GLOBE VALVES

Rev.1

TYPE **GLB**

Range DN: 6 ~ 150
NPS: ¼“~ 6“

Range PN: 160 ~ 320
Class: 900 ~ 2500

PED 97/23/EC
PED 2014/68/EU

TR TS 10/11, 12/11, 32/11

HIGH-PRESSURE EXECUTION

Operating temperature: -196 °C ~ 550 °C

Connection into piping: Flanged, welded ends, combined execution

DESCRIPTION

GLB valves are controlled shut-off valves. They are designed to stop or allow the flow of the medium by external operation, via either the handwheel or the installed drive.
If, upon the customer´s request, they are fitted with a regulating cone, they can be used to regulate the flow of the medium. The medium can flow in one direction only. These valves are designed and manufactured to ensure maximum service life and reliability.

MATERIAL SPECIFICATION

GLB valves are made from carbon, alloy and stainless steels. The material type can be adjusted according to the customer´s request to optimally suit the operating conditions.

APPLICATION

GLB valves are made from carbon, alloy and stainless steels. The material type can be adjusted according to the customer´s request to optimally suit the operating conditions..

BASIC STANDARDS FOR DESIGN

Basic design
EN 12 516 -1, 2

Face-to-face dimensions
See the table of dimensions

Flange dimensions
ANSI B 16.5, EN 1092 - 1,
GOST 12815-80, GOST 9399-81

Pressure-temperature rating
ASME B16.34, EN 12 516 - 1

Dimensions of the welded ends
ANSI B16.25, EN 12 627

Special
NACE MR-0175

Testing
API 598, EN 12 266 - 1, 2

Top Flange dimensions
EN ISO 5210

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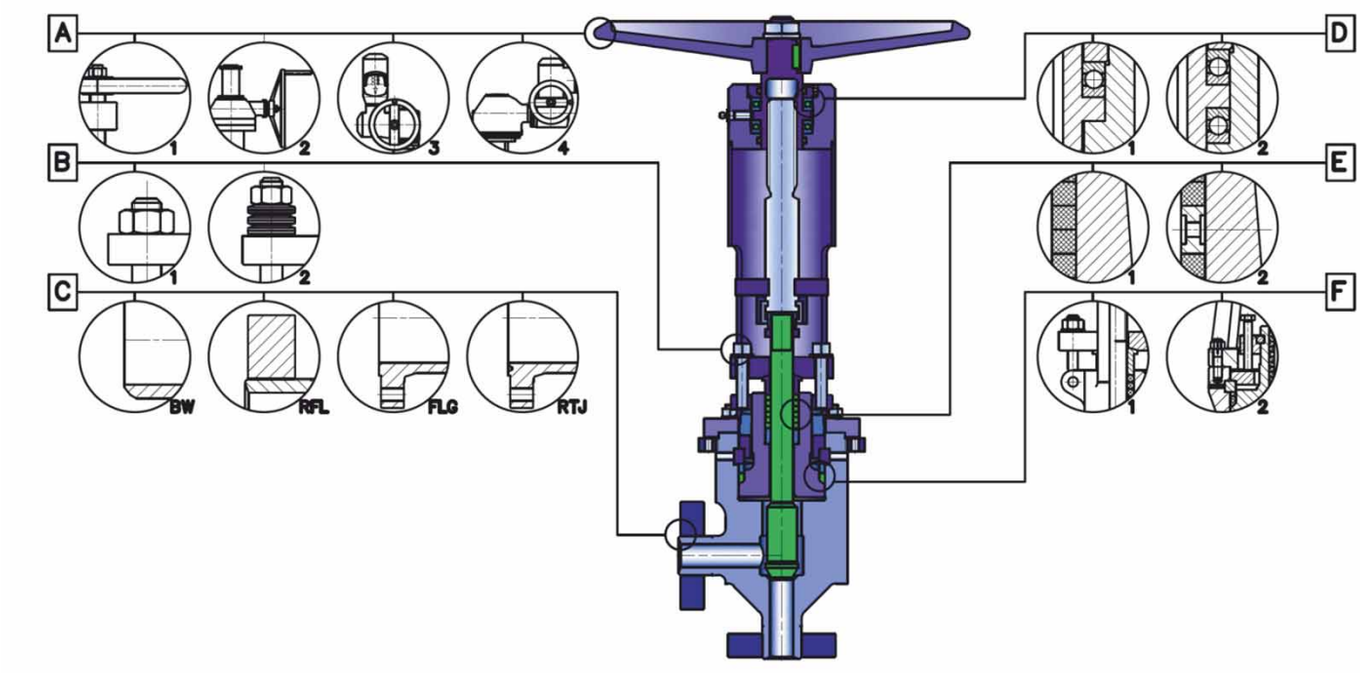
STRUCTURAL DESIGN



