

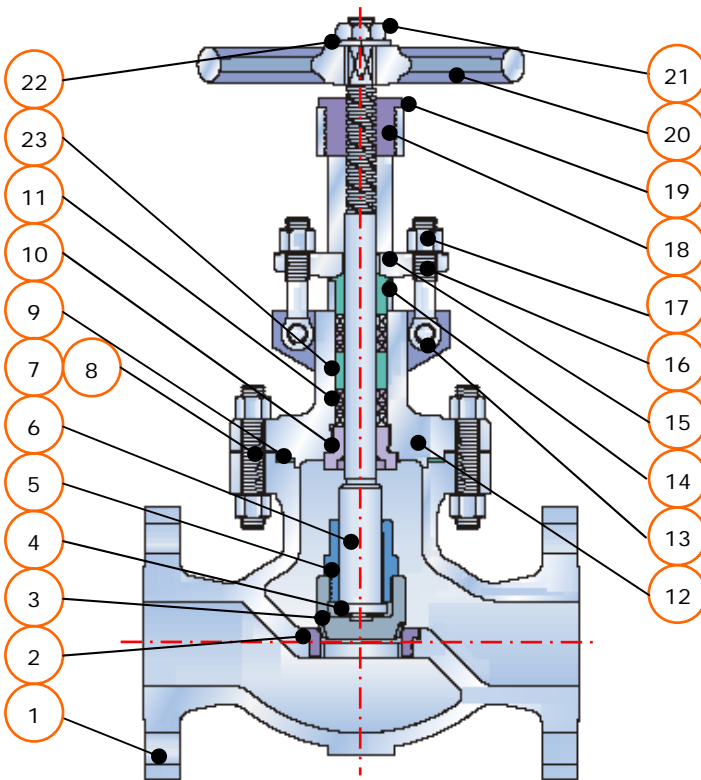
GLOBE VALVE

DESIGN FEATURES

- ✓ **Ease of Service and Maintenance**
Back seat bushing allows replacement of packing while disc plunger is in fully open position during operation.
- ✓ **Completely Tight Shut-Off**
Conical Disc design ensures that the disc is always in contact with the seat to provide an effective tight seal.
- ✓ **Solid Disc Design**
Solid disc plunger design ensures that you take control of your flow.
- ✓ **Stem Seal System**
E-FLOW globe valves are designed with a multi-independent stem seal system with adjusting packing to provide an economical solution and control. Extended bonnet stem allows for Cryogenic services.
- ✓ **NACE MR-01-75 Compliance**
All materials can be supplied to NACE MR-01-75 compliance. Compliance is ensured during the manufacturing process by strict inspection and material control.
- ✓ **High Flow Capacity**
High lift disc plunger design allows for high flow rate in liquid and gas regardless the quality of the media.

SIZE / PRESSURE		
Class	From	To
150	2"	18"
300	2"	14"
600	2"	12"
900	2"	8"
1500	2"	8"
2500	2"	8"

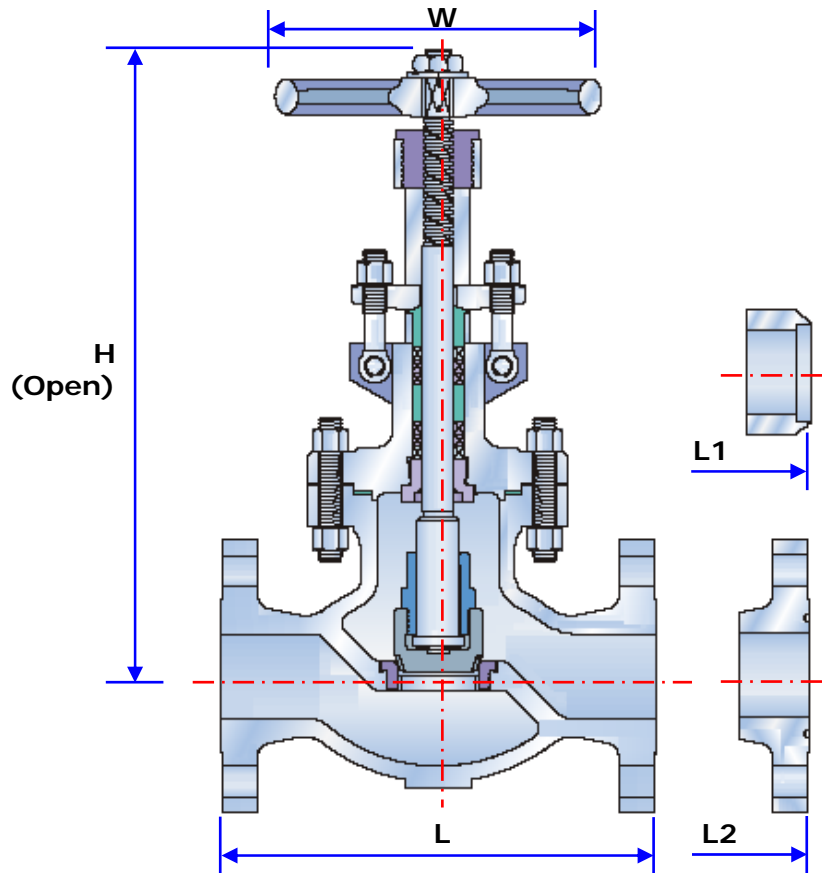
STANDARDS	
Design	ANSI B16.34 / BS 1873
Test	API 598
Face to Face	ANSI B16.10
RF End Flange	ANSI B16.5
BW End	ANSI B16.25



