

GLOBE VALVES WITH BUTT-WELDING ENDS

Nominal diameter options (DN) 15-250
 Nominal pressure options (PN) 25-40-50
 Maximum working temperature 550°C

All globe valves correspond to the pressure equipment directive 97/23/EC.

Material options:
 Variable steel materials



016490



ISAG

FEATURES

Fig. number	Body material	Nominal pressure PN	Nominal diameter DN	Max. temperature
016490	A) STEEL	PN25 PN160	DN15-50	550 °C
ISAG	B) STEEL	PN40	DN15-250	400 °C

Globe valve can be equipped with hydraulic, pneumatic or electric actuator.
 Ask more from ECONOSTO Oy sales personnel.

MATERIALS AND PARTS

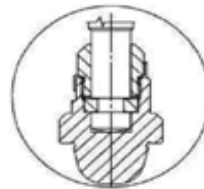
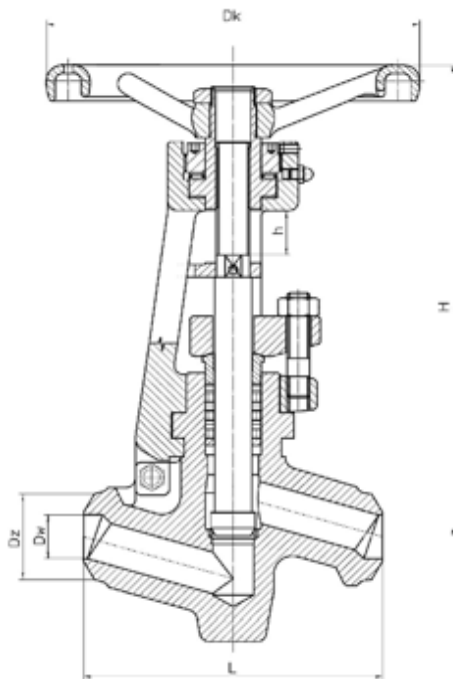
A) 016490

Versions: Standard, A,

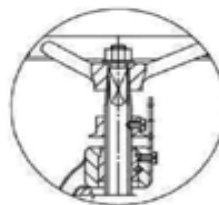
Part	Standard Tmax 450 °C	Version 016490A
Body	P250 GH (1.0460)	X30Cr13 Mo4-5 (1.7335)
Bonnet DN15-25	P250GH	11CrMo9-10
Bonnet DN32-50	GP240GH	GX17CrNi16-2Mo5-5
Stem	X30Cr13	X39CrMo17-1
Disc seat	X30Cr13	Stellit
Body seat	Skwam-IG	Stellit
Packing	Graphite	Graphite

Temperature [° C]

Material	PN	-10 < do <50	100	150	200	250	300	350	400	450	460	470	480	490	500	510	520	530	540	550
P245GH	63	63	58,5	55,5	52,5	48,0	43,5	40,5	37,5	20,7	-	-	-	-	-	-	-	-	-	-
	100	100	92,8	88,0	83,3	76,1	69,0	64,2	59,5	32,8	-	-	-	-	-	-	-	-	-	-
	160	160	148,5	140,9	133,3	121,9	110,4	102,8	95,2	52,5	-	-	-	-	-	-	-	-	-	-
13CrMo4-5	63	63	63	63	63	63	63	60,0	56,7	53,1	50,5	47,9	45,4	42,8	41,1	34,8	28,2	23,4	18,3	14,7
	100	100	100	100	100	100	100	95,2	90,0	84,2	80,2	76,1	72,0	68,0	65,2	55,2	44,7	37,1	29,0	23,3
	160	160	160	160	160	160	160	152,3	144,0	134,8	128,3	121,8	115,3	108,8	104,3	88,3	71,6	59,4	46,4	37,3



Regulating disc



Position indicator

DIMENSIONS

A) 016490
 Versions: Standard, A

DN	Dw	L	H	h	Dk	KG
	PN160					
15	16,0	160	275	20	200	8,0
20	20,0	160	275	20	200	8,0
25	26,5	160	275	20	200	8,0
32	30,0	250	365	25	320	28,5
40	38,5	250	365	25	320	28,0

MATERIALS AND PARTS

B) ISAG

Versions: Standard, for marine industry, stainless steel 1.4312, stainless steel 1.4408

