and hot fresh water, seawater, lubricating oil steam etc.

*Drain Plug is available in option.

Pressure and Temperature Range

Bore	Stem and Hot Water	Other Media
DN 40 thru DN 300	8 bar - 150°C	10 bar - 120°C
DN 350 thru DN500	2 bar - 150°C	6 bar - 120°C
DN 600	-	2.5 bar - 120°C

Material Specification

Component	Material	EN and/or (DIN)
Body and Bonnet	Cast iron	GJL-250 (GG-25)
Body Seat Rings	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Wedge (DN40-DN100)	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Wedge (DN125-DN600)	Cast iron	GJL-250 (GG-25)
Wedge Set Rings (DN125-600)	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5)) (CuZn41Pb62)
Stem	Brass	
Handwheel	Cast iron	
Bonnet Gasket	Novus 34	
Gland Packing	PTFE	

How to order: CODE

Gate valve (DIN), cast iron, DIN flanged ends, inside screwed stem, short face to face, bronze seat, SIZE DN

Unit Per Pcs.

CODE	DN	Size mm			Weight Kg
		A	L	H	
75 56 01	40	150	140	230	125
02	50	165	150	245	150
03	65	185	170	290	175
04	80	200	180	315	175
05	100	220	190	355	200
75 56 06	125	250	200	415	200
07	150	285	210	460	225
08	200	340	230	545	225
09	250	395	250	635	250
10	300	445	270	728	300
75 56 11	350	505	290	888	400
12	400	565	310	964	400
13	500	670	350	1,150	500
14	600	780	390	1,320	500

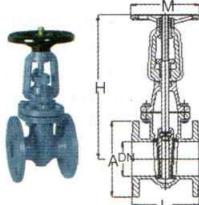
Gate Valves (DIN)**Cast Iron, DIN Flanged Ends****Outside Screw & Yoke, Short Face to Face Bronze Seat**

Válvulas de compuerta (DIN), Hierro fundido, bridas DIN

DIN 型鑄鐵仕切弁

闸阀 (DIN) 铸铁, DIN 法兰端

Cast iron gate valve with bronze seat, pressure rating PN 10, flanged ends acc. to DIN PN 10, bolted bonnet, outside screwed stem and yoke, rising stem, non-rising handwheel, solid wedge, short face to face acc. to EN 558-1, 14 (DIN 3202-F4). Purpose: cold and hot fresh water, saltwater, lubricating oil, steam etc.

**Pressure and Temperature Range**

Bore	Pressure and Temperature Range	Max. Temperature
DN 40 thru DN 300	8 bar - 150°C 10 bar - 120°C	150°C

Material Specification

Component	Material	EN and/or (DIN)
Body and Bonnet	Cast iron	GJL-250 (GG-25)
Body Seat Rings	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Wedge (DN40-DN100)	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Wedge (DN125-DN300)	Cast iron	GJL-250 (GG-25)
Wedge Set Rings (DN125-300)	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Stem	Brass	
Handwheel	Cast iron	
Bonnet Gasket	Novus 34	
Gland Packing	PTFE	

How to order: CODE

Gate valve (DIN), cast iron, DIN flanged ends, outside screw & yoke, short face to face, bronze seat, SIZE DN

Unit Per Pcs.

CODE	DN	Size mm					Weight Kg
		A	L	H	H Open	M	
75 56 15	40	150	140	265	310	150	10
16	50	165	150	275	330	150	12
17	65	185	170	335	405	175	17
18	80	200	180	355	440	175	22
19	100	220	190	400	505	200	27
75 56 20	125	250	200	495	625	200	33
21	150	285	210	585	740	225	43
22	200	340	230	700	910	225	65
23	250	395	250	830	1,090	250	100
24	300	445	270	960	1,270	300	142

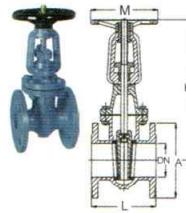
Gate Valves (DIN)**Cast Iron, DIN Flanged Ends****Outside Screw & Yoke, Short Face to Face****Bronze Seat**

Válvulas de compuerta (DIN), Hierro fundido, bridas DIN

DIN 型鑄鐵仕切弁

闸阀 (DIN) 铸铁, DIN 法兰端

Cast iron gate valves with bronze seat, pressure rating PN 10, flanged ends acc. to DIN PN 10, bolted bonnet, outside screwed stem and yoke, rising stem, non-rising handwheel, solid wedge, short face to face acc. to EN 558-1, 14 (DIN 3202-F4). This model has a double pitch threaded stem (fast opening/closing) and drain plug.



Purpose: cold and hot fresh water, saltwater, lubricating oil, steam etc.

Pressure and Temperature Range

Bore	Pressure and Temperature Range	Max. Temperature
DN 40 thru DN 300	8 bar - 150°C 10 bar - 120°C	150°C

Material Specification

Component	Material	EN and/or (DIN)
Body and Bonnet	Cast iron	GJL-250 (GG-25)
Body Seat Rings	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Wedge (DN40-DN100)	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Wedge (DN125-DN300)	Cast iron	GJL-250 (GG-25)
Wedge Set Rings (DN125-300)	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Stem	Brass	
Handwheel	Cast iron	
Bonnet Gasket	Novus 34	
Gland Packing	PTFE	

How to order: CODE

Gate valve (DIN), cast iron, DIN flanged ends, outside screw & yoke, short face to face, bronze seat, with double pitch threaded stem and drain plug SIZE DN

Unit Per Pcs.

CODE	DN	Size mm					Weight Kg
		A	L	H	M	Drain Plug	
75 56 32	50	165	150	275	150	1/2"	12
33	65	185	170	335	175	1/2"	17
34	80	200	180	355	175	1/2"	22
35	100	220	190	400	200	1/2"	27
36	125	250	200	495	200	1/2"	33
75 56 37	150	285	210	585	225	1/2"	43
38	200	340	230	700	225	3/4"	65
39	250	395	250	830	250	3/4"	100
40	300	445	270	960	300	3/4"	142

Gate Valves (DIN)

Cast Iron, DIN Flanged ends

Outside Screw & Yoke, Short Face to Face

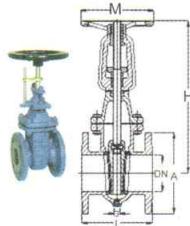
Stainless Steel Seat, Pressure Rating PN 10

Válvulas de compuerta (DIN), Hierro fundido, DIN Extremos con bridas
DIN 型鑄鐵仕切弁

闸阀 (DIN) 铸铁, DIN 法兰端

Cast iron gate valves with stainless steel seat, pressure rating PN 10, flanged ends acc. to DIN PN 10, bolted bonnet, outside screwed stem and yoke, rising stem, non-rising handwheel, solid wedge, drain plug, grease nipple, short face to face acc. to EN 558-1, 14 (DIN 3202-F4).

Application: cold and hot fresh water, lubricating oil, steam etc. Application due to the absence of cupriferous parts, these valves are especially suitable for aggressive media.



Pressure and Temperature Range

Bore	Pressure and Temperature Range	Max. Temperature
DN 40 thru DN 300	8 bar - 150°C 10 bar - 120°C	150°C

Material Specification

Component	Material	EN and/or (DIN)
Body and Bonnet	Cast iron	GJL-250 (GG-25)
Body Seats	Stainless steel	X5CrNi18-10
Wedge (DN40-DN100)	Cast steel	GP240GH + N (GS-C25N)
Wedge (DN125-DN300)	Cast iron	GJL-250 (GG-25)
Wedge Seats	Stainless steel	X5CrNi18-10
Stem	Stainless steel	X5CrNi18-10
Handwheel	Cast iron	X5CrNi18-10
Bonnet Gasket	Novus 34	
Gland Packing	PTFE	

How to order: CODE

Gate valve (DIN), cast iron, DIN flanged ends, outside screw & yoke, short face to face, stainless steel seat, SIZE DN

CODE	DN	Size mm					Weight Kg	Unit Per Pcs.
		A	L	H	M	G		
75 56 41	40	150	140	265	150	-	10	
	42	165	150	275	150	1/2"	12	
	43	185	170	335	175	1/2"	17	
	44	200	180	355	175	1/2"	22	
	45	100	220	190	400	1/2"	27	
75 56 46	125	250	200	495	200	1/2"	33	
	150	285	210	585	225	1/2"	43	
	200	340	230	700	225	3/4"	65	
	250	395	250	830	250	3/4"	100	
	300	445	270	960	300	3/4"	142	

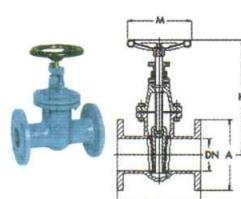
Gate Valves (DIN)

Cast Iron, DIN Flanged Ends, Inside Screwed Stem, Long Face to Face, Bronze Seat

Válvulas de compuerta (DIN), Hierro fundido, bridas DIN
DIN 型鑄鐵仕切弁

闸阀 (DIN) 铸铁, DIN 法兰端

Cast iron gate valve with brass seat, pressure rating PN 16, flanged ends acc. to DIN PN 10/16, bolted bonnet, inside screwed stem, non-rising stem, non-rising handwheel, solid wedge, long face to face acc. to EN 558-1, 15 (DIN 3202-F5).



Application: as standard, these valves can be used for cold and warm water.

Pressure and Temperature Range

Bore	Pressure and Temperature Range	Max. Temperature
DN 40 thru DN 300	16 bar - 80°C	80°C (due to NBR bonnet gasket)
For higher temperatures, use a different bonnet gasket		

Material Specification

Component	Material	EN and/or (DIN)
Body and Bonnet	Cast iron	GJL-250 (GG-25)
Body Seats	Brass	- (CuZn41Pb62)
Wedge (DN40-DN65)	Brass	- (CuZn41Pb62)
Wedge (DN80-DN300)	Cast iron	GJL-250 (GG-25)
Wedge Seats (DN80-DN300)	Brass	- (CuZn41Pb62)
Stem	Brass	- (CuZn41Pb62)
Handwheel	Cast iron	- (CuZn41Pb62)
Bonnet Gasket	NBR	
Gland Packing	PTFE	

How to order: CODE

Gate valve (DIN), cast iron, DIN flanged ends, inside screwed stem, long face to face, bronze seat, SIZE DN

CODE	DN	Size mm				Weight Kg	Unit Per Pcs.
		A	L	H	M		
75 56 51	40	150	240	230	180	10	
52	50	165	250	245	180	13	
53	65	185	270	290	225	17	
54	80	200	280	315	225	24	
55	100	220	300	355	280	31	
75 56 56	125	250	325	415	320	41	
57	150	285	350	460	320	55	
58	200	340	400	545	400	89	
59	250	395	450	635	500	140	
60	300	445	500	725	500	180	

Gate Valves (DIN)

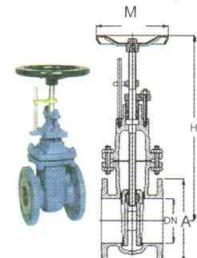
Cast Iron, DIN Flanged Ends, Inside Screwed Stem, Short Face to Face, Pressure Rating PN16

Válvulas de compuerta (DIN), Hierro fundido, bridas DIN
DIN 型鑄鐵仕切弁

闸阀 (DIN) 铸铁, DIN 法兰端

Cast steel gate valve with stainless steel seat, pressure rating PN 16, flanged ends acc. to DIN PN 16, bolted bonnet, inside screwed stem, non-rising handwheel, flexible wedge, position indicator, short face to face acc. to EN 558-1, 14 (DIN 3202-F4).

Application suitable for general applications; due to the special trim, these valves are especially suitable for seawater, and they are used aboard ships as ship-side valve and in cooling water systems.



Pressure and Temperature Range

	-10/20°C	100°C	150°C	200°C	250°C
PN 16	16 bar	16	16	13.3	12.2
	300°C	350°C	400°C	425°C	450°C
PN 16	11	10.3	9.9	9.7	9.5

Material Specification

Component	Material	EN and/or (DIN)
Body, Bonnet and Wedge	Cast steel	GP240GH + N (GS-C 25N)
Wedge Seats	Stainless steel	- (X2CrNiMo19 12)
Body Seats	Stainless steel	- (X2CrNiMo19 12)
Stem	Stainless steel	X6CrNiMoTi17-12-2
Handwheel	Steel	
Bonnet Gasket, Gland Packing (SS insert)	Graphite	
Position Indicator	Brass	

How to order: CODE

Gate valve (DIN), cast steel, DIN flanged ends, inside screwed stem, short face to face, pressure rating PN 16, SIZE DN

CODE	DN	Size mm				Weight Kg
		A	H	L	M	
75 56 72	50	165	330	150	200	16
73	65	185	390	170	200	23
74	80	200	420	180	200	26
75	100	220	440	190	200	32
76	125	250	490	200	250	39
75 56 77	125	285	580	210	250	52
78	200	340	690	230	300	84
79	250	405	860	250	400	160
80	300	460	930	270	400	190

Gate Valves (DIN)

Cast steel, DIN Flanged Ends Rising Stem,
Short Face to Face Pressure Rating PN16

Válvulas de compuerta (DIN), Acero fundido,

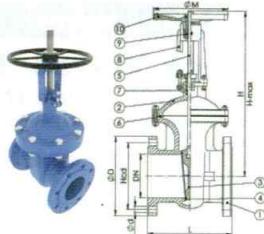
DIN Extremos con bridas

DIN 型鑄鋼仕切弁

闸阀 (DIN) 铸钢, DIN 法兰端



Cast steel body gate valve, Cast Steel wedge, Stainless Steel seat. Rising stem and bolted bonnet. Raised face flanges.

**Pressure and Temperature Range**

	-10/20°C	100°C	150°C	200°C	250°C
PN 16	16 bar	16	14	11	10
	300°C	350°C	400°C	427°C	
PN 16	8	7	5	5	

ASTM A216 WCB is not recommended for long-term duty above 427°C.

Material Specification

No	Part	Material	Code
1	Body	Cast Steel	ASTM A216-WCB
2	Bonnet	Cast Steel	ASTM A216-WCB
3	Wedge	Cast Steel	ASTM A216-WCB
4	Seat	Stainless Steel	Deposited 13Cr
5	Stem	Stainless Steel	ASTM A182-F6a
6	Bonnet Gasket	Graphite	
7	Packing	Graphite	
8	Yoke	Cast Steel	ASTM A216-WCB
9	Stem nut	Aluminium Bronze	
10	Handwheel	Cast Iron	

How to order: CODE

Gate valve (DIN), cast steel, DIN flanged ends, rising stem, short face to face, pressure rating PN16, SIZE DN

Unit Per Pcs.

CODE	DN	Size mm					Weight Kg
		Hcd	D	L	H	M	
75 56 91	40	110	150	140	300	200	26.5
82	50	125	165	150	358	240	29
83	65	145	185	170	375	240	33
84	80	160	200	180	433	280	45
85	100	180	220	190	502	320	63
75 56 86	125	210	250	200	612	380	108
87	150	240	285	210	676	380	134
88	200	295	340	230	820	400	192
89	250	355	405	250	969	450	273
90	300	410	460	270	1,142	580	379

MESON Model No.: 622.3.4.4.1

Gate Valves (DIN)

Cast Steel, DIN Flanged Ends, Rising Stem,
Long Face to Face, Pressure Rating PN 16-40

Válvulas de compuerta (DIN), Acero fundido, DIN Extremos con bridas

DIN 型鑄鋼仕切弁

闸阀 (DIN) 铸钢, DIN 法兰端

Cast steel gate valve with stainless steel seat, pressure rating PN 16, 25 and 40, flanged ends acc. to DIN PN 16 - 40, bolted bonnet with yoke, outside screwed stem and yoke, rising stem, raised face flanges, long type.

Application:

Corrosive fluids, Steam, Thermal oil, Fuel oil, Lubricating oil, Flammable hydraulic oil, Cargo oil, Non-flammable hydraulic fluid, Boiler feedwater, Condensate, Sea water,

Pressure and Temperature Range

Pressure Rating	0/50°C	100°C	150°C	200°C	250°C	300°C	350°C	375°C	427°C
PN16	16 bar	14	13	11	10	8	7	6	5
PN25	25 bar	23	21	19	17	14	13	12	10

ASTM A216 WCB is not recommended for long-term duty above 427°C

Material Specification

Component	Material	Code	
		Body	Bonnet
Wedge	Cast Steel	ASTM A216-WCB	ASTM A216-WCB
Seat	Stainless Steel	Deposited 13Cr	ASTM A182-F6a
Stem	Stainless Steel		
Bonnet Gasket	Graphite		
Packing	Graphite		
Yoke	Cast Steel		
Stem nut	Aluminium Bronze		
Handwheel	Cast Iron		

How to order: CODE

Gate valve (DIN), cast steel, DIN flanged ends, rising stem, long face to face, PRESSURE RATING PN, SIZE DN

PN 16

CODE	DN	Size mm					Weight Kg
		Hcd	D	L	H	M	
75 57 09	50	125	165	250	358	240	29
01	65	145	185	270	375	240	33
02	80	160	200	280	433	280	45
03	100	180	220	300	502	320	63
04	125	210	250	325	612	360	108
75 57 05	150	240	285	350	676	360	134
06	200	295	340	400	820	400	192
08	300	410	460	500	1,142	560	379

MESON Model No.: 623.3.4.4.1

PN 25

CODE	DN	Size mm					Weight Kg
		Hcd	Kg	L	H	M	
75 57 19	50	125	165	250	358	240	28
12	80	160	200	280	433	280	46
13	100	190	235	300	502	320	64
14	125	220	270	325	612	360	116
15	150	250	350	350	676	360	141
75 57 16	200	310	360	400	820	400	213
17	250	370	425	450	969	450	290

MESON Model No.: 623.3.4.4.1

PN 40

CODE	DN	Size mm					Weight Kg
		Hcd	D	L	H	M	
75 57 34	50	125	165	250	372	280	32
21	65	145	185	290	395	280	39
22	80	160	200	310	457	320	52
23	100	190	235	350	552	360	80
24	125	220	270	400	634	400	127
75 57 25	150	250	300	450	708	400	154
26	200	320	375	550	858	450	263

MESON Model No.: 623.3.4.4.1

DIN Check Valves

Check Valves (DIN)

Bronze, BSP Female Threaded Ends, Lift Type

Válvulas de retención (DIN), Bronce, extremos roscados hembra BSP Tipo de elevación

逆止弁 (DIN) 青銅、BSP 雌ネジ端 リフトタイプ

止回阀 (DIN) 青铜

英制锥螺纹内螺纹端 提升式

Bronze check valves for horizontal installation.



Pressure and Temperature Range

Model	Pressure and Temperature Range		
500BR	16 bar - 120°C	12 bar - 200°C	
500TE	16 bar - 120°C	10 bar - 185°C	

Material Specification

Component	Material	EN and/or (DIN)		
Body	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))		
Disc and Bonnet	Brass	(CuZn41Pb62)		
Gasket	Asbestos-free			
Disc Ring (500TE)	PTFE			

How to order: CODE

Check valve (DIN), bronze, BSP female threaded ends, lift type, SIZE DN

Unit Per Pcs.

Max. 200°C at 12 bar			Max. 185°C at 10 bar			Weight Kg
CODE	DN	Size mm L H	CODE	DN	Size mm L H	
75 57 51	1/4"	50 37	75 57 61	1/4"	50 37	0.3
52	3/8"	50 38	62	3/8"	50 38	0.3
53	1/2"	60 39	63	1/2"	60 39	0.4
54	3/4"	70 48	64	3/4"	70 48	0.5
55	1"	80 53	65	1"	80 53	0.8
75 57 56	1-1/4"	95 56	75 57 66	1-1/4"	95 56	1.2
57	1-1/2"	105 63	67	1-1/2"	105 63	1.6
58	2"	130 72	68	2"	130 72	2.5
59	2-1/2"	163 100	69	2-1/2"	163 100	5.2
60	3"	185 110	70	3"	185 110	6.0

Check Valves (DIN)

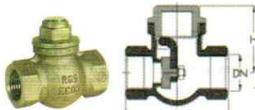
Bronze, BSP Female Threaded Ends, Swing Type

Válvulas de retención (DIN), Bronce, extremos roscados hembra BSP, tipo pivotante

逆止弁 (DIN) 青銅、BSP 雌ネジ端、スイングタイプ

止回阀 (DIN) 青铜，英制锥螺纹内螺纹端，摆动

Bronze check valves for horizontal and vertical (upward flow) installation.



Pressure and Temperature Range

Type	Pressure and Temperature Range		
Metal Seated	16 bar - 120°C	12 bar - 200°C	
PTFE Disc Seal	16 bar - 120°C	10 bar - 185°C	

Material Specification

Component	Material	EN and/or (DIN)		
Body	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))		
Disc and Bonnet	Brass	(CuZn41Pb62)		
Gasket	Asbestos-free			
Disc Ring (505TE)	PTFE			

How to order: CODE

Check valve (DIN), bronze, BSP female threaded ends, swing type, SIZE DN

Metal Seated			PTFE Disc Seal			Weight Kg
CODE	D	Size mm L H	CODE	D	Size mm L H	
75 57 71	3/8"	50 35	75 57 81	3/8"	50 35	0.3
72	1/2"	60 38	82	1/2"	60 38	0.4
73	3/4"	70 49	83	3/4"	70 49	0.5
74	1"	80 54	84	1"	80 54	0.8
75	1-1/4"	95 60	85	1-1/4"	95 60	1.1
75 57 76	1-1/2"	105 70	75 57 86	1-1/2"	105 70	1.5
77	2"	130 77	87	2"	130 77	2.1
78	2-1/2"	160 94	88	2-1/2"	160 94	4.6
79	3"	185 130	89	3"	185 130	6.9

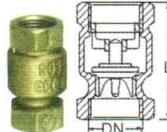
Check Valves (DIN)

Bronze, BSP Female Threaded Ends, Vertical Installation

Válvulas de retención (DIN), Bronce, extremos roscados hembra BSP, instalación vertical

逆止弁 (DIN), ブロンズ、BSP 雌ネジ端、垂直設置
止回阀 (DIN) 青铜，英制锥螺纹内螺纹端，垂直安装

Bronze check valves with BSP female threaded ends, only suitable for vertical (upward flow) installation.



Pressure and Temperature Range

16 bar - 120°C
12 bar - 200°C

Material Specification

Component	Material	EN and/or (DIN)		
Body	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))		
Disc and Disc Guide	Brass	(CuZn41Pb62)		

How to order: CODE

Check valve (DIN), bronze, BSP female threaded ends, Vertical installation, SIZE DN

Unit Per Pcs.

CODE	D	L mm	Weight Kg	CODE	D	L mm	Weight Kg
75 57 91	3/8"	55	0.18	75 57 95	1-1/4"	80	0.6
92	1/2"	55	0.18	96	1-1/2"	85	0.85
93	3/4"	65	0.25	97	2"	112	1.45
94	1"	72	0.38				

Check Valves (DIN)

Bronze, DIN Flanges, Lift Type, Straight and Angle

Válvulas de retención (DIN), Bronce, bridas DIN, tipo elevador, rectas y en ángulo

逆止弁 (DIN), 青銅、DIN フランジ、リフトタイプ、ストレート及びアングル

止回阀 (DIN) 青铜，DIN 法兰，提升式，直通式和角式

Bronze lift type check valves with bronze disc and seat, pressure rating PN 16, straight and angle pattern, flat faced flanges as per DIN PN 16 and bolted bonnet. Only suitable for installation in horizontal pipelines. These check valves offer very good resistance to the corrosive action of seawater, fresh water and waste water.

Application area: aboard ships but also in installations where corrosion (in- or external) is undesirable.



Straight



Angle

Pressure and Temperature Range

Pressure Rating	Pressure and Temperature Range	Max. Temperature
PN 16	16 bar - 120°C 12 bar - 200°C	200°C 200°C

Material Specification

Component	Material	EN and/or (DIN)
Body	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Disc	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Bonnet	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Bonnet Gasket	Graphite	

How to order: CODE

Check valve (DIN), bronze, DIN flanges, lift type, STRAIGHT or ANGLE, SIZE DN

Straight Type

CODE	DN	Size mm			Weight Kg	Unit Per Pc.
		A	L	H		
75 58 11	15	95	120	65	3.5	
	12	105	120	65	4.2	
	13	115	140	75	5.0	
	14	140	150	75	6.8	
	15	150	155	95	8.4	
75 58 16	50	165	180	105	10.2	
	17	185	200	120	21.3	
	18	200	240	130	26.5	
	19	220	270	160	34.0	
	20	250	320	175	50.0	
75 58 21	150	285	370	195	62	

Angle Type

CODE	DN	Size mm			Weight Kg	Unit Per Pc.
		A	L1	H		
75 58 25	15	95	65	55	3.3	
	20	105	65	55	4.6	
	25	115	70	65	4.8	
	32	140	90	65	6.4	
	40	150	90	80	8.6	
75 58 30	50	165	105	85	11.1	
	65	185	115	95	20.3	
	80	200	125	100	25.0	
	100	220	145	120	33.0	
	125	250	170	135	43.0	
75 58 35	150	285	200	150	63	

Check Valves (DIN)

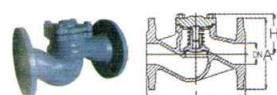
Cast Iron, DIN Flanges, Lift Type with Spring
Stainless Steel Seat/Straight and Angle

Válvulas de retención (DIN), Hierro fundido, bridas DIN, tipo elevador con muelle
逆止弁 (DIN), 鋳鉄、DIN フランジ、バネ付きリフトタイプ
止回阀 (DIN) 铸铁, DIN 法兰, 提升式, 带弹簧

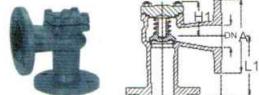
Cast iron lift type check valves with stainless steel disc and seat, spring loaded disc, pressure rating PN 16, straight and angle pattern with bolted bonnet, flanged connection acc. to DIN PN 16. Suitable for horizontal and vertical (rising flow) installation.

Application area: general industrial use.

Purpose: cold and hot water, air, gases, steam and other neutral media.



Straight



Angle

Pressure and Temperature Range

	-10/120°C	150°C	180°C	200°C
PN 16	16 bar	14.4	13.4	12.8
	230°C	250°C	300°C	
PN 16	11.8	11.2	9.6	

Material Specification

Component	Material	EN and/or (DIN)
Body	Cast iron	GJL-250 (GG-25)
Bonnet	Cast iron	GJL-250 (GG-25)
Disc	Stainless steel	X20Cr13
Spring	Stainless steel	X17CrNi16-2 (X20CrNi17 2)
Seat	Stainless steel	X12Cr13 (X10Cr13)
Stem	Stainless steel	X20Cr13
Bonnet Gasket (SS insert)	Graphite	

How to order: CODE

Check valve (DIN), cast iron, DIN flanges, lift type with spring, Stainless steel seat, STRAIGHT or ANGLE, SIZE DN

Straight Type

CODE	DN	Size mm			Weight Kg	Unit Per Pc.
		A	L	H		
75 58 41	15	95	130	56	2.1	
	20	105	150	56	2.7	
	25	115	160	67	3.8	
	32	140	180	76	5.5	
	40	150	200	89	7.4	
75 58 46	50	165	230	96	9.5	
	65	185	290	104	15	
	80	200	310	124	20	
	100	220	350	161	29	
	125	250	400	174	41	
75 58 51	150	285	480	197	66	
	200	340	600	248	111	
	250	405	730	333	196	
	300	460	800	375	302	

Angle Type

CODE	DN	Size mm			Weight Kg	Unit Per Pc.
		A	L1	H1		
75 58 55	15	95	90	50	2.2	
	20	105	95	47	2.8	
	25	115	100	57	3.9	
	32	140	105	60	5.5	
	40	150	115	70	7.0	
75 58 60	50	165	125	73	9.2	
	65	185	145	79	12.0	
	80	200	155	77	17.2	
	100	220	175	112	25.0	
	125	250	200	119	36.0	
75 58 65	150	285	225	123	55	
	200	340	275	157	97	

Check Valves (DIN)

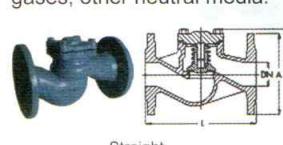
Cast Iron, DIN Flanges, Lift Type with Spring
Bronze Seat/Straight and Angle

Válvulas de retención (DIN), Hierro fundido, bridas DIN, tipo elevador con muelle
逆止弁 (DIN), 鋳鉄、DIN フランジ、バネ付きリフトタイプ
止回阀 (DIN) 铸铁, DIN 法兰, 提升式, 带弹簧

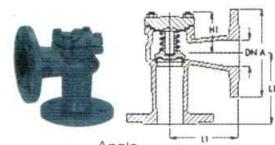
Cast iron lift type check valves with zinc-free bronze disc and seat, spring loaded disc, pressure rating PN 16, straight and angle pattern with bolted bonnet, flanged connection acc. to DIN PN 16. Suitable for horizontal and vertical (upward flow) installation.

Application area : maritime use in particular, due to the zinc free bronze trim.

Application: in particular for cold and warm (sea) water, air, gases, other neutral media.



Straight



Angle

Pressure and Temperature Range

	-10/120°C	150°C	180°C	200°C	225°C
PN 16	16 bar	14.4	13.4	12.8	12

Material Specification

Component	Material	EN and/or (DIN)
Body	Cast iron	GJL-250 (GG-25)
Bonnet	Cast iron	GJL-250 (GG-25)
Disc	Zinc-free bronze	CuSn10-Cu (G-CuSn10)
Spring	Zinc-free bronze	
Seat	Zinc-free bronze	CuSn10-Cu (G-CuSn10)
Stem	Zinc-free bronze	CuSn10-Cu (G-CuSn10)
Bonnet Gasket (SS insert)	Graphite	

How to order: CODE

Check valve (DIN), cast iron, DIN flanges, lift type with spring, Bronze seat, STRAIGHT or ANGLE, SIZE DN

Straight Type

CODE	DN	Size mm			Weight Kg	Unit Per Pcs.
		A	L	H		
75 58 71	15	95	130	56	2.1	
	20	105	150	56	2.7	
	25	115	160	67	3.8	
	32	140	180	76	5.5	
	40	150	200	89	7.4	
75 58 76	50	165	230	96	9.5	
	65	185	290	104	15	
	80	200	310	124	20	
	100	220	350	161	29	
	125	250	400	174	41	
75 58 81	150	285	480	197	66	
	200	340	600	248	111	
	250	405	730	333	196	
	300	460	800	375	302	

Angle Type

CODE	DN	Size mm			Weight Kg	Unit Per Pcs.
		A	L1	H1		
75 58 85	15	95	90	50	2.2	
	20	105	95	47	2.8	
	25	115	100	57	3.9	
	32	140	105	60	5.5	
	40	150	115	70	7.0	
75 58 90	50	165	125	73	9.2	
	65	185	145	79	12.0	
	80	200	155	77	17.2	
	100	220	175	112	25.0	
	125	250	200	119	36.0	
75 58 95	150	285	225	123	55	
	200	340	275	157	97	

Check Valves (DIN)

Cast Iron, DIN Flanges, Swing Type, Bronze Disc Seat, Pressure Rating PN 10 - 16

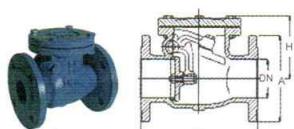
Válvulas de retención (DIN), Hierro fundido, Bridas DIN, Tipo pivotante, Asiento de disco de bronce

逆止弁 (DIN) 鋳鉄、DIN フランジ、スイングタイプ、

青銅製ディスクシート

止回阀 (DIN) 铸铁, DIN 法兰, 摆动式, 青铜盘座

Cast iron swing type check valves, bronze seat or rubber seal, pressure rating PN 10/16, straight pattern, full bore, bolted bonnet, flanges acc. to DIN PN 10/16 and flange drilling acc. to DIN PN 10/16. Suitable for horizontal and vertical (upward flow) installation.



Application area: cold and hot water, fresh and seawater.

Pressure and Temperature Range

Size	Pressure and Temperature Range
DN 40 - DN 150	16 bar - 120°C
DN 200 - DN 300	10 bar - 120°C
Max. Temperature	120°C

Material Specification

Component	Material	EN and/or (DIN)
Body	Cast iron	GJL-250 (GG-25)
Bonnet	Cast iron	GJL-250 (GG-25)
Seat	Bronze	CuSn5ZnPb5-C (G-CuSn5ZnPb (Rg 5))
Hinge Pin	Brass	CuZn40Pb2
Hinge Arm	Cast iron	GJL-250 (GG-25)
Disc (DN40-DN125)	Bronze	CuSn5ZnPb5-C (G-CuSn5ZnPb (Rg 5))
Disc (DN150-DN300)	Cast iron	GJL-250 (GG-25)
Disc Seal	Rubber	CuSn5ZnPb5-C (G-CuSn5ZnPb (Rg 5))
Bonnet Gasket	Novus 34	

How to order: CODE

Check valve (DIN), cast iron, DIN flanges, swing type, Bronze disc seat, SIZE DN

CODE	DN	Size mm			Weight	Unit Per Pcs.
		A	L	H		
75 59 01	40	150	180	115	8	
	50	165	200	125	10	
	65	185	240	130	15	
	80	200	260	140	20	
	100	220	300	160	26	
	125	250	350	180	35	
	150	285	400	200	48	
	200	340	500	220	72	
	250	392	600	290	135	
	300	445	700	330	196	

Check Valves (DIN)

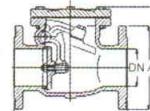
Cast Iron, DIN Flanges, Swing Type, Rubber Disc Seal, Pressure Rating PN 10 - 16

Válvulas de retención (DIN), Hierro fundido, Bridas DIN, Tipo pivotante, Sello de disco de goma

逆止弁 (DIN) 鋳鉄、DIN フランジ、スイングタイプ、ゴム製ディスクシール

止回阀 (DIN) 铸铁, DIN 法兰, 摆动式, 橡胶盘密封

Cast iron swing type check valves, bronze seat or rubber seal, pressure rating PN 10/16, straight pattern, full bore, bolted bonnet, flanges acc. to DIN 10/16 and flange drilling acc. to DIN 10/16. Suitable for horizontal and vertical (upward flow) installation.



Application area: cold and hot water, fresh and seawater.

Pressure and Temperature Range

Size	Pressure and Temperature Range
DN 40 - DN 150	16 bar - 80°C
DN 200 - DN 300	10 bar - 80°C
Max. Temperature	80°C

Material Specification

Component	Material	EN and/or (DIN)
Body	Cast iron	GJL-250 (GG-25)
Bonnet	Cast iron	GJL-250 (GG-25)
Seat	Bronze	CuSn5ZnPb5-C (G-CuSn5ZnPb (Rg 5))
Hinge Pin	Brass	CuZn40Pb2
Hinge Arm	Cast iron	GJL-250 (GG-25)
Disc (DN40DN125)	Bronze	CuSn5ZnPb5-C (G-CuSn5ZnPb (Rg 5))
Disc (DN150-DN300)	Cast iron	GJL-250 (GG-25)
Disc Seal	Rubber	CuSn5ZnPb5-C (G-CuSn5ZnPb (Rg 5))
Bonnet Gasket	Novus 34	

How to order: CODE

Check valve (DIN), cast iron, DIN flanges, swing type, rubber disc seal, SIZE DN

CODE	DN	Size mm			Weight Kg
		A	L	H	
75 59 11	40	150	180	115	8
12	50	165	200	125	10
13	65	185	240	130	15
14	80	200	260	140	20
15	100	220	300	160	26
75 59 16	125	250	350	180	35
17	150	285	400	200	48
18	200	340	500	220	72
19	250	395	600	290	135
20	300	445	700	330	196

Check and Storm Valves (DIN)

Cast Steel, DIN Flanges

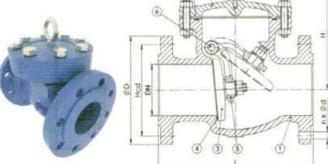
Pressure Rating PN 16

Válvulas antirretorno y antitormenta (DIN)

逆止弁および波止弁 (DIN)

止回阀和防暴阀 (DIN)

Cast steel body, full bore swing check valve with cast steel disc and stainless steel seat. Raised face flanges. Pressure rating is PN16. Suitable for horizontal and vertical (upward flow) installation.



Application: Fuel oil, Lubricating oil, Flammable hydraulic oil, Cargo oil, Non-flammable hydraulic fluid, Boiler feedwater, Condensate, Sea water, Water.

Pressure and Temperature Range

	-10/20°C	100°C	150°C	200°C	250°C
PN 40	40 bar	37.3	34.7	30.2	28.4
	300°C	350°C	400°C	427°C	
PN 40	25.8	24	23.1	21.1	

ASTM A216 WCB is not recommended for long-term duty above 427°C

Material Specification

Component	Material	EN and/or (DIN)
Body	Cast Steel	ASTM A216
Bonnet	Cast Steel	ASTM A216
Disc	Cast Steel	ASTM A216
Seat	Stainless steel	Deposited 13Cr
Hinge	Cast Iron	ASTM A216-WCB
Hinge pin	Stainless Steel	ASTM A276-420
Gasket	Graphite	

How to order: CODE

Check and storm valve (DIN), cast steel, DIN flanges, pressure rating PN 16, STRAIGHT or ANGLE, SIZE DN

Straight Type

CODE	DN	Size mm			Weight Kg	
		Hcd	D	L		
75 59 25	40	110	150	180	130	18.0
26	50	125	165	200	135	21.0
27	65	145	185	240	142	28.0
28	80	160	200	260	165	38.0
29	100	180	220	300	180	58.0
75 59 30	125	210	250	350	210	92.0
31	150	240	285	400	233	130
33	200	295	340	500	304	210
90	250	355	405	600	348	294
91	300	410	460	700	390	367
75 59 93	400	525	580	900	468	461

MESON Model No.: 311.3.4.4.1

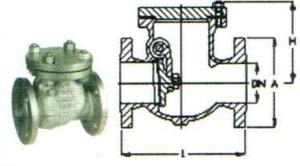
Check Valves (DIN)

Cast Steel, DIN Flanges, Swing Type

Pressure Rating PN 16

Válvulas de retención (DIN), Acero fundido, Bridas DIN, Tipo pivotante
逆止弁 (DIN) 鋳鋼、DIN フランジ、スイングタイプ
止回阀 (DIN) 铸钢, DIN 法兰, 摆动式

Cast steel swing type check valves, stainless steel disc and seat, pressure rating DIN PN 16, straight pattern with bolted bonnet, full bore, flanged acc. to DIN PN 16. Suitable for horizontal and vertical (upward flow) installation.