A - Control

- handwheel
- handwheel with gear box
- electric actuator
- electric actuator with gear box

B – Method of pressing packing seal

- use of compression packing seal with cup springs to provide constant pressure force on the packing is preferred when operating with cyclic pulsations of pressure or at high pressures and temperatures

C — Connection into pipe

- flanged
- threaded ends
- welded ends
- welded ends according to the customer specifications

D – Installation of stem nut

- combination of bushing and bearing
- installation on two axial thrust bearings

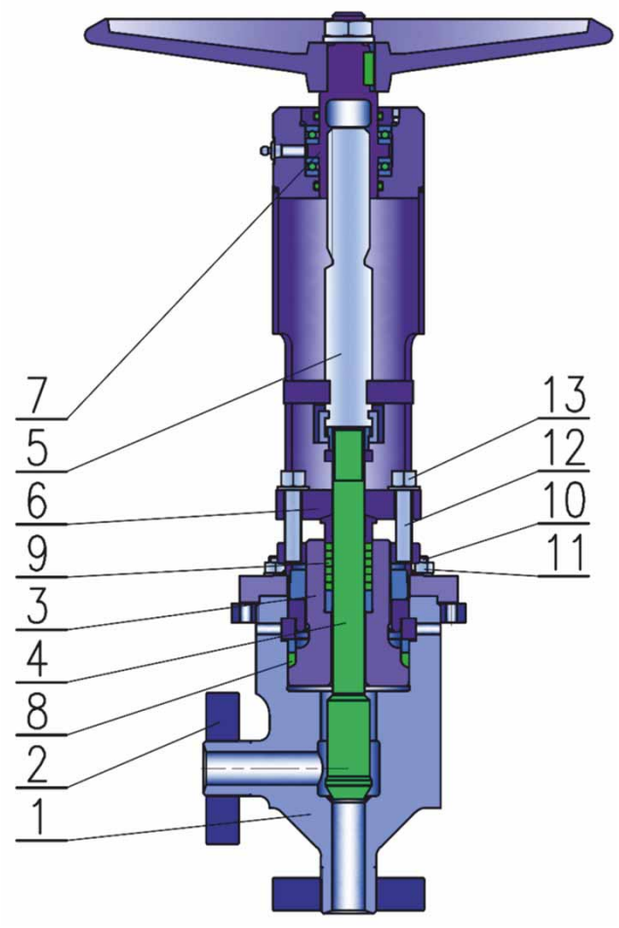
E — Design of packing seal

- standard
- double packing with spacer - used according to operating conditions

F — Pressure seal bonnet

- pressure seal bonnet is used from DN32 and above

MATERIAL SPECIFICATION

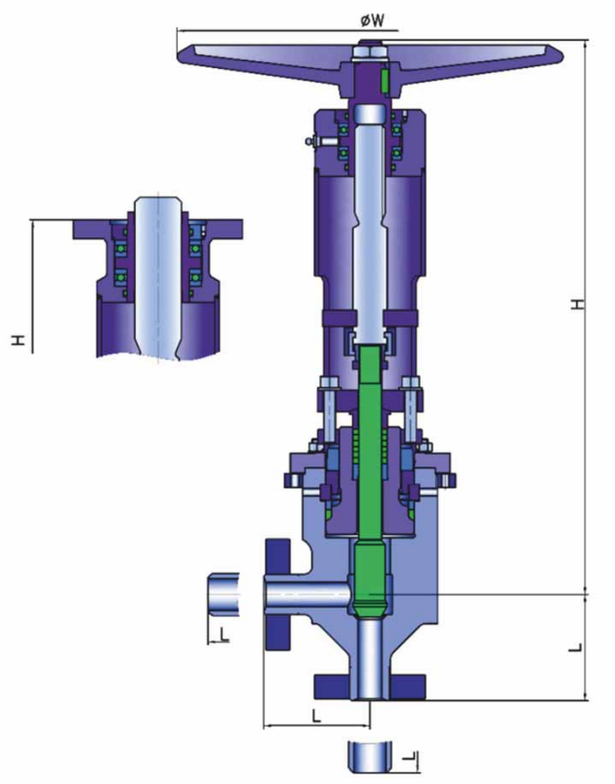


ITEM	NAME	P355 NL1	P355 NL2	1.4541	1.4401	A350 LF2	A105	A182 F5	A182 F304	A182 F316
1	BODY	P355 NL1	P355 NL2	1.4541	1.4401	A350 LF2	A105	A182 F5	A182 F304	A182 F316
2	FLANGE	P355 NL1, P355 NL2,P460 NL2, 1.4541, 1.4401								
3	DISCHARGE COVER	P355 NL1	P355 NL2	1.4541	1.4401	A350 LF2	A105	A182 F5	A182 F304	A182 F316
4	PLUG	1.4541+surfacing								
5	STEM	17 027.6								
6	SEALING FLANGE	P355 NL1	P355 NL2	1.4541	1.4401	A350 LF2	A105	A182 F5	A182 F304	A182 F316
7	STEM NUT	Bronze								
8	SEALING	Graphite								
9	PACKING	Graphite								
10	BOLT	42CrMo4	42CrMo4	A2-70	A2-70	A320 L7	A193 B7	A193 B16	A193 B8	A193 B8M
11	NUT	A2-70	A2-70	A2-70	A2-70	A194 4	A194 2H	A194 2H	A194 8	A194 8M
12	BOLT	42CrMo4	42CrMo4	A2-70	A2-70	A320 L7	A193 B7	A193 B16	A193 B8	A193 B8M
13	NUT	A2-70	A2-70	A2-70	A2-70	A194 4	A194 2H	A194 2H	A194 8	A194 8M

GLOBE VALVES

TYPE V30

DIMENSIONS



DN	PN 160					PN 250					PN 320				
	1	2	H	W	Mass (kg)	1	2	H	W	Mass (kg)	1	2	H	W	Mass (kg)
6	105	60	203	100	6	115	60	203	100	7	115	60	203	100	8
10	105	80	246	100	8	115	80	246	160	10	115	85	246	160	11
15	105	80	410	160	24	115	108	410	200	24	115	132	410	250	27
