

Globe Valve

Product Description

Globe valves are linear motion shut-off valves used to control or stop fluid flow. They comprise a body, bonnet, with an internal plug, stem and seat ring. The design of globe valves allows for tight sealing capability even under low-pressure differentials, making them ideal for applications that require precise throttling. Globe valves are primarily used in isolation, flow control and pressure-regulated applications.

Features

Globe Valves are versatile, featuring an angle-seated design that delivers highly effective shut-off capabilities, withstanding wear and tear. Unlike the gate valve, the globe valve can regulate flow. They are available in union or bolted bonnet styles.

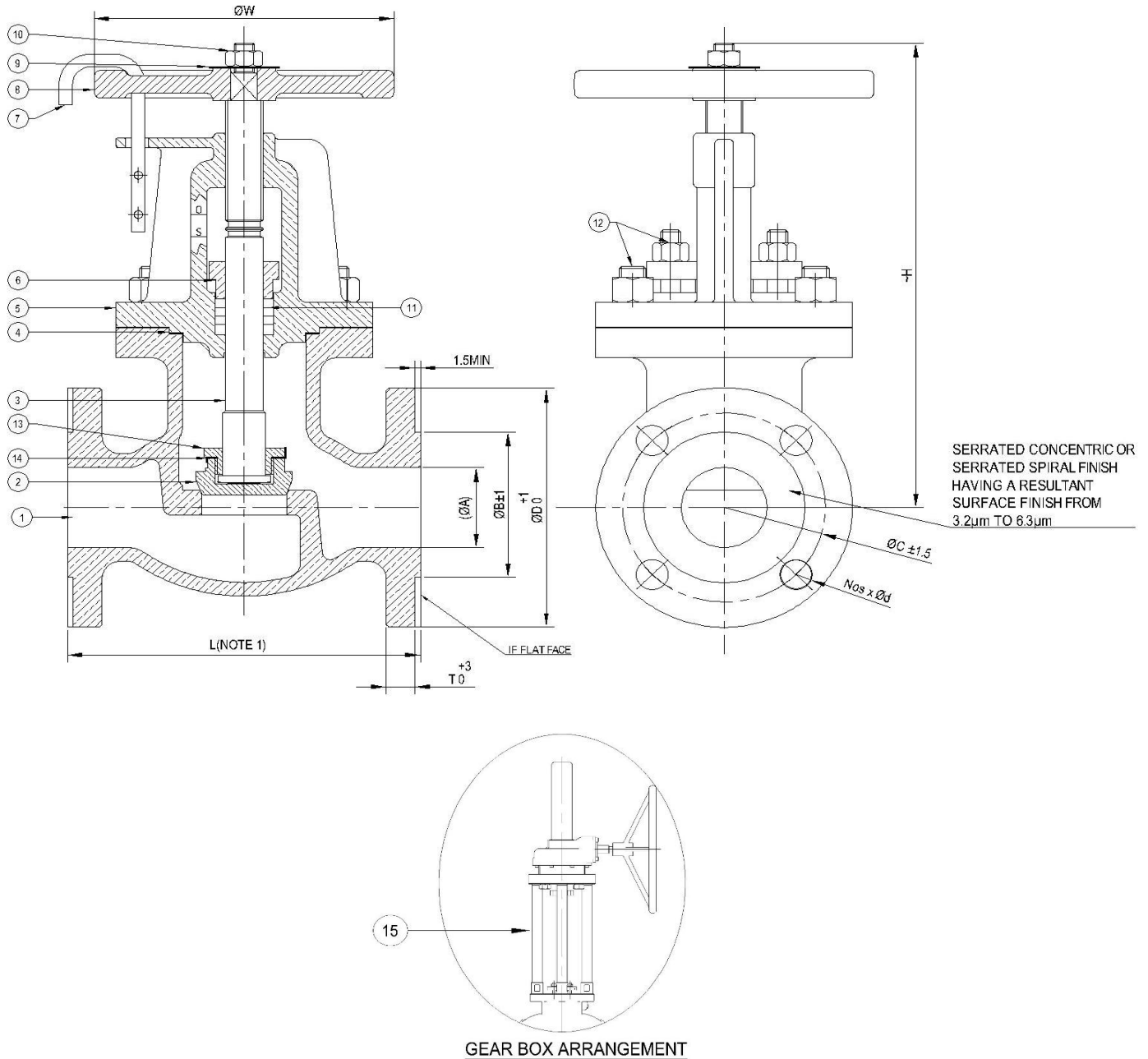
The Globe Valve disc moves in parallel with the flow and uses a stem and disc assembly to regulate fluid flow. When the handwheel is turned, the valve stem lifts and moves the disc which restricts or allows flow depending on its position.