Application: general industrial use, such as hot water installations, aboard ships for ships side, etc.

Pressure and Temperature Range

	20°C	50°C	100°C	150°C	200°C
PN 16	16 bar	14.9	13.6	12.7	11.4
	250°C	300°C	350°C	375°C	400°C
PN 16	10.4	9.4	8.8	8.6	8.4

Material Specification

Component	Material	EN and/or (DIN)
Body	Cast steel	GP240GH (GS-C25)
Bonnet	Cast steel	GP240GH (GS-C25)
Seat	Stainless steel	X20Cr13
Disc	Stainless steel	X20Cr13
Hinge Pin	Stainless steel	X20Cr13
Hinge Arm	Cast steel	GP240GH (GS-C25)
Bonnet Gasket (SS insert)	Graphite	

How to order: CODE

Check valve (DIN), cast steel, DIN flanges, swing type, Pressure rating PN 16, SIZE DN

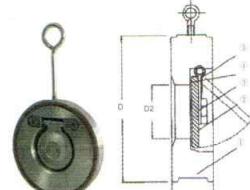
CODE	DN	Size mm			Weight Kg
		A	L	H	
75 59 52	50	165	200	150	18
53	65	185	240	180	25
54	80	200	260	200	29
55	100	220	300	225	39
56	125	250	350	270	60
75 59 57	150	285	400	300	82
58	200	340	500	355	151
59	250	405	600	390	215
60	300	460	700	445	290

Carbon Steel Check Valves

Wafer Style Long PN16, Series No.4012

Válvulas antirretorno de acero al carbono
铸鋼チエッキ弁 碳钢止回阀

For mounting between flanges according to DIN 2501-PN16.



Material	Part No.	Material	Code
1. Body		Carbon Steel	GSC-25N
2. Disc		Stainless Steel	AISI 316L
3. Arm		Stainless Steel	AISI 316L
4. Seat		Viton	FKM
5. Spring		Stainless Steel	AISI 316L

Pressure

Size DN	Nominal Pressure	Hydraulic Inspection	
		PN	Body
40 to 200	16	25	16
250 to 500	10	16	10

CODE	DN	Size mm			Weight Kg
		A	L	H	
75 59 61	50	45	109	33	1.8
62	65	48	129	43	2.4
63	80	51	144	52	3.2
64	100	57	164	76	5.4
65	125	64	194	95	7.3
75 59 66	150	70	220	121	9.2
67	200	73	275	164	14.6
68	250	79	331	194	23.6
69	300	86	386	241	34.4
70	350	108	446	267	75.0
75 59 71	400	108	498	318	91.0
72	450	108	558	356	100.0
73	500	140	620	387	154.0

Name of Mfr.: World Wide Metric

Bronze Swing Check Valves

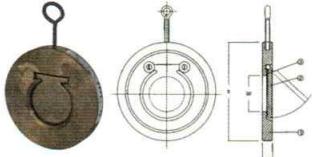
Wafer Style Short PN16, Series No.4022

Válvulas antirretorno de charnela de bronce

青铜製スイングチャックバルブ

青铜旋启式止回阀

For mounting between flanges according to DIN2501-PN16



Material

Part No.	Material	Code
1. Body	Gunmetal	DIN 1705
2. Disc	Gunmetal	DIN 1705
3. Seat	NBR	NBR

Pressure

Size DN	Nominal Pressure	Hydraulic Inspection	
		PN	Body
40 to 200	16	25	16
250 to 500	10	16	10

CODE	DN	Size mm			Weight Kg
		L	D	D2	
75 59 76	40	16	94	26	0.9
77	50	19	109	26	0.9
78	65	19	129	38	1.3
79	80	19	144	47	1.5
80	100	19	164	70	2.0
75 59 81	125	19	195	92	3.0
82	150	19	221	114	4.8
83	200	29	276	143	11
84	250	29	330	190	15
85	300	38	386	214	25
75 59 86	350	44	446	263	37
87	400	51	498	305	55
88	450	60	558	342	65
89	500	64	620	400	105

Name of Mfr.: World Wide Metric

The following optional material for each part are available on your selection;

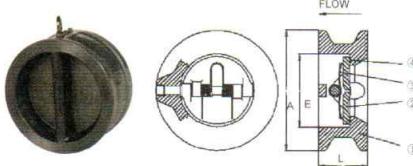
Part No.	Material	Code
1. Body	Gunmetal Stainless Steel	DIN 1705 AISI 316L
2. Disc	Gunmetal Stainless Steel	DIN 1705 AISI 316L
3. Seat	NBR EPDM Viton Teflon	NBR EPDM FKM PTFE

Duo Check Valves

Cast Iron & Cast Steel, Series No.4101 & 4111

Válvulas antirretorno Duo, Hierro fundido y acero fundido

铸铁・铸钢デュオチェックバルブ 双止回阀，铸铁和铸钢



Material

Part No.	Cast Iron (#4101)		Cast Iron (#4111)	
	Material	Code	Material	Code
1. Body	Cast Iron	GG25	Cast Steel	GSC-25N
2. Disc	Bronze	RG5	Stainless Steel	316
3. Spring	Stainless Steel	316	Stainless Steel	316
4. Seat Ring	NBR Viton	NBR	NBR	NBR

Cast Iron (Series 4101)

CODE	DN	Size mm			Weight Kg
		L	A	E	
75 60 71	50	43	105	54	2.7
72	65	46	124	67	4.5
73	80	64	136	79	5.9
74	100	64	174	105	7.7
75	125	70	196	130	12
75 60 76	150	76	222	155	16
77	200	89	279	209	32
78	250	114	340	257	48
79	300	114	410	308	78
80	350	127	451	358	91
75 60 81	400	140	514	409	125
82	450	152	549	460	143
83	500	152	606	511	197

Name of Mfr.: World Wide Metric

*According to DIN3202 Series 16.

Cast Iron (Series 4111)

CODE	DN	Size mm			Weight Kg
		L	A	E	
75 60 86	50	60	105	54	2.7
87	65	67	124	67	4.5
88	80	73	136	79	5.9
89	100	73	174	105	7.7
90	125	86	196	130	12
75 60 91	150	98	222	155	16
92	200	127	279	209	32
93	250	146	340	257	48
94	300	181	410	308	78
95	350	184	451	358	91
75 60 96	400	190	514	409	125
97	450	203	549	460	143
98	500	212	606	511	197

Name of Mfr.: World Wide Metric

*According to API609.

DIN Fire and Deckwash Valves

Firefighting and Deckwash Valves (DIN)

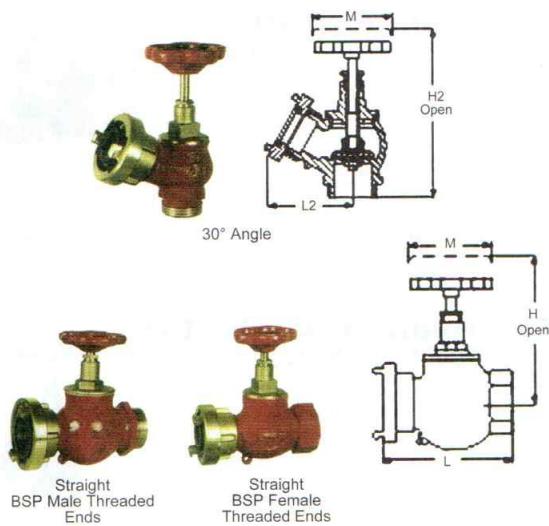
Bronze, BSP Threaded

Válvulas contra incendios y de lavado de cubiertas (DIN)

消防及び甲板洗浄弁 (DIN)

消防和甲板清洗阀门 (DIN)

Fire fighting valves with threaded ends are available in two patterns; straight and 30° angled, with BSP threaded inlet. These valves all feature a threaded bonnet.



Pressure and Temperature Range: 16 bar - 60°C

Material Specification

Component	Material	EN and/or (DIN)
Body	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Bonnet	Brass	CuZn39Pb3
Stem, Disc, Coupling	Brass	CuZn35Ni3Mn2AlPb (CuZn35Ni)
Disc, Sealing Ring	NBR	
Handwheel	Cast iron	GJL-200 (GG-20)

How to order: CODE

Firefighting and deckwash valve (DIN), Bronze, BSP threaded, STRAIGHT TYPE or 30°, ANGLE TYPE, SIZE DN

30° Angle Type

Unit Per Pcs.

CODE	DN	Size mm			Cam Distance	Weight kg
		L2	H2	M		
75 60 01	1"	84	145	80	31	1.0
02	1-1/4"	87	160	80	44	1.9
03	1-1/2"	100	190	100	52	2.6
05	2"	120	200	120	81	3.5
06	2-1/2"	127	240	120	81	4.3
75 60 07	3"	157	275	140	89	6.9

Straight Type with BSP Male Threaded Ends

Unit Per Pcs.

CODE	DN	Size mm			Cam Distance	Weight Kg
		L	H	M		
75 60 11	1"	118	110	80	31	1.0
12	1-1/4"	130	125	80	44	1.9
13	1-1/2"	138	140	100	52	2.7
15	2"	176	160	120	81	3.7
16	2-1/2"	212	195	120	81	5.5
75 60 17	3"	225	200	140	89	8.0

Straight Type with BSP Female Threaded Ends

Unit Per Pcs.

CODE	Inch	Size mm			Cam Distance	Weight Kg
		L	H	M		
75 60 21	1"	118	110	80	31	1.0
22	1-1/4"	130	125	80	44	1.9
23	1-1/2"	138	140	100	52	2.7
25	2"	176	160	120	81	3.7
26	2-1/2"	212	195	120	81	5.5
75 60 27	3"	225	200	140	89	8.0

Firefighting and Deckwash Valves (DIN)

Bronze, DIN Flanged, Globe Type, Threaded Bonnet Pressure Rating PN 16

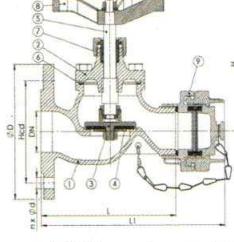
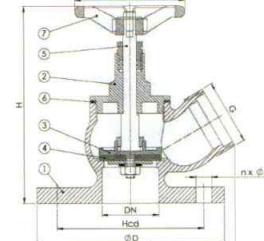
Válvulas contra incendios y de lavado de cubiertas (DIN)

消防及び甲板洗浄弁 (DIN)

消防和甲板清洗阀门 (DIN)

Flanged fire fighting valves are available in two patterns; straight and 30°angled with PN 16 flanged inlet. Designed for straight hose connection and has a rising stem with a bolted bonnet. The inlet has a raised face flange, and the outlet is threaded with BSP male thread. Comes with a Storz-C coupling, cap and chain.

Applications: Sea water, Water



Pressure and Temperature Range: PN16 maximum + 60°C

Material Specification

Component	Material	EN and/or (DIN)
Body	Bronze	CC491L
Bonnet	Bronze	CC491L
Stem	Bronze	CW710R
Disc	Bronze	CW710R
Disc sealing ring	Rubber	NBR

How to order: CODE

Firefighting and deckwash valve (DIN), bronze, DIN flanged, globe type, threaded bonnet, pressure rating PN 16, TYPE, SIZE DN

30° Angle Type

Unit Per Pcs.

CODE	DN	Size mm					Weight Kg
		Hcd	D	L	H	M	
75 60 33	40	110	150	80	165	130	3.4
34	50	125	165	100	195	140	4.4
36	65	145	185	105	230	150	5.4

MESON Model No.: 470.5.6.5.5

Straight Type

Unit Per Pcs.

CODE	DN	Size mm					Weight Kg
		Hcd	D	L	H	M	
75 60 44	50	125	165	165	181	140	7.0
46	65	145	185	200	185	150	10.9

MESON Model No.: 470.5.6.5.1

Firefighting and Deckwash Valves (DIN)

Bronze, DIN Flanged, Globe Type, Bolted Bonnet Pressure Rating PN 16

Válvulas contra incendios y de lavado de cubiertas (DIN)

消防及び甲板洗浄弁 (DIN)

消防和甲板清洗阀门 (DIN)

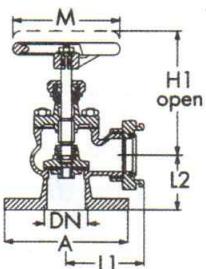
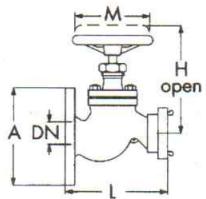
Flanged fire fighting valves are available in two patterns; straight and 30° angled with PN 16 flanged inlet. All valves are fitted with a "Storz" coupling on the outlet.



Straight



Angle



Pressure and Temperature Range: 16 bar - 60°C

Material Specification

Component	Material	EN and/or (DIN)
Body, Bonnet	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Stem, Disc, Coupling	Brass	CuZn35Ni3Mn2AlPb (CuZn35Ni)
Disc, Sealing Ring	NBR	CuSn5Zn5Pb5-C (G-CuSn5ZnPb)
Handwheel	Bronze	(Rg 5))

How to order: CODE

Firefighting and deckwash valve (DIN), bronze, DIN flanged, globe type, bolted bonnet, pressure rating PN 16, STRAIGHT or ANGLE, SIZE DN

Straight Type

CODE	DN	Size mm				Weight Kg	Unit Per Pcs.
		A	L	H	M		
75 60 51	40	150	168	160	140	6.0	
52	50	165	185	175	140	6.5	
53	65	185	222	205	160	10.4	

Angle Type

CODE	DN	Size mm					Weight Kg	Unit Per Pcs.
		A	L1	L2	H1	M		
75 60 55	40	150	82	70	150	140	4.8	
56	50	165	96	75	150	140	5.8	
57	65	185	117	90	200	160	10.4	

Fire Hydrant (DIN)

Brass, BSP Threaded AB510

Boca de incendios (DIN)
消火栓 (DIN) 消防栓 (DIN)

CODE	Nom. Size	Male Thread x Female Thread	Item No.	Unit Per Pcs.
75 60 54	DN50	2"	AB510050	
58	DN65	2-1/2"	AB510065	

Name of Mfr.: Alligator

Fire Hydrant (DIN)

Brass, BSP Male Threaded and Flanged, AB520



Boca de incendios (DIN)

消火栓 (DIN) 消防栓 (DIN)

Flange is undrilled.

CODE	Nom. Size	Thread Size	Flange Diam.	Item No.	Unit Per Pcs.
75 60 59	DN40	1-1/2" BSP male	150 mm	AB520038	
60	DN50	2" BSP male	165 mm	AB520050	
70	DN65	2-1/2" BSP male	185 mm	AB520065	

Name of Mfr.: Alligator

Fire Hydrant, Angle (DIN)

Brass, BSP Male Threaded End AB530



Boca de incendios, ángulo (DIN)

消火栓、アングル (DIN) 角式消防栓 (DIN)

75 60 84	Fire hydrant, DIN, Brass, Angle, DN 50, 2" BSP male threaded end, AB530050	Pcs.
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Name of Mfr.: Alligator

Fire Hydrant, Angle (DIN)

Brass, Flanged End and BSP Male Threaded End, AB550



Boca de incendios, ángulo (DIN)

消火栓、アングル (DIN) 角式消防栓 (DIN)

Flange is undrilled.

CODE	Nom. Size	Flange Diam.	Thread Size	Item No.	Unit Per Pcs.
75 60 85	DN38	150 mm	1-1/2" BSP male	AB520038	
99	DN50	165 mm	2" BSP male	AB520050	

75 61 00	DN65	185 mm	2-1/2" BSP male	AB520065
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Name of Mfr.: Alligator

Sealing Cap with Chain

"Storz" blind cap for Firefighting and Deckwash Valves (DIN)



Tapa selladora con cadena para válvulas para extinción de fuegos y limpieza de cubiertas Storz DIN

"STORZ" DIN 型消防及甲板洗净用キャップ

"STORZ" DIN 型灭火及甲板洗涤阀盖

Sealing Cap with Chain is available in "Storz" system, suitable for firefighting and deckwash applications.

Available in Brass and Aluminium body.

Please specify the size and material when ordering.

How to order: CODE

Sealing Cap with Chain, "STORZ" blind cap for Firefighting and deckwash valve, BRASS or ALUMINIUM, SIZE

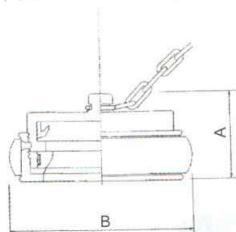
CODE	Lug Distance (Reported)	Material	Material Chain	Unit Per Pcs.
75 60 08	31 mm	Brass	Stainless Steel	
09	44 mm	Brass	Stainless Steel	
10	51 mm	Brass	Stainless Steel	
18	66 mm	Brass	Stainless Steel	
19	81 mm	Brass	Stainless Steel	
20	89 mm	Brass	Stainless Steel	
28	133 mm	Brass	Stainless Steel	
75 60 29	31 mm	Aluminium	Galvanized Steel	
30	44 mm	Aluminium	Galvanized Steel	
38	51 mm	Aluminium	Galvanized Steel	
39	66 mm	Aluminium	Galvanized Steel	
40	81 mm	Aluminium	Galvanized Steel	
48	89 mm	Aluminium	Galvanized Steel	
49	115 mm	Aluminium	Galvanized Steel	
50	160 mm	Aluminium	Galvanized Steel	

Sealing Cap with Chain for Firefighting and Deckwash Valves (JIS/ANSI)

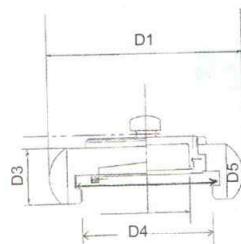
Tapa selladora con cadena para válvulas para extinción de fuegos y limpieza de cubiertas JIS/ANSI
JIS/ANSI型消火及び甲板洗浄弁用キャップ
JIS/ANSI型灭火及甲板洗涤阀盖

JIS Type

Machino Type



Nakajima Type

**How to order: CODE**

Sealing Cap with Chain for Firefighting and deckwash valve, JIS Type, Specify the NAME OF MAKER, SIZE

Unit Per Pcs.

MACHINO TYPE			NAKAJIMA TYPE							
CODE	Size	Size (mm)	CODE	Size	Size (mm)					
		A (±3)			D1	D2	D3	D4	D5	
75 60 64	40	72	40	75 60 67	40	91	38	27.5	61	67
	65	50	91	68	50	110	50	33	73	80
	66	65	107	69	65	133.5	63	36	91	98

ANSI Type**How to order: CODE**

Sealing Cap with Chain for Firefighting and deckwash valve, ANSI Type, SIZE

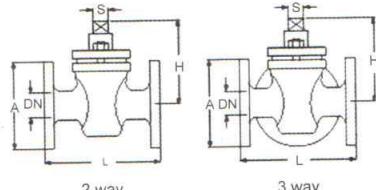


CODE	Size	Thread Per Inch	Basic O.D. Male Part
75 61 19	1-1/2"	9	1.990"
20	2-1/2"	7-1/2	3.0686"

DIN Cocks**Plug Valves (DIN)
Bronze, DIN Flanges, 2-way and 3-way**

Llave de Empaqueadura de Bronce (según DIN)
DIN型青銅プラグバルブ DIN型青铜密封旋阀

Flanged plug valves are available in a 2 and 3 way patterns. The 3-way pattern is available with L or T-plug. All versions are executed with gland packing. Cock wrench is available in separated order.



Pressure and Temperature Range: 10 bar - 90°C

Material Specification

Component	Material	EN and/or (DIN)
Body, Plug	Bronze	- (CuSn8)

How to order: CODE

Plug valve (DIN), bronze, DIN flanges, TYPE, SIZE DN

2 way Type

Unit Per Pcs.

CODE	DN	Size mm				Weight Kg
		L	A	H	S	
75 61 21	15	120	95	72	10	1.7
	22	20	130	105	90	2.5
	23	25	150	115	94	3.1
	24	32	170	140	105	4.7
	25	40	190	150	118	5.3
75 61 26	50	200	165	133	27	7.5
	27	65	230	185	159	12
	28	80	260	200	176	21
	29	100	310	220	241	26

3 way L-Plug Type

Unit Per Pcs.

CODE	DN	Size mm				Weight Kg
		L	A	H	S	
75 61 31	15	120	95	72	10	1.7
	20	130	105	90	12	2.5
	25	150	115	94	14	3.1
	32	170	140	105	17	4.7
	40	190	150	118	22	5.3
75 61 36	50	200	165	133	27	7.5
	65	230	185	159	30	12
	80	260	200	176	32	21
	100	310	220	241	46	26

3 way T-Plug Type

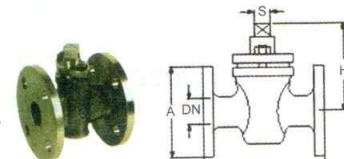
Unit Per Pcs.

CODE	DN	Size mm				Weight Kg
		L	A	H	S	
75 62 61	15	120	95	72	10	1.7
	20	130	105	90	12	2.5
	25	150	115	94	14	3.1
	32	170	140	105	17	4.7
	40	190	150	118	22	5.3
75 62 66	50	200	165	133	27	7.5
	65	230	185	159	30	12
	80	260	200	176	32	21
	100	310	220	241	46	26

Plug Valves (DIN)**Cast Iron, DIN Flanges, 2 Way Type**

Válvulas de Enchufe (DIN) Hierro Fundido, Bridas DIN
DIN型铸铁プラグバルブ 旋塞阀 (DIN) 铸铁, DIN法兰

Flanged plug valves are available in a 2 and 3 way patterns. The 3-way pattern is available with L or T-plug. All versions are executed with gland packing. Cock wrench is available in separated order.



Pressure and Temperature Range: 10 bar - 90°C

Material Specification

Component	Material	EN and/or (DIN)
Body, Plug	Cast iron	GJL-200 (GG-20)

How to order: CODE

Plug valve (DIN), cast iron, DIN flanges, 2 way type SIZE DN

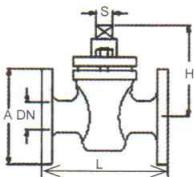
CODE	DN	Size mm				Weight Kg
		L	A	H	S	
75 61 61	15	130	95	87	12	2.5
62	20	150	105	102	17	3.3
63	25	160	115	108	19	4.5
64	32	180	140	127	22	7.4
65	40	200	150	147	24	9.0
75 61 66	50	230	165	165	32	13.5
67	65	290	185	204	41	20.5
68	80	310	200	228	46	27
69	100	350	220	275	55	39

Plug Valves (DIN)

Cast Iron, DIN Flanges, 2 Way Type

Válvulas de obturador (DIN), Hierro fundido,bridas DIN, 2 vías
プラグバルブ (DIN) 鋳鉄、DIN フランジ、2 方向タイプ
旋塞阀 (DIN) 铸铁, DIN 法兰, 2 通型

Flanged plug valve in 2-way pattern. All versions are executed with gland packing. Cock wrench is available in separated order.



Pressure and Temperature Range: 10 bar - 90°C

Material Specification

Component	Material	EN and/or (DIN)
Body	Cast iron	GJL-200 (GG-20)
Plug	Bronze	- (CuSn8)

How to order: CODE

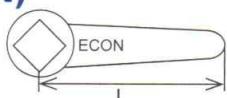
Plug valve (DIN), cast iron, DIN flanges, with bronze plug
2 way type, SIZE DN

CODE	DN	Size mm				Weight Kg
		L	A	H	S	
75 61 71	15	130	95	87	12	2.5
72	20	150	105	102	17	3.3
73	25	160	115	108	19	4.5
74	32	180	140	127	22	7.4
75	40	200	150	147	24	9.0
75 61 76	50	230	165	165	32	13.5
77	65	290	185	204	41	20.5
78	80	310	200	228	46	27
79	100	350	220	275	55	39

Cock Wrenches (DIN)

Malleable Iron

Palanca para Llave de Paso (según DIN)
DIN型コックレンチ DIN型旋阀扳手



How to order: CODE

Cock wrench (DIN), malleable iron, SIZE mm

CODE	Size mm		CODE	Size mm		Unit Per Pcs.
	For S Size	L		For S Size	L	
75 61 80	8	100	75 61 89	19	190	
81	9	100		90	22	210
82	10	123		91	24	230
83	11	125		93	27	250
84	12	135		95	32	290
75 61 86	14	150	75 61 96	41	360	
70	15	130		97	46	390
87	17	175		98	55	470

DIN Needle Valves

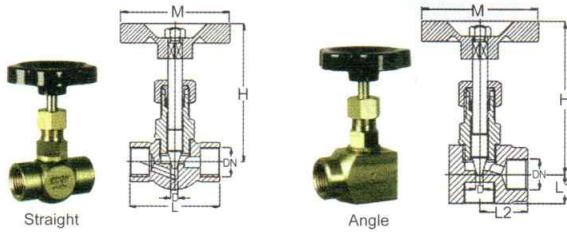
Needle Valves (DIN) Brass, BSP Female Threaded Ends

Válvulas de aguja (DIN), Latón, extremos rosados hembra BSP

ニードルバルブ (DIN) 真鍮、BSP 雌ネジ端

针阀 (DIN) 黄铜, 英制锥螺纹内螺纹端头

Needle valves, especially suitable for accurate regulation of gases and liquids. Not suitable for steam.



Pressure and Temperature Range:

100 bar - 30°C

40 bar - 150°C

Material Specification

Component	Material	EN and/or (DIN)
Body	Brass	CuZn40Pb2
Bonnet	Brass	CuZn39Pb3
Stem with fixed needle tip	Brass	CuZn39Pb3
Gland Packing	PTFE	
Handwheel	PF (Bakelite)	

How to order: CODE

Needle valve (DIN), brass, BSP female threaded ends,
STRAIGHT or ANGLE, SIZE DN

Straight Type

CODE	Threaded Connection	Size mm				Weight Kg
		d	L	H	M	
75 62 02	1/4"	4	46	82	50	0.22
03	3/8"	5	50	95	50	0.30
04	1/2"	6	55	95	65	0.35
05	3/4"	8	64	105	65	0.55
06	1"	8	75	105	65	0.65

Angle Type

CODE	Threaded Connection	Size mm				Weight Kg
		d	L1	L2	H	
75 62 12	1/4"	4	13	24.5	82	50
14	1/2"	6	16	32	95	65
16	1/4"	8	13	24.5	82	50

Needle Valves (DIN)

Stainless Steel, Straight and Angle Pattern BSP/NPT Female Threaded Ends

Válvulas de aguja (DIN). Acero inoxidable, modelo recto y en ángulo

ニードルバルブ (DIN) ステンレス鋼、ストレート及びアングルパターン
针阀 (DIN) 不锈钢, 直通型和角型

Needle valve, especially suitable for accurate regulation of gases and liquids.

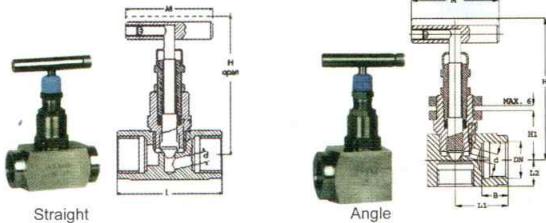
Features

- Fitted with external screwed stem, making it suitable for high temperatures.
- Secured bonnet.
- "Backseat" construction ; In fully open position, the gland

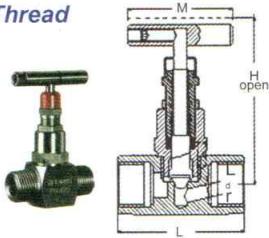
packing is relieved.

- One-piece PTFE gland packing, adjustable by means of secureable gland.
- Stem with non-rotating needle tip ensures 100% sealing.
- Plastic dust cap protects threaded stem.

BSP Female Thread



NPT Female Thread



Pressure and Temperature Range:

420 bar - 20°C

320 bar - 200°C

250 bar - 250°C

Material Specification

Component	Material	EN and/or (DIN)
Body	Stainless steel	X5CrNiMo17-12 2
Bonnet	Stainless steel	X5CrNiMo17-12 2
Stem	Stainless steel	X5CrNiMo17-12 2
Needle tip	Stainless steel	- (X4CrNiMnMo19 16 5)
Gland Packing	PTFE	
Lever	Stainless steel	X8CrNiS 18-9 (X12CrNiS18 8)
Dust Cap	Plastic	

How to order: CODE

Needle valve (DIN), stainless steel, BSP or NPT female threaded ends, STRAIGHT or ANGLE, SIZE DN

BSP Female Thread

Straight Type

CODE	Threaded Connection	Size mm				Weight Kg	Unit Per Pcs.
		d	L	H	M		
75 62 21	1/4"	3	50	78	50	0.3	
22	3/8"	5	55	78	50	0.3	
23	1/2"	6	60	80	50	0.7	
24	3/4"	8	80	97	60	0.7	
25	1"	8	80	99	60	0.7	

Angle Type

CODE	Threaded Connection	Size mm						Weight Kg	Unit Per Pcs.
		d	B	H	H1	L1	L2		
75 62 31	1/4"	3	12	78	12	25	14	50	0.3
32	1/2"	4	15	83	12	30	17.5	50	0.3

NPT Female Thread

Straight Type

CODE	Threaded Connection	Size mm				Weight Kg	Unit Per Pcs.
		d	L	H	M		
75 62 41	1/4"	3	50	78	50	0.3	
42	3/8"	5	55	78	50	0.3	
43	1/2"	6	60	80	50	0.7	
44	3/4"	8	80	97	60	0.7	
45	1"	8	80	99	60	0.7	

DIN Butterfly Valves

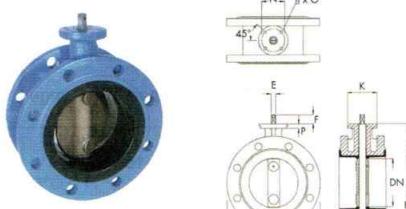
Butterfly Valves (DIN)

Ductile Cast Iron, Rubber Lined Flange Type Series 46, Bonded Liner

Válvulas de mariposa (DIN), Fundición dúctil

バタフライバルブ (DIN), ダクタイル鋳鉄 蝶阀 (DIN) 球墨铸铁

Ductile cast iron butterfly valve, double-flanged type with centric disc, one piece shaft supported by bronze radial bearings, rubber lined body. The rubber liner is vulcanized integrally to body and bearings ensuring reduced torque and a long lifetime. This liner extends along the valve faces, eliminating the use of gaskets. The double flanged body is suitable for mounting between flanges acc. to DIN PN10 or PN16. Face to face dimensions are acc. to ISO5752 /EN558 basic series 13, DIN3202 F16 and BS5155. Valve is also suitable for end of line applications. For easy mounting of both manual and automatic actuators the valve is executed with a topflange according to the ISO5211 standard. Further applications of series 46 butterfly valves can be found amongst others in general industrial and maritime systems for media such as (ballast) water, gases, hydrocarbons and light corrosive media up to a maximum of 16 bar.



Features

- Connections: Flange
- Body material: Cast iron, nodular
- Valve butterfly material: Bronze
- Operation: None

Pressure and Temperature Range

Size	Liner	Pressure Rating	Temperature Range	Max. Operating Pressure
DN50-DN600	NBR or EPDM	PN 16	NBR -10° /+80°C or EPDM -10° /120°C	16 bar
DN200-DN600		PN 10		10 bar

Material Specification

Component	Material	EN and/or (DIN)
Body	Ductile cast iron	GJS-400-15 (GGG-40)
Disc	Aluminium bronze	CuAl10Fe5Ni5-C (G-CuAl10Ni)
Stem	Stainless steel	X39CrMo17-1 (X35CrMo17)
Liner	NBR or EPDM	

How to order: CODE

Butterfly valve (DIN), ductile cast iron, Rubber-lined, flange type, bonded liner (NBR or EPDM), SIZE DN

Unit Per Pcs.

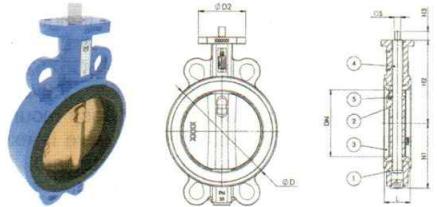
CODE	DN	Size mm							Weight Kg
		A	E	H	H1	L	N	T	
75 63 01	50	165	11	118	67	108	70	22	10
02	65	185	11	126	74	112	70	22	12
03	80	200	11	133	82	114	70	22	14
04	100	228	11	147	100	127	70	23	16
05	125	254	14	160	112	140	70	26	20
75 63 06	150	285	14	180	134	140	70	26	27
07	200	243	17	204	159	152	70	29	35
08	250	405	22	245	195	165	102	32	51
09	300	445	22	270	220	178	102	32	62
10	350	505	27	315	282	190	125	32	90
75 63 11	400	565	27	350	307	216	125	33	124
12	450	615	36	375	352	222	140	33	180
13	500	670	36	415	387	229	140	35	210
14	600	780	46	465	452	267	165	36	302

Butterfly Valves (DIN)

Nudular Cast Iron, Vulcanized Liner, Wafer Type, Bare Stem Parallel

Válvulas de mariposa (DIN), Fundición dúctil, revestida de caucho
バタフライバルブ (DIN) ダクタイル鋳鉄、ゴムライニング
蝶阀 (DIN) 球墨铸铁, 橡胶衬里

Nodular Cast Iron body, vulcanized liner wafer type butterfly valve with Aluminium Bronze disc. Centric free stem with standardized pattern for actuator mounting. Can handle negative pressure (vacuum), due to the meticulous vulcanization process.



Applications

Corrosive fluids, Fuel oil, Lubricating oil, Flammable hydraulic oil, Cargo oil, Non-flammable hydraulic fluid.

Pressure and Temperature Range

Size	Liner	Pressure Rating	Temperature Range	Max. Operating Pressure
DN50-DN600	FKM or NBR of EPDM	PN 16	FKM -30°/+180°C, NBR -15°/+80°C EPDM -20°/+100°C	16 bar
DN450-DN600		PN 10		10 bar

Material Specification

Component	Material	EN and/or (DIN)
Body	Ductile iron	GGG-40
Disc	Copper alloy	CC333G
Seat	NBR or EPDM or FKM	-
Stem	Stainless steel	1.4401
Liner	Stainless steel	1.4462

How to order: CODE

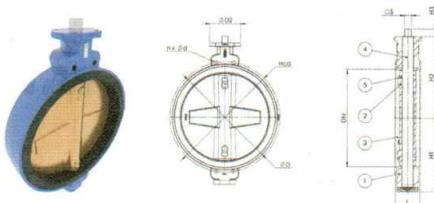
Butterfly valve (DIN), nudular cast iron, rubber-lined, wafer type, bonded liner (FKM or NBR or EPDM), SIZE DN

CODE	DN	Size mm					Weight Kg
		D	L	H2	H1	S	
75 63 67	40	72	33	113	67	11	90
	50	92	43	118	71	11	90
31	65	107	46	126	86	11	90
32	80	126	46	133	88	11	90
33	100	151	52	147	106	11	90
34							4.8
75 63 35	125	183	56	160	118	14	90
	150	210	56	180	140	14	90
36	200	266	60	204	167	17	90
37	250	318	68	270	202	22	90
38	300	373	78	270	240	22	90
39							43.0
75 63 40	350	437	78	315	288	27	150
	400	492	102	350	305	27	150
41	450	540	114	375	335	36	175
42	500	595	127	415	379	36	175
43	600	697	154	465	431	46	210
44							208.0

MESON Model No.: 700.2.5.6.1

Semi Lug Type

Nodular Cast Iron body, vulcanized liner semi lug type butterfly valve with Aluminium Bronze disc. Centric free stem with standardized pattern for actuator mounting. Can handle negative pressure (vacuum), due to the meticulous vulcanization process.



Applications

- Boiler feedwater
- Condensate
- Sea water
- Water

How to order: CODE

Butterfly valve (DIN), nudular cast iron, rubber lined, semi lug type, vulcanized liner, SIZE PN10 DN

Material Specification

Component	Material	EN and/or (DIN)
Body	Ductile iron	GGG-40
Disc	Copper alloy	CC333G
Seat	NBR or EPDM or FKM	-
Stem	Stainless steel	1.4401
Liner	Stainless steel	1.4462

CODE	DN	Size mm						Weight Kg
		HCD	D	L	H2	H1	S	
75 63 68	450	565	540	114	375	335	36	175
69	500	595	127	415	379	36	175	138
70	600	697	154	465	431	46	210	208

MESON Model No.: 700.2.5.6.1

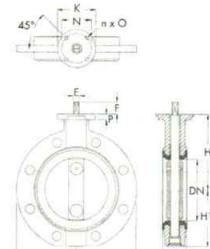
Butterfly Valves (DIN)

Ductile Cast iron, Rubber Lined Mono-flange Type, Bonded Liner

Válvulas de mariposa (DIN). Fundición dúctil
バタフライバルブ (DIN) ダクタイル鋳鉄
蝶阀 (DIN) 球墨铸铁

Ductile iron butterfly valve, monoflange type with centric disc, one piece shaft supported by bronze radial bearings for smooth operation, rubber lined body. The rubber liner is vulcanized integrally to body and

bearings ensuring reduced torque and a long lifetime. This liner extends along the valve faces, eliminating the use of gaskets. The body with monoflange is suitable for mounting between flanges according to DIN PN10 or PN16. Due to the monoflange design this valve can be used as end of line valve. Face to face dimensions are according to ISO5752/EN558 basic series 20, API609, DIN3202 K1 and BS5155. For easy mounting of both manual and automatic actuators the valve is executed with a topflange according to the ISO5211 standard. Further applications of series 60 butterfly valves can be found amongst others in general industrial and maritime systems for media such as (ballast) water, gases, hydrocarbons and light corrosive media up to a maximum of 16 bar (PN16 execution).