25	115	127	575	200	42	130	127	575	250	54	130	154	575	400	61
40	130	152	550	250	63	150	152	550	350	72	150	192	550	-	85
50	150	184	600	350	77	175	184	600	500	110	175	225	600	-	138
65	170	210	625	500	136	200	210	625	500	161	200	254	625	-	192
80	190	190	720	500	157	225	235	720	500	265	225	289	720	-	285
100	215	229	850	500	270	260	273	850	600	426	260	337	850	-	470
125	250	279	1000	600	435	300	337	1000	700	638	300	-	1000	-	695
150	275	305	1450	600	594	350	352	1450	700	860	350	-	1450	-	922

NPS	CLASS 900					CLASS 1500					CLASS 2500				
	1	2	H	W	Mass (kg)	1	2	H	W	Mass (kg)	1	2	H	W	Mass (kg)
1/2	115 / 114	108	280	200	10	130 / 114	108	350	200	10	132	108	350	250	10
1	130 / 127	127	340	200	15	130 / 127	127	400	200	15	150	127	400	400	16
1 1/2	150 / 152	152	400	300	25	150 / 152	152	500	300	25	192	152	500	500	41
2	170 / 184	184	500	400	85	175 / 184	184	600	400	85	225	184	600	630	91
2 1/2	215 / 210	210	550	500	95	215 / 210	210	700	500	95	254	210	700	710	112
3	225 / 190	190	600	630	120	225 / 235	235	800	630	120	289	235	950	710	144
4	250 / 229	229	700	630	155	250 / 273	273	900	630	155	337	273	1200	800	186
5	325 / 280	279	800	710	230	325 / 337	337	1000	710	230	-	-	-	-	-
6	400 / 305	305	900	710	280	400 / 352	352	1100	710	280	-	-	-	-	-

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TYPE DESIGNATION

GLB AC/D E M_1 PN or Class

A BODY DESIGN

1	Direct
2	Angular
Z	Z-shape

E CONTROL

1	Handwheel
2	Gear box + handwheel
3	Electric actuator
5	Pneumatic actuator
9	Without control

M_1 BODY MATERIAL

0	Stainless steel
3	Forged alloy steel
4	Forged carbon steel
LT	Carbon steel for low temperatures

C CONNECTION INTO PIPE

1	Flanged
2	Welded
6	Threaded flange

D FLANGE FACING

EN 1092 - 1

A	Flat face
B	Raised face
C	Tongue face
D	Groove face
E	Spigot
F	Recess
G	O - ring recess
H	O - ring groove

ANSI B 16.5

PFF	Flat sealing face
RF	Raised face
LTF	Large tongue
STF	Small tongue
LGF	Large groove
SGF	Small groove
LMF	Large male
SMF	Small male
LFF	Large female
SFF	Small female
RTJ	Ring joint

GOST / DIN

L	Lens