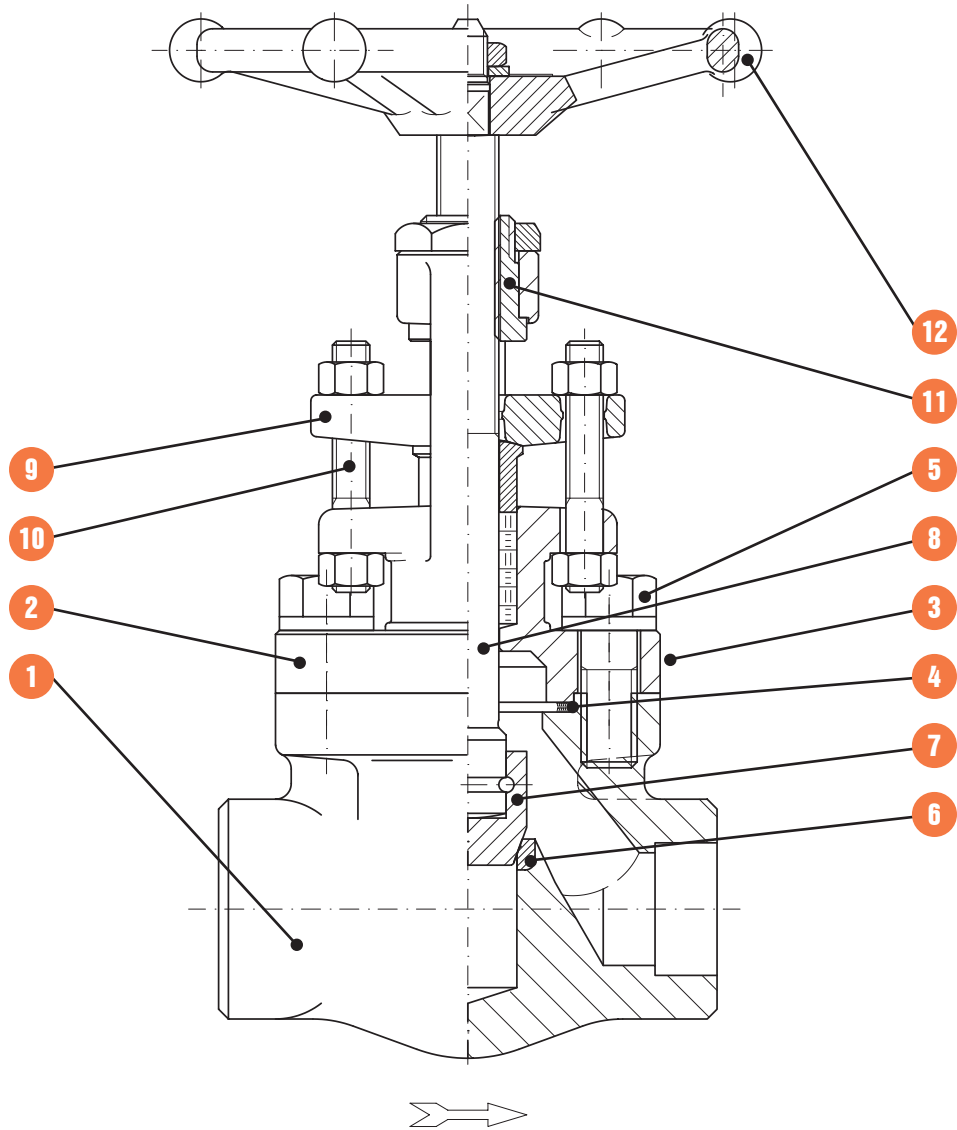


## GLOBE VALVES

Forged steel, outside screw and yoke (OS&Y), rotating rising stem, rising handwheel. Full or standard port. Bolted or welded bonnet joint. T-Pattern or Y-Pattern. Integral back-seat. Integral body seat.