Features

- Connections: Monoflange
- Valve butterfly material: Bronze
- Operation: None

Pressure and Temperature Range

Size	Liner	Pressure Rating	Temperature Range	Max. Operating Pressure
DN50-DN400	NBR or EPDM	PN 16	NBR -10° /+80°C or EPDM-10° /+120°C	16 bar
DN200-DN400		PN 10		10 bar

Remark: Maximum operating pressure as end of line valve, 6 bar.

Material Specification

Component	Material	EN and/or (DIN)
Body	Ductile cast iron	GJS-400-15 (GGG-40)
Disc	Aluminium bronze	CuAl10Fe5Ni5-C (G-CuAl10Ni)
Stem	Stainless steel	X39CrMo17-1 (X35CrMo17)
Liner	NBR or EPDM	

How to order: CODE

Butterfly valve (DIN), ductile cast iron, rubber-lined, mono-flange type, bonded liner (NBR or EPDM), SIZE DN

How to order: CODE

Butterfly valve (DIN), ductile cast iron, Rubber-lined, mono-flange type, centric disc, bonded liner (NBR or EPDM), SIZE DN

Unit Per Pcs.

CODE	DN	Size mm						Weight Kg
		A	E	H	H1	K	L	
75 63 56	50	165	11	118	67	90	43	70
57	65	185	11	126	74	90	46	70
58	80	200	11	133	82	90	64	70
59	100	228	11	147	100	90	64	70
60	125	254	14	160	112	90	70	11.0
75 63 61	150	285	14	180	134	90	76	70
62	200	340	17	204	159	90	89	70
63	250	405	22	245	195	125	114	102
64	300	460	22	270	220	125	114	102
65	350	533	27	315	282	150	127	76
75 63 66	400	585	27	350	307	150	140	100

How to order: CODE

Butterfly valve (DIN), ductile cast iron, rubber-lined, mono-flange type, bonded liner (NBR or EPDM), SIZE DN

Unit Per Pcs.

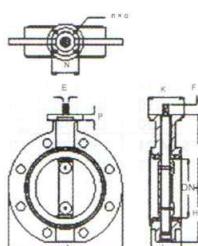
CODE	DN	Size mm						Weight Kg
		A	E	H	H1	K	L	
75 63 45	50	165	11	118	67	43	70	3.5
46	65	185	11	126	74	46	70	4.6
47	80	200	11	133	82	46	70	5.7
48	100	228	11	147	100	52	70	7.8
49	125	254	14	160	112	56	70	11.9
75 63 50	150	285	14	180	134	56	70	15.0
51	200	340	17	204	159	60	70	24.4
52	250	405	22	245	195	68	102	47.0
53	300	460	22	270	220	78	102	56.6
54	350	533	27	315	282	78	125	78
75 63 55	400	585	27	350	307	102	125	101

Butterfly Valves (DIN)Cast Iron, Rubber Lined, Mono-flange Type
Bonded Liner, Centric Disc

Válvulas de mariposa (DIN). Hierro fundido

バタフライバルブ (DIN) 鋳鉄製 蝶閥 (DIN) 铸铁

Ductile cast iron butterfly valve, the body with monoflange is suitable for mounting between flanges according to DIN PN10. Due to the monoflange design, this valve can be used as end of line valve. Face to face dimensions are according to ISO5752/EN558 basic series 16, API 609, DIN 3202 K3 and BS5155. For easy adaption of both manual and automatic actuators the valve is executed with a topflange according to ISO5211 standard. Further applications of series 60 butterfly valves can be found amongst others in general industrial and maritime systems for media such as (ballast) water, gases, hydrocarbons and light corrosive media up to a maximum of 10 bar.

**Pressure and Temperature Range**

Size	Liner	Pressure Rating	Temperature Range	Max. Operating Pressure
DN50-DN400	NBR or EPDM	PN 10	NBR -10° /+80°C or EPDM-10° /+120°C	10 bar

Material Specification

Component	Material	EN and/or (DIN)
Body	Ductile cast iron	GJS-400-15 (GGG-40)
Disc (Rilsan Coating)	Ductile cast iron	GJS-400-15 (GGG-40)
Stem	Stainless steel	X39CrMo17-1 (X35CrMo17)
Liner	NBR or EPDM	

How to order: CODE

Butterfly valve (DIN), ductile cast iron, Rubber-lined, mono-flange type, centric disc, bonded liner (NBR or EPDM), SIZE DN

Unit Per Pcs.

CODE	DN	Size mm						Weight Kg
		A	E	H	H1	K	L	
75 63 61	150	285	14	180	134	90	76	70
62	200	340	17	204	159	90	89	70
63	250	405	22	245	195	125	114	102
64	300	460	22	270	220	125	114	102
65	350	533	27	315	282	150	127	76
75 63 66	400	585	27	350	307	150	140	100

Butterfly Valves (DIN)

Stainless Steel and Cast Steel

High Performance Type, Ring Type

Válvulas de mariposa (DIN), Acero inoxidable y acero fundido

バタフライバルブ (DIN) ステンレス鋼及び鋳鋼

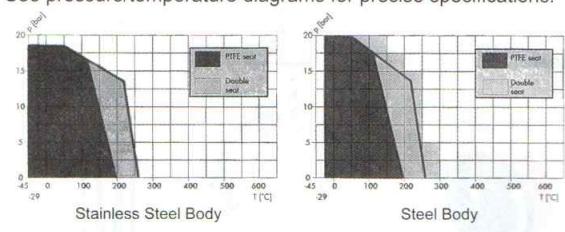
蝶阀 (DIN) 不锈钢和铸钢

High-Performance butterfly valve, ring type with streamlined double eccentric disc and one-piece anti-blow out shaft, bi-directional sealing, anti-static design. Available in stainless steel and cast steel. Executed with

replaceable seat in PTFE, Fire-safe, metal or double-seat version, for in-line sealing. For sealing to the atmosphere the valve is provided with a self-centering and re-adjustable gland packing of PTFE or graphite material. The body with centering holes for easy pipe alignment is suitable for mounting between flanges according to DIN PN 10/16 and ASME 150#. Face to Face dimensions are according to ISO 5752/EN558 basic series 20(DN 350, basic series 25). For easy adaption of both manual and automatic actuators the valve is executed with a topflange according to the ISO 5211 standard. Applications of series 96 butterfly valves can be found amongst others in general industrial and maritime systems for example in corrosive media, gases, steam and hot water up to a maximum of 20 bar (ASME class 150 execution). For application in cargo lines on chemical and liquefied gas tankers this valve has a BV type approval.

Pressure and Temperature Range

20 bar, -45°C to +260°C, depending on choice of material. See pressure/temperature diagrams for precise specifications.

**Stainless Steel Body****Material Specification**

Component	Material	US
Body	Stainless steel	ASTM A 351-CF8M
Disc	Stainless steel	ASTM A 351-CF8M
Pressure Ring	Stainless steel	AISI-316
Stem, Pins	Stainless steel	AISI-316
Seat and Shaft Seal*	PTFE	PTFE

Remark : * Double seat, fire-safe seat or metal seat is available on request.

How to order: CODE

Butterfly valve (DIN), High-Performance, ring type, stainless steel body, PTFE seat, SIZE DN

CODE	DN	Size mm						Weight Kg	Unit Per Pcs.		
		A	E	H	H1	L	N		D-1	d	L
75 63 71	50	102	12	108	99	43	70	6.0			
72	65	122	12	123	112	46	70	6.0			
73	80	132	12	133	120	46	70	7.0			
74	100	156	12	155	131	52	70	8.0			
75	125	188	17	173	159	56	102	12.0			
75 63 76	150	216	17	183	170	56	102	15.0			
77	200	268	19	218	210	60	125	22.0			
78	250	326	22	253	237	68	125	32.0			
79	300	375	27	278	278	78	140	43.0			
80	350	420	30	318	316	92	140	54.0			
75 63 81	400	482	36	363	362	102	165	86.0			
82	450	538	41	388	387	114	165	114			
83	500	592	46	418	432	127	165	145			
84	600	694	50	478	506	154	254	219			

Cast Steel Body**Material Specification**

Component	Material	US
Body	Cast steel	ASTM A216-WCB
Disc	Stainless steel	ASTM A351-CF8M
Pressure Ring	Forged steel	ASTM A105(N)
Stem, Pins	Stainless steel	AISI-316
Seat and Shaft Seal*	PTFE	PTFE

Remark : * Double seat, fire-safe seat or metal seat is available on request.

How to order: CODE

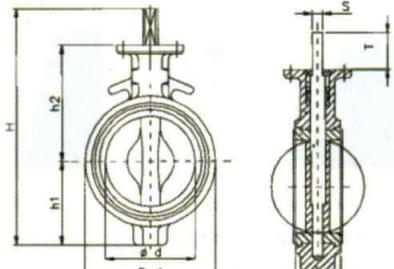
Butterfly valve (DIN), High-Performance, Ring type, stainless steel body, PTFE seat, SIZE DN

CODE	DN	Size mm						Weight Kg	Unit Per Pcs.		
		A	E	H	H1	L	N		D-1	d	L
75 63 85	50	102	12	108	99	43	70	6.0			
86	65	122	12	123	112	46	70	6.0			
87	80	132	12	133	120	46	70	7.0			
88	100	156	12	155	131	52	70	8.0			
89	125	188	17	173	159	56	102	12.0			
75 63 90	150	216	17	183	170	56	102	15.0			
91	200	268	19	218	210	60	125	22.0			
92	250	326	22	253	237	68	125	32.0			
93	300	375	27	278	278	78	140	43.0			
94	350	420	30	318	316	92	140	54.0			
75 63 95	400	482	36	363	362	102	165	86.0			
96	450	538	41	388	387	114	165	114			
97	500	592	46	418	432	127	165	145			
98	600	694	50	478	506	154	254	219			

DIN Cast Iron Butterfly Valves**Series ISO 5752 S-20**

Válvulas de mariposa de fundición DIN

DIN 鋳鉄製バタフライバルブ DIN 铸铁蝶阀

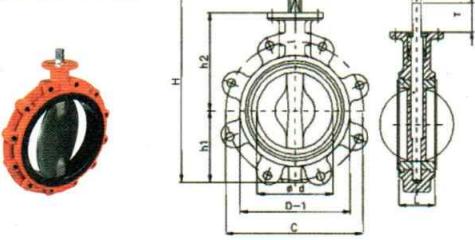
Wafer Type Series 50**Material Table**

Part	Material	DIN code	ASTM Code
Body	Cast Iron	GG 25	ASTM A126 C1.B
Disc	Ductile Iron	GGG 40	ASTM A536 Gr 65-45-12
Stem	Stainless Steel	X2 CrNiMo 18.10	ASTM A276 316
Seat	NBR	Nitrile Rubber	Tem Range -25°C/+100°C
Packing	NBR	Nitrile Rubber	Tem Range -25°C/+100°C

Name of Mfr.: World Wide Metric

CODE	Nom. Size	Body Size mm						Stem Size mm	S	T	Weight Kg	Unit Per Pcs.
		D-1	d	L	H	h1	h2					
75 44 01	50	102	52	43	240	78	130	10	-	-	3.7	
02	65	115	65	46	247	88	130	10	-	-	4.0	
03	80	128	80	46	266	93	143	10	-	-	4.4	
04	100	153	100	52	298	105	161	10	-	-	5.9	
05	125	183	125	56	331	125	177	12	-	-	8.9	
75 44 06	150	210	150	56	363	140	191	15	-	-	9.0	
07	200	259	198	60	412	163	217	15	-	-	11.0	
08	250	328	248	68	506	205	267	18	-	-	20.0	
09	300	374	298	78	538	249	295	20	-	-	32.0	
10	350	416	327	78	675	271	324	20	45	-	43.0	

Name of Mfr.: World Wide Metric

Lug Type Series 52**Material Table**

Part	Material	DIN code	ASTM Code
Body	Cast Iron	GG 25	ASTM A126 C1.B
Disc	Ductile Iron	GGG 40	ASTM A536 Gr 65-45-12
Stem	Stainless Steel	X2 CrNiMo 18.10	ASTM A276 316
Seat	NBR	Nitrile Rubber	Tem Range -25°C/+100°C
Packing	NBR	Nitrile Rubber	Tem Range -25°C/+100°C

PN6**Unit Per Pcs.**

CODE	Nom. Size	Body Size mm						Bolt Hose mm	C	Bolt	Weight Kg	Unit Per Pcs.
		D-1	d	L	H	S	T					
75 44 16	50	102	52	43	240	10	-	110	4x14	-	4.1	
17	65	115	65	46	247	10	-	130	4x14	-	5.5	
18	80	128	80	46	266	10	-	150	4x18	-	6.8	
19	100	153	100	52	298	10	-	170	4x18	-	8.6	
20	125	183	125	56	331	12	-	200	8x18	-	10.5	
75 44 21	150	210	150	56	363	15	-	225	8x18	-	12.5	
22	200	259	198	60	412	15	-	280	8x18	-	21.4	
23	250	328	248	68	506	18	-	335	12x18	-	29.3	
24	300	374	298	78	538	20	-	395	12x22	-	44.0	
25	350	416	327	78	675	20	45	445	12x22	-	62.2	
75 44 26	400	475	387	102	817	-	60	495	16x22	-	112.0	
27	450	535	438	114	877	-	60	550	16x22	-	153.0	
28	500	586	477	127	1,008	-	60	600	20x22	-	199.0	
29	600	695	560	154	1,180	-	60	705	20x26	-	283.0	

Name of Mfr.: World Wide Metric

PN10**Unit Per Pcs.**

CODE	Nom. Size	Body Size mm						Bolt Hose mm	C	Bolt	Weight Kg	Unit Per Pcs.
		D-1	d	L	H	S	T					
75 44 31	50	102	52	43	240	10	-	125	4x18	-	4.1	
32	65	115	65	46	247	10	-	145	4x18	-	5.5	
33	80	128	80	46	266	10	-	160	8x18	-	6.8	
34	100	153	100	52	298	10	-	180	8x18	-	8.6	
35	125	183	125	56	331	12	-	210	8x18	-	10.5	
75 44 36	150	210	150	56	363	15	-	240	8x22	-	12.5	
37	200	259	198	60	412	15	-	295	8x22	-	21.4	
38	250	328	248	68	506	18	-	350	12x22	-	29.3	
39	300	374	298	78	538	20	-	400	12x22	-	44.0	
40	350	416	327	78	675	20	45	460	16x22	-	62.2	
75 44 41	400	475	387	102	817	-	60	515	16x26	-	112.0	
42	450	535	438	114	877	-	60	565	20x26	-	153.0	
43	500	586	477	127	1,008	-	60	620	20x26	-	199.0	
44	600	695	560	154	1,180	-	60	725	20x30	-	283.0	

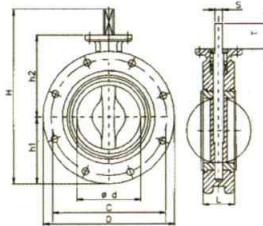
Name of Mfr.: World Wide Metric

PN16

Unit Per Pcs.

CODE	Nom. Size	Body Size mm				Stem Size mm		Bolt Hose mm		Weight Kg
		D-1	d	L	H	S	T	C	Bolt	
75 44 46	50	102	52	43	240	10	-	125	4x18	4.1
47	65	115	65	46	247	10	-	145	4x18	5.5
48	80	128	80	46	266	10	-	160	8x18	6.8
49	100	153	100	52	298	10	-	180	8x18	8.6
50	125	183	125	56	331	12	-	210	8x18	10.5
75 44 51	150	210	150	56	363	15	-	240	8x22	12.5
52	200	259	198	60	412	15	-	295	12x22	21.4
53	250	328	248	68	506	18	-	355	12x26	29.3
54	300	374	298	78	538	20	-	410	12x26	44.0
55	350	416	327	78	675	20	45	470	16x26	62.2
75 44 56	400	475	387	102	817	-	60	525	16x30	112.0
57	450	535	438	114	877	-	60	585	20x30	153.0
58	500	586	477	127	1,008	-	60	650	20x33	199.0
59	600	695	560	154	1,180	-	60	770	20x36	283.0

Name of Mfr.: World Wide Metric

Flanged Type Series 55**Material Table**

Part	Material	DIN code	ASTM Code
Body	Cast Iron	GG 25	ASTM A126 C1.B
Disc	Ductile Iron	GGG 40	ASTM A536 Gr 65-45-12
Stem	Stainless Steel	X2 CrNiMo 18.10	ASTM A276 316
Seat	NBR	Nitrile Rubber	Tem Range -25°C/+100°C
Packing	NBR	Nitrile Rubber	Tem Range -25°C/+100°C

PN6

Unit Per Pcs.

CODE	Nom. Size	Body Size mm				Stem Size mm		Bolt Hose mm		Weight Kg
		D-1	d	L	H	S	T	C	Bolt	
75 44 61	50	140	52	43	240	10	-	110	4x14	6.8
62	65	160	65	46	247	10	-	130	4x14	8.9
63	80	190	80	46	266	10	-	150	4x18	10.2
64	100	210	100	52	298	10	-	170	4x18	14.5
65	125	240	125	56	331	12	-	200	8x18	16.8
75 44 66	150	265	150	56	363	15	-	225	8x18	19.8
67	200	320	198	60	412	15	-	280	8x18	31.2
68	250	375	248	68	506	18	-	335	12x18	46.2
69	300	440	298	78	538	20	-	395	12x22	58.8
70	350	490	327	78	675	20	45	445	12x22	67.0
75 44 71	400	540	387	102	817	-	60	495	16x22	96.0
72	450	595	438	114	877	-	60	550	16x22	147.0
73	500	645	477	127	1,008	-	60	600	20x22	161.0
74	600	755	560	154	1,180	-	60	705	20x26	292.0

Name of Mfr.: World Wide Metric

PN10

Unit Per Pcs.

CODE	Nom. Size	Body Size mm				Stem Size mm		Bolt Hose mm		Weight Kg
		D-1	d	L	H	S	T	C	Bolt	
75 44 76	50	165	52	43	240	10	-	125	4x18	6.8
77	65	185	65	46	247	10	-	145	4x18	8.9
78	80	200	80	46	266	10	-	160	8x18	10.2
79	100	220	100	52	298	10	-	180	8x18	14.5
80	125	250	125	56	331	12	-	210	8x18	16.8
75 44 81	150	285	150	56	363	15	-	240	8x22	19.8
82	200	340	198	60	412	15	-	295	8x22	31.2
83	250	395	248	68	506	18	-	350	12x22	46.2
84	300	445	298	78	538	20	-	400	12x22	58.8
85	350	505	327	78	675	20	45	460	16x22	67.0
75 44 86	400	565	387	102	817	-	60	515	16x26	96.0
87	450	615	438	114	877	-	60	565	20x26	147.0
88	500	670	477	127	1,008	-	60	620	20x26	161.0
89	600	780	560	154	1,180	-	60	725	20x30	292.0

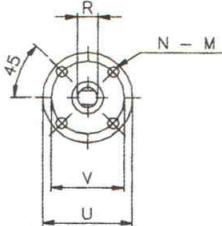
Name of Mfr.: World Wide Metric

PN16

Unit Per Pcs.

CODE	Nom. Size	Body Size mm				Stem Size mm		Bolt Hose mm		Weight Kg
		D-1	d	L	H	S	T	C	Bolt	
75 45 01	50	165	52	43	240	10	-	125	4x18	6.8
02	65	185	65	46	247	10	-	145	4x18	8.9
03	80	200	80	46	266	10	-	160	8x18	10.2
04	100	220	100	52	298	10	-	180	8x18	14.5
05	125	250	125	56	331	12	-	210	8x18	16.8
75 45 06	150	285	150	56	363	15	-	240	8x22	19.8
07	200	340	198	60	412	15	-	295	12x22	31.2
08	250	405	248	68	506	18	-	350	12x26	46.2
09	300	460	298	78	538	20	-	400	12x26	58.8
10	350	520	327	78	675	20	45	470	16x26	67.0

Name of Mfr.: World Wide Metric

Top Flange Dimensions to ISO 5711

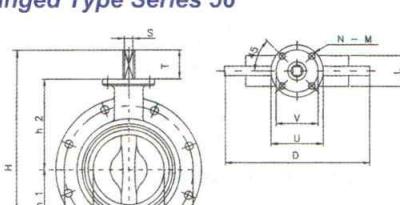
The following specifications are applicable to those butterfly valves series 50, 52 and 55.

Nominal Size mm	Size mm				
	R	U	V	N	M
50	14	90	70	4	9
65	14	90	70	4	9
80	14	90	70	4	9
100	16	90	70	4	9
125	19	90	70	4	9
150	19	90	70	4	9
200	22	90	70	4	9
250	28	125	102	4	12
300	28	125	102	4	12
350	32	125	102	4	12
400	35	175	140	4	18
450	38	175	140	4	18
500	45	210	165	4	22
600	50	210	165	4	22

DIN Cast Iron Butterfly Valves**Flanged Series ISO 5752**

Válvulas de mariposa de fundición DIN

DIN 鋳鉄製バタフライバルブ DIN 铸铁蝶阀

Mono Flanged Type Series 56**Material Table**

Part	Material	DIN code	ASTM Code
Body	Cast Iron	GG 25	ASTM A126 C1.B
Disc	Ductile Iron	GGG 40	ASTM A536 Gr 65-45-12
Stem	Stainless Steel	X2 CrNiMo 18.10	ASTM A276 316
Seat	NBR	Nitrile Rubber	Tem Range -25°C/+100°C
Packing	NBR	Nitrile Rubber	Tem Range -25°C/+100°C

PN6

Unit Per Pcs.

CODE	Nom. Size	Body Size mm			Stem Size mm		Bolt Hose mm		Weight Kg
		d	H	L	S	T	C	Bolt	
75 45 21	50	50	215	43	10	34	110	4x14	2.8
22	65	65	231	46	10	34	130	4x14	3.6
23	80	80	245	64	10	34	150	4x18	6.5
24	100	100	277	64	12	34	170	4x18	7.5
25	125	125	303	70	12	34	200	8x18	11.0
75 45 26	150	150	347	76	16	34	225	8x18	14.0
27	200	200	396	89	16	34	280	8x18	18.0
28	250	250	484	114	24	45	335	12x18	28.0
29	300	300	534	114	24	45	395	12x22	38.0
30	350	350	616	127	24	45	445	12x22	50.0
75 45 31	400	386	721	140	30	50	495	16x22	95.0
32	450	436	772	152	30	50	550	16x22	115.0
33	500	486	823	152	30	50	600	20x22	155.0
34	600	586	986	178	40	50	705	20x26	230.0

Name of Mfr.: World Wide Metric

PN10

Unit Per Pcs.

CODE	Nom. Size	Body Size mm			Stem Size mm		Bolt Hose mm		Weight Kg
		d	H	L	S	T	C	Bolt	
75 45 36	50	50	215	43	10	34	125	4x18	2.8
37	65	65	231	46	10	34	145	4x18	3.6
38	80	80	245	64	10	34	160	4x18	6.5
39	100	100	277	64	12	34	180	4x18	7.5
40	125	125	303	70	12	34	210	8x18	11.0
75 45 41	150	150	347	76	16	34	240	8x22	14.0
42	200	200	396	89	16	34	295	8x22	18.0
43	250	250	484	114	24	45	350	12x22	28.0
44	300	300	534	114	24	45	400	12x22	38.0
45	350	350	616	127	24	45	460	12x22	50.0
75 45 46	400	386	721	140	30	50	515	16x26	95.0
47	450	436	772	152	30	50	565	20x26	115.0
48	500	486	823	152	30	50	620	20x26	155.0
49	600	586	986	178	40	50	725	20x30	230.0

Name of Mfr.: World Wide Metric

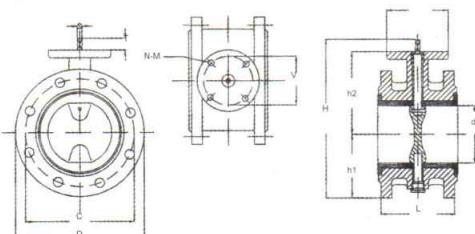
PN16

Unit Per Pcs.

CODE	Nom. Size	Body Size mm			Stem Size mm		Bolt Hose mm		Weight Kg
		d	H	L	S	T	C	Bolt	
75 45 51	50	50	215	43	10	34	125	4x18	2.8
52	65	65	231	46	10	34	145	4x18	3.6
53	80	80	245	64	10	34	160	8x18	6.5
54	100	100	277	64	12	34	180	4x18	7.5
55	125	125	303	70	12	34	210	8x18	11.0
75 45 56	150	150	347	76	16	34	240	8x22	14.0
57	200	200	396	89	16	34	295	12x22	18.0
58	250	250	484	114	24	45	355	12x26	28.0
59	300	300	534	114	24	45	410	12x26	38.0
60	350	350	616	127	24	45	470	16x26	50.0
75 45 61	400	386	721	140	30	50	525	16x30	95.0
62	450	436	772	152	30	50	585	20x30	115.0
63	500	486	823	152	30	50	650	20x33	155.0
64	600	586	986	178	40	50	770	20x36	230.0

Name of Mfr.: World Wide Metric

Flanged Type Short - Series 53



Material Table

Part	Material	DIN code	ASTM Code
Body	Cast Iron	GG 25	ASTM A126 C1.B
Disc	Ductile Iron	GGG 40	ASTM A536 Gr 65-45-12
Stem	Stainless Steel	X2 CrNiMo 18.10	ASTM A276 316
Seat	NBR	Nitrile Rubber	Tem Range -25°C/+100°C
Packing	NBR	Nitrile Rubber	Tem Range -25°C/+100°C

PN6

Unit Per Pcs.

CODE	Nom. Size	Body Size mm			Stem Size mm		Bolt Hose mm		Weight Kg
		d	H	L	S	T	C	Bolt	
75 45 66	50	50	215	108	10	34	140	110	4x14
67	65	65	231	112	10	34	160	130	4x14
68	80	80	245	114	10	34	190	150	4x18
69	100	100	277	127	12	34	210	170	4x18
70	125	125	303	140	12	34	240	200	8x18
75 45 71	150	150	347	140	16	34	265	225	8x18
72	200	200	396	152	16	34	320	280	8x18
73	250	250	484	165	24	45	375	335	12x18
74	300	300	534	178	24	45	440	395	12x22
75	350	350	616	190	24	45	490	445	12x22

Name of Mfr.: World Wide Metric

PN10

Unit Per Pcs.

CODE	Nom. Size	Body Size mm			Stem Size mm		Bolt Hose mm		Weight Kg
		d	H	L	S	T	C	Bolt	
75 45 81	50	50	215	108	10	34	165	125	4x18
82	65	65	231	112	10	34	185	145	4x18
83	80	80	245	114	10	34	200	160	8x18
84	100	100	277	127	12	34	220	180	8x18
85	125	125	303	140	12	34	250	210	8x18
75 45 86	150	150	347	140	16	34	285	240	8x22
87	200	200	396	152	16	34	340	295	8x22
88	250	250	484	165	24	45	395	350	12x22
89	300	300	534	178	24	45	445	400	12x22
90	350	350	616	190	24	45	505	460	16x22
75 45 91	400	386	721	216	30	50	565	515	16x26
92	450	436	772	222	30	50	615	565	20x26
93	500	486	823	229	30	50	670	620	20x26
94	600	586	986	267	40	50	780	725	20x30

Name of Mfr.: World Wide Metric

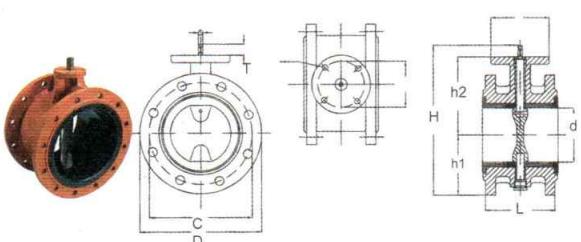
PN16

Unit Per Pcs.

CODE	Nom. Size	Body Size mm			Stem Size mm		Bolt Hose mm		Weight Kg
		d	H	L	S	T	C	Bolt	
75 46 01	50	50	215	108	10	34	165	125	4x18
02	65	65	231	112	10	34	185	145	4x18
03	80	80	245	114	10	34	200	160	8x18
04	100	100	277	127	12	34	220	180	8x18
05	125	125	303	140	12	34	250	210	8x18
75 46 06	150	150	347	140	16	34	285	240	8x22
07	200	200	396	152	16	34	340	295	12x22
08	250	250	484	165	24	45	405	355	12x26
09	300	300	534	178	24	45	460	410	12x26
10	350	350	616	190	24	45	520	470	16x26
75 46 11	400	386	721	216	30	50	580	525	16x30
12	450	436	772	222	30	50	640	585	20x30
13	500	486	823	229	30	50	715	650	20x33
14	600	586	986	267	40	50	840	770	20x36

Name of Mfr.: World Wide Metric

Flanged Type Long - Series 54



Material Table

Part	Material	DIN code	ASTM Code
Body	Cast Iron	GG 25	ASTM A126 C1.B
Disc	Ductile Iron	GGG 40	ASTM A536 Gr 65-45-12
Stem	Stainless Steel	X2 CrNiMo 18.10	ASTM A276 316
Seat	NBR	Nitrile Rubber	Tem Range -25°C/+100°C
Packing	NBR	Nitrile Rubber	Tem Range -25°C/+100°C

PN6

Unit Per Pcs.

CODE	Nom. Size	Body Size mm			Stem Size mm			Bolt Hose mm			Weight Kg
		d	H	L	S	T	D	C	Bolt		
75 46 21	50	50	215	150	10	34	140	110	4x14	10.6	
22	65	65	231	170	10	34	160	130	4x14	12.5	
23	80	80	245	180	10	34	190	150	4x18	17.0	
24	100	100	277	190	12	34	210	170	4x18	20.0	
25	125	125	303	200	12	34	240	200	8x18	26.0	
75 46 26	150	150	347	210	16	34	265	225	8x18	31.0	
27	200	200	396	230	16	34	320	280	8x18	45.0	
28	250	250	484	250	24	45	375	335	12x18	70.0	
29	300	300	534	270	24	45	440	395	12x22	90.0	
30	350	336	616	290	24	45	490	445	12x22	120.0	
75 46 31	400	386	721	310	30	50	540	495	16x22	165.0	
32	450	436	772	330	30	50	595	550	16x22	200.0	
33	500	486	823	350	30	50	645	600	20x22	230.0	
34	600	586	986	390	40	50	755	705	20x26	320.0	

Name of Mfr.: World Wide Metric

PN10

Unit Per Pcs.

CODE	Nom. Size	Body Size mm			Stem Size mm			Bolt Hose mm			Weight Kg
		d	H	L	S	T	D	C	Bolt		
75 46 36	50	50	215	150	10	34	165	125	4x18	10.6	
37	65	65	231	170	10	34	185	145	4x18	12.5	
38	80	80	245	180	10	34	200	160	8x18	17.0	
39	100	100	277	190	12	34	220	180	8x18	20.0	
40	125	125	303	200	12	34	250	210	8x18	26.0	
75 46 41	150	150	347	210	16	34	285	240	8x22	31.0	
42	200	200	396	230	16	34	340	295	8x22	45.0	
43	250	250	484	250	24	45	395	350	12x22	70.0	
44	300	300	534	270	24	45	445	400	12x22	90.0	
45	350	336	616	290	24	45	505	460	16x22	120.0	
75 45 46	400	386	721	310	30	50	565	515	16x26	165.0	
47	450	436	772	330	30	50	615	565	20x26	200.0	
48	500	486	823	350	30	50	670	620	20x26	230.0	
49	600	586	986	390	40	50	780	725	20x30	320.0	

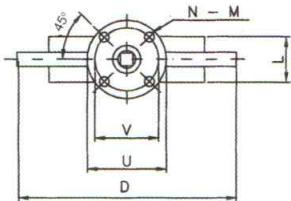
Name of Mfr.: World Wide Metric

PN16

Unit Per Pcs.

CODE	Nom. Size	Body Size mm			Stem Size mm			Bolt Hose mm			Weight Kg
		d	H	L	S	T	D	C	Bolt		
75 46 51	50	50	215	150	10	34	165	125	4x18	10.6	
52	65	65	231	170	10	34	185	145	4x18	12.5	
53	80	80	245	180	10	34	200	160	8x18	17.0	
54	100	100	277	190	12	34	220	180	8x18	20.0	
55	125	125	303	200	12	34	250	210	8x18	26.0	
75 46 56	150	150	347	210	16	34	285	240	8x22	31.0	
57	200	200	396	230	16	34	340	295	12x22	45.0	
58	250	250	484	250	24	45	395	355	12x26	70.0	
59	300	300	534	270	24	45	460	410	12x26	90.0	
60	350	336	616	290	24	45	520	470	16x26	120.0	
75 46 61	400	386	721	310	30	50	580	525	16x30	165.0	
62	450	436	772	330	30	50	640	585	20x30	200.0	
63	500	486	823	350	30	50	715	650	20x33	230.0	
64	600	586	986	390	40	50	840	770	20x36	320.0	

Name of Mfr.: World Wide Metric

Top Flange Dimensions to ISO 5211

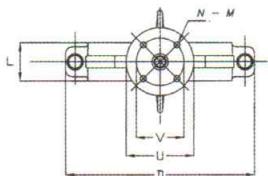
The following specifications are applicable to those butterfly valves Series 56, 53 and 54.

Nominal Size mm	Size mm			
	U	V	N	M
50	90	70	4	9
65	90	70	4	9
80	90	70	4	9
100	90	70	4	9
125	90	70	4	9
150	90	70	4	9
200	90	70	4	9
250	125	102	4	11
300	125	102	4	11
350	125	102	4	11
400	175	140	4	17
450	175	140	4	17
500	210	140	4	17
600	210	140	4	17

CODE	Nom. Size	Body Size mm						Stem Size mm	Weight Kg	
		D	d	L	H	h1	h2	S	T	
75 46 71	50	102	52	43	227	67	130	10	38	4.3
	72	115	65	46	241	71	140	10	38	4.5
	73	80	128	80	46	263	83	150	10	38
	74	100	153	100	52	290	95	163	10	38
	75	125	183	125	56	319	110	178	12	38
75 46 76	150	210	150	56	347	124	191	15	38	9.4
	77	200	259	198	60	433	163	238	18	38
	78	250	328	248	68	546	227	285	20	45
	79	300	374	298	78	601	252	315	20	45
	80	350	416	327	78	675	271	324	20	45
75 46 81	400	475	387	102	817	343	369	-	60	64.0
	82	450	535	438	114	877	366	406	-	60
	83	500	586	477	127	1,008	421	485	-	60
	84	550	643	543	154	1,085	440	528	-	60
	85	600	695	560	154	1,180	493	570	-	60

Name of Mfr.: World Wide Metric

Top Flange Dimensions to ISO 5211



The following specifications are applicable to butterfly valve series 58.

