## GLOBE VALVE

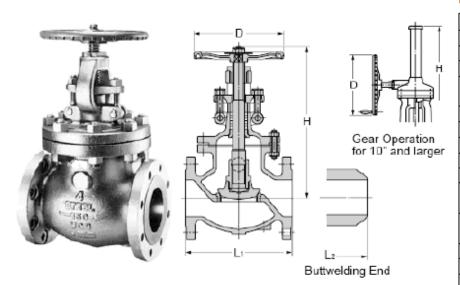
#### Characteristics:

Globe Valves are ideal for throttling service. Their flow characteristics permit accurate and repeatable flow control. However, caution must be exercised to avoid extremely close throttling when pressure drop exceeds 20%. This creates excessive noise, vibration and possible damage to valves and piping.

Globe valves are linear motion valves with rounded bodies, from which their name is derived. They are widely used in industry to regulate fluid flow in both on/off and throttling service. The direction of fluid flow through the valve changes several times, which increases the pressure drop across the valve. In most cases, globe valves are installed with the stem vertical and the higher-pressure fluid stream connected to the pipe side above the disk, which helps to maintain a tight seal when the valve is fully closed.

## CLASS 150 - 300 - 600

Bolted Bonnet, Outside Screw-and-Yoke, Rising Spindle and Handwheel Swivels.



## Material Specification:

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Parts	Materials				
Body	ASTM A216 Gr. WCB				
Bonnet	ASTM A216 Gr. WCB				
Spindle	AISI SS410				
Plug	ASTM A216 Gr. WCB +				
	13%Cr.				
Seat Ring	CS + 13%Cr.				
Gland Bush	AISI SS410				
Gland Packing	Grafoil Rings				
Gland Flange	IS 2062 Gr B.				
Handwheel	Fabricated Steel				
Gasket	Spiral Wound SS304 +				
	CAF				
Stud / Nut	ASTM A193 Gr.B7 &				
	ASTM A194 Gr.2H				
Eye Bolt & Nut	ASTM A 307 Gr. B				
Bonnet Bush	AISI SS410				
Yoke sleeve	ASTM A439 Gr.D2				
Plug Nut	AISI SS410				

Testing Standard: As per API 598 / BS 6755 - I

Test Pressure in PSI				
	Class	150	300	600
Hydro	Shell	450	1125	2225
	Seat/Back seat	315	815	1630

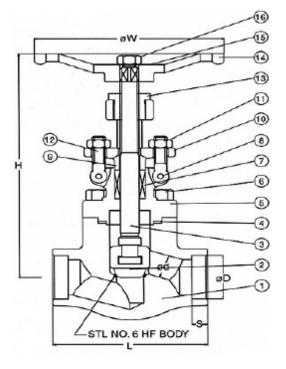
## FORGED STEEL GLOBE VALVE 800#

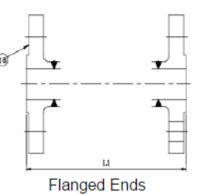
Bolted Bonnet, Outside Screw-and-Yoke, Rising Spindle and Handwheel.

#### APPLICABLE STANDARDS:

- Design as per API 602 / BS 5352
- Socket Weld & Threaded End as per ANSI B16.11
- Pipe Threads as per ANSI B1.20.1
- Flanged End as per ANSI B16.5
- Inspection & Testing as per API 598.







Material Specification:

Part No.	Part Name	Specification
1	Body	ASTM A105
2	Seatring	AISI SS410
3	Spindle	AISI SS410
4	Gasket	Spiral wound SS304 with CAF
5	Bonnet	ASTM A105
6	Stud &	ASTM A193 Gr. B7 &
	Nut	ASTM A194 Gr. 2H
7	Gland Packing	Graphite
8	Eye Bolt Pin	Carbon Steel
9	Gland Bush	AISI 410
10	Gland Flange	ASTM A105
11,12	Eye Bolt &	ASTM A193 Gr. B7 &
	Nut	ASTM A194 Gr. 2H
13	Yoke Nut	ASTM A439 D2 Ni Resist / S.G. Iron
14	Hand wheel	Malleable Iron
15	Name Plate	SS304
16	H/W Nut	ASTM A194 Gr. 2H
17	Plug	AISI SS410
18	Side Flanges	ASTM A105

Testing Standard: As per API 598

Test Pressure in PSI			
	Class	800	
Hydro	Shell	3000	
	Back seat	2200	
Air	Seat	80	