- 1. BODY.** The body is forged steel and designed to the basic dimensional requirements of the applicable specifications such as API 602 and ASME B16.34. The body is available in both the full or standard port design. It is also available in either T-pattern or Y-pattern configuration.
- 2. BONNET.** The bonnet is forged steel, has an integral backseat and incorporates the stuffing box, which has dimensions per the applicable specifications such as API 602.
- 3. BODY-BONNET JOINT.** Two different bonnet joint designs are available. These are either the bolted bonnet or the threaded and seal welded type.
- 4. GASKET.** The bolted bonnet joint design valve uses a contained, controlled compression, spiral wound type gasket.
- 5. BONNET BOLTING.** The bonnet bolting is manufactured of alloy steel in accordance with the requirements of the applicable specifications such as API 602 and ASME B16.34.
- 6. SEAT.** The body seat is an integral weld overlay and is part of the valve trim.
- 7. DISC.** The disc is forged steel and is part of the valve trim. The disc seating surface is of the tapered or plug type design. The disc is attached to the stem using a loose or swivel disc arrangement.
- 8. STEM.** The stem is forged steel and part of the valve trim. It contains an integral back seat shoulder, which mates with the integral backseat of the bonnet. The stem is designed to the basic dimensional requirements of the applicable specifications such as API 602.
- 9. GLAND AND FLANGE.** The gland, gland flange assembly utilizes a separate, two piece design. This self aligning design allows the flange to be unevenly tightened while the gland maintains its parallel alignment with the stem and stuffing box.
- 10. GLAND BOLTS AND NUTS.** The steel/stainless steel gland bolt and nut assembly is a stud, double nut arrangement. This design allows complete removal from the valve when service is required. The use of industry standard thread full length studs and nuts also allows easy replacement should these items be lost or in need of replacement.
- 11. YOKE SLEEVE.** The yoke sleeve is of forged stainless steel material having a high melting point and is resistant to wear and corrosion.
- 12. HANDWHEEL.** The handwheel is forged carbon steel of an open spoke design. This robust construction along with appropriate sizing allows for ease of operation.

# GLOBE VALVES- BOLTED BONNET- FULL & STANDARD PORT

BONNEY FORGE

**800 LB.**

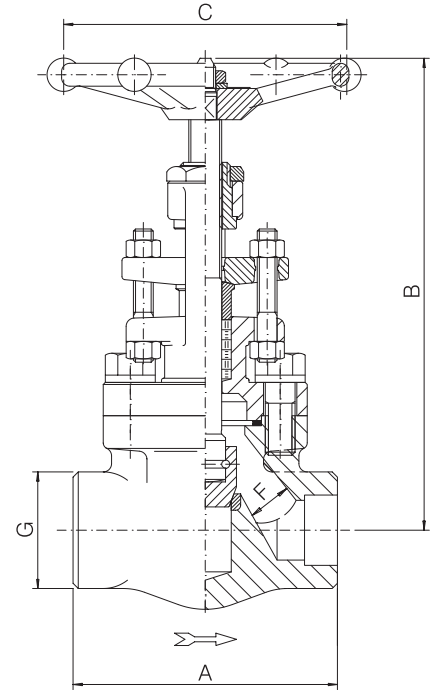
**1500 LB.**

**Design construction:**

- ASME B16.34 - BS 5352
- Testing according to API 598
- Marking MSS SP25
- Outside Screw and Yoke (OS&Y)
- Self aligning two piece packing gland
- Spiral-wound gasket
- Integral backseat
- Loose solid disc
- Socket Weld Ends to ASME B16.11
- Screwed Ends (NPT) to ASME B1.20.1
- Butt Welding Ends to ASME B16.25

**Ratings:**

- carbon steel class 800 1975 psig @ 100°F  
138 bar + 38°C
- carbon steel class 1500 3705 psig @ 100°F  
255 bar + 38°C