Nominal Size mm	Size mm			
	U	V	N	M
50	90	70	4	9
65	90	70	4	9
80	90	70	4	9
100	90	70	4	9
125	90	70	4	9
150	90	70	4	9
200	90	70	4	9
250	125	102	4	12
300	125	102	4	12
350	125	102	4	12
400	175	140	4	18
450	175	140	4	18
500	210	165	4	22
550	210	165	4	22
600	210	165	4	22

Face to Face Dimension Chart for DIN Butterfly Valves

Unit in mm						
Nominal Diameter		Wafer-Lug		Flanged		
mm	Inch	Series 20 ISO5752	Series 16 ISO 5752	700S Hull Valves	722F/720F ISO 5752	Series 13 ISO 5752
40	1-1/2	43/33	-	-	-	-
50	2	43	43	45	-	150
65	2-1/2	46	46	45	-	112
80	3	46	64	50	-	114
100	4	52	64	50	-	127
125	5	56	70	55	100	140
150	6	56	76	60	100	140
200	8	60	89	65	100	152
250	10	68	114	80	110	165
300	12	78	114	90	110	178
350	14	78	127	100	120	190
400	16	102	140	110	130	216
450	18	114	152	120	150	222
500	20	127	152	140	160	229
550	22	154	170	150	170	-
600	24	154	178	160	170	267
650	26	165	210	170	170	-
700	28	165	229	180	180	292
750	30	190	230	190	200	318
800	32	190	241	200	200	318
900	36	203	241	230	230	330
1000	40	216	300	250	250	410

Flange Dimension Chart for Butterfly Valve

Size	JIS			ANSI		
	5kgf/cm ²		10kgf/cm ²		150Lbs	
	C	n-h Bolt	C	n-h Bolt	C	n-h Bolt
40	95	4x15	105	4x19	98	4x16
50	105	4x15	120	4x19	121	4x20
65	130	4x15	140	4x19	140	4x20
80	145	4x19	150	8x19	152	8x20
100	165	8x19	175	8x19	190	8x20

125	200	8x19	210	8x23	216	8x23
150	230	8x19	240	8x23	241	8x23
200	280	8x23	290	12x23	298	8x23
250	345	12x23	355	12x25	362	12x26
300	390	12x23	400	16x25	432	12x26
350	435	12x25	445	16x25	476	12x28
400	495	16x25	510	16x27	540	16x27
450	555	16x25	565	20x27	578	16x32
500	605	20x25	620	20x27	635	20x32
550	665	20x27	680	20x33	-	-
600	715	20x27	730	24x33	750	20x35
650	770	24x27	780	24x33	807	24x33
700	820	24x27	840	24x33	864	28x35
750	880	24x33	900	24x33	914	28x35
800	930	24x33	950	28x33	978	28x41
900	1,030	24x33	1,050	28x33	1,086	32x41
1000	1,130	28x33	1,160	28x39	1,200	36x41

Notation : C = Bolt Circle, n-h = Number of Holes, Bolt = Size of Hole

Size	DIN					
	PN6		PN10		PN16	
	C	n-h Bolt	C	n-h Bolt	C	n-h Bolt
40	100	4x14	110	4x18	110	4x18
50	110	4x14	125	4x18	125	4x18
65	130	4x14	145	4x18	145	4x18
80	150	4x18	160	8x18	160	8x18
100	170	4x18	180	8x18	180	8x18
125	200	8x18	210	8x18	210	8x18
150	225	8x18	240	8x22	240	8x22
200	280	8x18	295	8x22	295	12x2
250	335	12x18	350	12x22	355	12x2
300	395	12x22	400	12x22	410	12x2
350	445	12x22	460	16x22	470	16x2
400	495	16x22	515	16x26	525	16x3
450	550	16x22	565	20x26	585	20x3
500	600	20x22	620	20x26	650	20x3
550	-	-	-	-	-	-
600	705	20x26	725	20x30	770	20x31
650	-	-	-	-	-	-
700	810	24x27	840	24x30	840	24x31
750	-	-	-	-	-	-
800	920	24x30	950	24x33	950	24x3
900	1,020	24x30	1,050	28x33	1,050	28x3
1000	1,120	28x30	1,160	28x36	1,170	28x4

Notation : C = Bolt Circle, n-h = Number of Holes, Bolt = Size of Hole

Available materials for butterfly valve series: 50, 52, 53, 54, 55, 56 and 58

Part	Material	DIN Code	ASTM Code
Body	Cast Iron	GG 25	ASTM A126 C1.B
	Ductile Iron	GGG 40	ASTM A536 Gr 65-45-12
	Carbon Steel	GS-C 25	ASTM A216 WCB
	Stainless Steel	G-X6 CrNiMo 18.10	ASTM A351 Gr CF8-CF8M
	Bronze	RG5	ASTM B62
Disc	Ductile Iron	GGG 40	ASTM A536 Gr 65-45-12
	Stainless Steel	G-X6 CrNiMo 18.10	ASTM A351 Gr CF8-CF8M
	Aluminium Bronze	G-CuA110Ni	ASTM B 148 C1. C 95500
Stem	Stainless Steel	X2 CrNiMo 18.10	ASTM A276 316
Seat	NBR	Nitrile Rubber	Tem Range -25°C / +100°C
	EPDM	Copolymer EPDM	Tem Range -35°C / +130°C
	Viton	Fluor elastomer	Tem Range -20°C / +200°C
	Teflon	PTFE	Tem Range -80°C / +232°C
Packing	NBR	Nitrile Rubber	Tem Range -25°C / +100°C
	EPDM	Copolymer EPDM	Tem Range -35°C / +130°C
	Viton	Fluor elastomer	Tem Range -20°C / +200°C

When ordering butterfly valves, please specify the following information:

- 1) Type of Butterfly: Wafer, Lug, Mono, Double Flanged, or High Performance.
- 2) Nominal Size: Millimeters or Inches.
- 3) Face to Face: Reference the charts above.
- 4) Flange Drilling: Reference the chart above.
- 5) Actuation: Manual lock lever and manual worm gear. For pneumatic, electric and hydraulic actuators, include specifications.
- 6) Manufacturer: Manufacturer and model number is helpful in cases where dimensions are not provided, and essential when ordering replacement parts (seat rings, discs, etc. ...).
- 7) Material: Specify the required materials for the body, disc, and Seat.
 - Body: Cast Iron, Ductile Iron, Cast Steel, Stainless Steel, or Bronze.
 - Disc: Ductile Iron, Stainless Steel, Aluminium/Bronze, or Coated.
 - Seat: EPDM, NBR, Viton, Neoprene, or Teflon (PTFE).
- 8) Medium: Oil, Gas, Water, etc. ...
- 9) Working Temperature: Degrees Celsius or Fahrenheit.

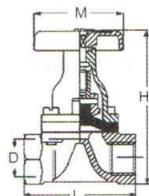
DIN Diaphragm Valves

Diaphragm Valves (DIN)

Bronze, BSP Female Threaded Weir Type

Válvulas de diafragma (DIN), bronce, rosca hembra BSP
ダイヤフラムバルブ (DIN) 青銅、BSP 雌ネジ切り
隔膜阀 (DIN) 青铜，英制内螺纹

Weir type bronze diaphragm valve, BSP female threaded ends acc. to DIN 259, rising stem and handwheel.



Application :
In cold and warm water circuits for both tap water and central heating systems. As main valve in water and gas pipelines and in various industrial applications. The valve is KIWA type approved.

Pressure and Temperature Range

Diaphragm	EPDM	Neoprene (CR)
Max. Operating Pressure	10 bar	10 bar
Max. Temperature	120°C	60°C

Material Specification

Component	Material	EN and/or (DIN)
Body	Bronze	CuSn5Zn5Pb5-C (G CuSn5ZnPb (Rg 5))
Bonnet	Brass	CuZn40Pb2
Stem	Brass	CuZn40Pb2
Handwheel	Steel	

How to order: CODE

Diaphragm valve (DIN), bronze, BSP female threaded, weir typ
SIZE DN

CODE	DN	Size mm			Weight Kg	Unit Per Pcs.
		L	H	M		
75 64 12	1/2"	65	84	55	0.5	
13	3/4"	77	93	65	0.84	
14	1"	93	118	72	1.4	
15	1-1/4"	113	132	80	2.6	
16	1-1/2"	132	147	100	3.4	
75 64 17	2"	160	165	120	5	

Diaphragm Valves (DIN)

Cast iron, Flanged Ends

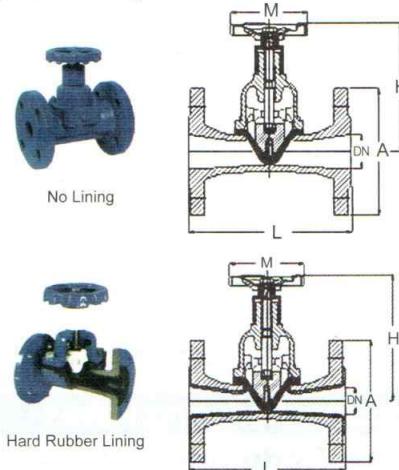
Full Bore, Pressure Rating PN 10

Válvulas de diafragma (DIN), Hierro fundido, extremos con bridas
ダイヤフラムバルブ (DIN) 鋳鉄製、フランジ形
隔膜阀 (DIN) 铸铁，法兰端

Full bore cast iron diaphragm valve, lined and unlined body. Flanged ends DIN PN 16. Position indicator with integrated stem protector and rising handwheel.

Application: Cold and hot water, portable water, air, oil, abrasive and aggressive media.

Suitability for application is partly depending on selected diaphragm and/or lining material.



Pressure and Temperature Range

Diaphragm	EPDM	Butyl (IIR)	Hypalon (CSM)
Max. Operating Pressure	10 bar	10	10
Max. Temperature	140°C	120	100
Diaphragm	Nitrile (NBR)	Natural Rubber (NR)	-
Max. Operating Pressure	10 bar	10	-
Max. Temperature	90°C	80	-

No Lining

Material Specification

Component	Material	EN and/or (DIN)
Body and Bonnet	Cast iron	GJL-250 (GG-25)
Stem	Stainless steel	X14CrMoS17 (X12CrMoS17)
Handwheel (DN15-DN20)	ABS	
Handwheel (DN25-DN200)	Steel	
Diaphragm	EPDM	

Remark: The following diaphragm materials are available upon request : Butyl (IIR), Hypalon (CSM), Nitrile (NBR) or Natural Rubber (NR).

How to order: CODE

Diaphragm valve (DIN), cast iron, flanged ends, full bore, pressure rating PN 10, no lining, SIZE DN

Unit Per Pcs.

CODE	DN	Size mm				Weight Kg
		A	L	H max.	M	
75 65 15	15	95	130	93	63	2
	16	105	150	93	63	3.5
	17	115	160	155	100	4
	18	125	180	155	100	6.5
	19	150	200	155	100	7
75 65 20	50	165	230	220	125	10.3
	65	185	290	280	200	16
	80	200	310	320	200	20
	100	220	350	370	250	26.5
	125	250	400	360	320	55
75 65 25	150	285	480	440	400	75
	200	340	600	560	500	125

Hard Rubber Lined

Material Specification

Component	Material	EN and/or (DIN)
Body and Bonnet	Cast iron	GJL-250 (GG-25)
Stem	Stainless steel ABS	X14CrMoS17(X12CrMoS17)
Handwheel (DN15-DN20)	ABS	
Handwheel (DN25-DN200)	Steel	
Body Lining	Hard rubber (NR-H)	
Diaphragm Material	Butyl (IIR)	

Remark: The following diaphragm materials are available upon request : EPDM, Hypalon (CSM), Nitrile (NBR) or Natural Rubber (NR).

How to order: CODE

Diaphragm valve (DIN), cast iron, flanged ends, full bore, pressure rating PN 10, hard rubber lining, SIZE DN

Unit Per Pcs.

CODE	DN	Size mm			Weight Kg
		A	L	H max.	
75 65 31	15	95	130	93	63
	32	20	105	150	63
	33	25	115	160	155
	34	32	140	180	100
	35	40	150	200	155
75 65 36	50	165	230	220	125
	37	65	185	290	280
	38	80	200	310	320
	39	100	220	350	370
	40	125	250	400	360
75 65 41	150	285	480	440	400
	42	200	340	600	560

DIN Pressure Reducing Valves

Pressure Reducing Valves

Gunmetal & Stainless Steel with Flange Connection

Válvulas reductoras de presión , Bronce de cañón y acero inoxidable con conexión de brida

フランジ式砲金＆ステンレス鋼減圧弁

炮铜和不锈钢，带法兰连接 减压阀

Marine Type Approvals held for these valves:

- DNV
- American Bureau of Shipping
- Russian Maritime Register of Shipping
- Lloyds Register EMEA
- Bureau Veritas,
- Registro Italiano Navale

Pressure reducer with flange connection made of gunmetal with balanced single seat valve and built-in dirt trap for the protection of domestic water supply systems and commercial and industrial plants against an excess supply pressure. Pressure reducers are used, if within a piping system despite of varying pressures on the inlet side a certain pressure must not be exceeded on the outlet side. The pressure can be adjusted via a non-rising valve stem. Flange connection according to DIN EN 1092-3. Pressure reducer equipped with pressure gauge ports; gauge connection G 1/4".

Available three models with

- EPDM (ethylene propylene diene) seal suitable for water, neutral and non-sticking liquids, compressed air and neutral gases.
- FKM (Fluorocarbon) seal suitable for non-neutral media i.e. oils, fuels, oil-laden compressed air, etc..

- Low pressure: 682/482mGFO-LP EPDM and FKM
- Standard pressure: 682/482mGFO-SP EPDM and FKM
- High pressure: 682/482mGFO-HP EPDM and FKM

Mesh sizes: DN15 to DN32 = 0.6 mm

DN40 and DN80 = 0.75 mm (682)

DN40 and DN100 = 0.75 mm (482)

Seats for 682:

DN15 to DN50 made of gunmetal/stainless steel

DN65 to DN100 made of stainless steel

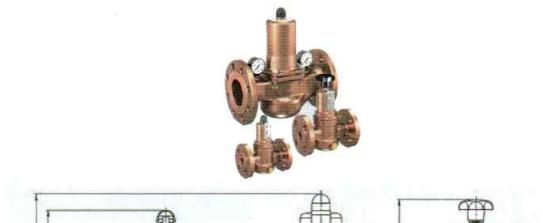
All models also available in **Stainless Steel**: series 482.

How to order: CODE

Pressure Reducing Valve (DIN), Gunmetal or Stainless Steel, with Flange Connection, SIZE DIN, Type of Pressure Rating (LOW, STANDARD, or HIGH), SPECIFY THE SEALS FROM "EPDM" or "FKM"

Series 682 (Gunmetal):

Component	Material	DIN EN	ASTM/AISI
Inlet body	Gunmetal	CC499K	CC499K
Outlet body	Gunmetal	CC499K	CC499K
Inner parts, wetted	Gunmetal Stainless steel	CC499K 1.4404	CC499K 316 L
Spring	Spring steel with anti-rust protection	1.1200	ASTM A228
Strainer	Stainless steel	1.4404	316 L



Model 682mGFO-LP (Low Pressure)

Unit Per Pcs.

CODE	DN	PN	Size mm				Weight Kg
			D	L	H1	h	
75 65 44	15	40	95	130	128	46	65/4 x M12
	54	20	105	150	150	50	75/4 x M12
	58	25	115	160	150	55	85/4 x M12
	59	32	140	180	150	68	100/4 x M16
	60	40	150	200	185	73	110/4 x M16
75 65 67	50	40	165	230	185	80	125/4 x M16

Inlet Pressure Up to 25 bar

Outlet Pressure 0.5 - 2 bar

Goetze KG: 682mGFO-LP

**Please specify the seal from EPDM or FKM when ordering.

Model 682m GFO-SP (Standard Pressure)

Unit Per Pcs.

CODE	DN	PN	Size mm				Weight Kg
			D	L	H1	h	
75 65 45	15	40	95	130	102	46	65/4 x M12
	68	20	105	150	130	50	75/4 x M12
	69	25	115	160	130	55	85/4 x M12
	70	32	140	180	130	68	100/4 x M16
	76	40	150	200	165	73	110/4 x M16
75 65 77	50	40	165	230	165	80	125/4 x M16
	55	65	185	290	235	89	145/4 x M16
	56	65	185	290	235	89	145/8 x M16
	57	80	200	310	235	96	160/8 x M16
	46	100	200	350	320	112	180/8 x M16

Inlet Pressure Up to 40 bar (PN40) & 16 bar (PN16)

Outlet Pressure 1 - 8 bar

Goetze KG: 682mGFO-SP

**Please specify the seal from EPDM or FKM when ordering.

Model 682mGFO-HP (High Pressure)

CODE	DN	PN	Size mm					Weight Kg	Unit Per Pcs.
			D	L	H1	h	K/n x d		
75 65 47	15	40	95	130	102	46	65/4 x M12	2.8	
78	20	40	105	150	130	50	75/4 x M12	4.2	
79	25	40	115	160	130	55	85/4 x M12	4.7	
80	32	40	140	180	130	68	100/4 x M16	5.9	
81	40	40	150	200	165	73	110/4 x M16	8.6	
75 65 82	50	40	165	230	165	80	125/4 x M16	10.5	

Inlet Pressure Up to 40 bar

Outlet Pressure 5 - 15 bar

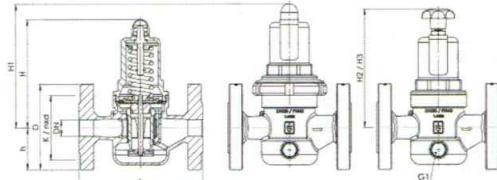
Goetze KG: 682mGFO-HP

**Please specify the seal from EPDM or FKM when ordering.

Series 482 (Stainless Steel):

Seats for version 482: made of stainless steel

Component	Material	DIN EN	ASME
Inlet body	Stainless Steel	1.4408	CF8M
Outlet body	Stainless Steel	1.4408	CF8M
Internal Parts	Stainless Steel	1.4408/1.4404	CF8M/316 L
Spring	Spring steel with anti-rust protection	1.1200	ASTM A228
Strainer	Stainless steel	1.4404	316 L

**Model 482mGFO-LP (Low Pressure)**

CODE	DN	PN	Size mm					Weight Kg	Unit Per Pcs.
			D	L	H1	h	K/n x d		
75 65 48	15	40	95	130	128	46	65/4 x M12	2.9	
83	20	40	105	150	150	50	75/4 x M12	4.3	
84	25	40	115	160	150	55	85/4 x M12	4.7	
85	32	40	140	180	150	68	100/4 x M16	5.9	
86	40	40	150	200	185	73	110/4 x M16	9.1	
87	50	40	165	230	185	80	125/4 x M16	10.9	

Inlet Pressure Up to 25 bar

Outlet Pressure 0.5 - 2 bar

Goetze KG: 482mGFO-LP

**Please specify the seal from EPDM or FKM when ordering.

Model 482mGFO-SP (Standard Pressure)

CODE	DN	PN	Size mm					Weight Kg	Unit Per Pcs.
			D	L	H1	h	K/n x d		
75 65 49	15	40	95	130	102	46	65/4 x M12	2.7	
88	20	40	105	150	130	50	75/4 x M12	3.9	
99	25	40	115	160	130	55	85/4 x M12	4.3	
75 66 00	32	40	140	180	130	68	100/4 x M16	5.5	
12	40	40	150	200	165	73	110/4 x M16	8.4	
75 66 13	50	40	165	230	165	80	125/4 x M16	10.2	
75 65 51	65	16	185	290	235	89	145/4 x M16	18.7	
52	65	40	185	290	235	89	145/8 x M16	19	
53	80	40	200	310	235	96	160/8 x M16	20.5	
43	100	16	220	350	320	112	180/8 x M16	37	

Inlet Pressure Up to 40 bar

Outlet Pressure 1 - 8 bar

Goetze KG: 482mGFO-SP

**Please specify the seal from EPDM or FKM when ordering.

Model 482mGFO-HP (High Pressure)

CODE	DN	PN	Size mm					Weight Kg
			D	L	H1	h	K/n x d	
75 65 50	15	40	95	130	102	46	65/4 x M12	2.7
75 66 14	20	40	105	150	130	50	75/4 x M12	3.9
23	25	40	115	160	130	55	85/4 x M12	4.3
24	32	40	140	180	130	68	100/4 x M16	5.5
33	40	40	150	200	165	73	110/4 x M16	8.4
75 66 34	50	40	165	230	165	80	125/4 x M16	10.2
75 67 00	100	16	220	350	340	112	180/8 x M16	40

Inlet Pressure Up to 40 bar (PN40) & 16 bar (PN16)

Outlet Pressure 5 - 15 bar (DN100: 5-13 bar)

Goetze KG: 482mGFO-HP

**Please specify the seal from EPDM or FKM when ordering.

Pressure Reducing Valves**Gunmetal & Stainless Steel with Threaded Connections**

Válvulas Reductoras de Presión, Bronce de cañón y acero inoxidable con conexión rosada

ネジ式砲金・ステンレス鋼減圧弁

減圧阀，炮铜和不锈钢，带螺纹连接

Marine Type Approvals held for these valves:

- DNV
- American Bureau of Shipping
- Russian Maritime Register of Shipping
- Lloyd's Register EMEA
- Bureau Veritas,
- Registro Italiano Navale

Pressure reducer with threaded connections made of gunmetal with balanced single seat valve and built-in dirt trap. Spring made of steel with anti-rust protection, and strainer made of stainless steel. Fabric reinforced diaphragm made of high-quality, heat-resistant moulded elastomer. Body with G 1/4" connection for pressure gauge on both sides. Adjustment by means of non-rising spindle.

Standard thread: BSPTm. Also available in female BSP-P and female NPT for sizes up to 1" (PLEASE CLEARLY INDICATE IN THE ORDER: "f/f", "BSPTm/BSPTm", or "NPTf/NPTf")

Available three models with

- EPDM (ethylene propylene diene, seals and diaphragm suitable for water, neutral and, non-sticking liquids, compressed air and neutral gases.
- FKM (Fluorocarbon) seals and diaphragm suitable for non-neutral media i.e. oils, fuels, oil-laden compressed air, etc.

- Low pressure 681/481mGFO-LP EPDM and FKM**- Standard pressure 681/481mGFO-SP EPDM and FKM****- High pressure 681/481mGFO-HP EPDM and FKM**

Mesh sizes: DN15 to DN32 = 0.6 mm

DN40 and DN50 = 0.75 mm

Inlet pressure: up to 40 bar

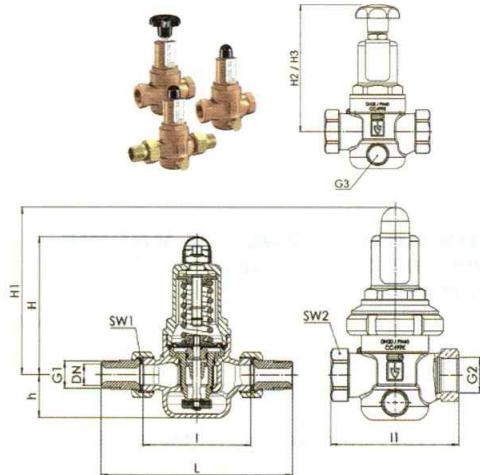
Outlet pressure: 0.5 - 15 bar

All models also available in **Stainless Steel**: series 481.**How to order: CODE**

Pressure Reducing Valve (DIN), with threaded connection, Gunmetal or Stainless Steel, Type of Pressure Rating (LOW, STANDARD, and HIGH), SIZE DIN, SPECIFY THE SEALS FROM "EPDM" or "FKM"

Series 681 (Gunmetal):

Component	Material	DIN EN	ASTM/AISI
Inlet body	Gunmetal	CC499K	CC499K
Outlet body	Gunmetal	CC499K	CC499K
Internal Parts	Gunmetal/ Stainless Steel	CC499K/ 1.4404	CC499K/ 316L
Spring	Spring steel with anti-rust protection	1.1200	ASTM A228
Strainer	Stainless steel	1.4404	316L

**Model 681mGFO-LP (Low Pressure)**

CODE	DN	Size mm				Weight Kg	Unit Per Pc.
		L	I	H1	h		
75 66 43	15	142	80	128	33	1.5	
44	20	158	90	128	33	1.6	
53	25	180	100	150	45	2.9	
54	32	193	105	150	45	3.1	
63	40	226	130	185	70	6.2	
75 66 64	50	252	140	185	70	6.7	
Inlet Pressure		Up to 25 bar					
Outlet Pressure		0.5 - 2 bar					

Goetze KG: 681mGFO-LP

**Please specify the seal from EPDM or FKM when ordering.

Model 681mGFO-SP (Standard Pressure)

CODE	DN	Size mm				Weight Kg	Unit Per Pc.
		L	I	H1	h		
75 65 61	15	142	80	102	33	1.2	
62	20	158	90	102	33	1.3	
63	25	180	100	130	45	2.4	
64	32	193	105	130	45	2.6	
65	40	226	130	165	70	5.5	
75 65 66	50	252	140	165	70	6.0	
Inlet Pressure		Up to 40 bar					
Outlet Pressure		1 - 8 bar					

Goetze KG: 681mGFO-SP

**Please specify the seal from EPDM or FKM when ordering.

Model 681mGFO-HP (High Pressure)

CODE	DN	Size mm				Weight Kg	Unit Per Pc.
		L	I	H1	h		
75 66 97	15	142	80	102	33	1.2	
98	20	158	90	102	33	1.3	
99	25	180	100	130	45	2.4	
75 69 16	32	193	105	130	45	2.6	
17	40	226	130	165	70	5.5	
75 69 18	50	252	140	165	70	6.0	
Inlet Pressure		Up to 40 bar					
Outlet Pressure		5 - 15 bar					

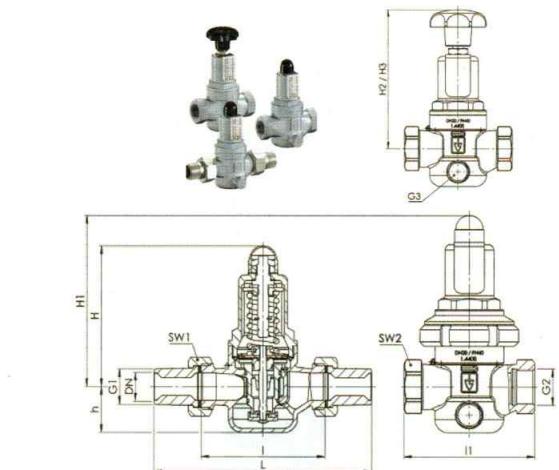
Goetze KG: 681mGFO-HP

**Please specify the seal from EPDM or FKM when ordering.

Series 481 (Stainless Steel):

Seats for version 481: DN15 to DN50 made of stainless steel

Component	Material	DIN EN	ASME/ANSI
Body	Stainless Steel	1.4408	CF8M
Internal Parts	Stainless Steel	1.4408/1.4404	CF8M/316 L
Pressure Spring	Spring steel with anti-rust protection	1.1200	ASTM A228
Strainer	Stainless steel	1.4404	316 L

**Model 481mGFO-LP (Low Pressure)**

CODE	DN	Size mm				Weight Kg	Unit Per Pc.
		L	I	H1	h		
75 69 19	15	142	80	128	33	1.5	
20	20	158	90	128	33	1.6	
27	25	180	100	150	45	2.8	
28	32	193	105	150	45	3.0	
29	40	226	130	185	70	5.9	
75 69 30	50	252	140	185	70	6.4	
Inlet Pressure		Up to 25 bar					
Outlet Pressure		0.5 - 2 bar					

Goetze KG: 481mGFO-LP

**Please specify the seal from EPDM or FKM when ordering.

Model 481mGFO-SP (Standard Pressure)

CODE	DN	Size mm				Weight Kg	Unit Per Pc.
		L	I	H1	h		
75 69 37	15	142	80	102	33	1.2	
38	20	158	90	102	33	1.3	
39	25	180	100	130	45	2.3	
40	32	193	105	130	45	2.5	
49	40	226	130	165	70	5.2	
75 69 50	50	252	140	165	70	5.7	
Inlet Pressure		Up to 40 bar					
Outlet Pressure		1 - 8 bar					

Goetze KG: 481mGFO-SP

**Please specify the seal from EPDM or FKM when ordering.

Model 481mGFO-HP (High Pressure)

CODE	DN	Size mm				Weight Kg	Unit Per Pc.
		L	I	H1	h		
75 69 59	15	142	80	102	33	1.2	
60	20	158	90	102	33	1.3	
68	25	180	100	130	45	2.3	
69	32	193	105	130	45	2.5	
70	40	226	130	165	70	5.2	
75 69 78	50	252	140	165	70	5.7	
Inlet Pressure		Up to 40 bar					
Outlet Pressure		5 - 15 bar					

Goetze KG: 481mGFO-HP

**Please specify the seal from EPDM or FKM when ordering.

Pressure Reducing Valves

Gunmetal & Stainless Steel with Threaded Connection

Válvulas Reductoras de Presión, Gunmetal con conexión rosada
ネジ式砲金減圧弁 减压阀，炮铜色，带螺纹连接

Marine Type Approvals held for these valves:

- DNV
- Bureau Veritas,
- Lloyd's Register EMEA
- Russian Maritime Register of Shipping

Balanced single seat pressure reducing valves with threaded connections made of gunmetal/ stainless steel.

Either with Fabric reinforced diaphragm made of high-quality, heat-resistant moulded elastomer or with piston. Body with pressure gauge connection G1/4" on both sides of body.

Available in various versions:

- Version code: **mXXXSM**:
with elastomeric moulded diaphragm and seal made of FKM or EPDM
max. inlet pressure: 60 bar, outlet pressure: 0.5 to 15 bar.
- Version code: **kXXXSK / kXXXHK**:
with piston made of brass and seals made of FKM or EPDM
kXXXSK: max. inlet pressure: 60 bar,
outlet pressure: 5 to 30 bar
kXXXHK: max. inlet pressure: 60 bar,
outlet pressure: 10 to 50 bar
- Version code: **xGSXX**:
for compressed air and gases with secondary venting
(for non-neutral, poisonous gases only in combination with ducted exhaust)
- Version code: **xGFOXX**:
for liquids & gases (without secondary venting)

Also available in **Stainless Steel**: series 484.

How to order: CODE

Pressure Reducing Valve (DIN), with threaded connection, Gunmetal, Version with diaphragm or piston – depending on pressure rating (mXXXSM, kXXXSK or kXXXHK), Version for which kind of medium (xGSXX or xGFOXX), SIZE DIN

Example code:

684mGSSM-20-f/20/20 FKM

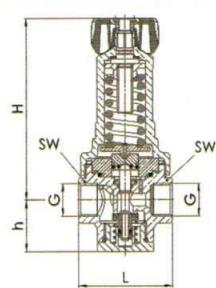
series 684 **mXXXSM**: diaphragm

xGSXX: with secondary venting

20-f/20/20: size DN20 with female BSP-P threads
FKM: seals and diaphragm made of FKM

Series 684:

Component	Material	DIN EN	ASME
Body	Gunmetal	CC499K	CC499K
Internal Parts	Brass	CW617N	CW617N
Spring	Spring steel with anti-rust protection	1.1200	ASTM A228



DN8 to DN25

DN40 & DN50

Model 684mGSSM

with elastomer moulded diaphragm and seals for gases & compressed air **with secondary venting**.

CODE	DN	Size mm				Weight Kg
		L	H	h	SW	
75 74 56	8	68	120	33	26	1.2
	57	68	120	33	26	1.2
	58	60	120	33	26	1.2
	59	78	180	40	32	2.8
	60	102	215	56	44	5.3
	40	136	260	63	58	9.4
75 74 61	50	136	270	70	70	10.2
	Up to 60 bar					
Inlet Pressure		0.5 - 15 bar				
Goetze KG: 684mGSSM						

Model 684mGFOSM

with elastomer moulded diaphragm and seals for liquids & gases **without secondary venting**.

CODE	DN	Size mm				Weight Kg
		L	H	h	SW	
75 74 63	8	68	120	33	26	1.2
	64	68	120	33	26	1.2
	65	60	120	33	26	1.2
	66	78	180	40	32	2.8
	67	102	215	56	44	5.3
	40	136	260	63	58	9.4
75 74 68	50	136	270	70	70	10.2
	Up to 60 bar					
Inlet Pressure		0.5 - 15 bar				
Goetze KG: 684mGFOSM						

Model 684kGSSK

with piston made of brass and seal made of FKM or EPDM for gases & compressed air **with secondary venting**.

CODE	DN	Size mm				Weight Kg
		L	H	h	SW	
75 74 70	8	68	120	33	26	1.2
	10	68	120	33	26	1.2
	15	60	120	33	26	1.2
	20	78	180	40	32	2.8
	25	102	215	56	44	5.3
	40	136	260	63	58	9.4
75 74 75	50	136	270	70	70	10.2
	Up to 60 bar					
Inlet Pressure		5 - 30 bar				
Goetze KG: 684kGSSK						

Model 684kGFOSK

with piston made of brass and seals made of FKM or EPDM for liquids & gases **without secondary venting**.

CODE	DN	Size mm				Weight Kg
		L	H	h	SW	
75 74 77	8	68	120	33	26	1.2
	10	68	120	33	26	1.2
	15	60	120	33	26	1.2
	20	78	180	40	32	2.8
	25	102	215	56	44	5.3
	40	136	260	63	58	9.4
75 74 82	50	136	270	70	70	10.2
	Up to 60 bar					
Inlet Pressure		5 - 30 bar				
Goetze KG: 684kGFOSK						

Model 684kGSHK

with piston made of brass and seals made of FKM or EPDM for gases & compressed air **with secondary venting**.

CODE	DN	Size mm				Weight Kg	Unit Per Pcs.
		L	H	h	SW		
75 74 84	8	68	120	33	26	1.2	
85	10	68	120	33	26	1.2	
86	15	60	120	33	26	1.2	
87	20	78	180	40	32	2.8	
88	25	102	215	56	44	5.3	
75 74 89	40	136	260	63	58	9.4	
90	50	136	270	70	70	10.2	

Inlet Pressure

Up to 60 bar

Outlet Pressure

10 - 50 bar

Goetze KG: 684kGSHK

Model 684kGFOHK

with piston made of brass and seals made of FKM or EPDM for liquids & gases **without secondary venting**.

CODE	DN	Size mm				Weight Kg	Unit Per Pcs.
		L	H	h	SW		
75 74 91	8	68	120	33	26	1.2	
92	10	68	120	33	26	1.2	
93	15	60	120	33	26	1.2	
94	20	78	180	40	32	2.8	
95	25	102	215	56	44	5.3	
75 74 96	40	136	260	63	58	9.4	
97	50	136	270	70	70	10.2	

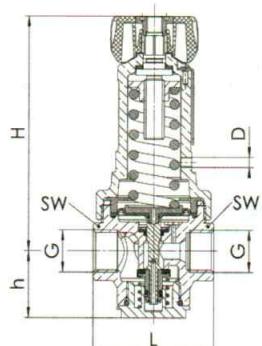
Inlet Pressure

Up to 60 bar

Outlet Pressure

10 - 50 bar

Goetze KG: 684kGFOHK

**Series 484
(Stainless Steel)**

Component	Material	DIN EN	ASME
Body	Stainless steel	1.4408	CF8M
Internal Parts	Stainless steel	1.4404	316 L
Spring	Stainless steel	1.4568	631

Model 484mGSSM

with elastomer moulded diaphragm and seals made of FKM or EPDM for gases & compressed air **with secondary venting**.

CODE	DN	Size mm				Weight Kg	Unit Per Pcs.
		L	H	h	SW		
75 78 01	8	68	120	33	26	1.1	
02	10	68	120	33	26	1.1	
03	15	60	120	33	26	1.1	
04	20	78	180	40	32	2.5	
05	25	102	215	56	44	4.5	
75 78 06	40	136	260	63	58	8.1	
07	50	136	270	70	70	8.8	

Inlet Pressure

Up to 60 bar

Outlet Pressure

0.5 - 15 bar

Goetze KG: 484mGSSM

Model 484mGFOSM

with elastomer moulded diaphragm and seals made of FKM or EPDM for liquids & gases **without secondary venting**.

CODE	DN	Size mm				Weight Kg	Unit Per Pcs.
		L	H	h	SW		
75 78 08	8	68	120	33	26	1.1	
09	10	68	120	33	26	1.1	
10	15	60	120	33	26	1.1	
11	20	78	180	40	32	2.5	
12	25	102	215	56	44	4.5	
75 78 13	40	136	260	60	58	8.1	
14	50	136	270	70	70	8.8	

Inlet Pressure

Up to 60 bar

Outlet Pressure

0.5 - 15 bar

Goetze KG: 484mGFOSM

Model 484kGSSK

with piston made of Stainless steel and seals made of FKM or EPDM for gases & compressed air **with secondary venting**.

CODE	DN	Size mm				Weight Kg	Unit Per Pcs.
		L	H	h	SW		
75 78 15	8	68	120	33	26	1.1	
16	10	68	120	33	26	1.1	
17	15	60	120	33	26	1.1	
18	20	78	180	40	32	2.5	
19	25	102	215	56	44	4.5	
75 78 20	40	136	260	63	58	8.1	
21	50	136	270	70	70	8.8	

Inlet Pressure

Up to 60 bar

Outlet Pressure

5 - 30 bar

Goetze KG: 484kGSSK

Model 484kGFOSK

with piston made of Stainless steel and seals made of FKM or EPDM for liquids & gases **without secondary venting**.

CODE	DN	Size mm				Weight Kg	Unit Per Pcs.
		L	H	h	SW		
75 78 22	8	68	120	33	26	1.1	
23	10	68	120	33	26	1.1	
24	15	60	120	33	26	1.1	
25	20	78	180	40	32	2.5	
26	25	102	215	56	44	4.5	
75 78 27	40	136	260	63	58	8.1	
28	50	136	270	70	70	8.8	

Inlet Pressure

Up to 60 bar

Outlet Pressure

5 - 30 bar

Goetze KG: 484kGFOSK

Model 484kGSHK

with piston made of Stainless steel and seals made of FKM or EPDM for neutral gases (compressed air) **with secondary venting**.

CODE	DN	Size mm				Weight Kg	Unit Per Pcs.
		L	H	h	SW		
75 78 29	8	68	120	33	26	1.1	
30	10	68	120	33	26	1.1	
31	15	60	120	33	26	1.1	
32	20	78	180	40	32	2.5	
33	25	102	215	56	44	4.5	
75 78 34	40	136	260	60	58	8.1	
35	50	136	270	70	70	8.8	

Inlet Pressure

Up to 60 bar

Outlet Pressure

10 - 50 bar

Goetze KG: 484kGSHK

Model 484kGFOHK

with piston made of Stainless steel and seals made of FKM or EPDM for liquids & gases **without secondary venting**.

CODE	DN	Size mm				Weight Kg
		L	H	h	SW	
75 78 36	8	68	120	33	26	1.1
37	10	68	120	33	26	1.1
38	15	60	120	33	26	1.1
39	20	78	180	40	32	2.5
40	25	102	215	56	44	4.5
75 78 41	40	136	260	63	58	8.1
42	50	136	270	70	70	8.8

Goetze KG: 484kGFOHK

Pressure Reducing Valves**Gunmetal with Female Connections**

Válvulas Reductoras de Presión, Bronce de cañón con conexiones hembra
ソケット式砲金減圧弁 減压阀，炮铜色，内螺纹连接

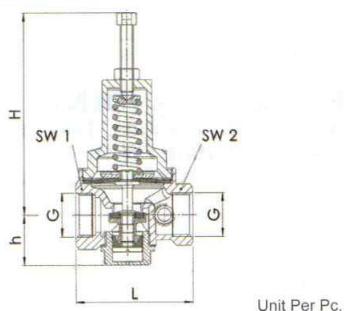
Marine Type Approvals held for these valves:

- DNV
- American Bureau of Shipping
- Russian Maritime Register of Shipping
- Lloyd's Register EMEA
- Bureau Veritas

Pressure reducer with female connections made of gunmetal with balanced single seat valve for use in shipbuilding and offshore plants. Suitable for compressed air and neutral gases. Body with G 1/4" connection for pressure gauge on both sides.