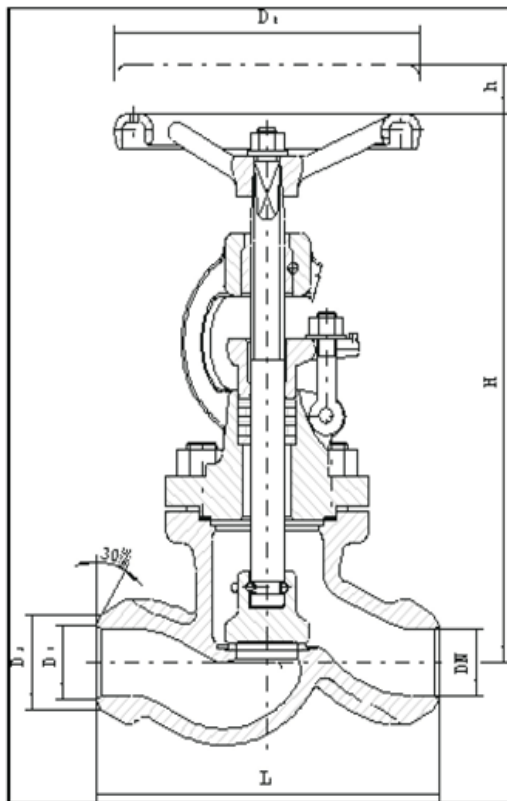
Part	Standard	Marine service	Stainless steel	Stainless steel
Body	1.0619	1.0619	1.4312	1.4408
Body seat DN 15-25 DN 32-200	17Cr 18-8 Cr-Ni	17Cr 18-8 Cr-Ni	18-8 Cr-Ni 18-8 Cr-Ni	18-8 Cr-Ni 18-8 Cr-Ni
Bonnet DN 15-50 DN 65-250	1.0460 1.0619	1.0460 1.0619	1.4312 1.4312	1.4408 1.4408
Stem	13Cr	17Cr	18-8 Cr-Ni	18-8 Cr-Ni
Disc seat DN15-50 DN65-80 DN100-250	13Cr 13Cr 18-8 Cr-Ni	17Cr 18-8 Cr-Ni 18-8 Cr-Ni	18-8 Cr-Ni 18-8 Cr-Ni 18-8 Cr-Ni	18-8 Cr-Ni 18-8 Cr-Ni 18-8 Cr-Ni
Packing	Graphite	Graphite	Graphite	Graphite

APPLICATION RANGE - ISAG

Max. operating pressure at medium temperature [K]

Nominal pressure [bar]	263 up to 393 K (-10 to 120°C)	473 K (200 °C)	523 K (250 °C)	573 K (300 °C)	623 K (350 °C)	673 K (400 °C)
1.0619	40 bar	35 bar	32 bar	28 bar	24 bar	21 bar
1.4312	40 bar	26 bar	21 bar	-	-	-
1.4408	40 bar	26 bar	24 bar	23 bar	-	-

* for stainless steel performance (A) Tmax for material:
1.4312 from -60°C up to +250°C; 1.4408 from -196°C up to +300°C

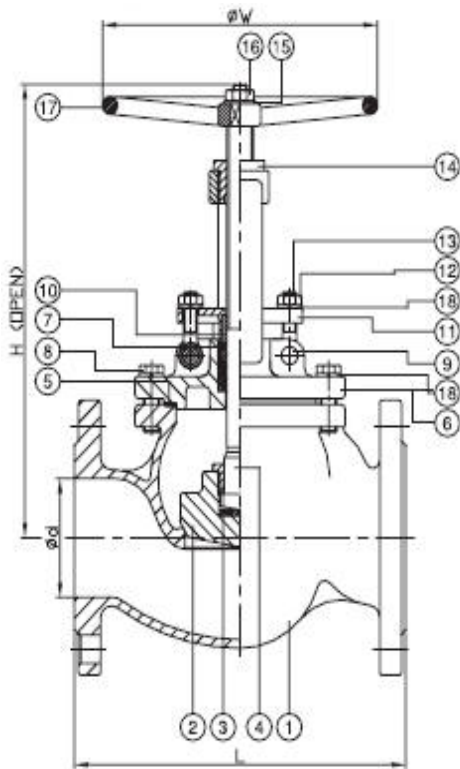


DIMENSIONS

B) ISAG

Versions: Standard, for marine industry, stainless steel

DN	D1	D2	L	H	h	Dk	KG
mm							
15	17	24	130	170	14	120	2,2
20	22	31	150	170	14	120	2,3
25	28,5	37	160	170	14	120	2,4
32	35	46	180	260	13	160	7,5
40	44	54	200	270	22	160	8,5
50	54,5	67	230	275	25	160	10,3
65	70	83	290	320	25	200	21,4
80	82	96	310	370	27	250	26
100	105	121	350	405	37	320	50
125	132	147	400	436	58	280	63
150	159	176	480	496	70	320	91
200	208	228	600	576	92	400	172
250	257	282	730	665	110	500	275



MATERIALS, PARTS AND DIMENSIONS

E) Stainless steel Fig. 01401

DN	L	H	W		DN	L	H	W
15	130	178	140		80	310	325	250
20	150	151	140		100	350	390	250
25	160	200	140		125	400	472	300
32	180	243	160		150	480	531	350
40	200	245	160		200	600	669	350
50	230	258	200		250	730	824	500
65	290	310	200		300	850	950	500

	Part	E - Fig. 01401	
1	Body	ASTM A351-CF8M/1.4408	ASTM A351-CF8/1.4308
2	Disc	ASTM A351-CF8M/1.4408	ASTM A351-CF8/1.4308
3	Disc cover	ASTM A351-CF8M/1.4408	ASTM A351-CF8/1.4308
4	Stem	AISI-316	AISI-304
5	Seal	PTFE/304 + graphite	
6	Bonnet	ASTM A351-CF8M/1.4408	ASTM A351-CF8/1.4308
7	Packing	PTFE	
8	Bonnet bolt	AISI-304	
9	Hinge pin	AISI-304	
10	Sleeve	PTFE	
11	Gland	ASTM A351-CF8/1.4308	
12	Nut	AISI-304	
13	Eye bolt	AISI-304	
14	Yoke sleeve	BRONZE	
15	Name plate	AISI-304	
16	Nut	AISI-304	
17	Handwheel	FCD 400	
18	Spring washer	AISI-304	
	Max. °C	200 °C	