No	Part Name	Material
1	Body	ASTM A216 WCB
2	Seat Ring	A105 + Stellite Faced
3	Disc	ASTM A105 + 13Cr Faced
4	Disc Thrust Plate	ASTM A76 Type 420
5	Disc Nut	ASTM A276 Type 410
6	Stem	ASTM A182 F6a
7	Bonnet Nuts	ASTM A194 2H
8	Bonnet Bolts	ASTM A193 B7
9	Gasket	Soft Iron + Graphite
10	Back Seat Bushing	ASTM A276 Type 410
11	Stem Packing	Graphite
12	Bonnet	ASTM A216 WCB
13	Eye Bolt Pin	Carbon Steel
14	Gland	ASTM A276 Type 410
15	Gland Flange	ASTM A216 WCB
16	Gland Eye Bolts	ASTM A3047 B
17	Eye Bolt Nuts	ASTM A194 2H
18	Yoke Bush	ASTM A439 D2
19	Screw	Carbon Steel
20	Hand Wheel	Ductile Iron
21	Hand Wheel Nut	ASTM A194 2H
22	Washer	Carbon Steel
23	Lantern Ring	ASTM A276 Type 410

Alternatives Available

Structure	End Connection	Butt Weld, Ring Type Joint (RTJ) Flange
	Seat Rings	Threaded (Renewable)
	Operator	Gear, Electric, Pneumatic Actuator
Materials	Body / Bonnet	LCB, LCC, LC3, WC1, WC6, WC9, C5, C12, CF8, CF8M, CF3, CF3M
	Trims	API #1(F6/F6), #5(HF/HF), SS304, SS316, Monel, NACE Standard
	Bonnet Gasket	Stainless Steel and Graphite Spiral Wound

DIMENSION AND WEIGHTS


Class 150					
Size	L / L1	L2	H	W	Weight
in	in	in	in	in	Kg
mm	mm	mm	mm	mm	
2"	8.00	8.50	13.58	8	22
50	203	216	345	200	
2½"	8.50	9.00	16.34	8	32
65	216	216	415	200	
3"	9.50	10.00	15.94	10	38
80	241	254	405	250	
4"	11.50	12.00	19.09	12	62
100	292	305	485	300	
6"	16.00	16.50	20.47	14	104
150	406	419	520	350	
8"	19.50	20.00	23.62	18	159
200	495	508	600	450	
10"	24.50	25.00	30.00	20	308
250	622	635	762	500	
12"	27.50	28.00	33.94	25	539
300	698	711	862	640	
14"	31.00	31.50	38.58	25	610
350	787	800	980	640	
16"	36.00	36.50	47.05	24	880
400	914	927	1195	610	
18"	38.5	39.00	51.18	24	1150
450	978	991	1300	610	

Class 300					
Size	L / L1	L2	H	W	Weight
in	in	in	in	in	Kg
mm	mm	mm	mm	mm	
2"	10.50	11.12	14.57	8	28
50	267	283	370	200	
2½"	11.50	12.12	18.66	10	48
65	292	308	474	250	
3"	12.50	13.12	17.32	10	56
80	318	333	440	250	
4"	14.00	14.62	20.67	14	82
100	445	371	525	350	
6"	17.50	18.12	24.41	18	154
150	445	460	620	450	
8"	22.00	22.62	35.83	22	240
200	559	575	910	560	
10"	24.50	25.12	37.36	24	319
250	622	638	949	600	
12"	28.00	28.62	40.63	25	632
300	711	727	1032	640	
14"	33.00	33.62	42.91	24	975
350	838	854	1090	610	