Largest reduction ratio: 10:1

Component	Material	DIN EN	ASME
Body, Insert	Gunmetal	CC499K	CC499K
Outlet body	Gunmetal	CC499K	CC499K
Internal parts	Brass	CW617N	CW617N
Spring	Spring steel	1.1200	ASTM A228



CODE	DN	Size mm			Weight Kg
		L	H	h	
75 65 71	10	73	100	22	0.5
72	15	73	100	22	0.5
73	20	70	120	30	0.8
74	25	87	165	35	1.4
75	32	100	175	43	2.0

Inlet Pressure Up to 50 (DN32 – 30 bar)

Outlet Pressure 1.5 - 10 bar

Goetze KG: 683GO

Pressure Relief Valves**Gunmetal with threaded connections**

Válvulas de alivio de presión, Gunmetal con conexiones rosadas
砲金・減压安全弁

泄压阀，炮铜材质，螺纹连接

Marine Type Approvals held for these valves:

- DNV
- American Bureau of Shipping
- Russian Maritime Register of Shipping
- Lloyd's Register EMEA
- Bureau Veritas

Pressure relief valve for the protection of pressure tanks, systems for neutral / non-neutral vapours, gases and liquids, steam boilers and steam plants.

Available models:

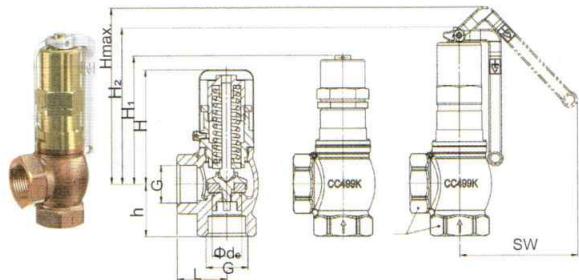
- 628 sGFL with lifting lever
- 628 tGFO gastight version without lifting lever

Available seals:

- NBR
- FKM
- PTFE

Series 628 (Gunmetal):

Component	Material	DIN EN	ASTM/AISI
Body	Gunmetal	CC499K	CC499K
Internal parts	Brass/Gunmetal	CW617N / CC499K	CW617N / CC499K
Spring	Stainless steel	1.4310	302

**628 sGFL with lifting lever**

CODE	75 78 51	75 78 52	75 78 53	75 78 54	75 78 55	Unit Per Pcs.	
						75 78 56	75 78 57
Nom Dia (DN)	10	15	20	25	32	40	50
Range of Adjustment						0.2 - 20 bar	
L	27	30	33	40	45	50	60
Lmax	84	84	84	84	120	120	120
H/H1	55/66	62/74	73/83	90/100	111/117	130/136	135/146
H2/Hmax	73/100	82/108	89/117	108/134	127/168	149/190	158/197
h	26	30	35	41	45	51	60
d0	10	13	19	25	30	38	50
Weight Kg	0.3	0.4	0.6	1.0	1.6	2.3	3.2

Goetze KG: Model 628 sGFL

628 tGFO gastight version (without lifting lever)

CODE	75 78 58	75 78 59	75 78 60	75 78 61	75 78 62	Unit Per Pcs.	
						75 78 63	75 78 64
Nom Dia (DN)	10	15	20	25	32	40	50
Range of Adjustment						0.2 - 20 bar	
L	27	30	33	40	45	50	60
Lmax	84	84	84	84	120	120	120
H1	66	74	83	100	117	136	146
h	26	30	35	41	45	51	60
d0	10	13	19	25	30	38	50
Weight Kg	0.3	0.4	0.6	1.0	1.6	2.3	3.2

Goetze KG: Model 628 tGFO

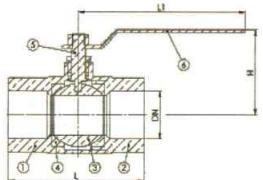
DIN Ball Valves**Ball Valves (DIN)***Bronze, BSP Female Threaded Ends**Pressure Rating PN40*

Bronze, extremos rosados hembra BSP

DIN 型青銅 BSP 雌ネジボールバルブ

青铜，BSP 内螺纹端头

Two piece, full bore, bronze body ball valve with hard chromed brass ball and PTFE seat. BSPP female threaded ends.



Pressure and Temperature Range: PN40, -10°C/+120°C

Material Specification

Component	Material	EN and/or (DIN)
Body	Copper Alloy	CC491K
Ball	Brass	CW617N
Seat	Plastic	PTFE
Stem	Brass	CW614N
Lever	DN8-65	AISI304
Lever	DN80	Galvanized steel

How to order: CODE

Ball valve (DIN), bronze, BSP female threaded ends, pressure rating PN40, SIZE DN

Unit Per Pcs.

CODE	DN	Inch	Size mm			Weight Kg
			L	H	L1	
75 66 01	8	1/4"	51	47.5	85	0.2
02	10	3/8"	51	47.5	85	0.2
03	15	1/2"	62	45	85	0.3
04	20	3/4"	70	57.5	104	0.4
05	25	1"	85	57.5	104	0.6
75 66 06	32	1-1/4"	99	75	122	1.0
07	40	1-1/2"	110	77.5	122	1.3
08	50	2"	134	93	153	2.4
09	65	2-1/2"	142	119.5	200	3.5
10	80	3"	178	134	280	6.0

MESON Model No.: 503.5.5.7.1

Ball Valves (DIN)

Stainless Steel, BSP Female Threaded Ends, Full Bore

Válvulas de bola (DIN), Acero inoxidable, extremos roscados, hembra BSP Paso total

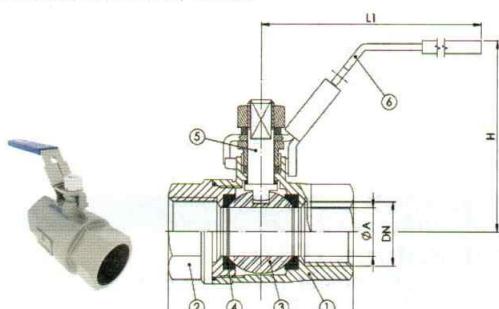
ボールバルブ (DIN) ステンレス鋼、BSP 雌ネジフルボア

球阀 (DIN) 不锈钢, BSP 内螺纹端全孔

Two-piece ball valve with full bore, stainless steel body, stainless steel ball and PTFE seat, BSP or NPT female thread connection. Actuated by means of a lockable lever with PVC sleeve.

Applications:

Corrosive fluid, Fuel oil, Lubricating oil, Flammable hydraulic oil, Cargo oil, Non-flammable hydraulic fluid, Boiler feedwater, Condensate, Sea water, Water.



Pressure and Temperature Range: 69 bar, -20°C to +170°C

Material Specification

Component	Material	EN and/or (DIN)
Body	Stainless steel	A351 CF8M
Cap	Stainless steel	A351 CF8M
Ball	Stainless steel	A351 CF8M
Seat	PTFE	PTFE
Stem	Stainless steel	AISI 316
Handle	Stainless steel	AISI 304

BSP Female Threaded Ends

How to order: CODE

Ball valve (DIN), stainless steel, BSP female threaded ends, full bore, SIZE DN

Unit Per Pcs.

CODE	DN	Inch	Size mm				Weight Kg
			ΦA	H	L	L1	
75 66 65	8	1/4"	9.2	54	54	110	0.2
	66	10	3/8"	12.8	55	54	110
	67	15	1/2"	15	58	57	115
	68	20	3/4"	20	61	68	115
	69	25	1"	25	77	80	128
75 66 70	32	1-1/4"	32	81	91	128	1.0
	71	40	1-1/2"	38	90	103	155
	72	50	2"	50	108	124	155
	73	65	2-1/2"	65	132	160	260
	74	80	3"	80	145	185	260

MESON Model No.: 503.4.4.7.6

NPT Female Threaded Ends

How to order: CODE

Ball valve (DIN), stainless steel, NPT female threaded ends, full bore, SIZE DN

Unit Per Pcs.

CODE	DN	Inch	Size mm				Weight Kg
			ΦA	H	L	L1	
75 65 89	8	1/4"	9.2	54	54	110	0.2
	90	10	3/8"	12.8	55	54	110
	91	15	1/2"	15	58	57	115
	92	20	3/4"	20	61	68	115
	93	25	1"	25	77	80	128
75 65 94	32	1-1/4"	32	81	91	128	1.0
	95	40	1-1/2"	38	90	103	155
	96	50	2"	50	108	124	155
	97	65	2-1/2"	65	132	160	260
	98	80	3"	80	145	185	260

MESON Model No.: 503.4.4.7.6

Ball Valves (DIN)

Bronze, DIN Flanges, Two-Piece, Full Bore Pressure Rating PN 16

Válvulas de bola (DIN) Bronce, bridas DIN, dos piezas, paso total

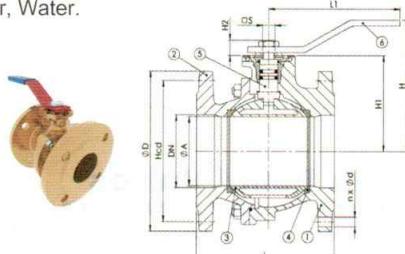
ボールバルブ (DIN) 青銅、DIN フランジ、ツーピース、フルボア

球阀 (DIN) 青铜, DIN 法兰, 两件式, 全孔

Two-piece bronze body ball valve with full bore, stainless steel ball and PTFE seat, raised face flange connection rated DIN PN 16. Actuated by lever.

Applications:

Fuel oil, Lubricating oil, Flammable hydraulic oil, Cargo oil, Non-flammable hydraulic fluid, Boiler feedwater, Condensate, Sea water, Water.



Pressure and Temperature Range: 16 bar, -20°C to +150°C

Material Specification

Component	Material	EN and/or (DIN)
Body	Bronze	CC491K
Ball	Stainless steel	AISI316
Cap	Bronze	CC491K
Seat	PTFE	PTFE
Stem	Stainless steel	AISI316

How to order: CODE

Ball valve (DIN), bronze, DIN flanges, two-piece, full bore, pressure rating PN 16, SIZE DN

Unit Per Pcs.

CODE	DN	Size mm					Weight Kg
		Hcd	Fd	H	L	L1	
75 69 98	15	65	95	84	115	160	2.8
75 66 75	20	75	105	84	120	160	3.0
76	25	85	115	96	125	170	4.8
77	32	100	140	101	130	170	6.5
78	40	110	150	125	140	230	9.3
75 66 79	50	125	165	135	150	230	11.5
80	65	145	185	143	170	230	16.0
81	80	160	200	165	180	280	20.6
82	100	180	220	180	190	360	28.4
83	125	210	250	225	200	520	41.2

MESON Model No.: 500.5.4.7.1

Ball Valves (DIN)

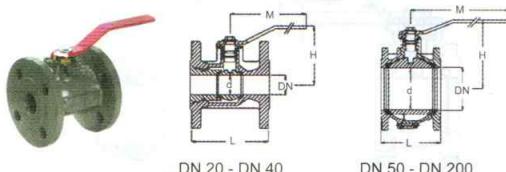
Cast Iron, DIN Flanges, 2-way, Full Bore Pressure Rating PN 16

Válvulas de bola (DIN), Hierro fundido, bridas DIN, 2 vías, paso total
ボールバルブ (DIN) 鋳鉄、DIN フランジ、2 方向、フルボア
球阀 (DIN) 铸铁, DIN 法兰, 2 通, 全孔

Ball valve with full bore, floating ball and flange connection rated DIN PN 16. Actuated by lever. Also available with a pneumatic or electric actuator. This type of ball valve is generally used in heating, air conditioning and industrial systems for water and gases up to a maximum of 16 bar (PN 16 version).

Pressure and Temperature Range

Size	Pressure Rating	Temperature Range	-10°C	+70°C	+90°C	+150°C
DN20- DN200	PN 16	-10°C /+150°C	16 bar	16	16	8

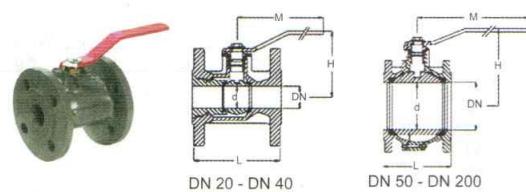
Brass Ball & Stem Type**Material Specification**

Component	Material	EN and/or (DIN)
Body	Cast iron	GJL-250 (GG-25)
Ball and Stem	Brass	CuZn40Pb2
Ball Seat (+ Graphite)	PTFE	
Lever (Lacquered)	Steel	
O-rings	NBR	

How to order: CODE

Ball valve (DIN), Cast Iron, DIN flanges, 2-way, full bore, brass ball and stem, pressure rating PN 16 SIZE DN

CODE	DN	Size mm				Weight Kg
		d	H	L	M	
75 66 86	20	20	85	120	130	2.5
	25	25	95	125	170	3.2
88	32	32	100	130	170	4.4
89	40	40	118	140	220	5.5
90	50	50	125	150	220	8.5
75 66 91	65	63	152	170	284	11.5
92	80	76	166	180	284	15.5
93	100	95	180	190	360	20
94	125	120	225	200	447	30
95	150	145	242	210	560	36
75 66 96	200	190	320	400	1,000	93

Stainless Steel Ball & Stem Type**Material Specification**

Component	Material	EN and/or (DIN)
Body	Cast iron	GJL-250 (GG-25)
Ball and Stem	Stainless steel	X5CrNi18-10
Ball Seat (+ Graphite)	PTFE	
Lever (Lacquered)	Steel	
O-rings	NBR	

How to order: CODE

Ball valve (DIN), cast iron, DIN flanges, 2-way, full bore, pressure rating PN 16, stainless steel ball and stem, SIZE DN

Unit Per Pcs.

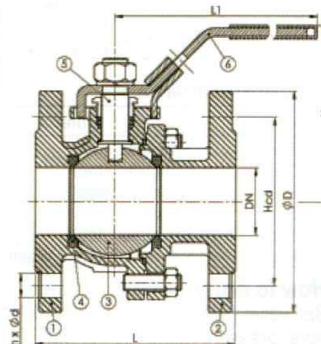
CODE	DN	Size mm				Weight Kg
		d	H	L	M	
75 67 01	20	20	85	120	130	2.5
02	25	25	95	125	170	3.2
03	32	32	100	130	170	4.4
04	40	40	118	140	220	5.5
05	50	50	125	150	220	8.5
75 67 06	65	63	152	170	284	11.5
07	80	76	166	180	284	15.5
08	100	95	180	190	360	20
09	125	120	225	200	447	30
10	150	145	242	210	560	36
75 67 11	200	190	320	400	1,000	93

Ball Valves (DIN)

Cast Steel, DIN Flange, Non-direct Mounting Pad, Pressure Rating PN40

Válvulas de bola (DIN), Acero fundido, brida DIN, pie de montaje no directo
ボールバルブ (DIN) 鋼鉄、DIN フランジ
球阀 (DIN) 铸钢, DIN 法兰, 非直接安装垫板

Two piece, full bore, cast steel body ball valve with stainless steel ball with relief hole and TFM4215 seat. Raised face flanges, pressure rating PN40.

**How to order: CODE**

Ball valve (DIN), Cast Iron, DIN flanges, 2-way, full bore, brass ball and stem, pressure rating PN 16 SIZE DN

PN 16**Pressure and Temperature Range**

Size	Pressure Rating	Temp. Range	-30°C	+50°C	+100°C	+150°C	+200°C	+230°C
DN15 - DN150	PN16	-30°C / +230°C	16 bar	15	13	13	11	7.6

How to order: CODE

Ball valve (DIN), cast steel, DIN wafer type, 2-way, pressure rating PN 16, SIZE DN

CODE	DN	Size mm					Weight Kg
		d	L	M	H	H1	
75 68 43	15	15	42	145	49	77	1.4
44	20	20	44	145	55	82	1.8
45	25	25	50	175	62	94	2.4
46	32	32	60	175	72	104	3.9
47	40	38	65	194	78	114	4.9
75 68 48	50	50	80	194	86	120	8.6
75 67 87	65	63.5	110	265	108	158	10.1
88	80	76	120	265	116	165	14.5
89	100	95	150	400	139	182	22.7
75 68 49	125	118	180	600	176	224	50
75 68 50	150	142	225	800	192	268	70

PN 40**Pressure and Temperature Range**

Size	Pressure Rating	Temp. Range	-30°C	+50°C	+100°C	+150°C	+200°C	+230°C
DN15-DN50		-30°C / +230°C	39 bar	37	34	32	19	7.6
DN65-DN100	PN40		39 bar	37	34	28	16	7.6
DN125-DN150		+230°C	30 bar	28	25	19	12	7.6

How to order: CODE

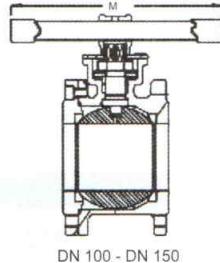
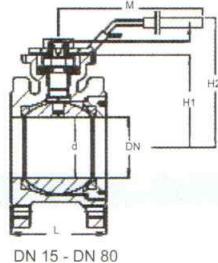
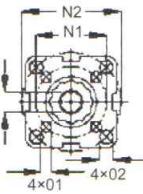
Ball valve (DIN), cast steel, DIN wafer type, 2-way, pressure rating PN 40, SIZE DN

CODE	DN	Size mm					Weight Kg
		d	L	M	H	H1	
75 67 81	15	15	42	145	49	77	1.4
82	20	20	44	145	55	82	1.8
83	25	25	50	175	62	94	2.4
84	32	32	60	175	72	104	3.9
85	40	38	65	194	78	114	4.9
75 67 86	50	50	80	194	86	120	8.6
75 68 57	65	63.5	110	265	108	158	10.1
58	80	76	120	265	116	165	14.5
59	100	95	150	400	139	182	22.7
60	125	118	180	600	176	224	50
75 68 64	150	142	225	800	192	268	70

Ball Valves (DIN)**Stainless Steel, DIN Wafer Type, 2-way
Pressure rating PN 16 and 40**

Válvulas de bola (DIN), Acero inoxidable, DIN Tipo Wafer, 2 vías
ボールバルブ (DIN), ステンレス鋼、DIN ウエハータイプ
球阀 (DIN), 不锈钢, DIN 对夹式, 2 通

Wafer type ball valve with full bore, floating ball and flange connection to DIN PN16 or PN40. Actuated by means of a lever or T-bar. This type of ball valve is generally used in industrial systems such as steam, water, gases, and corrosive media, up to a maximum of 40 bar (PN40 version).

**Material Specification**

Component	Material	EN and/or (DIN)
Body	Stainless steel	GX5CrNiMo19-11-2 (G-X6CrNiMo 18-10)
Ball	Stainless steel	GX5CrNiMo19-11-2 (G-X6CrNiMo 18-10)
Stem	Stainless steel	X5CrNiMo 17-12-2
Ball Seat (Reinforced)	PTFE(TFM1600)	
Stem Seal	PTFE	
O-ring	FKM (Viton)	
Body Gasket	PTFE	
Lever(DN15-80) *1	Stainless steel	X5CrNi18-10
T-bar(DN100-150) *1	Galvanized steel	

*1 Covered with PVC sleeve, color blue.

PN 16**Pressure and Temperature Range**

Size	Pressure Rating	Temp. Range	-30°C	+50°C	+100°C	+150°C	+200°C	+230°C
DN15 - DN50	PN16	-30°C / +230°C	16 bar	15	13	13	11	7.6

How to order: CODE

Ball valve (DIN), stainless steel, DIN wafer type, 2-way, pressure rating PN 16, SIZE DN

CODE	DN	Size mm					Weight Kg
		d	L	M	H	H1	
75 68 74	15	15	42	145	49	77	1.4
92	20	20	44	145	55	82	1.8
93	25	25	50	175	62	94	2.4
94	32	32	60	175	72	104	3.9
95	40	38	65	194	78	114	4.9
75 68 96	50	50	80	194	86	120	8.6
75 67 97	65	63.5	110	265	108	158	10.1
98	80	76	120	265	116	165	14.5
99	100	95	150	400	139	182	22.7
75 68 97	125	118	180	600	176	224	50
75 68 98	150	142	225	800	192	268	70

PN 40**Pressure and Temperature Range**

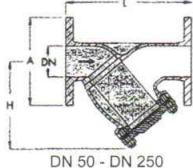
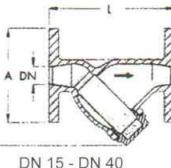
Size	Pressure Rating	Temp. Range	-30°C	+50°C	+100°C	+150°C	+200°C	+230°C
DN15-DN50		-30°C / +230°C	39 bar	37	33	30	19	7.6
DN65-DN100	PN40		39 bar	37	33	28	16	7.6
DN125-DN150		+230°C	30 bar	28	25	19	12	7.6

How to order: CODE

Ball valve (DIN), stainless steel, DIN wafer type, 2-way, pressure rating 40, SIZE DN

Unit Per Pcs.

CODE	DN	Size mm					Weight Kg
		d	L	M	H	H1	
75 67 91	15	15	42	145	49	77	1.4
92	20	20	44	145	55	82	1.8
93	25	25	50	175	62	94	2.4
94	32	32	60	175	72	104	3.9
95	40	38	65	194	78	114	4.9
75 67 96	50	50	80	194	86	120	8.6
75 68 99	65	63.5	110	265	108	158	10.1
75 69 00	80	76	120	265	116	165	14.5
12	100	95	150	400	139	182	22.7
13	125	118	180	600	176	224	50
75 69 14	150	142	225	800	192	268	70

DIN Flanged End

DN 15 - DN 40

DN 50 - DN 250

Perforation Size

Size	Perforation Size		
	Standard Φ mm	Fine Φ mm	Coarse Φ mm
DN 15 thru DN 50	1.0		
DN 65 and DN 80	1.25		
DN 100 thru DN 250	0.25		3.0
	0.6		

Material Specification

Component	Material	EN and/or (DIN)		
		Diam.	Height	Area [cm²]
Body	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))		
Threaded Cap thru DN80	Brass			
Bolted Cover starting from DN100	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))		
Strainer Element up to DN80	Stainless steel	X5CrNi18-10		
Strainer Element from DN 100	Nickel			

How to order: CODE

Strainer (DIN), bronze, Y-type, DIN flanged end, SIZE DN

Unit Per Pcs.

CODE	DN	Size mm			Weight Kg	Strainer		
		A	L	H		Diam.	Height	Area [cm²]
75 68 11	15	95	125	70	1.5	23	56	40
12	20	105	140	80	2.4	28	68	60
13	25	115	160	95	3.2	36	82	93
14	32	140	180	115	5.5	42	98	129
15	40	150	200	125	6.6	50	114	179
75 68 16	50	165	230	165	11	62	119	230
17	65	185	265	185	15	79	134	330
18	80	200	285	205	20	90	149	419
19	100	220	360	295	35.5	105	265	874
20	125	250	420	330	58	130	310	1,265
75 68 21	150	285	460	380	87	155	340	1,655
22	200	340	590	485	128	205	450	2,897
23	250	395	750	640	210	258	595	4,820

Strainers (DIN)

Cast Iron , DIN Flanged Ends

Pressure Rating PN 16

Filtros (DIN) Hierro fundido , DIN Extremos con bridas

ストレーナー (DIN) 鋳鉄、DIN フランジ

过滤器 (DIN) 铸铁， DIN 法兰端

Suitable for use in horizontal and vertical pipelines with a downward flow.

**Perforation Size**

Size	Perforation Size		
	Standard Φ mm	Fine Φ mm	Coarse Φ mm
DN 10 thru DN 50	1.0		
DN 65 and DN 80	1.25		
DN 100 thru DN 400	0.25		3.0
	1.6		

Material Specification

Component	Material	EN and/or (DIN)		
		Diam.	Height	Area [cm²]
Body	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))		
Threaded Cap	Brass			
Strainer Element	Stainless steel	X5CrNi18-10		

Pressure and Temperature Range

Maximum operating pressure 16 bar

Maximum operating temperature 200°C

How to order: CODE

Strainer (DIN), bronze, Y-type, BSP female threaded, SIZE DN

Unit Per Pcs.

CODE	DN	Size mm		Weight Kg	Strainer		
		L	H		Diam.	Height	Area [cm²]
75 68 01	1/4"	72	45	0.4	18	48	27
02	3/8"	72	45	0.4	18	48	27
03	1/2"	85	55	0.5	23	56	40
04	3/4"	100	65	0.8	28	68	60
05	1"	120	75	1.2	36	82	93
75 68 06	1-1/4"	140	90	1.9	42	98	129
07	1-1/2"	160	100	2.5	50	114	179
08	2"	205	160	6.0	62	119	230
09	2-1/2"	245	185	11	79	134	330
10	3"	265	205	13	90	149	419

Material Specification

Component	Material	EN and/or (DIN)
Body	Cast iron	GJL-250 (GG-25)
Bolted Cover	Cast iron	GJL-250 (GG-25)
Strainer Element	Stainless steel	X5CrNi18-10

Pressure and Temperature Range

16 bar – 120°C

13 bar – 200°C

How to order: CODE

Strainer (DIN), cast iron, Y-type, DIN flanged end, pressure rating PN 16, SIZE DN

Unit Per Pcs.

CODE	DN	Size mm			Weight Kg	Strainer			Unit Per Pcs.
		A	L	H		Diam. mm	Height mm	Area [cm²]	
75 68 25	15	95	130	90	4	23	56	40	
26	20	105	150	100	5	28	68	60	
27	25	115	160	115	6	36	82	93	
28	32	140	180	125	8	42	98	129	
29	40	150	200	150	10	50	114	179	
75 68 30	50	165	230	160	13	61.5	119	230	
31	65	185	290	180	19	78.5	134	330	
32	80	200	310	215	24.5	89.5	149	419	
33	100	220	350	235	35	109.5	169	581	
34	125	250	400	275	51	138	199	859	
75 68 35	150	285	480	305	71	160	224	1,125	
36	200	340	600	390	144	210	284	1,873	
37	250	395	730	540	175	258	434	3,516	
38	300	445	850	680	290	308	555	5,368	
75 69 15	400	580	1,100	835	461	415	695	8,947	

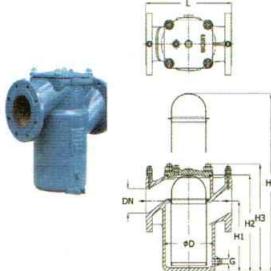
Strainers (DIN)

Single Basket, DIN Flanges PN10/16

Ductile Cast Iron

Filters (DIN), Cesta simple, bridgas DIN PN10/16, Fundición dúctil
ストレーナー (DIN) DIN フランジ ダクタイル鋳鉄
过滤器 (DIN) 单篮筐, DIN 法兰 PN10/16, 球墨铸铁

Simplex Basket Strainer for general use. Fitted with a fluid drain plug and suitable for use in horizontal pipe lines only. Ductile Cast Iron body with epoxy coating treatment on the surface (internal and external). Maximum differential pressure at 20°C is 1 bar.

**Material specification**

Component	Material	EN and/or (DIN)
Body and cover	Ductile cast iron	GJS-500-7(GGG-50)
Cover seal	NBR	
Drain plug	Stainless Steel	
Material bleed screw	Stainless steel	

How to order: CODE

Strainer (DIN), single, basket, ductile cast iron, DIN flanges PN 10/16, SIZE DN

Unit Per Pcs.

CODE	DN	L	D	H1	H2	H3	H4	G	Weight Kg
87 20 52	20	171	81	156	178	220	330	3/8"	6
53	25	171	81	156	178	220	330	3/8"	6
54	32	189	102	164	214	250	420	3/8"	15
55	40	189	102	164	214	250	420	3/8"	15
56	50	189	102	164	214	250	420	3/8"	15
87 20 57	65	230	127	214	282	315	530	3/8"	25
58	80	279	168	235	313	350	610	3/8"	28
59	100	317	176	324	427	465	810	3/8"	42
60	125	379	222	324	452	510	900	3/8"	55
61	150	461	262	389	540	580	1,090	3/8"	75

(to be continued)

CODE	DN	L	D	H1	H2	H3	H4	G	Weight Kg
87 20 62	200	605	322	489	694	745	1,340	3/8"	140
63	250	604	402	605	815	880	1,550	3/8"	195
64	300	719	472	730	974	1,035	1,860	3/8"	300

DIN Mud Boxes**Cast Iron Mud Boxes (DIN)**

Basket Type, Raised face flanged according to DIN PN 10

Cajas de lodo de hierro fundido (DIN)

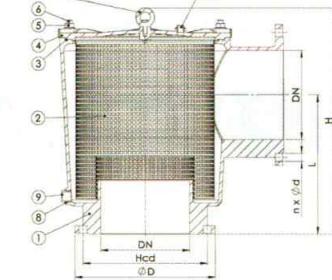
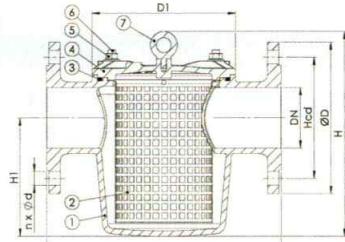
Tipo cesta, cara elevada con brida según DIN PN 10

鍛鉄製マッドボックス (DIN)

铸铁泥浆箱 (DIN), 篮式,

凸面法兰, 符合 DIN PN 10

标准



Mud boxes are installed in suction pipes aboard vessels to protect pumps against large solids. Straight type, Cast Iron body and bonnet mud box with Stainless Steel strainer. Fitted with bonnet lifting eyebolt. Raised face flanges.

Material Specification

Component	Material	EN and/or (DIN)
Body	Cast Iron	GG-25
Disk	Stainless Steel	1.4432
O-ring	Rubber	NBR
Bonnet	Cast Iron	GG25

Applications

Fuel oil, Lubricating oil, Flammable hydraulic oil, Sea water, Water.

How to order : CODE

Mud box (DIN), basket type, cast iron, flat flanged according to DIN PN 10, STRAIGHT or ANGLE, SIZE DN

Straight

CODE	DN	Size mm					Weight kg
		Hcd	D	L	H	D1	
87 20 65	40	110	150	200	191	111	95
66	50	125	165	230	208	136	106
67	65	145	185	290	239	172	134
68	80	160	200	310	270	190	156
69	100	180	220	350	309	350	185
87 20 70	125	210	250	400	385	400	229
71	150	240	285	480	436	480	268
73	200	295	340	600	538	387	335
74	250	350	395	600	589	479	355
84	300	400	478	600	640	479	380

MESON Model No.: 100.1.9.9.1

Angle

CODE	DN	Size mm						Weight kg	Unit per Pc.
		Hcd	D	L	H	D ₁	H ₂		
87 20 75	40	110	150	125	228	136	179	8.9	
76	50	125	165	135	241	172	198	12	
77	65	145	185	150	265	190	231	15	
78	80	160	200	175	297	229	263	21	
79	100	180	220	195	347	270	318	27	
87 20 80	125	210	250	220	381	302	365	38	
81	150	240	285	270	455	387	424	56	
83	200	295	340	300	523	479	528	92	
85	250	350	395	390	635	479	655	113	
86	300	400	478	450	729	639	769	172	
87 20 87	350	460	505	400	735	665	862	250	

MESON Model No.: 101.1.9.9.1

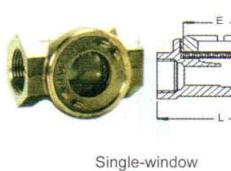
DIN Sight Glasses**Sightglasses (DIN)****Brass, BSP Female Threaded Ends**

Mirillas (DIN), Latón, extremos roscados hembra BSP

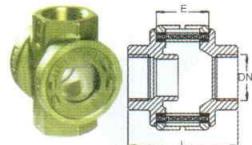
サイトグラス (DIN)、黄銅、BSP 離ネジ端

视镜 (DIN) 黄铜, 英制锥螺纹内螺纹端头

The small sizes are generally used to check the operation of the steam traps. For checking the liquid flow in open systems as well as a possible discolouring of liquids in open and closed systems (such as lubricating oil).



Single-window



Double-window

Material Specification

Component	Material	EN and/or (DIN)
Single-window		
Body	Brass	
Glass	Soda lime	
Gaskets	Graphite	
Double-window		
Body and cover (1/2" thru 1")	Brass	
Body (DN 1/" thru 2")	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Glass	Soda lime	
Gaskets	Graphite	

Pressure and Temperature Range

Pressure and Temperature Range	Max. Pressure	Max. Temperature
5 bar – 90°C/3.5 bar – 148°C	5 bar	148°C

Single Window Type**How to order: CODE**

Sight glass (DIN), brass BSP female threaded ends, single window, SIZE DN

CODE	DN	Size mm		Weight Kg	CODE	DN	Size mm		Weight Kg	Unit Per Pcs.
		E	L				E	L		
75 68 61	1/2"	50	89	0.6	75 68 63	1"	50	89	0.9	
62	3/4"	50	89	0.7						

Double Window Type**How to order: CODE**

Sight glass (DIN), brass or bronze, BSP female threaded ends, double window, SIZE DN

CODE	d	Size mm		Weight Kg	CODE	d	Size mm		Weight Kg	Unit Per Pcs.
		E	L				E	L		
75 68 75	1/2"	50	89	0.9	75 68 78	1-1/4"	50	108	1.8	
76	3/4"	50	89	0.9	79	1-1/2"	50	108	1.9	
77	1"	50	89	1.2	80	2"	50	114	2.5	

Note: Material of body 1/2" to 1" = Brass, 1-1/4" to 2"= Bronze

DIN Overflow Valves**Overflow & Pressure Control Valves**
Gunmetal

Válvulas de rebose y de control de presión, Bronce de cañón

DIN 型砲金圧力逃がし弁

溢流阀和压力控制阀，炮铜色

Marine Type Approvals held for these valves:

- DNV
- Lloyd's Register EMEA
- American Bureau of Shipping
- Bureau Veritas
- Russian Maritime Register of Shipping

Overflow and pressure control valves made of gunmetal with stainless steel spring. Suitable for liquids, steam and gaseous media.

Available models:

- 618 tGFO Gastight version

Available seals:

- NBR
- PTFE
- FKM

Ranges of adjustment: 0.2 - 0.8 bar

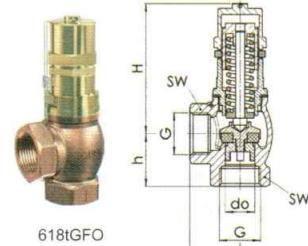
0.5 - 2.5 bar

2.0 - 12 bar

12 - 20 bar with PTFE seal

Valves can be delivered unset within a pressure range or set and sealed at the factory.

Component	Material	DIN EN	ASME
Inlet body	Gunmetal	CC499K	CC499K
Outlet body	Gunmetal	CC499K	CC499K
Internal parts	Brass/Gunmetal	CW617N/CC499K	CW617N/CC499K
Spring	Stainless steel	1.4310	302

**618tGFO Gastight version****NBR Seal**

CODE	DN	Size mm					Weight Kg
		L	H	h	SW	d0	
75 69 71	G3/8"	27	66	26	24	10	0.3
72	G1/2"	29	74	30	28	13	0.4
73	G3/4"	34	83	35	34	19	0.7
74	G1"	42	100	43	41	25	1.2
75	G1-1/4"	46	117	46	52	30	1.9
75 69 76	G1-1/2"	51	136	52	58	38	2.5
77	G2"	60	146	61	70	50	3.8

Range of Adjustment 0.2 - 20 bar

Goetze KG : Models 618tGFO NBR

PTFE Seal

Unit Per Pcs.

CODE	DN	Size mm					Weight Kg
		L	H	h	SW	d0	
75 69 61	G3/8"	27	66	26	24	10	0.3
62	G1/2"	29	74	30	28	13	0.4
63	G3/4"	34	83	35	34	19	0.7
64	G1"	42	100	43	41	25	1.2
65	G1-1/4"	46	117	46	52	30	1.9
75 69 66	G1-1/2"	51	136	52	58	38	2.5
67	G2"	60	146	61	70	50	3.8

Range of Adjustment 0.2 - 20 bar

Goetze KG : Models 618tGFO PTFE

Overflow Valves**Gunmetal & Stainless Steel**

Válvulas de rebose , Bronce de cañón y acero inoxidable

砲金ステンレス製オーバーフロー弁

溢流阀、炮铜和不锈钢

Marine Type Approvals held for these valves:

- DNV
- Lloyd's Register EMEA
- American Bureau of Shipping
- Bureau Veritas
- Russian Maritime Register of Shipping

Overflow and pressure control valves made of gunmetal with stainless steel spring. Suitable for liquids, steam and gaseous media. Adjustable under operating conditions without medium escaping in the atmosphere. Gastight version of spring housing.

Available models:

- 617tGFO gastight version for gases and liquids - without lifting device

Available seals :

- NBR
- FKM
- EPDM
- PTFE

Ranges of adjustment: 0.5 – 2.5 bar

2.0 – 8.0 bar

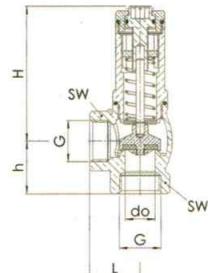
2.0 – 12 bar

12 – 20 bar (with PTFE seal)

Valves can be delivered unset within a pressure range or set and sealed at the factory.

All models are also available in **Stainless Steel** : series 417.**Series 617 (Gunmetal)**

Component	Material	DIN EN	ASME
Inlet Body	Gunmetal	CC499K	CC499K
Outlet Body	Gunmetal	CC499K	CC499K
Internal Parts	Brass	CW617N	CW617N
Spring	Stainless steel	1.4310	302

**How to order: CODE**

Overflow Valve (DIN), Gunmetal, MODEL "617tGFO", SIZE DN, SPECIFY THE SEALS FROM "NBR", "FKM", or "PTFE"

Model 617tGFO gastight version for gases and liquids - without lifting device

Unit Per Pcs.

CODE	DN	Size mm					Weight Kg
		L	H	h	SW	d0	
75 71 61	G3/8"	27	60	26	24	10	0.3
62	G1/2"	30	69	30	28	13	0.4
63	G3/4"	33	86	35	34	19	0.7
64	G1"	40	101	41	41	25	1.2
65	G1-1/4"	45	118	45	52	30	1.9
75 71 66	G1-1/2"	50	139	51	58	38	2.5
67	G2"	60	149	60	70	50	3.8

Range of Adjustment 0.2 - 20 bar

Goetze KG : Models 617tGFO

**Please specify the seal from NBR, FKM and PTFE when ordering.

Series 417 (Stainless Steel)

Component	Material	DIN EN	ASTM / AISI
Inlet Body	Stainless steel	1.4404/1.4408	316L/CF-8M
Outlet body	Stainless steel	1.4404/1.4408	316L/CF-8M
Internal Parts	Stainless steel	1.4404	316L
Spring	Stainless steel	1.4310	302

**How to order: CODE**

Overflow Valve (DIN), Stainless Steel, MODEL "417tGFO", SIZE DN, SPECIFY THE SEALS FROM "NBR", "FKM" OR "PTFE"

Model 417tGFO gastight version for gases and liquids without lifting device

Unit Per Pcs.

