

Globe Valves – Forged Steel Bolted Bonnet

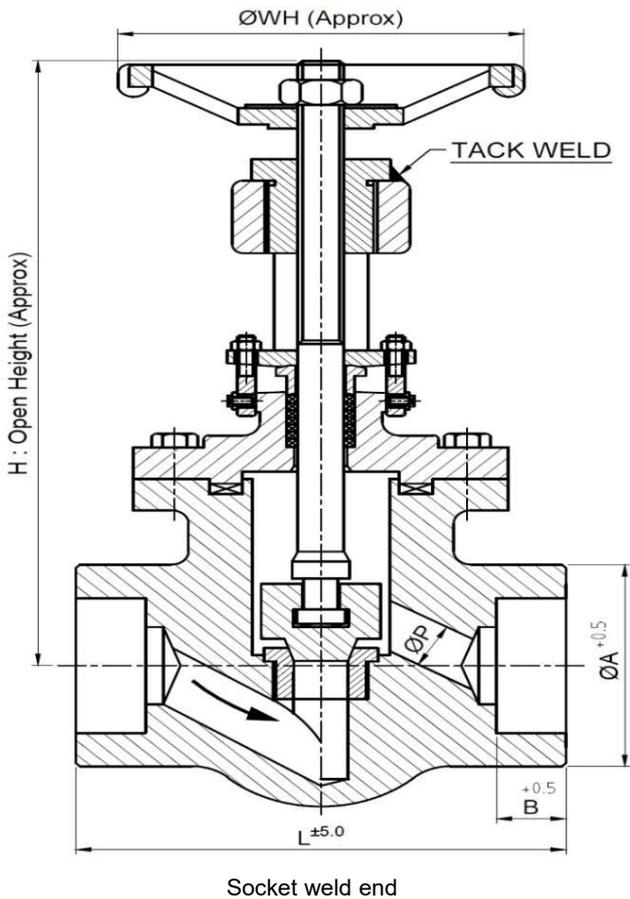
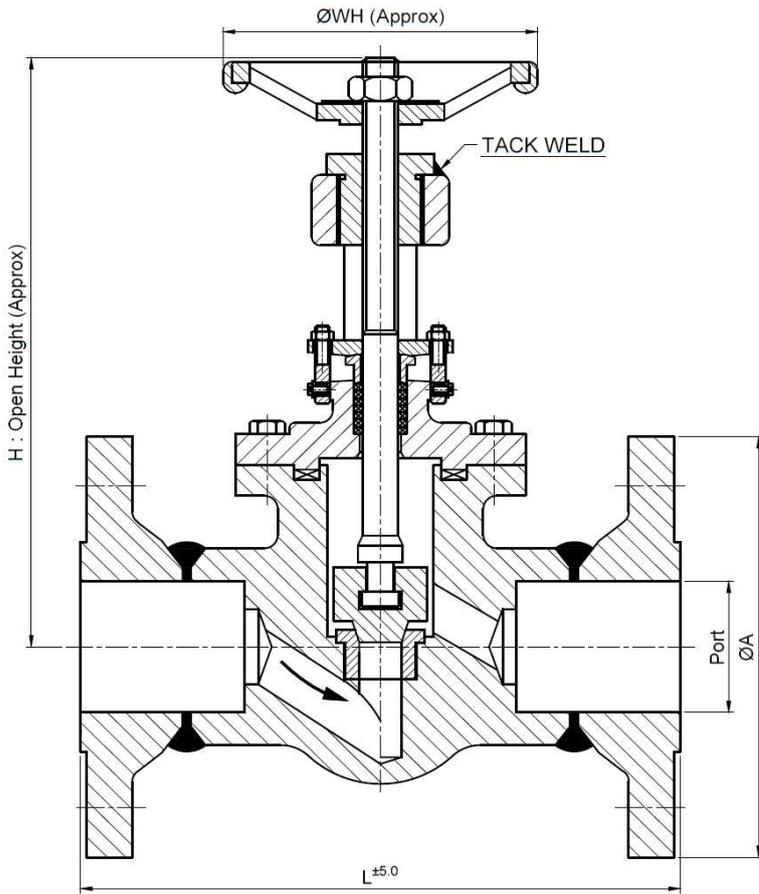


NPS 1/4" - 2" (DN 8 – DN 50), ASME Classes 800# - 2500#

Design Specification

Item	Applicable Specification
Design	: API 602 / ASME 16.34 / BS 5352
Face to Face	: ASME B16.10
Flange End	: ASME B16.5
Butt weld End	: ASME B16.25
Screwed End	: ASME B1.20.1
Socket Weld End	: ASME B16.11
Marking	: MSS SP25
Inspection & Testing	: API 598 / BS EN 12266 Part 1