Class 600					
Size	L / L1	L2	H	W	Weight
in mm	in mm	in mm	in mm	in mm	Kg
2" 50	11.50 292	11.62 295	18.19 462	10 250	36
2½" 65	13.00 330	13.12 333	21.26 540	10 250	70
3" 80	14.00 356	14.12 359	23.03 585	12 350	85
4" 100	17.00 432	17.12 435	26.38 670	18 450	123
6" 150	22.00 559	22.12 562	34.88 886	20 500	404
8" 200	26.00 660	26.12 663	36.69 932	25 640	450
10" 250	31.00 787	31.12 790	40.94 1040	24 610	700
12" 300	33.00 838	33.12 841	50.39 1280	24 610	900

Class 900					
Size	L / L1	L2	H	W	Weight
in mm	in mm	in mm	in mm	in mm	Kg
2" 50	14.50 368	14.62 371	23.62 600	14 350	95
2½" 65	16.50 419	16.62 422	25.98 660	14 350	138
3" 80	15.00 381	15.12 384	26.18 665	18 450	122
4" 100	18.00 457	18.12 460	31.50 800	20 500	195
6" 150	24.00 610	24.12 613	43.62 1108	24 610	435
8" 200	29.00 737	29.12 740	46.61 1184	24 610	730

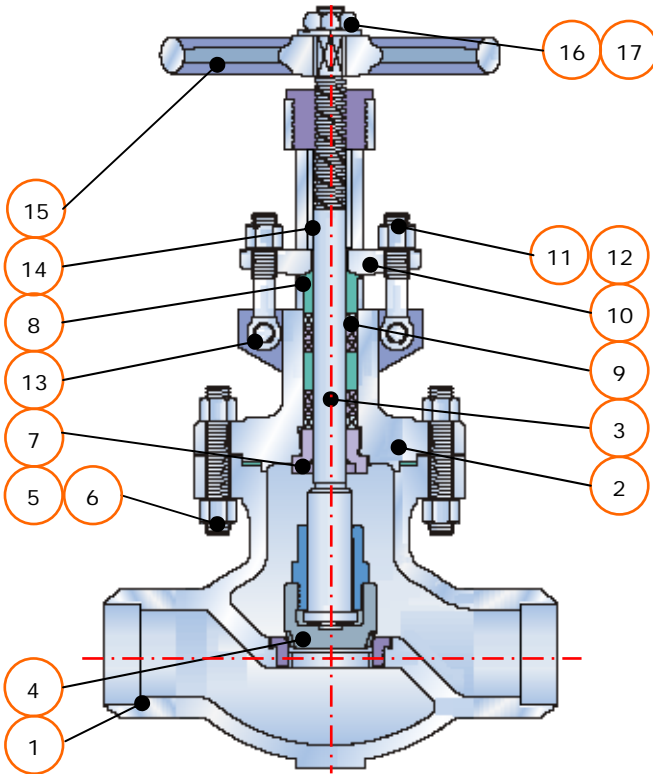
Class 1500					
Size	L / L1	L2	H	W	Weight
in mm	in mm	in mm	in mm	in mm	Kg
2" 50	14.50 368	14.62 371	25.98 660	14 350	95
2½" 65	16.50 419	16.62 422	25.98 660	14 350	138
3" 80	18.50 470	18.62 473	30.31 770	20 500	250
4" 100	21.50 546	21.62 549	33.46 850	22 560	435
6" 150	27.75 705	28.00 711	45.08 1145	24 610	540
8" 200	32.75 832	33.13 841	52.95 1345	24 610	970

Class 2500					
Size	L / L1	L2	H	W	Weight
in mm	in mm	in mm	in mm	in mm	Kg
2" 50	17.75 451	17.87 454	29.35 720	16 400	176
2½" 65	20.00 508	20.25 514	31.50 800	20 500	264
3" 80	22.75 578	23.00 584	34.84 885	22 560	308
4" 100	26.50 673	26.88 683	49.61 1260	24 610	759
6" 150	36.00 914	36.50 927	75.00 1905	24 610	1990
8" 200	40.25 1022	40.87 1038	97.05 2465	24 610	4390

SIZE / PRESSURE		
Class	From	To
800	1/2"	2½"
1500	1/2"	2"
2500	1/2"	2"

STANDARDS	
Design	ANSI B16.34 / API 602
Test	API 598
Socket Weld End	ANSI B16.11
Threaded End	ANSI B1.20.1