		FULL PORT – FIG. H 30								
SIZE	inch	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
	mm	6	10	15	20	25	32	40	50	
A	inch	3.15	3.15	3.54	4.33	5	6	7.09	8.27	
	mm	80	80	90	110	127	150	180	210	
B open	inch	6.54	6.54	6.73	8.39	9.72	10.16	11.81	14.76	
	mm	166	166	171	213	247	258	300	375	
C	inch	3.46	3.46	3.46	3.82	5.43	5.43	6.77	6.77	
	mm	88	88	88	97	138	138	172	172	
F	inch	.28	.35	.51	.69	.89	1.16	1.38	1.79	
	mm	7	9	13	17.5	22.5	29.5	35	45.5	
G	inch	1.26	1.26	1.5	1.89	2.20	2.52	3.07	3.35	
	mm	32	32	38	48	56	64	78	85	
Weight	lb.	4.75	4.75	5.25	8.25	13.25	16.75	27.5	43.25	
	kg	2.2	2.2	2.4	3.8	6.1	7.6	12.5	19.6	
PACKING		BH3	BH3	BH3	BH5	BY5	BY5	BY7	BH8	
GASKET		G2	G2	G2	G3	G4	G6	G7	G9	

		STANDARD PORT – FIG. HL 30					
SIZE	inch	1/2	3/4	1	1 1/2	2	
	mm	15	20	25	40	50	
A	inch	3.15	3.54	4.33	6	7.09	
	mm	80	90	110	150	180	
B open	inch	6.54	6.73	8.39	10.16	11.81	
	mm	166	171	213	258	300	
C	inch	3.46	3.46	3.82	5.43	6.77	
	mm	88	88	97	138	172	
F	inch	.35	.51	.69	1.16	1.38	
	mm	9	13	17.5	29.5	35	
G	inch	1.26	1.5	1.89	2.52	3.07	
	mm	32	38	48	64	78	
Weight	lb.	4.5	5	8	16.25	26.25	
	kg	2.1	2.3	3.7	7.4	11.9	
PACKING		BH3	BH3	BH5	BY5	BY7	
GASKET		G2	G2	G3	G6	G7	

		FULL PORT – FIG. 9H 30								
SIZE	inch	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
	mm	6	10	15	20	25	32	40	50	
A	inch	3.54	3.54	4.33	5	6	7.09	8.27	9.06	
	mm	90	90	110	127	150	180	210	230	
B open	inch	6.54	6.54	8.27	9.72	10.08	11.81	14.76	16.85	
	mm	166	166	210	247	256	300	375	428	
C	inch	3.46	3.46	3.82	5.43	5.43	6.77	6.77	9.21	
	mm	88	88	97	138	138	172	172	234	
F	inch	.28	.35	.47	.59	.79	1.06	1.26	1.57	
	mm	7	9	12	15	20	27	32	40	
G	inch	1.5	1.5	1.89	2.20	2.52	3.07	3.35	3.74	
	mm	38	38	48	56	64	78	85	95	
Weight	lb.	5.75	5.75	9.25	14.25	18.75	27.5	49	79.25	
	kg	2.6	2.6	4.2	6.5	8.5	12.5	22.3	36	
PACKING		BH3	BH3	BH5	2B4	2B4	2B5	BH8	9B8	
GASKET		G1	G1	G2	G3	G4	G5	G7	G8	

		STANDARD PORT – FIG. 9HL 30					
SIZE	inch	1/2	3/4	1	1 1/2	2	
	mm	15	20	25	40	50	
A	inch	3.54	4.33	5	7.09	8.27	
	mm	90	110	127	180	210	
B open	inch	6.54	8.27	9.84	11.81	14.76	
	mm	166	210	250	300	375	
C	inch	3.46	3.82	5.43	6.77	6.77	
	mm	88	97	138	172	172	
F	inch	.35	.47	.59	1.06	1.26	
	mm	9	12	15	27	32	
G	inch	1.5	1.89	2.20	3.07	3.35	
	mm	38	48	56	78	85	
Weight	lb.	5.25	8.75	14.25	28.5	48.5	
	kg	2.4	4	6.5	13	22	
PACKING		BH3	BH5	2B4	2B5	BH8	
GASKET		G1	G2	G3	G5	G7	