CODE	DN	Size mm					Weight Kg
		L	H	h	SW1	SW2	
75 71 68	G3/8"	30	60	29	26	24	10
69	G1/2"	34	69	33	30	27	13
70	G3/4"	40	86	36	36	31	0.7
71	G1"	46	101	48	46	41	1.2
72	G1-1/4"	50	118	52	55	50	30
75 71 73	G1-1/2"	61	139	60	58	65	38
74	G2"	67	149	66	70	70	3.8

Range of Adjustment 0.2 - 20 bar

Goetze KG : Models 417tGFO

**Please specify the seal from NBR, FKM and PTFE when ordering.

Overflow Valves**Gunmetal & Stainless Steel with Stainless Steel Spring**

Válvulas de rebose , Bronce de cañón y acero inoxidable con muelle de acero inoxidable

砲金ステンレス製オーバーフロー弁

溢流阀、炮铜和不锈钢材质，带不锈钢弹簧

Marine Type Approvals held for these valves:

- DNV
- Lloyd's Register EMEA
- American Bureau of Shipping
- Bureau Veritas
- Russian Maritime Register of Shipping
- Registro Italiano Navale

Angular shaped spring loaded overflow valves made of gunmetal with stainless steel spring – externally adjustable. Suitable for the protection of pumps against overloading in closed circuits for neutral / non neutral, non-sticking liquids and for the control of systems under pressure for neutral / non-neutral gases and vapours and – depending on the sealing material – also for steam. with bellows without lifting device.

Available models:

- 853 bGFO
with bellows, for gases and liquids without lifting device

Available seals :

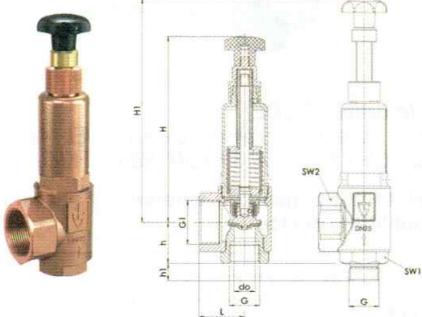
- NBR
- EPDM
- FKM
- PTFE
- FFKM

Valves can be delivered unset within a pressure range or set and sealed at the factory.

Series also available in **Stainless Steel**: Series 453.

Series 853 (Gunmetal)

Component	Material	DIN EN	ASME
Inlet body	Gunmetal	CC499K	CC499K
Outlet body	Gunmetal	CC499K	CC499K
Internal parts	Stainless steel	1.4404	316L
Bellows	Stainless steel	1.4571	316Ti
Spring	Stainless steel	1.4310	302

**How to order: CODE**

Overflow Valve (DIN), Gunmetal, with Stainless Steel Spring, MDL "853bGFO", SIZE DN, SPECIFY THE SEALS FROM "NBR", "EPDM", "FKM", "PTFE", or "FFKM"

Model 853bGFO

Unit Per Pc.

CODE	DN	Connec-tion	Size mm								Weight Kg
			G1	L	H	H1	h	h1	SW1	SW2	
75 71 75	15	G1/2"	1"	40	102	120	30	16	30	40	0.5
76	20	G3/4"	1-1/4"	43	169.5	190.5	39	14	36	50	1
77	25	G1"	1-1/2"	50	223	248.5	45	19	46	58	2
78	32	G1-1/4"	2"	61	318	344	55	21	55	70	4.2
79	32	G1-1/2"	2"	61	318	344	69	22.5	55	70	30
75 71 86	32	G2"	2"	61	318	344	74	25	70	70	4.7

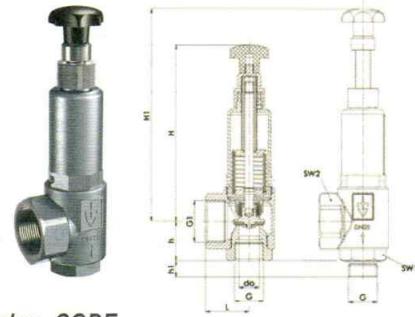
Range of Adjustment 0.5 - 50 bar

Goetze KG: 853bGFO

**Please specify the seal from NBR, EPDM, FKM, PTFE or FFKM when ordering.

Series 453 (Stainless Steel)

Component	Material	DIN EN	ASME
Inlet body	Stainless Steel	1.4404	316L
Outlet body	Stainless Steel	1.4408	CF8M
Internal parts	Stainless Steel	1.4404	316L
Bellows	Stainless Steel	1.4571	316Ti
Spring	Stainless Steel	1.4310	302

**How to order: CODE**

Overflow Valve (DIN), Stainless Steel, with Stainless Steel Spring, MDL "453bGFO", SIZE DN, SPECIFY THE SEALS FROM "NBR", "EPDM", "FKM", "PTFE", or "FFKM"

Model 453bGFO

Unit Per Pc.

CODE	DN	Connec-tion	Size mm								Weight Kg
			G1	L	H	H1	h	h1	SW1	SW2	
75 71 81	15	G1/2"	1"	40	102	120	30	16	30	40	0.5
82	20	G3/4"	1-1/4"	43	169.5	190.5	39	14	36	50	1
83	25	G1"	1-1/2"	50	223	248.5	45	19	46	58	2
84	32	G1-1/4"	2"	61	318	344	55	21	55	70	4.2
85	32	G1-1/2"	2"	61	318	344	69	22.5	55	70	30
75 71 86	32	G2"	2"	61	318	344	74	25	70	70	4.7

Range of Adjustment 0.5 - 70 bar

Goetze KG: 453bGFO

**Please specify the seal from NBR, EPDM, FKM, PTFE or FFKM when ordering.

Overflow Valves
Gunmetal & Stainless Steel

Válvulas de rebose de bronce industrial y acero inoxidable
砲金/ステンレス製オーバーフロー弁
炮铜/不锈钢制 溢流阀

Marine Type Approvals held for these valves:

- DNV
- Lloyd's Register EMEA
- American Bureau of Shipping
- Bureau Veritas
- Russian Maritime Register of Shipping
- Registro Italiano Navale

Overflow and pressure control valves made of gunmetal and spring made of Spring steel with anti-rust protection with threaded connections. For protection of pumps against overloading in closed circuits for neutral, non-neutral, non-sticking liquids and for control of systems under pressure for air, neutral / non-neutral gases and vapours.

Standard thread: BSPTm. Also available in female BSP-P for sizes up to 1" (PLEASE CLEARLY INDICATE IN THE ORDER: "f" or "BSPTm/BSPTm").

Valves can be delivered unset within a pressure range or set and sealed at the factory (against surcharge).

Set pressure: 0.5 – 10 bar

Ranges of adjustment: 0.5 – 2 bar
1.5 – 6 bar
5.5 – 10 bar

Available seals : EPDM, FKM

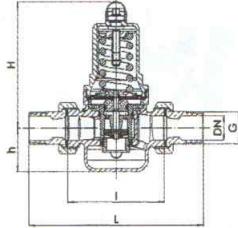
Also available in **Stainless Steel**: series 430.

How to order: CODE

Overflow Valve (DIN), Gunmetal, MDL "630mGFO" SIZE DN, SPECIFY THE SEALS FROM "EPDM" or "FKM"

Series 630 (Gunmetal)

Component	Material	DIN EN	ASME
Inlet body	Gunmetal	CC499K	CC499K
Outlet body	Gunmetal	CC499K	CC499K
Internal parts	Gunmetal brass	CC499K/CW617N	CC499K/CW617N
Valve seat	Stainless steel	CW617N	316L
Spring	Stainless steel with anti-rust protection	1.4404	ASTM A228
		1.1200	



CODE	DN	Size mm				Weight Kg
		L	I	H	h	
75 71 87	15	142	80	102	33	1.2
88	20	158	90	102	33	1.4
89	25	180	100	130	45	2.4
90	32	193	105	130	45	2.6
91	40	226	130	165	70	5.5
75 71 92	50	252	140	165	70	6

Range of Adjustment 0.5 - 10 bar

Goetze KG: 630mGFO

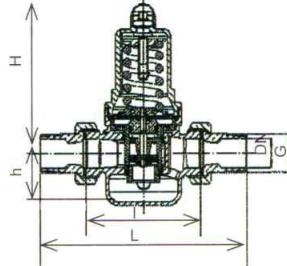
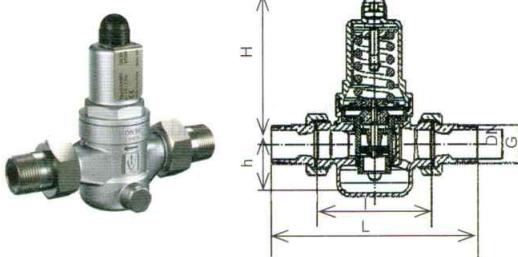
**Please specify the seal from EPDM or FKM when ordering.

Series 430 (Stainless Steel)

Component	Material	DIN EN	ASME
Body	Stainless steel	1.4408	CF-8M
Internal parts	Stainless steel	1.4408/1.4404	CF-8M / 316L
Valve seat	Stainless steel	1.4404	316L
Spring	Spring steel with anti-rust protection	1.1200	ASTM A228

How to order: CODE

Overflow Valve (DIN), Stainless Steel, MDL "430mGFO" SIZE DN, SPECIFY THE SEALS FROM "EPDM" or "FKM"



CODE	DN	Size mm				Weight Kg
		L	I	H	h	
75 71 93	15	142	80	102	33	1.2
94	20	158	90	102	33	1.3
95	25	180	100	130	45	2.3
96	32	193	105	130	45	2.5
97	40	226	130	165	70	5.2
75 71 98	50	252	140	165	70	5.7

Range of Adjustment 0.5 - 10 bar

Goetze KG: 430mGFO

**Please specify the seal from EPDM or FKM when ordering.

Overflow & Pressure Control Valves
Stainless SteelVálvulas de rebose y de control de presión, Acero inoxidable
ステンレス製オーバーフロー弁
溢流阀和压力控制阀、不锈钢**Marine Type Approvals held for these valves:**

- DNV
- Lloyd's Register EMEA
- American Bureau of Shipping
- Bureau Veritas
- Russian Maritime Register of Shipping

Overflow and pressure control valves made of Stainless steel. Suitable for liquids, steam and gaseous media. Gastight version of spring housing.

Available models:

- 418tGFO gastight version for gases and liquids - without lifting device

Available seals :

- NBR
- FKM
- PTFE
- EPDM

Ranges of adjustment: 0.2 – 1.2 bar

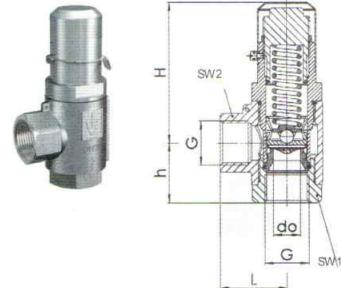
1.2 – 3.0 bar

2.0 – 12 bar

12 – 30 bar

Valves can be delivered unset within a pressure range or set and sealed at the factory.

Component	Material	DIN EN	ASME
Inlet body	Stainless steel	1.4404	316L
Outlet body	Stainless steel	1.4408	CF8M
Internal parts	Stainless steel	1.4404	316L
Spring	Stainless steel	1.4310	302

**How to order: CODE**

Overflow Valve (DIN), Stainless Steel, SIZE DN, MODEL "418tGFO", SPECIFY THE SEAL FROM "NBR", "FKM", "EPDM", or "PTFE"

Model 418tGFO

CODE	DN	Size mm						Weight Kg
		L	H	h	SW1	SW2	d0	
75 69 79	G3/8"	34	73	33	30	28	10	0.5
80	G1/2"	34	73	33	30	28	14	0.5
88	G3/4"	40	84	36	36	32	16	0.8
89	G1"	50	98	48	50	41	25	1.8
90	G1-1/4"	50	98	48	50	50	25	1.9

Range of Adjustment 0.2 - 30 bar

Goetze KG: 418tGFO

**Please specify the seal from NBR, FKM, EPDM, and PTFE when ordering.

Overflow Valves

Gunmetal & Stainless Steel

Válvulas de rebosé, Bronce de cañón y acero inoxidable
砲金、ステンレス製オーバーフロー弁
溢流阀、炮铜和不锈钢

Marine Type Approvals held for these valves:

- DNV
- Lloyd's Register EMEA
- American Bureau of Shipping
- Bureau Veritas
- Russian Maritime Register of Shipping
- Registro Italiano Navale

Overflow and pressure control valves made of gunmetal and spring made of Spring steel with anti-rust protection with flange connections. For protection of pumps against overloading in closed circuits for neutral, non-neutral, non-sticking liquids and for control of systems under pressure for air, neutral / non-neutral gases and vapours.

Ranges of adjustment:

0.5 - 2 bar	(From DN15 to DN 50)
1.5 - 6 bar	(From DN15 to DN 50)
5.5 - 10 bar	(From DN15 to DN 50)
1 - 5.5 bar	(DN100)
1 - 6 bar	(DN65 and DN80)

Available seals: EPDM, FKM

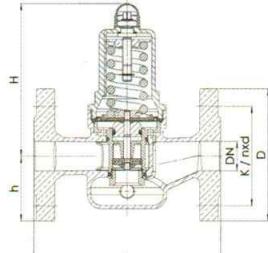
Also available in Stainless Steel: series 431.

How to order: CODE

Overflow Valve (DIN), Gunmetal, MDL "431mGFO" SIZE DN,
SPECIFY THE SEALS FROM "EPDM" or "FKM"

Series 631 (Gunmetal)

Component	Material	DIN EN	ASME
Body	Gunmetal	CC499K	CC499K
Internal parts	Gunmetal	CC499K	CC499K
	Brass	CW617N	CW617N
Valve seat	Stainless steel	1.4404	316L
Spring	Stainless steel	1.4404	316L
	Spring steel with anti-rust protection	1.1200	ASTM A228



Unit Per Pcs.

CODE	DN	PN	Size mm				Weight Kg
			L	D	H	h	
75 71 99	15	40	130	95	102	46	2.8
75 72 09	20	40	150	105	130	50	4.2
10	25	40	160	115	130	55	4.7
18	32	40	180	140	130	68	5.9
19	40	40	200	150	166	73	8.6
75 72 20	50	40	230	165	166	80	10.5
27	65	16	290	185	245	89	20
28	65	40	290	185	245	89	20
29	80	40	310	200	245	97	22
75 72 00	100	16	350	220	320	112	40

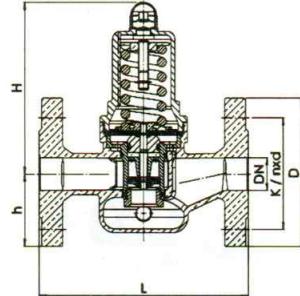
Range of Adjustment 0.5 - 10 bar (depending on size)

Goetze KG : 631mGFO

**Please specify the seal from EPDM or FKM when ordering.

Series 431 (Stainless Steel)

Component	Material	DIN EN	ASME
Body	Stainless Steel	1.4408	CF-8M
Internal Parts	Stainless Steel	1.4408/1.4404	CF-8M/316L
Valve seat	Stainless Steel	1.4404	316M
Pressure Spring	Spring steel with anti-rust protection.	1.1200	ASTM A228



How to order: CODE

Overflow Valve (DIN), Stainless Steel, MDL "431mGFO",
SIZE DN, SPECIFY THE SEALS FROM "EPDM" or "FKM"

Unit Per Pcs.

CODE	DN	PN	Size mm				Weight Kg
			L	D	H	h	
75 73 00	15	40	130	95	102	46	2.8
75 72 30	20	40	150	105	130	50	3.9
37	25	40	160	115	130	55	4.3
38	32	40	180	140	130	68	5.5
39	40	40	200	150	166	73	8.4
75 72 40	50	40	230	165	166	80	10.2
53	65	16	290	185	245	89	18.7
54	65	40	290	185	245	89	19
55	80	40	310	200	245	97	20.5
75 77 81	100	16	350	220	320	112	38

Range of Adjustment

0.5 - 10 bar (depending on size)

Goetze KG : 431mGFO

**Please specify the seal from EPDM or FKM when ordering.

DIN Safety Valves

Safety Relief Valves (DIN)

Brass, Spring-loaded, BSP Female Threaded Ends
Low Capacity Maximum 10 bar

Válvulas de Seguridad de Latón (según DIN)

DIN型真ちゅうネジ式安全弁 DIN型黄铜安全阀

Safety relief valves with threaded connection, can be used for many simple applications. Suitable for gases, vapours and liquids.

Specific features and applications:

Viton Disc Seal: Saturated steam and hot water, available including Stoomwezen/Lloyd's Register test certificate on request.

Nitrile Disc Seal: Including diaphragm, for water, air and other non-aggressive gases.



Material Specification

Component	Material	EN and/or (DIN)
Viton Disc Seal		
Body, Disc, Bonnet Disc Sealing Ring Spring	Brass FPM(Viton) Spring steel	CuZn39Pb3
Nitrile Disc Seal		
Body, Bonnet Diaphragm Spring	Brass NBR Spring steel	CuZn40Pb2

Temperature Range

Viton Disc Seal +150°C

Nitrile Disc Seal +95°C (for oil +30°C)

Viton Disc Seal without Disc Lever**How to order: CODE**

Safety relief valve (DIN), brass, spring-loaded, BSP female threaded ends, viton disc seal w/o disc lever, SIZE DN

CODE	DN	Size mm				Weight Kg	Unit Per Pcs.
		do	L1	L2	H		
75 70 01	1/2"	13	32	26	70	0.4	
02	3/4"	19	37	30	75	0.6	
03	1"	25	43	36	105	1.0	
04	1-1/4"	31	50	40	105	1.4	
05	1-1/2"	36	60	40	125	2.3	
75 70 06	2"	50	70	52	130	3.2	

Viton Disc Seal with Disc Lever**How to order: CODE**

Safety relief valve (DIN), brass, spring-loaded, BSP female threaded ends, viton disc seal w/o disc lever, SIZE DN

CODE	DN	Size mm				Weight Kg	Unit Per Pcs.
		do	L1	L2	H		
75 70 11	1/2"	13	32	26	110	0.8	
12	3/4"	19	37	30	121	1.0	
13	1"	25	43	36	147	1.5	
14	1-1/4"	31	50	40	150	2.0	
15	1-1/2"	36	60	40	175	3.3	
75 70 16	2"	50	70	52	171	4.0	

Nitrile Disc Seal with Disc Lever**How to order: CODE**

Safety relief valve (DIN), brass, spring-loaded, BSP female threaded ends, nitrile disc seal w/o disc lever, SIZE DN

CODE	DN	Size mm				Weight Kg	Unit Per Pcs.
		do	L1	L2	H		
75 70 21	1/2"	13	26	21	95	0.4	
22	3/4"	14	30	26	116	0.6	
23	1"	16	36	30	123	0.7	

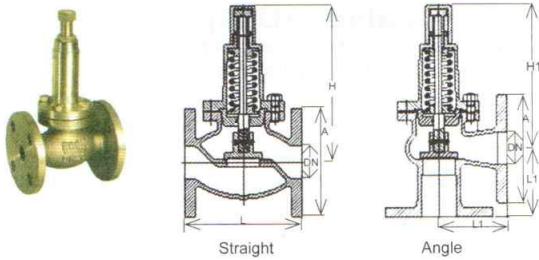
Overflow Valves (DIN)**Bronze, DIN Flanges, Globe Type****Straight and Angle Pattern**

Válvulas de Seguridad de Alivio (según DIN)

DIN型青銅安全リーフ弁 DIN型安全溢流閥

Bronze overflow valves are primarily applied in the maritime segment for pressure regulation in liquid systems. Suitable for salt and fresh water, oil, steam and air.

Remark: This valve may also be used as a safety valve aboard ships. In connection with the PED guidelines, this is not permitted for installations on land, if the set pressure is >0.5 bar.



Temperature Range: 120°C

Material Specification

Component	Material	EN and/or (DIN)
Body	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))
Disc, Stem, Guide Bush	Brass	CuZn39Pb3
Spring	Spring steel	
Gasket	Graphite	
Bonnet DN15-DN20	Brass	CuZn39Pb3
Bonnet DN25-DN125	Bronze	CuSn5Zn5Pb5-C (G-CuSn5ZnPb (Rg 5))

Capacity for Water in kg/hour at 20°C

P [bar]	DN [mm]									
	15	20	25	32	40	50	65	80	100	125
0.5	341	607	948	1553	2427	3792	6408	9706	15166	23697
1	483	858	1341	2196	3432	5362	9062	13727	21448	33513
1.5	591	1051	1642	2690	4203	6567	11098	16812	26268	41044
2	682	1213	1896	3106	4853	7583	12815	19412	30332	47394
3	836	1486	2322	3804	5944	9287	15695	23775	37148	58044
4	965	1716	2681	4393	6863	10724	18124	27453	42896	67025
5	1079	1918	2997	4911	7673	11990	20262	30693	47958	
6	1182	2101	3284	5380	8406	13134	22196	33623	52536	
7	1277	2270	3547	5811	9079	14187	23975	36317		
8	1365	2427	3792	6212	9706	15166	25631	38825		
9	1448	2574	4021	6589	10295	16086	27184			
10	1526	2713	4239	6945	10852	16956	28656			
11	1601	2845	4446	7284	11381	17784				
12	1672	2972	4644	7608	11887	18574				
13	1740	3093	4833	7919	12373	19333				
14	1806	3210	5016	8218	12840	20063				
15	1869	3323	5192	8506	13291	20767				
16	1930	3432	5362							

How to order: CODE

Overflow valve (DIN), bronze, DIN flanges, STRAIGHT or ANGLE, SIZE DN

Straight

CODE	DN	Max. Set Pressure (bar)	Size mm			Weight Kg
			A	L	H	
75 70 31	15	0 - 16	95	120	185	4.0
	32	0 - 16	105	120	185	4.1
	33	25	115	140	200	5.5
	34	32	140	150	200	7.8
	35	40	150	155	235	9.8
75 70 36	50	0 - 15	165	180	245	14.0
	37	65	185	200	330	18.0
	38	80	200	240	345	23.2
	39	100	220	270	435	35.5
	40	125	250	320	450	50

Angle

CODE	DN	Max. Set Pressure (bar)	Size mm			Weight Kg
			A	L1	H1	
75 70 41	15	0 - 16	95	65	175	4.0
42	20	0 - 16	105	65	175	4.1
43	25	0 - 16	115	70	185	5.5
44	32	0 - 15	140	90	185	7.8
45	40	0 - 15	150	90	220	9.8
75 70 46	50	0 - 15	165	105	225	14.0
47	65	0 - 10	185	115	320	18.0
48	80	0 - 8	200	125	335	23.2
49	100	0 - 6	220	145	395	35.5
50	125	0 - 4	250	174	490	50

Safety Valves (DIN)

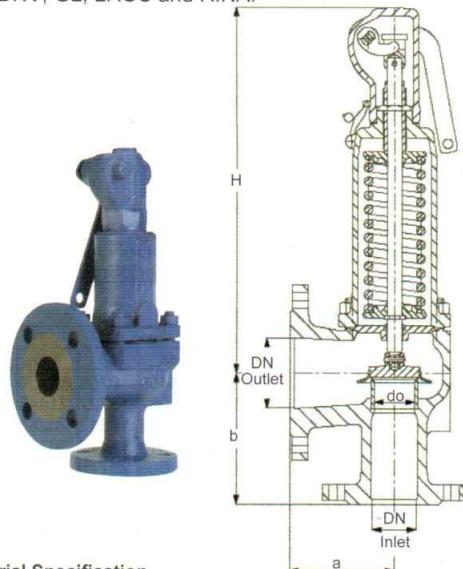
Cast Steel, Spring-Loaded, DIN Flanges, High Capacity Pressure Rating PN 40/16

Válvulas de Alivio de Seguridad (DIN) Acero Fundido, Brida DIN

DIN型鋳鋼フランジ式安全弁 安全阀 (DIN) 铸钢, DIN法兰

Full lift Safety Valves are mainly applied to vapours (including steam) and gases. Suitable for liquids in large volumes.

Type of Approval: TUV-SV,,, -576 D/G/F, PED, ASME NB, BV, DNV, GL, LROS and RINA.



Material Specification

Component	Material	EN and/or (DIN)
Body	Cast steel	GP240GH+N (GS-C25)
Seat	Stainless steel	X2CrNiMo17-12-2 (G-X2CrNiMo 18 10)
Disc	Stainless steel	X39CrMo17-1 (X35CrMo17)
Stem	Stainless steel	X20Cr13
Spring	Spring steel	
Bonnet	Ductile cast iron	GJS-400-15 (GGG-40)

Temperature Range (DIN EN): -85/+45°C*

*Above 200°C, provided with heat-resistant spring and above 400°C also provided with SS bolts and nuts for the bonnet.

Flange:

Inlet flange (on the bottom) – according to DIN PN40

Outlet flange (on the side) – according to DIN PN16

How to order: CODE

Safety valve (DIN), cast steel, spring-loaded, DIN flanged ends, pressure rating PN 40/16 SIZE DN

CODE	Unit Per Pcs.						
	DN	do	Max. Set Pressure (bar)	a	b	H	Weight Kg
Inlet	Outlet						
75 70 51	25	40	25	40	100	105	234 9
	52	32	50	29	40	110	331 12
	53	40	65	37	40	115	372 16
	54	50	80	46	40	120	419 22
	55	65	100	60	40	140	529 32
75 70 56	80	125	74	32	160	195	606 56
	57	100	150	92	40	180	220 663 75
	58	125	200	98	28	200	250 663 85
	59	150	250	125	17	225	285 735 131
	60	200	300	165	20	300	290 1,090 285

Capacity Table

- I Saturated steam in kg/h
- II Air at 0°C and 1,013 mbar in mm³/h
- III Water at 20°C in 10³ kg/h

DN	20			25			32		
	do	18		23			29		
p	I	II	III	I	II	III	I	II	III
0.2	85	99	3.19	139	161	5.21	222	257	8.28
0.5	134	157	4.51	219	257	7.37	348	409	11.7
1	198	237	6.11	324	386	9.97	515	614	15.9
2	317	383	8.64	517	625	14.1	822	993	22.4
3	427	522	10.6	697	852	17.3	1,108	1,354	27.5
4	533	655	12.2	870	1,069	19.9	1,382	1,700	31.7
5	638	788	13.7	1,041	1,287	22.3	1,656	2,047	35.5
6	743	922	15.0	1,213	1,505	24.4	1,928	2,393	38.8
7	845	1,055	16.2	1,380	1,723	26.4	2,193	2,739	42.0
8	949	1,189	17.3	1,550	1,941	28.2	2,464	3,086	44.8
9	1,053	1,322	18.3	1,719	2,159	29.9	2,733	3,432	47.6
10	1,157	1,456	19.3	1,889	2,377	31.5	3,003	3,778	50.1
12	1,365	1,722	21.2	2,228	2,812	34.6	3,542	4,471	54.9
14	1,568	1,989	22.9	2,560	3,248	37.3	4,070	5,164	59.3
16	1,775	2,256	24.4	2,898	3,684	39.9	4,608	5,856	63.4
18	1,983	2,523	25.9	3,237	4,119	42.3	5,147	6,549	67.3
20	2,191	2,790	27.3	3,577	4,555	44.6	5,686	7,242	70.9
22	2,392	3,057	28.7	3,906	4,991	46.8	6,209	7,934	74.4
24	2,600	3,324	29.9	4,246	5,427	48.9	6,750	8,627	77.7
26	2,809	3,590	31.1	4,586	5,862	50.9	7,291	9,320	80.9
28	3,018	3,857	32.3	4,928	6,298	52.8	7,835	10,012	83.9
30	3,228	4,124	35.5	5,271	6,734	54.6	8,379	10,705	86.3
32	3,439	4,391	34.6	5,615	7,169	56.4	8,926	11,398	89.7
34		4,658	35.6		7,605	58.2		12,090	92.5
36		4,925	36.7		8,041	59.8		12,783	95.1
38		5,192	37.7		8,476	61.5		13,476	97.7
40		5,459	38.6		8,912	63.1		14,169	100

DN	40			50			65		
	do	37		46			60		
p	I	II	III	I	II	III	I	II	III
0.2	361	418	13.5	558	646	20.8	949	1,099	35.4
0.5	566	665	19.1	875	1,028	29.5	1,489	1,749	50.1
1	839	999	25.8	1,296	1,545	39.9	2,205	2,628	67.9
2	1,339	1,617	36.5	2,069	2,499	56.4	3,520	4,251	69.0
3	1,804	2,204	44.7	2,788	3,406	69.1	4,744	5,795	118
4	2,250	2,768	51.6	3,478	4,278	79.8	5,918	7,278	136
5	2,695	3,331	57.7	4,165	5,149	89.2	7,087	8,761	152
6	3,138	3,895	63.2	4,850	6,021	97.7	8,252	10,243	166
7	3,570	4,459	68.3	5,518	6,892	106	9,388	11,726	180
8	4,010	5,023	73.0	6,198	7,763	113	10,545	13,208	192
9	4,450	5,587	77.4	6,878	8,635	120	11,701	14,691	204
10	4,889	6,150	81.6	7,556	9,506	126	12,856	16,173	215
12	5,766	7,278	89.4	8,913	11,249	138	15,163	19,138	235
14	6,625	8,405	96.6	10,241	12,992	149	17,423	22,104	254
16	7,501	9,533	103	11,594	14,735	160	19,725	25,069	271
18	8,378	10,661	110	12,949	16,478	169	22,030	28,034	288
20	9,256	11,788	115	14,306	18,220	178	24,339	30,999	304
22	10,107	12,916	121	15,623	19,963	187	26,579	33,964	318
24	10,987	14,043	126	16,982	21,706	195	28,892	36,929	333
26	11,869	15,171	132	18,345	23,449	203	31,211	39,894	346
28	12,753	16,298	137	19,712	25,192	211	33,537	42,859	359
30	13,640	17,426	141	21,083	26,935	219	35,869	45,824	372
32	14,530	18,554	146	22,459	28,677	226	38,210	48,790	384
34		19,681	151		30,420	233		51,755	396
36		20,809	155		32,163	239		54,720	407
38		21,936	159		33,906	246		57,685	418
40		23,064	163		35,649	252		60,650	429

DN	80			100			125		
do	74			92			98		
p	I	II	III	I	II	III	I	II	III
0.2	1,444	1,672	53.9	2,232	2,584	83.3	2,532	2,932	94.6
0.5	2,265	2,661	76.3	3,502	4,113	118	3,973	4,667	134
1	3,355	3,998	103	5,185	6,179	160	5,883	7,011	181
2	5,355	6,467	146	8,277	9,995	226	9,392	11,341	256
3	7,216	8,816	179	11,153	13,626	276	12,655	15,461	314
4	9,002	11,071	206	13,913	17,111	319	15,787	19,416	362
5	10,780	13,326	231	16,662	20,597	357	18,906	23,371	45
6	12,552	15,581	253	19,401	24,083	391	22,014	27,326	444
7	14,281	17,836	273	22,073	27,568	422	25,046	31,281	479
8	16,041	20,091	292	24,794	31,054	451	28,133	35,237	512
9	17,799	22,346	310	27,510	34,540	479	31,216	39,192	543
10	19,555	24,601	326	30,225	38,025	505	34,296	43,147	573
12	23,065	29,112	358	35,650	44,997	553	40,452	51,057	627
14	26,502	33,622	386	40,962	51,968	597	46,479	58,967	678
16	30,004	38,132	413	46,376	58,939	638	52,622	66,878	724
18	33,510	42,642	438	51,795	65,910	677	58,772	74,788	768
20	37,023	47,153	462	57,224	72,882	714	64,932	82,698	810
22	40,430	51,663	484	62,491	79,853	748	70,907	90,608	849
24	43,948	56,173	506	67,928	86,824	782	77,078	98,519	887
26	47,475	60,684	526	73,380	93,796	814	106,429	923	
28	51,013	65,194	546	78,848	100,767	844	114,339	958	
30	54,561	69,704	565	84,333	107,738	874	122,249	992	
32	58,121	74,214	584	89,835	114,710	903	130,160	1,024	
34		78,725	602		121,681	931		138,070	1,056
36		83,235	619		128,652	957		145,980	1,086
38		87,745	636		135,623	984		153,890	1,116
40		92,255	653		142,595	1,009		161,801	1,145

DN	150			200		
do	125			165		
p	I	II	III	I	II	III
0.2	4,120	4,770	154	7,178	8,311	268
0.5	6,464	7,593	218	11,263	13,230	379
1	9,572	11,407	295	16,678	19,876	513
2	15,280	18,452	417	26,623	32,150	726
3	20,589	25,154	510	35,873	43,828	889
4	25,685	31,589	589	44,753	55,040	1,027
5	30,758	38,023	659	53,593	66,252	1,148
6	35,815	44,458	722	62,404	77,463	1,257
7	40,748	50,893	779	71,000	88,675	1,358
8	45,770	57,327	833	79,750	99,887	1,452
9	50,786	63,762	884	88,489	111,099	1,540
10	55,797	70,197	932	97,221	122,311	1,623
12	65,812	83,066	1,021	114,671	144,734	1,778
14	75,619	95,936	1,102	131,758	167,158	1,921
16	85,612	108,805	1,178	149,170	189,582	2,053
18	95,617	121,674	1,250	166,603	212,005	2,178
20	105,639	134,544	1,317	184,066	234,429	2,296
22	115,361	147,413	1,382	201,005	256,853	2,408
24	124,339	160,282	1,443	218,496	279,276	2,515
26		173,152	1,502			
28		186,021	1,559			
30		198,891	1,614			
32		211,760	1,666			
34		224,629	1,718			
36		237,499	1,768			
38		250,368	1,816			
40		263,238	1,863			

Remark: I - Saturated steam in kg/hour
 II - Air in m³/hour at 0°C and 1,013 mbar
 III - Water at 20°C in 10³kg/hour

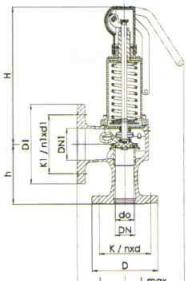
Safety Valves

Gunmetal with Stainless Steel Spring

Válvulas de seguridad, Bronce de cañón con muelle de acero inoxidable
 铜金安全弁
 安全阀、炮铜色，带不锈钢弹簧

Angular shaped spring-loaded safety valves use for the protection of thermostatically protected closed-circuit water heating systems with flow temperatures of up to 120°C for all static heights or rated output above 350 kW according to TRD 721, DIN 4751 and DIN EN 12828. Should the thermostatic limiting and control unit fail, the safety valve has to blow-off the total heating output of the boiler as hot water and steam. As these valves are completely made of metal they can also be installed at high environmental or radiation temperatures.

Component	Material	DIN EN	ASME
Inlet Body	Gunmetal	CC499K	CC499K
Outlet Body	Gunmetal	CC499K	CC499K
Internal Parts	Stainless steel	1.4404	316L
Spring	Stainless steel	1.4310	302
Bellows	Elastomere	EPDM	-



Unit Per Pcs.

CODE	75 62 79	75 62 80
Connection	DN 40 / PN 40	DN 50 / PN 40
Ranges of Adjustment	0.5 - 25 bar	
Size mm		
DN1 / PN1	DN 65 / PN 16	DN 80 / PN 16
H	345	345
h	140	150
L	115	120
Lmax	150	150
D	150	165
D1	185	200
K / n x d	110 / 4 x 18	125 / 4 x 18
K1 / n1 x d1	145 / 4 x 18	160 / 8 x 18
d0	37	46
Weight Kg	17	19

Goetz KG : Model 852 bHLL

Safety Valves

Gunmetal with Stainless Steel Spring

Válvulas de seguridad, Bronce de cañón con muelle de acero inoxidable
 铜金安全弁
 安全阀，炮铜色，带不锈钢弹簧

Angular shaped spring-loaded safety valves made of gunmetal with stainless steel spring. Internal parts are made of stainless steel. Suitable for the protection of pressure tanks and systems for neutral / non-neutral vapours, gases and liquids, steam boilers and steam plants, bulk transport vehicles for liquid, granular and dusty goods¹. Available four versions; Model 852 tGFO gastight without lifting device, Model 852 tGFL gastight with lifting lever, Model 852 bGFO with bellows and without lifting device and Model 852 bGFL with bellows and with lifting lever.

Model 852 tGFO/tGFL:

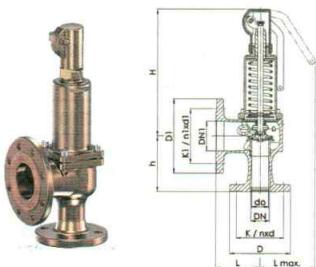
Sealed cap prevents unauthorized changing of set pressure.

Model 852 bGFO/bGFL:

Set pressure is protected by seal. Spring and sliding parts are protected by bellows.

¹only for versions with bellows

Component	Material	DIN EN	ASME
Inlet Body	Gunmetal	CC499K	CC499K
Outlet Body	Gunmetal	CC499K	CC499K
Internal Parts	Stainless steel	1.4404	316L
Spring	Stainless steel	1.4310	302
Bellows	Stainless steel	1.4571	316Ti

**Model 852tGFO: Gastight without Lifting Device**

Unit Per Pcs.

CODE	75 62 81	75 62 82
Connection	DN 40 / PN 40	DN 50 / PN 40
Ranges of Adjustment	0.5 - 25 bar	
Size mm		
DN1/PN1	DN 65 / PN 16	DN 80 / PN 16
H	345	345
h	140	150
L	115	120
D	150	165
D1	185	200
K / n x d	110 / 4 x 18	125 / 4 x 18
K1 / n1 x d1	145 / 4 x 18	160 / 8 x 18
d0	37	46
Weight kg	17	19

Goetze KG : Model 852tGFO

Model 852tGFL: Gastight with Lever for Lifting

Unit Per Pcs.