Also available in Welded Flanged Ends

Also available in Seal weld Body & Bonnet

# OUR PRODUCT RANGE

Valve Type	ASME	Design Standard		Valve Material		Size
	Class	P-T Rating	Complies to	Shell	Trim	Range
	150			WCB, LCB,	AISI: SS410,	1" TO 24"
	300			CF8, CF8M,	304,304L, 316,	1" TO 24"
Gate Valve	600			CF3, CF3M,	316L, ST6, Hard	2" TO 12"
	900		API 600/BS 1414	C5,WC6,	Faced,	2" TO 12"
	1500			CD4MCu,	Etc.	2" TO 12"
	2500			Etc.		2" TO 8"
	150			WCB, LCB,	AISI: SS410,	1" TO 16"
	300			CF8, CF8M,	304,304L,	1" TO 12"
Globe Valve	600		API 600/BS 1873	CF3, CF3M,	316, 316L, ST6,	2" TO 12"
	900			C5,WC6,	Hard Faced,	2" TO 12"
	1500			CD4MCu,	Etc.	2" TO 12"
	2500			Etc.		2" TO 8"
	150			WCB, LCB,	AISI: SS410,	2" TO 24"
	300			CF8, CF8M,	304,304L,	2" TO 24"
Non-Return	600		API 600/BS 1868	CF3, CF3M,	316, 316L, ST6,	2" TO 12"
Valve	900	ANSI B16.34		C5,WC6,	Hard Faced,	2" TO 12"
	1500			CD4MCu,	Etc.	2" TO 12"
	2500			Etc.		2" TO 8"
Forged Steel	800			A105, F304,		1/4"TO 2"
Gate Valve	1500		API 602/BS 5352	F316, F304L, F316L, Etc.	- do -	1/4" TO 11/2"
Forged Steel	800			A105, F304,		1/4"TO 2"
Globe Valve	1500		API 602/BS 5352	F316, F304L,	- do -	1/4" TO 11/2"
				F316L, Etc.		
Forged Steel	800			A105, F304,		1/4"TO 2"
Check Valve	1500		API 602/BS 5352	F316, F304L,	- do -	1/4" TO 11/2"
				F316L, Etc		
Wafer Type	150/PN 10		A DI COAVA DI CD	CI, WCB, CF8,	Seat: EPDM, Viton,	1" TO 28"
Check Valve	300/PN 16		API 594/API 6D	CF8M, Etc.	Nitrile, Silicone, PTFE, Etc.	1" TO 28"
	150			WCB,	PTFE, Reinforced	2" TO 6"
Ball Valve	300		API 6D/BS 5351	CF8, CF8M,	PTFE, Etc.	2" TO 6"
	800			A105, Etc.		½" TO 2"
Butterfly	150/PN 10		API 609/BS 5155	CI, WCB, CF8,	Seat: EPDM,	1" TO 48"
Valve	300/PN 16			CF8M, Etc.	Hyplone, PTFE Nitrile, Silicone, etc	1" TO 48"
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- + Any other special materials or requirements available on request.
- + Gear Box & actuator operated valves available upon request.
- + Stelliting or Hard facing of valve seats available upon request.
- + Position Indicator, By-Pass arrangement, Locking arrangement available upon request.
- + Seal welded body seatring available upon request.
- + Butt Weld Ends available upon request.
- + Swing Check Valves available with Dash Pot & counter Weight Arrangement upon request.
- + Butt Weld Ends available upon request.

MOB: 9129121888, 7518911999

# DESIGN SPECIFICATIONS

Items	American Standard	British Standard
Shell wall thickness and general valve design	API 600 / API 6D /	BS1414 (Gate valve)
specifications for Cast Steel & Forged Valves	API 602 / ASME B 16.34	BS1873 (Globe valve) BS1868 (Check valve)
Pressure-temperature ratings	ASME B16.34	BS1560
Face-to-face dimensions for Flanged Ends End-to-end dimensions for Butt Weld Ends	ANSI B16.10	BS2080
End flange dimensions for Flanged Ends	ANSI B16.5	BS1560
Welding end dimensions for Butt Weld	ANSI B16.25	BS1414 (Gate valve) BS1873 (Globe valve) BS1868 (Check valve)
Welding end dimensions for Socket Weld	ANSI B 16.11	
Testing & Inspection Standard	API 598	BS 6755 (Part-I)
Radiography & NDT	ASME 16.34	

# INSPECTION AND WARRANTY POLICY

Each & every valves are subjected to 100% pressure tests, according to API 598 or BS 6755 Part 1 requirements. Material test reports and inspection certificates are available on your request, while each valve is guaranteed for 12 months after placement in service, but not exceeding 18 months after shipment from our factory.

Some of the additional inspections and tests performed are:

- Random Radiograph Inspection of Body and Bonnet Castings to ASME B16.34 Appendix B
- Random Chemical Composition and Mechanical Properties Verification of Fasteners to ASTM A-193/A-194
- Liquid Penetrate Inspection of Seat Rings
- Visual Inspection of Casting to MSS-SP-55
- Receiving, In-Process, and Final Dimensional Inspections to Relevant Valve Standards.

Test / Inspection Item	Complies to	Evaluation	
Chemical composition analysis		Relevant ASTM Std.	
Mechanical property test	ASTM A370	Relevant ASTM Stds.	
Pressure tests	API 598 or BS 6755 Part 1	API 598	
Radiographic inspection	ASTM E142 / E49		
Wet magnetic particle inspection	ASTM E138	ASME B16.34	
Liquid penetrant inspection	ASTM E165		
Low temperature impact test	ASTM E23	ASTM A352	
Dimensional inspection		Relevant Valve Stds.	
Visual inspection		MSS SP-55	

Other inspections or tests can be performed or evaluation criteria applied when specified by the customer.

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