Technical Data #150		
Design Standard	MSS SP80 / BS 5154	
Size	DN15 TO DN300	
Flanges	ASME B16.5 #150	
End To End	ASME B16.10 #150	
Testing	EN 12266-1, API 598	
Max pressure:- 19 BAR		Min Temperature:- -29°C
Max pressure:- 7.9 BAR		Min Temperature:- 260°C
Testing Pressure (Bar G) at Ambient Condition (-29°C to 38°C)		
Shell (Hydro)	Seat (Hydro)	Seat (Air)
28.5	21	N/A
Testing Duration (Sec)		
As Per STD.	As Per STD.	N/A
Certifications		
Material Test	BS EN 10204-3.1	

Technical Data #300		
Design Standard	MSS SP80 / BS 5154	
Size	DN15 TO DN350	
Flanges	ASME B16.5 #300	
End To End	ASME B16.10 #300	
Testing	EN 12266-1, API 598	
Max pressure:- 49.6 BAR		Min Temperature:- -29°C
Max pressure:- 20.6 BAR		Min Temperature:- 260°C
Testing Pressure (Bar G) at Ambient Condition (-29°C to 38°C)		
Shell (Hydro)	Seat (Hydro)	Seat (Air)
74.4	54.5	N/A
Testing Duration (Sec)		
As Per STD.	As Per STD.	N/A
Certifications		
Material Test	BS EN 10204-3.1	

General Assembly View



1. A TOLERANCE OF ± 1.5 MM (± 0.06 IN.) SHALL BE ALLOWED ON FACE-TO-FACE AND END-TO-END DIMENSIONS OF VALVES OF NPS10 AND SMALLER, AND A TOLERANCE OF ± 3.0 MM (± 0.12 IN.) SHALL BE ALLOWED FOR NPS 12 AND LARGER.

Bill of Materials

S.NO.	PART	MATERIAL
1	Body	NAB(ASTM B148 C95800)
2	Seat	NAB (ASTM B148 C95800 / ASTM B150 C63200) MONEL (ASTM A494 GR. M35-1 / ASTM B865 N05500)
3	Stem	NAB (ASTM B150 C63200) / MONEL (ASTM B865 N05500)
4	Gasket	PTFE / Graphite
5	Bonnet	NAB (ASTM B150 C95800)
6	Gland flange	NAB (ASTM B150 C95800)
7	Crook lock	SS (ASTM A276 T316)
8	Hand wheel	SS (ASTM A351 CF8M)
9	Washer	S.S
10	Nut	ASTM A194 Gr. 2H
11	Packing	PTFE / Graphite
12	Fasteners	ASTM A193 Gr. B7 / ASTM A194 Gr. 2H
13	Check nut	NAB (ASTM B150 C63200) / MONEL (ASTM B865 N05500)
14	Check nut lock	PB (BS 2873 PB102)
15	Gear box	Ductile Iron

Dimensions Tables

#150 ASME B16.5

SIZE	ΦA	ΦB	ΦC	ΦD	T	R.F	NxΦd	L	~H	ΦW
DN15	12.7	35.1	60.5	89	7.9	1.5	4x5/8"	108	147	95
DN20	19.1	42.9	69.8	99	8.6		4x5/8"	117	210	95
DN25	25.4	50.8	79.2	108	9.7		4x5/8"	127	220	114
DN40	38.1	73	98.6	127	12.7		4x5/8"	165	231	127
DN50	50.8	91.9	120.6	152	14.2		4x3/4"	203	289	178
DN80	76.2	127	152.4	190	17.5		4x3/4"	241	338	203
DN100	101.6	157.2	190.5	229	22.4		8x3/4"	292	344	203
DN150	152.4	215.9	241.3	279	23.9		8x7/8"	406	416	355
DN200	203.2	269.7	298.4	343	26.9		8x7/8"	495	490	406
DN250	254	323.8	362	406	28.4		12x1"	622	754	600
DN300	304.8	381	431.8	483	30.2		12x1"	698	787	1194

#300 ASME B16.5

SIZE	ΦA	ΦB	ΦC	ΦD	T	R.F	NxΦd	L	~H	ΦW
DN15	12.7	35.1	66.5	95	12.7	1.5	4x5/8"	152	183	89
DN20	19.1	42.9	82.6	117	14.2		4x3/4"	178	232	114
DN25	25.4	50.8	88.9	124	15.7		4x3/4"	203	232	127
DN40	38.1	73	114.3	155	19		4x7/8"	229	260	152
DN50	50.8	91.9	127	165	20.6		8x3/4"	267	280	203
DN65	63.5	104.6	149.4	190	23.9		8x7/8"	292	280	203
DN80	76.2	127	168.1	210	26.9		8x7/8"	318	336	254
DN100	101.6	157.2	200.2	254	30.2		8x7/8"	356	356	305
DN150	152.4	215.9	269.7	318	35.1		12x7/8"	444	466	406
DN200	203.2	269.7	330.2	381	39.6		12x1"	559	610	508
DN250	254	323.8	387.4	444	46		16x1-1/8"	622	711	508
DN300	304.8	381	450.8	521	49.3		16x1-1/4"	711	813	610
DN350	336.6	412.8	514.4	584	52.3		20x1-1/4"	838	1360	800

Gear Box Will Be Added From Size DN250 to DN300