CODE	75 62 83	75 62 84
Connection	DN 40 / PN 40	DN 50 / PN 40
Ranges of Adjustment	0.5 - 25 bar	
Size mm		
DN1/PN1	DN 65 / PN 16	DN 80 / PN 16
H	345	345
h	140	150
Lmax	150	150
D	150	165
D1	185	200
K / n x d	110 / 4 x 18	125 / 4 x 18
K1 / n1 x d1	145 / 4 x 18	160 / 8 x 18
d0	37	46
Weight Kg	17	19

Goetze KG : Model 852tGFL

Model 852bGFO: with Bellows, without Lifting Device

Unit Per Pcs.

CODE	75 62 85	75 62 86
Connection	DN 40 / PN 40	DN 50 / PN 40
Ranges of Adjustment	0.5 - 25 bar	
Size mm		
DN1/PN1	DN 65 / PN 16	DN 80 / PN 16
H ¹	362	362
h	140	150
L	115	120
Lmax.	150	150
D	150	165
D1	185	200
K / n x d	110 / 4 x 18	125 / 4 x 18
K1 / n1 x d1	145 / 4 x 18	160 / 8 x 18
d0	37	46
Weight Kg	18	20

¹for bellow version
Goetze KG : Model 852bGFO

Model 852bGFL: with Bellows with Lever for Lifting

Unit Per Pcs.

CODE	75 62 87	75 62 88
Connection	DN 40 / PN 40	DN 50 / PN 40
Ranges of Adjustment	0.5 - 25 bar	
Size mm		
DN1 / PN1	DN 65 / PN 16	DN 80 / PN 16
H ¹	362	362
h	140	150
L	115	120
Lmax	150	150
D	150	165
D1	185	200
K / n x d	110 / 4 x 18	125 / 4 x 18
K1 / n1 x d1	145 / 4 x 18	160 / 8 x 18
d0	37	46
Weight Kg	18	20

¹for bellow version
Goetze KG : Model 852bGFL

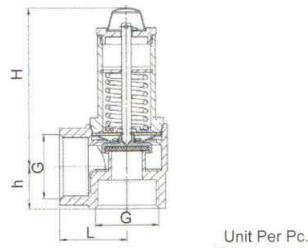
Diaphragm Safety Valves
Red Brass

Válvula de Seguridad de Diafragma Latón Rojo

丹銅ダイヤフラム安全弁 红铜隔膜式安全阀

Angular shape, spring loaded diaphragm safety valve made of Gunmetal. Seal cap prevents unauthorized changing of set pressure. Twist-type lifting mechanism. Installed diaphragm prevents medium from entering the spring chamber. Suitable for protecting closed-circuit water heating systems from -10°C to +95°C.

Component	Material	DIN EN	ASM
Inlet Body	Gunmetal	CC499K	CC499K
Outlet Body	Gunmetal	CC499K	CC499K
Internal Parts	Brass	CW617N	CW617N
Spring	Spring steel with anti-rust protection	1.1200	ASTM A228



Unit Per Pcs.

CODE	75 70 71	75 70 72	75 70 73
Connection	G 1/2"	G 3/4"	G 1"
Ranges of Adjustment	6; 8; 10 bar ¹		
Size mm	L	26	31
	H	70	70
	h	17	18
	SW	27	32
	D0	10	13
Weight Kg	0.2	0.3	0.5
CODE	75 70 74	75 70 75	75 70 76
Connection	G1-1/4"	G1-1/2"	G 2"
Ranges of Adjustment	6; 8; 10 bar ¹		
Size mm	L	40	46
	H	100	140
	h	25	28
	SW	49	56
	D0	18	22
Weight Kg	0.7	1.2	1.6

¹Other set pressures available on request against surcharge.

Goetze KG : Model 651mWIK

Diaphragm Safety Valves for heating and cooling, Gunmetal

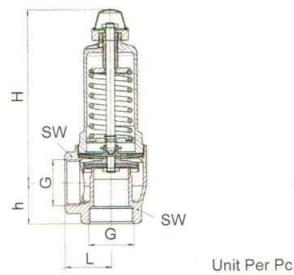
Válvulas de seguridad de diafragma para calefacción y refrigeración Gunmetal

砲金ダイヤフラム安全弁、冷暖房用

隔膜安全阀 用于加热和冷却 棕色

Angular shaped diaphragm safety valves made of gunmetal. Installed diaphragm prevents medium from entering spring chamber. Suitable for protecting thermostatically protected closed-circuit water heating systems with flow temperatures of up to 120 deg. C.

Component	Material	DIN EN	ASME
Inlet Body	Gunmetal	CC499K	CC499K
Outlet Body	Gunmetal	CC499K	CC499K
Internal Parts	Brass	CW617N	CW617N
Spring	Spring steel with anti-rust protection	1.1200	ASTM A228



Unit Per Pcs.

CODE	75 70 81	75 70 82	75 70 83	75 70 84	75 70 85
Connection	G 1/2"	G 3/4"	G 1"	G 1-1/4"	G 1-1/2"
Set Pressures	2.5; 3; 3.5 bar				
Size mm	H	65	72	86	160
	h	24	28	30	40
	L	26	30	38	42
	SW	26	32	39	49
	Weight Kg	0.25	0.4	0.7	1.6

¹Other set pressures available on request against surcharge.

Goetze KG : Model 651 mHIK

Safety Valves

Gunmetal & Stainless Steel with Stainless Steel Spring

Válvulas de seguridad, Bronce de cañón y acero inoxidable con muelle de acero inoxidable

砲金ステンレス製安全弁

安全阀 炮铜和不锈钢材质、带不锈钢弹簧

Marine Type Approvals held for these valves:

- DNV
- Lloyd's Register EMEA
- American Bureau of Shipping
- Bureau Veritas
- Russian Maritime Register of Shipping

Angular shaped spring loaded safety valves made of gunmetal/stainless steel with stainless steel spring. Sealing cap prevents unauthorized changing of set pressure. Suitable for the protection of pressure-vessels/-systems for neutral / non-neutral vapours, gases and liquids, steam boilers and steam plants, stationary silos and bulk transport vehicles for liquid, granular and powdery goods.

Available models:

- 851 sGK with twist-type lifting mechanism
- 851 sGL with lifting lever
- 851bGFK with bellows and twist-type lifting mechanism
- 851bGFL with bellows and lifting lever

Available seals:

- NBR
- EPDM
- FKM
- PTFE
- PTFE + carbon (standard from 25 bar)
- FFKM
- metal-to-metal sealing

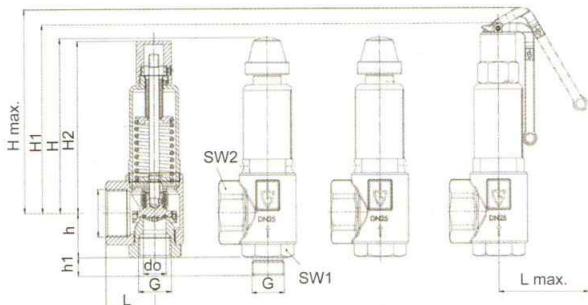
All models are also available in **Stainless Steel**: series 451.

Series 851 (Gunmetal)

Component	Material	DIN EN	ASME
Inlet Body	Gunmetal	CC499K	CC499K
Outlet Body	Gunmetal	CC499K	CC499K
Internal Parts	Brass	CW617N	CW617N
Spring	Stainless Steel	1.4310	302
Bellows (optional)	Bronze	CW452K	C51900

851sGK, 851bGFK
Size G1/2"851sGK, 851bGFK
Size over G1/2"

851sGL, 851bGFL



851sGK with twist-type lifting mechanism

Unit Per Pcs.

CODE	75 70 70	75 70 77	75 70 78	75 70 30	75 70 79
Connection	G 1/2"	G 1/2"	G 1/2"	G 3/4"	G 3/4"
Ranges of Adjustment	0.5-25 bar		25.1-50 bar	0.5-50 bar	
Size mm	G1	G 1/2"	1"	1"	3/4"
	L	34	40	40	42
	Lmax	65	65	65	91
	H	79	77	131	137
	H1	93	91	149	154
	H2	79	77	131	138
	Hmax	105	103	164	169
	h	28	30	30	31
	h1	15	15	15	16
	SW1	30	30	30	36
	SW2	-	40	40	32
	d0	15.8	15.8	15.8	15.8
	Weight Kg	0.4	0.4	0.8	1

CODE	75 71 19	75 71 20	75 71 32	75 71 33	Unit Per Pcs.
Connection	G1"	G1-1/4"	G1-1/2"	G 2"	
Ranges of Adjustment	0.5 - 50 bar				
Size mm	G1	G 1-1/2"	2"	2"	2"
	L	50	61	61	61
	Lmax	92	92	92	92
	H	178	241	241	241
	H1	192	264	264	264
	H2	175	241	. 241	241
	Hmax	207	277	277	277
	h	45	55	69	74
	h1	18	20	23	25
	SW1	46	55	55	70
	SW2	58	70	70	70
	d0	23	30.3	30.3	30.3
	Weight Kg	1.8	4.0	4.0	4.0

Goetze KG : Model 851sGL

851bGFK with bellows and twist-type lifting mechanism

Unit Per Pcs.

CODE	75 71 34	75 70 86	75 71 35	75 71 00	75 70 87
Connection	G 1/2"	G 1/2"	G 1/2"	G 3/4"	G 3/4"
Ranges of Adjustment	0.5-25 bar		25.1-50 bar	0.5 - 50 bar	
Size mm	G1	G 1/2"	1"	1"	3/4" G 1-1/4"
	L	34	40	40	42 43
	Lmax	65	65	65	91
	H	79	77	131	137
	H1	93	91	149	154
	H2	79	77	131	138
	Hmax	105	103	164	169
	h	28	30	30	31
	h1	15	15	15	16
	SW1	30	30	30	36
	SW2	-	40	40	32
	d0	15.8	15.8	15.8	15.8
	Weight Kg	0.4	0.4	0.8	1 1.8

Goetze KG : Model 851sGK

851sGL with lifting lever

Unit Per Pcs.

CODE	75 70 98	75 70 99	75 71 09	75 70 90	75 71 10
Connection	G 1/2"	G 1/2"	G 1/2"	G 3/4"	G 3/4"
Ranges of Adjustment	0.5-25 bar		25.1-50 bar	0.5 - 50 bar	
Size mm	G1	G 1/2"	1"	1"	3/4" G1-1/4"
	L	34	40	40	42
	Lmax	65	65	65	91
	H	79	77	131	137
	H1	93	91	149	154
	H2	79	77	131	138
	Hmax	105	103	164	173
	h	28	30	30	31
	h1	15	15	15	16
	SW1	30	30	30	36
	SW2	-	40	40	32
	d0	15.8	15.8	15.8	18
	Weight Kg	0.4	0.4	0.8	1

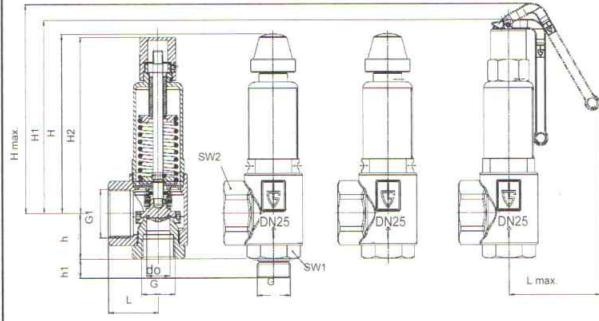
CODE	75 70 88	75 70 89	75 71 36	75 71 37	Unit Per Pcs.
Connection	G 1"	G1-1/4"	G1-1/2"	G 2"	
Ranges of Adjustment	0.5 - 50 bar				
Size mm	G1	G 1-1/2"	2"	2"	2"
	L	50	61	61	61
	Lmax	92	92	92	92
	H	178	241	241	241
	H1	192	264	264	264
	H2	175	241	241	241
	Hmax	207	277	277	277
	h	45	55	69	74
	h1	18	20	23	25
	SW1	46	55	55	70
	SW2	58	70	70	70
	d0	23	30.3	30.3	30.3
	Weight Kg	1.8	4.0	4.0	4.0

Goetze KG : Model 851bGFK

851bGFL with bellows and lifting lever

Unit Per Pcs.

CODE	75 71 38	75 70 91	75 71 39	75 71 49	75 70 92
Connection	G 1/2"	G 1/2"	G 1/2"	G 3/4"	G 3/4"
Ranges of Adjustment	0.5-25 bar	25.1-50 bar		0.5 - 50 bar	
Size mm	G1	G 1/2"	1"	1"	3/4" G 1-1/4"
	L	34	40	40	42 43
	Lmax	65	65	65	91 91
	H	79	77	131	137 138
	H1	93	91	149	154 158
	H2	79	77	131	138 139
	Hmax	105	103	164	169 173
	h	28	30	30	31 39
	h1	15	15	15	16 16
	SW1	30	30	30	36 36
	SW2	-	40	40	32 50
	d0	15.8	15.8	15.8	15.8 18
Weight Kg	0.4	0.4	0.8	1	1



CODE	75 70 93	75 70 94	75 71 40	75 71 48
Connection	G 1"	G1-1/4"	G1-1/2"	G 2"
Ranges of Adjustment		0.5 - 50 bar		
Size mm	G1	G 1-1/2"	2"	2" 2"
	L	50	61	61 61
	Lmax	92	92	92 92
	H	178	241	241 241
	H1	192	264	264 264
	H2	175	241	241 241
	Hmax	207	277	277 277
	h	45	55	69 74
	h1	18	20	23 25
	SW1	46	55	55 70
	SW2	58	70	70 70
	d0	23	30.3	30.3 30.3
Weight Kg	1.8	4.0	4.0	4.0

Goetze KG : Model 851bGFL

Series 451 (Stainless Steel):

Component	Material	DIN EN	ASTM/AISI
Inlet Body	Stainless Steel	1.4404	316 L
Outlet Body	Stainless Steel	1.4408	CF8M
Internal Parts	Stainless Steel	1.4404	316 L
Spring	Stainless Steel	1.4310	302
Bellows (optional)	Stainless Steel	1.4571	315 Ti

451sGK with twist-type lifting mechanism

Unit Per Pcs.

CODE	75 72 56	75 72 57	75 72 58	75 71 50	75 72 59
Connection	G 1/2"	G 1/2"	G 1/2"	G 3/4"	G 3/4"
Ranges of Adjustment	0.5-25 bar	25.1-70 bar		0.5 - 70 bar	
Size mm	G1	G 1/2"	1"	1"	3/4" G 1-1/4"
	L	34	40	40	42 43
	Lmax	65	65	65	91 91
	H	79	77	131	137 138
	H1	93	91	149	154 158
	H2	79	77	131	138 139
	Hmax	105	103	164	169 173
	h	28	30	30	31 39
	h1	15	15	15	16 16
	SW1	30	30	30	36 36
	SW2	-	40	40	32 50
	d0	15.8	15.8	15.8	15.8 18
Weight Kg	0.4	0.4	0.8	1	1

Unit Per Pcs.

CODE	75 72 60	75 72 68	75 72 69	75 72 70
Connection	G 1"	G1-1/4"	G1-1/2"	G 2"
Ranges of Adjustment		0.5 - 70 bar		
Size mm	G1	G 1-1/2"	2"	2" 2"
	L	50	61	61 61
	Lmax	92	92	92 92
	H	178	241	241 241
	H1	192	264	264 264
	H2	175	241	241 241
	Hmax	207	277	277 277
	h	45	55	69 74
	h1	18	20	23 25
	SW1	46	55	55 70
	SW2	58	70	70 70
	d0	23	30.3	30.3 30.3
Weight Kg	1.8	4.0	4.0	4.0

Goetze KG : Model 451sGK

451sGL with lifting lever

Unit Per Pcs.

CODE	75 72 78	75 72 79	75 72 80	75 71 58	75 72 81
Connection	G 1/2"	G 1/2"	G 1/2"	G 3/4"	G 3/4"
Ranges of Adjustment	0.5-25 bar	25.1-70 bar		0.5 - 50 bar	
	G1	G 1/2"	1"	1"	3/4" G 1-1/4"
	L	34	40	40	42 43
	Lmax	65	65	65	91 91
	H	79	77	131	137 138
	H1	93	91	149	154 158
	H2	79	77	131	138 139
	Hmax	105	103	164	169 173
	h	28	30	30	31 39
	h1	15	15	15	16 16
	SW1	30	30	30	36 36
	SW2	-	40	40	32 50
	d0	15.8	15.8	15.8	15.8 18
Weight Kg	0.4	0.4	0.8	1	1

Unit Per Pcs.

CODE	75 72 82	75 72 83	75 72 84	75 72 85
Connection	G 1"	G1-1/4"	G1-1/2"	G 2"
Ranges of Adjustment	0.5 - 70 bar			
	G1	G 1-1/2"	2"	2" 2"
	L	50	61	61 61
	Lmax	92	92	92 92
	H	178	241	241 241
	H1	192	264	264 264
	H2	175	241	241 241
	Hmax	207	277	277 277
	h	45	55	69 74
	h1	18	20	23 25
	SW1	46	55	55 70
	SW2	58	70	70 70
	d0	23	30.3	30.3 30.3
Weight Kg	1.8	4.0	4.0	4.0

Goetze KG : Model 451sGL

451bGFK with bellows and twist-type lifting mechanism

Unit Per Pcs.

CODE	75 72 86	75 72 87	75 72 88	75 71 59	75 72 89
Connection	G 1/2"	G 1/2"	G 1/2"	G 3/4"	G 3/4"
Ranges of Adjustment	1-25 bar	25.1-70 bar	1-70 bar	0.5-70 bar	
	G1	G 1/2"	1"	1"	3/4" G 1-1/4"
	L	34	40	40	42 43
	Lmax	65	65	65	91 91
	H	79	77	131	137 150
	H1	93	91	149	154 170
	H2	79	77	131	138 151
	Hmax	105	103	164	169 185
	h	28	30	30	31 39
	h1	15	15	15	16 16
	SW1	30	30	30	36 36
	SW2	-	40	40	32 50
	d0	15.8	15.8	15.8	15.8 18
Weight Kg	0.4	0.4	0.8	1	1

Unit Per Pcs.

CODE	75 72 90	75 72 91	75 72 92	75 72 93
Connection	G 1"	G1-1/4"	G1-1/2"	G 2"
Ranges of Adjustment	0.5 - 70 bar			
	G1	G 1-1/2"	2"	2" 2"
	L	50	61	61 61
	Lmax	92	92	92 92
	H	193	263	263 263
	H1	207	286	286 282
	H2	190	263	263 263
	Hmax	223	299	299 299
	h	45	55	69 74
	h1	18	20	23 25
	SW1	46	55	55 70
	SW2	58	70	70 70
	d0	23	30.3	30.3 30.3
Weight Kg	1.8	4.0	4.0	4.0

Goetze KG: Model 451bGFK

451bGFL with bellows and lifting lever

Unit Per Pcs.

CODE	75 72 94	75 72 95	75 72 96	75 71 60	75 72 97
Connection	G 1/2"	G 1/2"	G 1/2"	G 3/4"	G 3/4"
Ranges of Adjustment	1-25 bar	25.1-70 bar	1-70 bar	0.5-70 bar	
	G1	G 1/2"	1"	1"	3/4" G 1-1/4"
	L	34	40	40	42 43
	Lmax	65	65	65	91 91
	H	79	77	131	137 150
	H1	93	91	149	154 170
	H2	79	77	131	138 151
	Hmax	105	103	164	169 185
	h	28	30	30	31 39
	h1	15	15	15	16 16
	SW1	30	30	30	36 36
	SW2	-	40	40	32 50
	d0	15.8	15.8	15.8	15.8 18
Weight Kg	0.4	0.4	0.8	1	1

Unit Per Pcs.

CODE	75 72 98	75 72 99	75 73 07	75 73 08
Connection	G 1"	G1-1/4"	G1-1/2"	G 2"
Ranges of Adjustment	0.5 - 70 bar			
	G1	G 1-1/2"	2"	2" 2"
	L	50	61	61 61
	Lmax	92	92	92 92
	H	193	263	263 263
	H1	207	286	286 286
	H2	190	263	263 263
	Hmax	223	299	299 299
	h	45	55	69 74
	h1	18	20	23 25
	SW1	46	55	55 70
	SW2	58	70	70 70
	d0	23	30.3	30.3 30.3
Weight Kg	1.8	4.0	4.0	4.0

Goetze KG: Model 451bGFL

Safety Valves

Brass & Stainless Steel with Stainless Steel Spring

Válvulas de seguridad de latón y acero inoxidable con resorte de acero inoxidable

真鍮・ステンレス安全弁 黄铜不锈钢安全阀 (带不锈钢弹簧)

Atmospheric discharge safety valves made of brass with stainless steel spring. Suitable for the protection of pressure tanks and systems for air and other neutral, non-poisonous and non-flammable gases which can be freely discharge into the environment. with twist-type lifting mechanism.

Available models:

- 810sGK: Available in 1/4" up to 2"

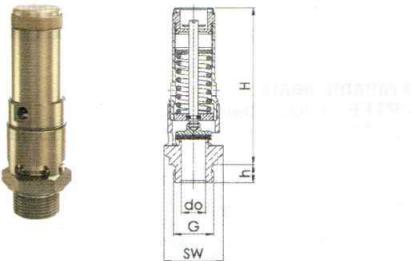
Also available in **Stainless Steel**: series 410. (Up to 1")

Series 810 (Brass):

- 810sGK FKM with FKM seal (0.2 – 25 bar)

- 810sGK PTFE with PTFE seal (0.2 - 50 bar)

Component	Material	DIN EN	ASME
Body	Brass	CW617N	CW617N
Internal Parts	Brass	CW617N	CW617N
Spring	Stainless steel	1.4568	631



810sGK FKM with FKM seal (0.2 – 25 bar)

Unit Per Pcs.

CODE	75 73 09	75 73 10	75 73 17	75 73 18	75 73 19	75 73 40	75 77 10	75 77 11
Connection (DN)	8/4"	10/3/8"	15/1/2"	20/3/4"	25/1"	32/1 1/4"	40/1 1/2"	50/2"
Ranges of Adjustment								
	H	60	65/78	66/79	94/104	111	133	164
Size mm	h	10	10	12	12	14	20	22
	SW	19	24	27	34	41	50	60
	d0	7.5	10	11	16	20	25	32
Weight Kg	0.1	0.4/0.16	0.17/0.19	0.35/0.4	0.6	0.97	1.85	2.45

Goetze KG : Model 810sGK FKM

810sGK PTFE with PTFE seal (0.2 – 50 bar)

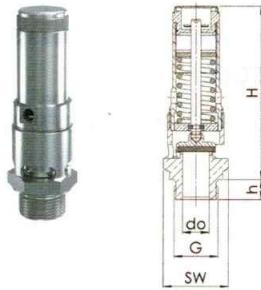
Unit Per Pcs.

CODE	75 73 20	75 73 29	75 73 30	75 73 38	75 73 39	75 77 12	75 77 13	75 77 14
Connection (DN)	8/4"	10/3/8"	15/1/2"	20/3/4"	25/1"	32/1 1/4"	40/1 1/2"	50/2"
Ranges of Adjustment								
	H	60	65/78	66/79	94/104	111	133	164
Size mm	h	10	10	12	12	14	20	22
	SW	19	24	27	34	41	50	68
	d0	7.5	10	11	16	20	25	32
Weight Kg	0.1	0.4/0.16	0.17/0.19	0.35/0.4	0.6	0.97	1.85	2.45

Goetze KG : Model 810sGK PTFE

Series 410 (Stainless Steel)

Component	Material	DIN EN	ASME
Body	Stainless steel	1.4404	316L
Internal Parts	Stainless steel	1.4404	316L
Spring	Stainless steel	1.4568	631



410sGK FKM with FKM seal (0.2 – 25 bar)
(Also possible with NBR)

CODE	75 73 48	75 73 49	75 73 50	75 73 51	75 73 52
Connection	DN8/1/4"	DN10/3/8"	DN15/1/2"	DN20/3/4"	DN25/1"
Ranges of Adjustment	0.2 - 25 bar				
H	60	78	79	104	111
h	10	10	12	12	14
SW	19	24	27	34	41
d0	7.5	10	11	16	20
Weight Kg	0.1	0.16	0.19	0.4	0.6

Goetze KG: Model 410sGK FKM

410sGK PTFE with PTFE seal (0.2 – 50 bar)

CODE	75 73 53	75 73 54	75 73 55	75 73 56	75 73 57
Connection	DN8/1/4"	DN10/3/8"	DN15/1/2"	DN20/3/4"	DN25/1"
Ranges of Adjustment	0.2 - 50 bar				
H	60	78	79	104	111
h	10	10	12	12	14
SW	19	24	27	36	41
d0	7.5	10	11	16	20
Weight Kg	0.1	0.16	0.19	0.4	0.6

Goetze KG: Model 410sGK PTFE

Safety Valves

Brass & Stainless Steel with Stainless Steel Spring

Válvulas de seguridad de latón y acero inoxidable con resorte de acero inoxidable

真鍮・ステンレス安全弁 黄铜不锈钢安全阀 (带不锈钢弹簧)

Marine Type Approvals held for these valves:

- DNV
- Lloyd's Register EMEA
- American Bureau of Shipping
- Bureau Veritas
- Russian Maritime Register of Shipping
- Registro Italiano Navale

Atmospheric discharge safety valves made of brass (or Stainless Steel) with stainless steel spring. Suitable for the protection of pressure tanks and systems for air and other neutral, non-poisonous and non-flammable gases which can be freely discharge into the environment. With twist-type lifting mechanism.

Available models:

- 812/412 sGK

Available seals:

- NBR
- FKM
- EPDM
- PTFE

Available in 1/2" up to 2".

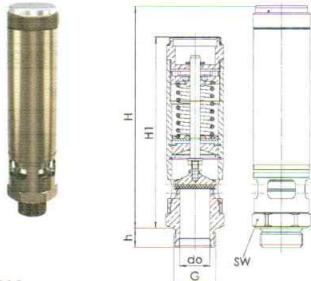
All models are also available in **Stainless Steel: Series 412**.

How to order: CODE

Safety Valve (DIN), Brass or Stainless Steel, with Stainless Steel Spring, SIZE DN, SPECIFY THE SEALS FROM "NBR", "FKM", "EPDM" or "PTFE"

Series 812 (Brass)

Component	Material	DIN EN	ASME
Body	Brass	CW617N	CW617N
Internal Parts	Brass/Stainless steel	CW617N/1.4404	CW617N/316 L
Spring	Stainless steel	1.4310/1.4568	302/631
Sealing Cap	Stainless steel	1.4310	304



Model 812 sGK

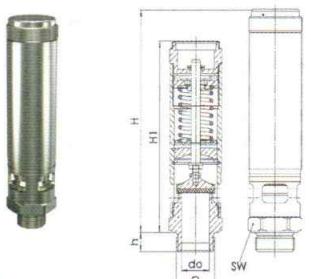
CODE	DN	Connection	Size mm				Range of Adjustment	Weight Kg
			H	h	SW	d0		
75 73 58	15	1/2"	144	12	32	14	0.2-50 bar	0.6
	59	3/4"	177	15	41	20		1.3
	60	25	177	15	41	24		1.3
	61	32	1-1/4"	215	22.5	55		2.6
	62	40	1-1/2"	215	22.5	55		2.6
75 73 63	50	2"	282	26	80	48	0.2-30 bar	5.4

Goetze KG: 812 sGK

**Please specify the seal from "NBR", "FKM" or "PTFE" when ordering.

Series 412 (Stainless Steel)

Component	Material	DIN EN	ASME
Body	Stainless steel	1.4404	316 L
Internal Parts	Stainless steel	1.4404	316 L
Spring	Stainless steel	1.4310/1.4568	302/631
Sealing Cap	Stainless steel	1.4310	304



Model 412 sGK

CODE	DN	Connection	Size mm				Range of Adjustment	Weight Kg
			H	h	SW	d0		
75 73 64	15	1/2"	144	12	32	14	0.2-50 bar	0.6
	65	20	177	15	41	20		1.3
	66	25	177	15	41	24		1.3
	67	32	1-1/4"	215	22.5	55		2.6
	68	40	1-1/2"	215	22.5	55		2.6
75 73 69	50	2"	282	26	80	48	0.2-30 bar	5.4

Goetze KG: 412 sGK

**Please specify the seal from "NBR", "FKM" or "PTFE" when ordering.

Safety Valves

Gunmetal & Stainless Steel with Stainless Steel Spring

Válvulas de seguridad, Bronce de cañón y acero inoxidable con muelle de acero inoxidable

砲金・ステンレス製安全弁

安全阀 炮金和不锈钢材质, 带不锈钢弹簧

Marine Type Approvals held for these valves:

- DNV
- Lloyd's Register EMEA
- American Bureau of Shipping
- Bureau Veritas
- Russian Maritime Register of Shipping
- Registro Italiano Navale

Angular shaped spring loaded safety valves made of gunmetal with stainless steel spring and inlet body. Sealing cap prevents unauthorized changing of set pressure. Suitable for the protection of pressure tanks and systems for neutral/non-neutral vapours, gases and liquids, steam boilers and steam plants.

Available models:

- 861sGK non-gastight version with twist-type lifting mechanism
- 861sGL non-gastight version with lifting lever
- 861tGO gastight for gases without lifting device
- 861tFO gastight for liquids without lifting device
- 861tGFO gastight for gases and liquids without lifting device

Available seals:

- PTFE up to 25 bar
- PTFE + carbon from 25.1 bar up to 50 bar

All models are also available in **Stainless Steel: series 461**.

Series 861 (Gunmetal)

Component	Material	DIN EN	ASME
Inlet Body	Stainless Steel	1.4404	316L
Outlet Body	Gunmetal	CC499K	CC499K
Internal Parts	Brass	CW617N	CW617N
Spring	Stainless Steel	1.4310	302



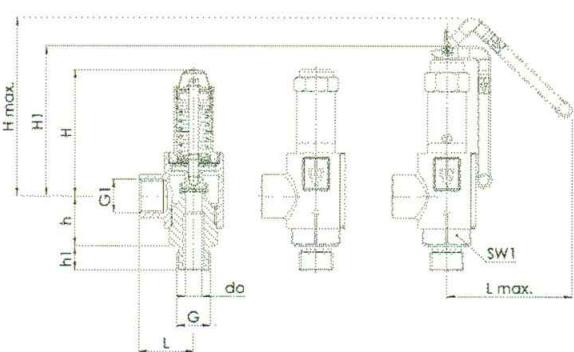
861sGK



861tGO, 861tFO, 861tGFO



861sGL



861sGK non-gastight version with twist-type lifting mechanism

Unit Per Pcs.

CODE	75 73 71	75 73 72	75 73 73	75 73 70
Connection	DN8 / G 1/4"	DN10 / G 3/8"	DN15 / G 1/2"	DN15 / G 1/2"
Range of Adjustment	0.5-50 bar		0.5-30 bar	30.1-50 bar
Size mm	G1	DN15 / G 1/2"	DN15 / G 1/2"	DN15 / G 1/2"
	L	34	34	34
	Lmax	78	78	78
	H	79	79	133
	H1	93	93	150
	Hmax	111	111	168
	h	31	31	31
	h1	12	12	15
	SW	30	30	30
	d0	6	8	10
Weight Kg	0.5	0.5	0.6	1.0

Goetze KG : Model 861sGK

861sGL non-gastight version with lifting lever

Unit Per Pcs.

CODE	75 73 74	75 73 75	75 73 76	75 77 01
Connection	DN8 / G 1/4"	DN10 / G 3/8"	DN15 / G 1/2"	DN15 / G 1/2"
Range of Adjustment	0.5-50 bar		0.5-30 bar	30.1-50 bar
Size mm	G1	DN15 / G 1/2"	DN15 / G 1/2"	DN15 / G 1/2"
	L	34	34	34
	Lmax	78	78	78
	H	79	79	133
	H1	93	93	150
	Hmax	111	111	168
	h	31	31	31
	h1	12	12	15
	SW	30	30	30
	d0	6	8	10
Weight Kg	0.5	0.5	0.6	1.0

Goetze KG : Model 861sGL

861tGO gastight for gases without lifting device

Unit Per Pcs.

CODE	75 73 77	75 73 78	75 73 79	75 77 02
Connection	DN8 / G 1/4"	DN10 / G 3/8"	DN15 / G 1/2"	DN15 / G 1/2"
Range of Adjustment	0.5-50 bar		0.5-30 bar	30.1-50 bar
Size mm	G1	DN15 / G 1/2"	DN15 / G 1/2"	DN15 / G 1/2"
	L	34	34	34
	Lmax	78	78	78
	H	79	79	133
	H1	93	93	150
	Hmax	111	111	168
	h	31	31	31
	h1	12	12	15
	SW	30	30	30
	d0	6	8	10
Weight Kg	0.5	0.5	0.6	1.0

Goetze KG : Model 861tGO

861tFO gastight for liquids without lifting device

Unit Per Pcs.

CODE	75 73 80	75 73 81	75 73 82	75 77 03
Connection	DN8 / G 1/4"	DN10 / G 3/8"	DN15 / G 1/2"	DN15 / G 1/2"
Range of Adjustment	0.5-50 bar		0.5-30 bar	30.1-50 bar
Size mm	G1	DN15 / G 1/2"	DN15 / G 1/2"	DN15 / G 1/2"
	L	34	34	34
	Lmax	78	78	78
	H	79	79	133
	H1	93	93	150
	Hmax	111	111	168
	h	31	31	31
	h1	12	12	15
	SW	30	30	30
	d0	6	8	10
Weight Kg	0.5	0.5	0.6	1.0

Goetze KG : Model 861tFO

861tGFO gastight for gases and liquids without lifting device

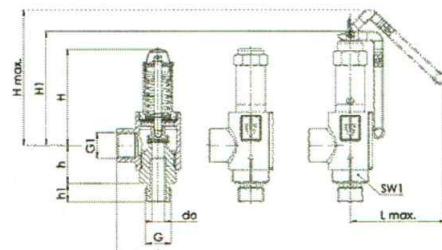
Unit Per Pcs.

CODE	75 73 83	75 73 84	75 73 85	75 77 04
Connection	DN8 / G 1/4"	DN10 / G 3/8"	DN15 / G 1/2"	DN15 / G 1/2"
Range of Adjustment	0.5-50 bar		0.5-30 bar	30.1-50 bar
Size mm	G1	DN15 / G 1/2"	DN15 / G 1/2"	DN15 / G 1/2"
	L	34	34	34
	Lmax	78	78	78
	H	79	79	133
	H1	93	93	150
	Hmax	111	111	168
	h	31	31	31
	h1	12	12	15
	SW	30	30	30
	d0	6	8	10
Weight Kg	0.5	0.5	0.6	1.0

Goetze KG: Model 861tGFO

Series 461 (Stainless Steel)

Component	Material	DIN EN	ASME
Inlet Body	Stainless steel	1.4404	316 L
Outlet Body	Stainless steel	1.4408	CF8 M
Internal Parts	Stainless steel	1.4404	316L
Spring	Stainless steel	1.4310	302


461sGK non-gastight version with twist-type lifting mechanism

Unit Per Pcs.

CODE	75 73 86	75 73 87	75 73 88	75 77 05
Connection	DN8 / G 1/4"	DN10 / G 3/8"	DN15 / G 1/2"	DN15 / G 1/2"
Range of Adjustment	0.5-70 bar		0.5-30 bar	30.1-70 bar
Size mm	G1	DN15 / G 1/2"	DN15 / G 1/2"	DN15 / G 1/2"
	L	34	34	34
	Lmax	78	78	78
	H	79	79	133
	H1	93	93	150
	Hmax	111	111	168
	h	31	31	31
	h1	12	12	15
	SW	30	30	30
	d0	6	8	10
Weight Kg	0.5	0.5	0.6	1.0

Goetze KG: Model 461sGK

461sGL non-gastight version with lifting lever

Unit Per Pcs.

CODE	75 73 89	75 73 90	75 73 91	75 77 06
Connection	DN8 / G 1/4"	DN10 / G 3/8"	DN15 / G 1/2"	DN15 / G 1/2"
Range of Adjustment	0.5-70 bar		0.5-30 bar	30.1-70 bar
Size mm	G1	DN15 / G 1/2"	DN15 / G 1/2"	DN15 / G 1/2"
	L	34	34	34
	Lmax	78	78	78
	H	79	79	133
	H1	93	93	150
	Hmax	111	111	168
	h	31	31	31
	h1	12	12	15
	SW	30	30	30
	d0	6	8	10
Weight Kg	0.5	0.5	0.6	1.0

Goetze KG: Model 461sGL

461tGO gastight for gases without lifting device

Unit Per Pcs.

CODE	75 73 92	75 73 93	75 73 94	75 77 07
Connection	DN8 / G 1/4"	DN10 / G 3/8"	DN15 / G 1/2"	DN15 / G 1/2"
Range of Adjustment	0.5-70 bar		0.5-30 bar	30.1-70 bar
Size mm	G1	DN15 / G 1/2"	DN15 / G 1/2"	DN15 / G 1/2"
	L	34	34	34
	Lmax	78	78	78
	H	79	79	133
	H1	93	93	150
	Hmax	111	111	168
	h	31	31	31
	h1	12	12	15
	SW	30	30	30
	d0	6	8	10
Weight Kg	0.5	0.5	0.6	1.0

Goetze KG: Model 461tGO

461tFO gastight for liquid without lifting device

Unit Per Pcs.