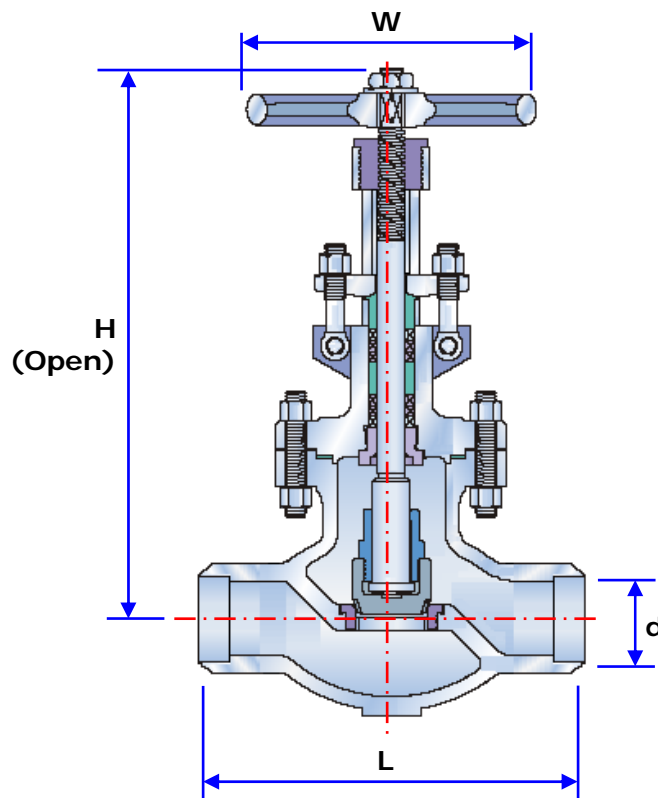
Material List for Standard Service



No	Part Name	Standard	NACE	Low Temp NACE
1	Body	A105	A105	LF2
2	Bonnet	A105	A105	LF2
3	Stem	F6	F6	316
4	Disc	F6	F6	316
5	Bonnet Bolt	B7	B7M	L7M
6	Bonnet Nut	2H	2HM	2HM
7	Gasket	304 + Graphite	316 + Graphite	
		316 Soft Ring (Class 2500)		
8	Gland	F6	316	316
9	Packing	Graphite		
10	Gland Flange	WCB		
11	Gland Bolt	B7	B7M	L7M
12	Gland Nut	2H	2HM	2HM
13	Gland Bolt Pin	410	410	304
14	Sleeve	410		
15	Hand Wheel	A197		
16	Hand Wheel Washer	A108-1020		
17	Hand Wheel Nut	A194-2H		

Alternatives Available

Structure	Bonnet	Weld Bonnet
	End connection	SW x SW, FNPT x FNPT, SW x FNPT
Materials	Body / Bonnet	F5, F11, F22, SS304, SS304L, SS316, SS316L
	Trims	API #1 (F6/F6), #5 (HF/HF), SS304, SS316, Monel, NACE Standard

DIMENSION AND WEIGHTS


**R – REDUCED PORT
F – FULL PORT**

Class 800								
Nominal Diameter	R	15 (½")	20 (¾")	25 (1")	32 (1¼")	40 (1½")	50 (2")	65 (2½")
	F	---	15 (½")	20 (¾")	25 (1")	32 (1¼")	40 (1½")	50 (2")
d (mm)		10	13	17	23	30	37	46
L (mm)		79	92	111	130	152	172	200
H (Open, mm)		176	176	212	230	254	294	327
W (mm)		100	100	125	160	160	180	200
Weight (Kg)		1.9	2.1	3.9	5.8	7.2	10.8	16

Class 1500							
Nominal Diameter	R	15 (½")	20 (¾")	25 (1")	32 (1¼")	40 (1½")	50 (2")
	F	---	15 (½")	20 (¾")	25 (1")	32 (1¼")	40 (1½")
d (mm)		10	13	17	23	30	37
L (mm)		111	111	130	130	172	220
H (Open, mm)		207	207	240	240	290	337
W (mm)		125	125	160	160	180	200
Weight (Kg)		4.6	4.7	6.8	9.2	13.6	20.9

Class 2500							
Nominal Diameter	R	15 (½")	20 (¾")	25 (1")	32 (1¼")	40 (1½")	50 (2")
	F	---	15 (½")	20 (¾")	25 (1")	32 (1¼")	40 (1½")
d (mm)		11	14	19	26	30	36
L (mm)		130	130	172	220	220	220
H (Open, mm)		255	255	312	340	352	410
W (mm)		160	160	160	180	180	200
Weight (Kg)		4.7	5.2	6.4	8.9	13.0	18.5