

800LB GLOBE VALVE

APPLICABLE STANDARDS
 BASIC DESIGN: API 602
 SOCKET-WELDING: ASME B16.11
 TEST AND INSPECTION: API598
 1975PPST@100F

TEST ITEM	TEST PRESSURE (PSI)
SHELL TEST	3045
BACK SEAT TEST	2233
HIGH PRESSURE TEST	2233
LOW PRESSURE AIR TEST	87

Size	L	H1	H2	d	D	W	D1	L1
1/4"	3.11	5.83	6.22	0.26	1.34	3.94	0.56	0.38
3/8"	3.11	5.83	6.22	0.26	1.34	3.94	0.69	0.38
1/2"	3.11	5.83	6.22	0.39	1.34	3.94	0.85	0.38
3/4"	3.62	5.83	6.22	0.51	1.57	3.94	1.07	0.5
1"	4.37	6.93	7.56	0.69	1.93	4.92	1.33	0.5
1 1/4"	4.72	8.23	8.94	0.91	2.28	6.30	1.68	0.5
1 1/2"	5.98	8.70	9.49	1.12	2.52	6.30	1.91	0.5
2"	6.77	10.04	10.98	1.38	3.07	7.09	2.41	0.63

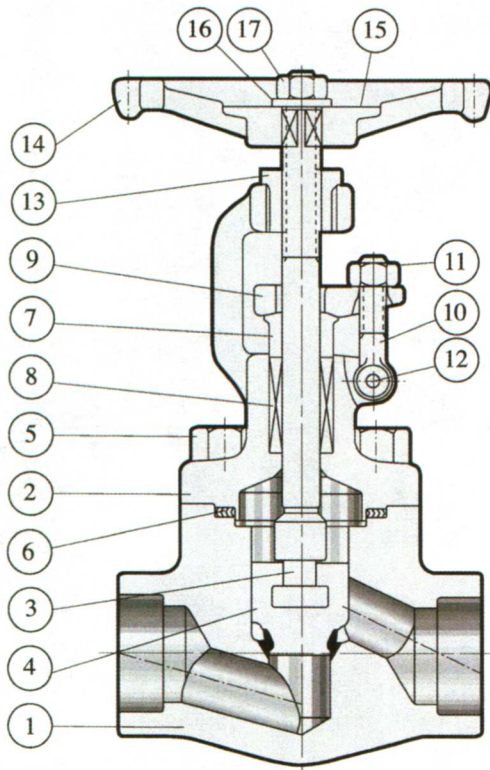
16	BOLT	4	A193-B8M
15	HANDWHEEL NUT	1	A194-2H
14	HANDWHEEL	1	A197
13	STEM NUT	1	A276-410
12	EYEBOLT NUT	2	A194-8M
11	GLAND FLANGE	1	F316
10	EYEBOLT	2	A193-B8M
9	GLAND	1	A276-316L
8	PIN	2	A276-316
7	PACKING	1 SET	FLEXIBLE GRAPHITE
6	PACKING	2	FLEXIBLE GRAPHITE+S. WIRE
5	BONNET	1	F316L
4	BONNET GASKET	1	SPIRAL WOUND GRAPHITE-316SS
3	STEM	1	F316L
2	DISC	1	F316L+STL
1	BODY	1	F316L+STL
No.	Part Name	Qty	Material

Steamco Fig# GL 810-16-THD

Steamco Forged Steel Globe Valve Material Options

Standard Material Specifications

Part No.	Part Name	ASTM Specifications									
		Carbon Steel		Alloy Steel			Stainless Steel				
		A 105	A350	A182							
	(b, c)	LF2	F5	F11(d)	F22	F304 (e)	F304L	F316(e)	F316L	F51	
1	Body	A 105	LF2	F5	F11	F22	F304	F304L	F316	F316L	F51
2	Bonnet	A 105	LF2	F5	F11	F22	F304	F304L	F316	F316L	F51
3	Stem	A276 - 410				A276 - 304	A276 - 304L	A276 - 316	A276 - 316L	F51	
4	Disc	A276 - 420				304 + STL	304L + STL	316 + STL	316L + STL	F51	
5	Bonnet Bolt (a)	A193 - B7	A320 - L7	A193 - B16			A193 - B8		A193 - B8M		
6	Gasket	304 + Graphite					316 + Graphite				
7	Gland	A276 - 410				A276 - 304		A276 - 316		F51	
8	Packing	Flexible Graphite					PTFE				
9	Gland Flange	A105	LF2	F11			CF8				F51
10	Gland Bolt	A193-B7	A320-L7	A193 - B16			A193 - B8 / B8M				
11	Gland Bolt Nut	A194-2H	A194-7	A194 - 4			A194 - 8				
12	Gland Bolt Pin	A276 - 410						A276 - 304		F51	
13	Sleeve						A276 - 410				
14	Handwheel						A197				
15	Nameplate	Aluminum					304				
16	Handwheel Washer						A108 - 1020				
17	Handwheel Nut						A194 - 2H				



Globe Valve

Notes:

- Temperature limitations on bolting are as following:
Gr B7, 1000°F(538°C); Gr L7, 1000°F(538°C);
Gr B16, 1100°F(595°C); Gr B8-CL1, 1500°F(816°C);
Gr B8M-CL1, 1500°F(816°C); Gr B8-CL2, 1000°F(538°C);
and Gr B8M-CL2, 1000°F(538°C).
- Upon prolonged exposure to temperatures above 800°F(425°C), the carbide phase of carbon steel may be converted to graphite.
- Only killed steel shall be used above 850°F(455°C).
- Use normalized and tempered material only.
- At temperatures over 1000°F(538°C), use only when the carbon is 0.04 percent or higher.