CODE	75 73 95	75 73 96	75 73 97	75 77 08
Connection	DN8 / G 1/4"	DN10 / G 3/8"	DN15 / G 1/2"	DN15 / G 1/2"
Range of Adjustment	0.5-70 bar		0.5-30 bar	30.1-70 bar
Size mm	G1	DN15 / G 1/2"	DN15 / G 1/2"	DN15 / G 1/2"
	L	34	34	34
	Lmax	78	78	78
	H	79	79	133
	H1	93	93	150
	Hmax	111	111	168
	h	31	31	31
	h1	12	12	15
	SW	30	30	30
	d0	6	8	10
Weight Kg	0.5	0.5	0.6	1.0

Goetze KG: Model 461tFO

461tGFO gastight for gases and liquids without device

Unit Per Pcs.

CODE	75 73 98	75 73 99	75 74 00	75 77 09
Connection	DN8 / G 1/4"	DN10 / G 3/8"	DN15 / G 1/2"	DN15 / G 1/2"
Range of Adjustment	0.5-70 bar		0.5-30 bar	30.1-70 bar
Size mm	G1	DN15 / G 1/2"	DN15 / G 1/2"	DN15 / G 1/2"
	L	34	34	34
	Lmax	78	78	78
	H	79	79	133
	H1	93	93	150
	Hmax	111	111	168
	h	31	31	31
	h1	12	12	15
	SW	30	30	30
	d0	6	8	10
Weight Kg	0.5	0.5	0.6	1.0

Goetze KG: Model 461tGFO

Safety Valves**Spheroidal Graphite Cast Iron****Angle type with flange connections**

Válvulas de seguridad, Fundición de grafito esferoidal

Tipo de ángulo con conexiones de brida

ダクトタイル鋳鉄フランジ式安全弁

安全阀、球墨铸铁、带法兰连接的角型

**Marine Type Approvals held for these valves:**

- DNV
- Lloyd's Register EMEA
- American Bureau of Shipping
- Bureau Veritas
- Russian Maritime Register of Shipping

Full-lift safety valve for the protection of pressure tanks and systems for neutral / non-neutral vapours and gases, steam plants and silo containers for liquid, granular and dusty materials¹.

Maintenance-friendly construction, single trim for gases, vapours and liquids, replaceable seat, easily detachable cone-stroke ring connection, freely rotatable spindle-taper connection, extensive range of spare parts, and vertical and horizontal installation position possible. Flanges according to DIN EN 1092-2 standard.

¹Only for version with bellows and gas-tight spring housing

Available models:

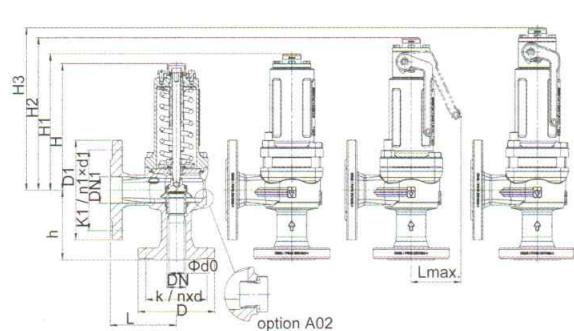
- 355 sGL with lifting lever
- 355 sGO without lifting lever
- 355 bGFL with bellows and lifting lever
- 355 bGFO with bellows, without lifting lever
- 355 tGFL gastight with lifting lever
- 355 tGFO gastight without lifting lever
- 355 tbGFL gastight with bellows and lifting lever
- 355 tbGFO gastight with bellows, without lifting lever

Available seals:

- MD (Metal-to-metal sealing)
- EPDM
- FKM
- FFKM
- PTFE
- PTFE + carbon

Series 355 (Spheroidal Graphite Cast Iron)

Component	Material	DIN EN	ASME
Body and spring housing	Spheroidal graphite cast iron	5.3103	Gr.60-40-18
Valve seat	Stainless steel	1.4404	316 L
Internal parts	Steel	1.4021/1.4104/1.4122	420/30F/1.4122
Spring	Steel	1.8159 / FDSiCr	
Bellows (optional)	Stainless steel	1.4571	316 Ti



355sGL with lifting lever

CODE	75 77 15	75 77 16	75 77 17	75 77 18	75 62 57	Unit Per Pcs.
Connection Nom. DN/PN	15 / 40	20 / 40	25 / 40	32 / 40	40 / 40	
Ranges of Adjustment			0.2 – 40 bar			
Size mm	Outlet DN1/PN	25 / 16	32 / 16	40 / 16	50 / 16	65 / 16
	L	80	95	100	110	115
	Lmax	75	85	95	120	130
	H2	206	204	229	321	363
	h	90	85	105	115	140
	D	95	105	115	140	150
	d0	15.0	18.0	22.5	29.3	36
Weight Kg	6.0	7.0	9.5	19.0	22.0	

355bGFL with bellows and lifting lever

CODE	75 77 29	75 77 30	75 77 31	75 77 32	75 62 77	Unit Per Pcs.
Connection Nom. DN/PN	15 / 40	20 / 40	25 / 40	32 / 40	40 / 40	
Ranges of Adjustment		1.2 – 40 bar	0.8 – 40 bar	0.5 – 40 bar	1.0 – 40 bar	0.9 – 40 bar
Size mm	Outlet DN1/PN	25 / 16	32 / 16	40 / 16	50 / 16	65 / 16
	L	80	95	100	110	115
	Lmax	75	85	95	120	130
	H3	246	244	269	361	391
	h	90	85	105	115	140
	D	95	105	115	140	150
	d0	15.0	18.0	22.5	29.3	36
Weight Kg	6.5	7.5	10.0	21.0	24.0	

CODE	75 62 58	75 77 19	75 77 20	75 77 21	Unit Per Pcs.
Connection Nom. DN/PN	50 / 40	65 / 40	80 / 40	100 / 40	
Ranges of Adjustment	0.2-40 bar	0.2-24 bar	0.2-25.5 bar	0.2-20 bar	
Size mm	Outlet DN1/PN	80 / 16	100 / 16	125 / 16	150 / 16
	L	120	140	160	180
	Lmax	160	205	215	255
	H2	413	497	556	647
	h	150	170	195	220
	D	165	185	200	235
	d0	45.0	59.0	72.0	90.0
Weight Kg	28.5	47.5	60.5	93.5	

Goetze KG : Model 355sGL

355sGO without lifting lever

CODE	75 77 22	75 77 23	75 77 24	75 77 25	75 62 55	Unit Per Pcs.
Connection Nom. DN/PN	15 / 40	20 / 40	25 / 40	32 / 40	40 / 40	
Ranges of Adjustment			0.2 – 40 bar			
Size mm	Outlet DN1/PN	25 / 16	32 / 16	40 / 16	50 / 16	65 / 16
	L	80	95	100	110	115
	Lmax	75	85	95	120	130
	H	167	165	190	260	302
	h	90	85	105	115	140
	D	95	105	115	140	150
	d0	15.0	18.0	22.5	29.3	36
Weight Kg	5.5	6.5	9.0	16.5	19.5	

355bGFO with bellows, without lifting lever

CODE	75 77 36	75 77 37	75 77 38	75 77 39	75 62 75	Unit Per Pcs.
Connection Nom. DN/PN	15 / 40	20 / 40	25 / 40	32 / 40	40 / 40	
Ranges of Adjustment		1.2 – 40 bar	0.8 – 40 bar	0.5 – 40 bar	1.0 – 40 bar	0.9 – 40 bar
Size mm	Outlet DN1/PN	25 / 16	32 / 16	40 / 16	50 / 16	65 / 16
	L	80	95	100	110	115
	Lmax	75	85	95	120	130
	H1	207	205	230	300	330
	h	90	85	105	115	140
	D	95	105	115	140	150
	d0	15.0	18.0	22.5	29.3	36
Weight Kg	6.0	7.0	9.5	19.0	21.5	

CODE	75 62 56	75 77 26	75 77 27	75 77 28	Unit Per Pcs.
Connection Nom. DN/PN	50 / 40	65 / 40	80 / 40	100 / 40	
Ranges of Adjustment	0.2-40 bar	0.2-24 bar	0.2-25.5 bar	0.2-20 bar	
Size mm	Outlet DN1/PN	80 / 16	100 / 16	125 / 16	150 / 16
	L	120	140	160	180
	Lmax	160	205	215	255
	H	352	427	486	577
	h	150	170	195	220
	D	165	185	200	235
	d0	45.0	59.0	72.0	90.0
Weight Kg	26.0	44.0	57.0	90.0	

Goetze KG : Model 355sGO

CODE	75 62 76	75 77 40	75 77 41	75 77 42	Unit Per Pcs.
Connection Nom. DN/PN	50 / 40	65 / 40	80 / 40	100 / 40	
Ranges of Adjustment	0.5-40 bar	0.3-40 bar	0.2-40 bar	0.2-40 bar	
Size mm	Outlet DN1/PN	25 / 16	32 / 16	40 / 16	50 / 16
	L	80	95	100	110
	Lmax	75	85	95	120
	H1	207	205	230	300
	h	90	85	105	115
	D	95	105	115	140
	d0	15.0	18.0	22.5	29.3
Weight Kg	6.0	7.0	9.5	19.0	21.5

Goetze KG : Model 355bGFO

355tGFL gastight with lifting lever

						Unit Per Pcs.
CODE	75 77 43	75 77 44	75 77 45	75 77 46	75 62 73	
Connection Nom. DN/PN	15 / 40	20 / 40	25 / 40	32 / 40	40 / 40	
Ranges of Adjustment	0.2 – 40 bar					
Size mm	Outlet DN1/PN	25 / 16	32 / 16	40 / 16	50 / 16	65 / 16
	L	80	95	100	110	115
	Lmax	75	85	95	120	130
	H2	206	204	229	321	363
	h	90	85	105	115	140
	D	95	105	115	140	150
	d0	15.0	18.0	22.5	29.3	36
Weight Kg	6.0	7.0	9.5	19.0	22.0	

355tbGFL gastight with bellows and lifting lever

						Unit Per Pcs.
CODE	75 77 57	75 77 58	75 77 59	75 77 60	75 77 61	
Connection Nom. DN/PN	15 / 40	20 / 40	25 / 40	32 / 40	40 / 40	
Ranges of Adjustment	1.2 – 40 bar					
Size mm	Outlet DN1/PN	25 / 16	32 / 16	40 / 16	50 / 16	65 / 16
	L	80	95	100	110	115
	Lmax	75	85	95	120	130
	H3	246	244	269	361	391
	h	90	85	105	115	140
	D	95	105	115	140	150
	d0	15.0	18.0	22.5	29.3	36
Weight Kg	6.5	7.5	10.0	21.0	24.0	

						Unit Per Pcs.
CODE	75 62 74	75 77 47	75 77 48	75 77 49		
Connection Nom. DN/PN	50 / 40	65 / 40	80 / 40	100 / 40		
Ranges of Adjustment	0.2-40 bar					
Size mm	Outlet DN1/PN	80 / 16	100 / 16	125 / 16	150 / 16	
	L	120	140	160	180	
	Lmax	160	205	215	255	
	H2	413	497	556	647	
	h	150	170	195	220	
	D	165	185	200	235	
	d0	45.0	59.0	72.0	90.0	
Weight Kg	28.5	47.5	60.5	93.5		

Goetze KG : Model 355tGFL

355tGFO gastight without lifting lever

						Unit Per Pcs.
CODE	75 77 50	75 77 51	75 77 52	75 77 53	75 62 71	
Connection Nom. DN/PN	15 / 40	20 / 40	25 / 40	32 / 40	40 / 40	
Ranges of Adjustment	0.2 – 40 bar					
Size mm	Outlet DN1/PN	25 / 16	32 / 16	40 / 16	50 / 16	65 / 16
	L	80	95	100	110	115
	Lmax	75	85	95	120	130
	H	167	165	190	260	302
	h	90	85	105	115	140
	D	95	105	115	140	150
	d0	15.0	18.0	22.5	29.3	36
Weight Kg	5.5	6.5	9.0	16.5	19.5	

355tbGFO gastight with bellows, without lifting lever

						Unit Per Pcs.
CODE	75 77 66	75 77 67	75 77 68	75 77 69	75 77 70	
Connection Nom. DN/PN	15 / 40	20 / 40	25 / 40	32 / 40	40 / 40	
Ranges of Adjustment	1.2 – 40 bar					
Size mm	Outlet DN1/PN	25 / 16	32 / 16	40 / 16	50 / 16	65 / 16
	L	80	95	100	110	115
	Lmax	75	85	95	120	130
	H1	207	205	230	300	330
	h	90	85	105	115	140
	D	95	105	115	140	150
	d0	15.0	18.0	22.5	29.3	36
Weight Kg	6.0	7.0	9.5	19.0	21.5	

						Unit Per Pcs.
CODE	75 62 72	75 77 54	75 77 55	75 77 56		
Connection Nom. DN/PN	50 / 40	65 / 40	80 / 40	100 / 40		
Ranges of Adjustment	0.2-40 bar					
Size mm	Outlet DN1/PN	80 / 16	100 / 16	125 / 16	150 / 16	
	L	120	140	160	180	
	Lmax	160	205	215	255	
	H	352	427	486	577	
	h	150	170	195	220	
	D	165	185	200	235	
	d0	45.0	59.0	72.0	90.0	
Weight Kg	26.0	44.0	57.0	90.0		

Goetze KG : Model 355tGFO

						Unit Per Pcs.
CODE	75 77 71	75 77 72	75 77 73	75 77 74		
Connection Nom. DN/PN	50 / 40	65 / 40	80 / 40	100 / 40		
Ranges of Adjustment	0.5-40 bar					
Size mm	Outlet DN1/PN	80 / 16	100 / 16	125 / 16	150 / 16	
	L	120	140	160	180	
	Lmax	160	205	215	255	
	H1	392	462	530	624	
	h	150	170	195	220	
	D	165	185	200	235	
	d0	45.0	59.0	72.0	90.0	
Weight Kg	28.5	48.0	63.0	99.0		

Goetze KG : Model 355tbGFO

American National Standard Institute (ANSI) for Marine Services

The following tables are a cross comparison from JIS (Japan Industrial Standard) to ANSI (American National Standard Institute), and from ANSI to JIS for your reference purpose. The tables are classified according to similar material, working pressure and general design. However, as you understand, the basic specification of material, dimensions and flanges are essentially different between JIS standard and ANSI standard.

We are not held responsible for any possible accident or damage caused by using these tables.

Comparison List - JIS to equivalent design ANSI Valves

Globe Valves

Material & W.P.	Type	JIS No.	Size	CODE	ANSI Model	CODE	Class	Size
Cast Steel 10 kgf/cm ² Flanged	Straight	F-7319	50-300mm	75 04 11 - 19	-	75 71 41 - 47	150	2" - 12"
Cast Steel 120 kgf/cm ² Flanged	Straight	F-7313	32-250mm	75 04 31 - 40	-	75 71 51 - 57	300	2" - 12"

Gate Valves

Material & W.P.	Type	JIS No.	Size	CODE	ANSI Model	CODE	Class	Size
Cast Iron 10 kgf/cm ²	Flanged	F-7364	50-600mm	75 08 21 - 35	-	75 72 41 - 48	125	2" - 12"
Cast Iron 16 kgf/cm ²	Flanged	F-7369	300-400mm	75 08 41 - 43	-	75 72 41 - 48	125	2" - 12"
Cast steel 10 kgf/cm ²	Flanged	F-7366	50-400mm	75 09 01 - 11	-	75 72 61 - 67	150	2" - 12"

Swing Check Valves

Material & W.P.	Type	JIS No.	Size	CODE	ANSI Model	CODE	Class	Size
Cast Iron 10 kgf/cm ² Flanged	Straight	F-7373	50-200mm	75 14 31 - 37	- 311.3.4.4.2	75 73 21 - 28 75 73 31 - 37/98	125 150	2" - 12" 2" - 12"

Remark : ANSI model is referred to MENSON products.

Comparison List - ANSI to equivalent design JIS Valves

Globe Valves

Material & W.P.	Type	ANSI Model	Size	CODE	JIS No.	CODE	Max. W/P	Size
Carbon Steel Class 150	Straight	-	2" - 12"	75 71 41 - 47	F-7319	75 04 11 - 19	10 kgf/cm ²	50-300mm
Carbon Steel Class 300	Straight	-	2" - 12"	75 71 51 - 57	F-7313	75 04 31 - 40	20 kgf/cm ²	32-250mm

Gate Valves

Material & W.P.	Type	ANSI Model	Size	CODE	JIS No.	CODE	Max. W/P	Size
Cast Iron Class 125	Flanged	-	2" - 12"	75 72 41 - 48	F-7364 F-7369	75 08 21 - 35 75 08 41 - 43	10 kgf/cm ² 16 kgf/cm ²	50-600mm 300-400mm
Carbon Steel Class 150	Flanged	-	2" - 12"	75 72 61 - 67	F-7366	75 09 01 - 11	10 kgf/cm ²	50-400mm

Swing Check Valves

Material & W.P.	Type	ANSI Model	Size	CODE	JIS No.	CODE	Max. W/P	Size
Cast Iron Class 125	Straight	-	2" - 12"	75 73 21 - 27	F-7373	75 14 31 - 37	10 kgf/cm ²	50-200mm
Cast Steel Class 150	Straight	311.3.4.4.2	2" - 12"	75 73 31 - 37/98	F-7373	75 14 31 - 37	10 kgf/cm ²	50-200mm

Remark : ANSI model is referred to MENSON products.

ANSI Globe Valves

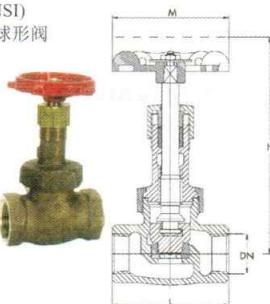
Globe Valves (ANSI)

Bronze, NPT Female Threaded, Union Bonnet Metal Seated

Válvula de Globo de Bronce (según ANSI)
ANSI型青銅玉形弁 ANSI 型青銅球形閥

Globe valves with union bonnet, SS disc and hardened seat, renewable disc and seat, straight pattern, NPT female threaded connection according to ANSI B1.20.1, inside screwed stem and rising handwheel.

Application: Water, oil, air, gas, saturated steam etc.



Pressure and Temperature Range

1/2" - 2"	0/65°C	287°C
	27.5 bar	13.7 bar
	200 lbs SWP at 550° F and 400 lbs WOG at 150° F (non-shock)	

Material Specification

Component	Material	US
Body	Bronze	ASTM B61
Bonnet	Bronze	ASTM B61
Bonnet Nut	Bronze	ASTM B61
Disc	Stainless steel	AISI 420
Stem	Bronze	ASTM B61
Seat (Hardened)	Stainless steel	AISI 420
Gland Packing	Graphite	
Handwheel	Cast iron	

How to order: CODE

Globe valve (ANSI), bronze, NPT female threaded, union bonnet metal seated, SIZE DN

CODE	DN	Size mm			Weight Kg	Unit Per Pcs.
		L	H	M		
75 71 01	1/4"	56	106	57	0.4	
02	3/8"	60	108	57	0.5	
03	1/2"	64	114	76	0.7	
04	3/4"	75	130	83	1.0	
05	1"	86	133	102	1.6	
75 71 06	1-1/4"	98	157	120	2.6	
07	1-1/2"	114	184	140	3.5	
08	2"	124	208	152	6.2	

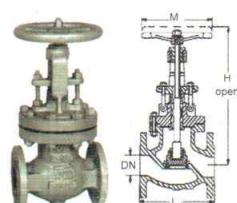
Globe Valves (ANSI)

Cast Steel, ASME Flanges, 150 lbs and 300 lbs

Válvula de Globo de Acero a Carbono (según ANSI)

ANSI型鑄鋼玉形弁 ANSI型碳鋼球形閥

Cast steel globe valves with stainless steel trim, pressure rating 150 lbs and 300 lbs, straight pattern, flanged end acc. to ASME B16.5 ("raised face - smooth finish"), outside screw & yoke, rising handwheel. On request, supplied including EN 10204 3.1.B material and test certificate.



Application: Steam, water, oil, vapours and gases.

Pressure and Temperature Range

ASTM A216 WCB

-29/38°C	93°C	149°C	204°C	260°C	316°C	343°C
150 lbs	19.7 bar	17.9	15.9	13.8	11.7	9.7
300 lbs	51 bar	46.5	45.2	43.8	41.4	37.9
		371°C	399°C	427°C	454°C	482°C
					510°C	538°C
150 lbs	7.6 bar	6.6	5.5	4.5	3.4	2.4
300 lbs	36.9 bar	34.8	28.3	18.6	11.7	7.2
						3.4

ASTM A216 WCB is not recommended for long-term duty above 426°C.

Material Specification

Component	Material	US
Body	Cast steel	ASTM A216-WCB
Bonnet	Cast steel	ASTM A216-WCB
Disc	Stainless steel	AISI 410
Seat (Body)	Stainless steel	AISI 410 stellited
Stem	Stainless steel	AISI 410
Gland	Forged steel	ASTM A105(N)
Gland Packing	Graphite	Grafiel
Bonnet gasket 1) (SS insert)	Graphite	Grafiel
Handwheel	Malleable cast iron	Malleable cast iron

1) Spiral wound gasket

Pressure Rating 150 lbs

How to order: CODE

Globe valve (ANSI), cast steel, ASME flanges, pressure rating 150 lbs, SIZE DN

CODE	DN	Size mm			Weight Kg	Unit Per Pcs.
		L	H	M		
75 71 41	2"	203	338	200	21	
	42	241	396	250	35	
	43	292	476	300	58	
	44	406	524	350	100	
	45	495	588	400	160	
75 71 46	10"	622	738	500	253	
	47	699	862	500	398	

Pressure Rating 300 lbs

How to order: CODE

Globe valve (ANSI), cast steel, ASME flanges, pressure rating 300 lbs, SIZE DN

CODE	DN	Size mm			Weight Kg	Unit Per Pcs.
		L	H	M		
75 71 51	2"	267	354	200	25	
	52	318	421	250	49	
	53	356	496	350	76	
	54	445	675	500	168	
	55	559	912	560	282	
75 71 56	10"	622	949	600	385	
	57	711	1,032	650	724	

ANSI Gate Valves

Gate Valves (ANSI)

Bronze, NPT Female Threaded Ends, Union Bonnet Pressure Rating 200 lbs

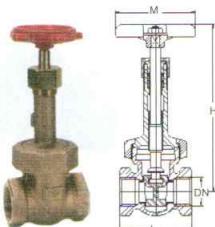
Válvulas de compuerta (ANSI), Bronce, Extremos rosados hembra NPT, Bonete de unión

ANSI型青銅仕切弁

闸阀 (ANSI)、青铜、NPT 内螺纹端、联合阀帽

Bronze gate valves with union bonnet, solid bronze wedge, stainless steel seat, NPT female threaded ends acc. to ANSI B1.20.1, inside screwed stem and rising stem and rising handwheel, complies with requirements of MSS SP-80 type 2.

Application: water, oil, air, gas, saturated steam etc.



Pressure and Temperature Range

1/4" - 3"	0/20°C	197°C
	27.5 bar	13.7 bar
	200 lbs SWP and 400 lbs WOG (non-shock)	

Material Specification

Component	Material	US
Body	Bronze	ASTM B61
Bonnet Nut	Bronze	ASTM B61
Stem	Bronze	ASTM B61
Wedge	Bronze	ASTM B61
Seats (Body)	Stainless steel	AISI 410
Gland Packing	Graphite	
Handwheel	Cast iron	

How to order: CODE

Gate valve (ANSI), bronze, NPT female threaded ends, union bonnet, pressure rating 200 lbs, SIZE DN

Material Specification

Component	Material	US
Body	Cast iron	ASTM A126 Gr.B
Bonnet	Cast iron	ASTM A126 Gr.B
Wedge (2" - 3")	Bronze	ASTM B62
Wedge (4" - 12")	Cast iron	ASTM A126 Gr.B
Seats (Body)	Bronze	ASTM B62
Seats (Wedge)	Bronze	ASTM B62
Stem	Brass	
Gland	Cast iron	ASTM A126 gr.B
Gland Packing	Graphite	Graphite
Bonnet Gasket	Graphite	
Handwheel	Cast iron	Graphite

How to order: CODE

Gate valve (ANSI), cast iron, ASME flanges, pressure rating 125 lbs, SIZE DN

Unit Per Pcs.

CODE	DN	Size mm			Weight Kg
		L	H open	M	
75 72 41	2"	178	381	178	19
	2-1/2"	191	429	203	25
	3"	203	476	203	34
	4"	229	578	254	51
	6"	267	765	305	77
75 72 46	8"	292	1,019	356	124
	10"	330	1,226	406	218
	12"	356	1,445	457	299

Unit Per Pcs.

CODE	D	Size mm			Weight Kg
		L	H open	M	
75 72 01	1/4"	46	5.125	130	0.5
	3/8"	48	5.125	130	0.6
	1/2"	57	5.5	140	0.8
	3/4"	64	6.25	159	1.0
	1"	73	7.1875	183	1.4
75 72 06	1-1/4"	83	8.5625	218	2.0
	1-1/2"	99	9.5625	243	2.9
	2"	95	11.75	299	4.5

Gate Valves (ANSI)

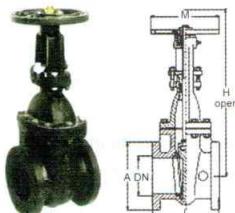
Cast Iron, ASME Flanges

Pressure Rating 125 lbs

Válvula de Compuerta de Hierro Fundido (según ANSI)

ANSI型鉄製仕切弁 ANSI型铸铁闸阀

Cast iron gate valves with solid wedge, bronze seats, pressure rating 125 lbs, full bore, rising stem, non-rising handwheel, bolted bonnet with yoke, flat flanges acc. to ASME B16.1 (125#), face to face acc. to ASME B16.10, complies with requirements of MSS SP-70.



Pressure and Temperature Range

2" - 12"	0/20°C	178°C
	13.8 bar	8.6 bar
	125 lbs SWP and 200 lbs WOG (non-shock)	

Gate Valves (ANSI)

Cast Steel, ASME Flanges

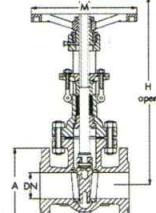
Pressure Rating 150 lbs and 300 lbs

Válvula de Compuerta de Acero a Carbono (según ANSI)

ANSI型鉄製仕切弁 ANSI型碳钢闸阀

Cast steel gate valves with flexible wedge, stainless steel seats, pressure rating 150 lbs and 300 lbs, full bore, rising stem, non-rising handwheel, bolted bonnet with yoke, flanged connection acc. to ASME B16.5 ("raised face - smooth finish"), face to face acc. to ASME B16.10. On request, supplied including EN 10204 3.1.B material and test certificate.

Application: steam, water, oil, vapours and gases.



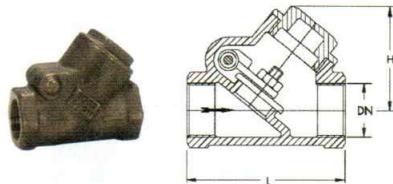
Pressures and Temperature Range

ASTM A216 WCB

	-29/38°C	93°C	149°C	204°C	260°C	316°C	343°C
150 lbs	19.7 bar	17.9	15.9	13.8	11.7	9.7	8.6
300 lbs	51 bar	46.5	45.2	43.8	41.4	37.9	36.9
		371°C	399°C	427°C	454°C	482°C	510°C
150 lbs	7.6 bar	6.6	5.5	4.5	3.4	2.4	1.4
300 lbs	36.9 bar	34.8	28.3	18.6	11.7	7.2	3.4
		ASTM A216 WCB is not recommended for long-term duty above 426°C					

Material Specification

Component	Material	US
Pressure Rating 150 lbs		
Body and Bonnet	Cast steel	ASTM A216-WCB
Wedge (2" - 10")	Alloyed steel	ASTM A217-CA15
Wedge (12")	Steel, armoured	ASTM A216 WCB/13Cr armoured
Seats (Body)	Steel, stellited	ASTM A105 stellited
Stem	Stainless steel	ASTM A182-F6a
Gland Packing	Graphite	Graphite
Bonnet Gasket (SS insert)	Graphite	Graphite
Handwheel	Malleable cast iron	Malleable cast iron

**Pressure and Temperature Range**

1/2" - 2"	0/65°C	218°C
	27.5 bar	13.7 bar
200 lbs SWP and 425°F and 400 lbs WOG at 150°F (non-shock)		

Material Specification

Component	Material	US
Body	Bronze	ASTM B61
Bonnet	Bronze	ASTM B61
Seats (Body and Disc)	Bronze	ASTM B61
Disc	Bronze	ASTM B61
Bonnet Gasket	Asbestos-free	

How to order: CODE

Check valve (ANSI), bronze, NPT female threaded ends, swing type, SIZE DN

1) Spiral wound gasket

Pressure Rating 150 lbs**How to order: CODE**

Gate valve (ANSI), cast steel, ASME flanges, Pressure rating 150 lbs, SIZE DN

Unit Per Pcs.

CODE	DN	Size mm			Weight Kg
		L	H open	M	
75 72 61	2"	178	387	200	18
	62	203	481	250	32
	63	229	585	300	50
	64	267	765	300	77
	65	292	956	350	121
75 72 66	10"	330	1,149	400	178
	67	356	1,351	450	265

Pressure Rating 300 lbs**How to order: CODE**

Gate valve (ANSI), cast steel, ASME flanges, Pressure rating 300 lbs, SIZE DN

Unit Per Pcs.

CODE	DN	Size mm			Weight Kg
		L	H open	M	
75 72 71	2"	216	410	200	23
	3"	283	509	250	50
	4"	305	612	250	71
	6"	403	805	350	144
	8"	419	1,000	400	209
75 72 76	10"	457	1,209	450	322
	12"	502	1,416	500	482

ANSI Check Valves**Check Valves (ANSI)****Bronze. NPT Female Threaded Ends, Swing Type**

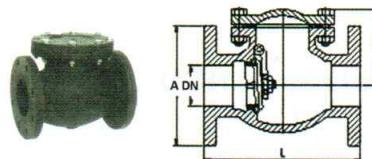
Válvulas de retención (ANSI), Bronce. Extremos rosados hembra NPT, tipo pivotante.

逆止弁 (ANSI)、青銅 NPT 雌ネジ端、スイングタイプ

止回阀 (ANSI)、青铜、NPT 内螺纹端，摆动式

Bronze swing type check valves, bronze seat NPT female threaded ends acc. to ANSI B1.20.1, reduced bore and threaded bonnet. Suitable for horizontal installation.

Application: Steam, water, oil, vapours and gases.

**Pressure and Temperature Range**

2" - 12"	0/65°C	176°C
	13.8 bar	8.6 bar
125 lbs SWP and 350°F and 200 lbs WOG at 150°F (non-shock)		

Material Specification

Component	Material	US
Body	Cast iron	ASTM A126 Gr.B
Bonnet	Cast iron	ASTM A126 Gr.B
Seat	Bronze	ASTM B62
Hinge Pin	Brass	
Hinge Arm	Cast iron	
Bonnet Gasket	Graphite	ASTM A126 Gr.B

Remark: 5" though 12" are manufactured with a cast iron disc with bronze sealing ring.

How to order: CODE

Check valve (ANSI), cast iron, ASME flanges, swing type, pressure rating 125 lbs, SIZE DN

Unit Per Pcs.

CODE	DN	Size mm			Weight Kg
		L	A	H	
75 73 21	2"	203	152	100	19
28	2-1/2"	216	178	114	25
22	3"	241	191	130	34
23	4"	292	229	156	51
24	6"	356	279	203	77
75 73 25	8"	495	343	240	124
26	10"	622	406	306	218
27	12"	699	483	410	299

Check and Storm Valves (ANSI)

Cast Steel, ANSI Flanges, Swing Type

Pressure Rating 150 lbs

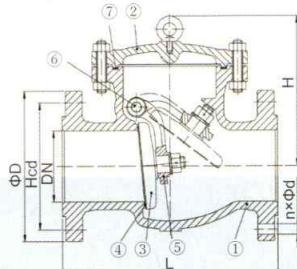
Válvulas antirretorno y antitormenta (ANSI), Acero fundido, bridas ANSI, tipo pivotante

逆止弁及び波止弁 (ANSI)、鋳鋼、ANSI フランジ、スイングタイプ
止回阀和风暴阀 (ANSI)、铸钢, ANSI 法兰, 摆动式

Cast steel swing type check valves, stainless steel seat, pressure rating 150 lbs, straight pattern, full bore, bolted bonnet, flange sizes acc. to ASME B 16.5 ("raised face - smooth finish") and face to face acc. to ASME B16.10.

Applications:

Fuel oil, Lubricating oil, Flammable hydraulic oil, Cargo oil, No-flammable hydraulic fluid, Boiler feedwater, Condensate, Sea water, Water.

**Pressure and Temperature Range**

ANSI A216 WCB

	-29/38°C	93°C	149°C	204°C	260°C
150 lbs	19.7 bar	17.9	15.9	13.8	11.7
316°C	343°C	371°C	399°C	427°C	
150 lbs	9.7	8.6	7.6	6.6	5.5

ANSI A216 WCB is not recommended for long-term duty above 426°C

Material Specification

Component	Material	US
Body	Cast steel	A216-WCB
Bonnet	Cast steel	A216-WCB
Disc	Cast steel	A216-WCB
Seat	Stainless steel	

Pressure Rating 150 lbs**How to order: CODE**

Check and Storm valve (ANSI), cast steel, ANSI flanges, swing type, pressure rating 150 lbs, SIZE DN

Unit Per Pcs.

CODE	DN	Size mm				Weight Kg
		Hcd	D	L	H	
75 73 31	50	120.7	150	203	161	17
75 74 98	65	139.7	180	216	180	23
75 73 32	80	152.4	190	241	190	33
33	100	190.5	230	292	220	44
34	150	241.3	280	356	257	78
75 73 35	200	298.5	345	495	292	137
36	250	362	405	622	350	207
37	300	431.8	485	699	398	279

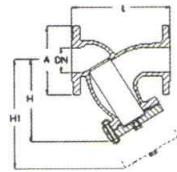
MESON Model No. : 311.3.4.4.2

ANSI Strainers**Strainers (ANSI)**

Cast Steel, Y-Type, ASME Flanges
Pressure Rating 150 lbs and 300 lbs

Filtros (ANSI), Bridas de acero fundido, tipo Y, ASME
ストレーナ (ANSI)、铸钢、Y タイプ、ASME フランジ
过滤器 (ANSI)、铸钢, Y 型, ASME 法兰

Application : steam, water, oil and other process liquids.
Fitted with drain plug. On request, supplied including EN 10204 3.1B certificate.

**Pressure and Temperature Range**

ASTM A216 WCB

	-29/38°C	93°C	149°C	204°C	260°C	316°C	343°C
150 lbs	19.7 bar	17.9	15.9	13.8	11.7	9.7	8.6
300 lbs	51 bar	46.5	45.2	43.8	41.4	37.9	36.9
		371°C	399°C	427°C	454°C	482°C	510°C
150 lbs	7.6 bar	6.6	5.5	4.5	3.4	2.4	1.4
300 lbs	36.9 bar	34.8	28.3	18.6	11.7	7.2	3.4

ASTM A216 WCB is not recommended for long-term duty above 426°C

Material Specification

Component	Material	US
Body	Cast steel	ASTM A 216-WCB
Bolter Cover	Forged steel	ASTM A 105(N)
Drain Plug	Stainless steel	AISI 304
Strainer Screen	Stainless steel	AISI 304

Perforation Size 0.6 mm

Pressure Rating 150 lbs**How to order: CODE**

Strainer (ANSI), cast steel, Y-type, ASME flanges, pressure rating 150 lbs, SIZE DN

Unit Per Pcs.

CODE	DN	Size mm				Weight Kg
		A	L	H	H1	
75 76 01	2"	152	203	205	340	12
02	3"	191	241	255	420	24
03	4"	229	292	300	500	40
04	6"	280	406	390	630	71
05	8"	343	495	490	780	120
75 76 06	10"	406	622	550	850	175
07	12"	483	699	640	1,000	260

Pressure Rating 300 lbs

Unit Per Pcs.

CODE	DN	Size mm				Weight Kg
		A	L	H	H1	
75 76 11	2"	165	267	235	370	22
12	3"	210	318	285	460	37
13	4"	254	356	320	555	56
14	6"	318	445	420	745	116
15	8"	381	559	480	750	180
75 76 16	10"	445	622	600	1,000	271
17	12"	521	711	690	1,100	400

Capacity for Water in kg/hour at 20°C

P [bar]	DN [mm]									
	15	20	25	32	40	50	65	80	100	125
0.5	341	607	948	1,553	2,427	3,792	6,408	9,706	15,166	23,697
1	483	858	1,341	2,196	3,432	5,362	9,062	13,727	21,448	33,513
1.5	591	1,051	1,642	2,690	4,203	6,567	11,098	16,812	26,268	41,044
2	682	1,213	1,896	3,106	4,853	7,583	12,815	19,412	30,332	47,394
3	836	1,486	2,322	3,804	5,944	9,287	15,695	23,775	37,148	58,044
4	965	1,716	2,681	4,393	6,863	10,724	18,124	27,453	42,896	67,025
5	1,079	1,918	2,997	4,911	7,673	11,990	20,262	30,693	47,958	
6	1,182	2,101	3,284	5,380	8,406	13,134	22,196	33,623	52,536	
7	1,277	2,270	3,547	5,811	9,079	14,187	23,975	36,317		
8	1,365	2,427	3,792	6,212	9,706	15,166	25,631	38,825		
9	1,448	2,574	4,021	6,589	10,295	16,086	27,184			
10	1,526	2,713	4,239	6,945	10,852	16,956	28,656			
11	1,601	2,845	4,446	7,284	11,381	17,784				
12	1,672	2,972	4,644	7,608	11,887	18,574				
13	1,740	3,093	4,833	7,919	12,373	19,333				
14	1,806	3,210	5,016	8,218	12,840	20,063				
15	1,869	3,323	5,192	8,506	13,291	20,767				
16	1,930	3,432	5,362							

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