Forged Steel Globe Valve Constructions



SL. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Bonnet	ASTM A 216 Gr. WCB
3	Disc/Plug	ASTM A 216 Gr. WCB + 13% Cr. Facing
4	Seat Ring (seal Weld)	ASTM A 105 + H.F
5	Gasket	SPW SS316+Grafoil Filler
6	Spindle	ASTM A 276 TP 410
7	Back Seat	Integral+Hard Face
8	Gland	ASTM A 276 TP 410
9	Gland Flange	ASTM A 105
10	Stud & Nut	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H
11	Eye Bolt & Nut	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H
12	Gland Packing	Die-Formed Flexible Graphite Rings With Braided Graphite Top & Bottom Rings
13	Yoke Sleeve / Stem Nut	ASTM A 439 Gr. D2
14	Hand Wheel	Malleable Iron
15	Name Plate	SS 304 (Not Shown)

API 602 Forged Steel Globe Valves

Dimension & Weight 800# -1500# Forged Steel Globe Valve

PORT	DIMENSION & WEIGHT TABLE, 800#									
	SIZE		PORT	L		Socket Weld Details		H-Open Height	WH	APPROX. WT. (kg)
	NPS	DN		FL(150#)	SW / SC / BW	OD (A)	Depth (B)			FL. / RTJ
FULL PORT	1/4"	8	7	-	80	14.20	11.1	166	88	2.2
	3/8"	10	9	-	80	17.60	11.1	166	88	2.2
	1/2"	15	13	108.08	90	21.80	12.7	171	88	2.5
	3/4"	20	17.5	117	110	27.20	4.5	213	97	4
	1"	25	22.5	127	127	33.90	16.0	247	138	6
	1.1/4"	32	29.5	140	150	42.70	17.5	258	138	8
	1.1/2"	40	35	165	180	48.80	19.0	300	172	13
REDUCED PORT	1/2"	15	9	108.08	80	21.80	12.7	166	88	2.1
	3/4"	20	13	117	90	27.20	4.5	171	88	2.3
	1"	25	17.5	127	110	33.90	16.0	213	97	3.7
	1.1/2"	40	29.5	165	150	48.80	19.0	258	138	7.5
	2"	50	35	178	180	61.20	22.0	300	172	11.9

PORT	DIMENSION & WEIGHT TABLE, 1500#									
	SIZE		PORT	L		Socket Weld Details		H-Open Height	WH	APPROX. WT. (kg)
	NPS	DN		FL(150#)	SW / SC / BW	OD (A)	Depth (B)			FL. / RTJ
FULL PORT	1/4"	8	7	-	90	14.20	11.1	166	88	2.6
	3/8"	10	9	-	90	17.60	11.1	166	88	2.6
	1/2"	15	12	108.08	110	21.80	12.7	210	97	4.2
	3/4"	20	15	117	127	27.20	4.5	247	138	6.5
	1"	25	20	127	150	33.90	16.0	256	138	8.5
	1.1/4"	32	27	140	180	42.70	17.5	300	172	12.5
	1.1/2"	40	32	165	210	48.80	19.0	375	172	22.3
REDUCED PORT	2"	50	40	178	230	61.20	22.0	428	234	36
	1/2"	15	9	108.08	90	21.80	12.7	166	88	2.4
	3/4"	20	12	117	110	27.20	4.5	210	97	4
	1"	25	15	127	127	33.90	16.0	250	138	6.5
	1.1/2"	40	27	165	180	48.80	19.0	300	172	13
2"	50	32	178	210	61.20	22.0	375	172	22	

- * All Dimension are In mm Unless Specified.
 - * Flange End Valve are 150# only, For other class on request.
 - * Special Material & Higher Size/Class Valves also available on request.
- L : Face To Face, FL : Flanged End, BW : Butt weld, GO : Gear Operated,
RTJ : Ring Type Joint, H : Valve Open Height,

Common Test/Inspection Method

Test/inspection	Method	Acceptance Criteria
Visual Inspection	-	MSS SP55
Chemical Analysis	ASTM E350	Relevant ASTM
Mechanical Properties	ASTM A370	Relevant ASTM
Radiographic Inspection	ASME B16.34	ASME B16.34
Magnetic Particle Inspection	ASTM E709	ASME B16.34
Liquid Penetrant Inspection	ASTM E165	ASME B16.34
Ultrasonic Inspection	ASTM A388	ASME B16.34
Positive Material Identification	Vacuum Emission Spectrometer	Customer Specification
Pressure Testing	API 598 / BS EN 12266 Part 1	API 598 / BS EN 12266 Part 1
Dimensional Inspection		Design Standard

