

*Engineered For
Critical Flow Application*

Specification

- ▶ Size : 15MM To 300MM
- ▶ Body / Bonnet : DI / C.S / S.S
- ▶ Pr. Rating : PN 16 / PN 25 / PN 40
- ▶ Operation : Manual / Automation
- ▶ Bellow : S.S 316 / 321
- ▶ End : Flanged / Butt Weld



Introduction

Due to increased demand of products in the markets & also considering safety issues of the employees as well as plant and machinery plant managers are looking for components that should run in long period and there should not be any leakage in the components during performance.

Among these, valves play an important role in the fields of chemical, pharmaceuticals, oil & gas & in almost all processing industries.

If any leakages are found whole process has to be closed to sort out the problems which will incur heavy losses.

To overcome all these issues & considering the safety of the employees & productivity 4Matic Valves introduce bellow seal globe valves.

- ▶ **Triple sealing design** primary seal bellow, secondary back seat & tertiary seal gland.
- ▶ Conically shaped plug with **hard-faced / stellite surface** & body seat hard faced / stellited.
 1. Conical shape reduces possibility of trapping sediments.
 2. Harder surfaces of plug & seat assure high performance without leakage over a product life.
- ▶ Ideally potential & safety for harmful liquids & gases.
- ▶ Prevent from **global emissions** & protect environment.
- ▶ Deliver results according to production targets.
- ▶ Structurally sound.
- ▶ Zero maintenance.
- ▶ Extra durability.
- ▶ Corrosion & friction resistance.
- ▶ Zero fluid loss.
- ▶ Leak free performance.



4MBSV Series Bellow Seal Globe Valve

4Matic®

Body & Bonnet

The body and bonnet are cast with uniform section and generous radius fillets to prevent stress concentration. The castings are precision machined for high performance.



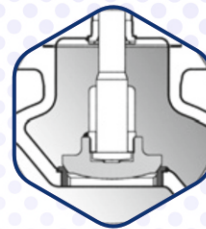
Bellow & Bellow Cup

Bellow Cup is welded to the top surface of bellow collar and prevents media to come in contact with the gland packing, hence provide corrosion and friction resistance & bottom bellow collars are welded to stem.



Conical Type Disc

4Matic Bellow Seal Globe valves feature a conical type disc provide a fine green surface on the taper seat with stellited seat face.



Stem

Bellow seal globe valve feature stem of one piece construction, ACME threaded and precision machined with polished surfaces to reduce friction, minimise leakage and extend stem life.

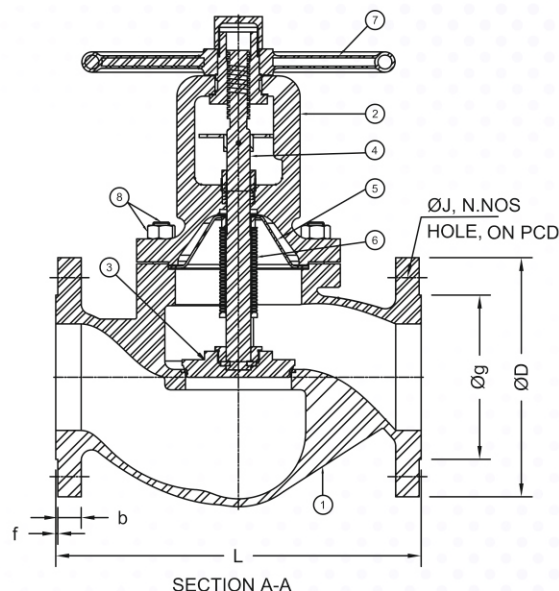


No.	Description	Material
1	Body	DI / C.S / S.S
2	Bonnet	DI / C.S / S.S
3	Plug	410 / 304 / 316
4	Stem	410 / 304 / 316
5	Bellow Cup	304 / 316
6	Bellow	S.S 316 / 321
7	Handwheel	WCB / S.G.I
8	Body bonnet fitting stud & bolt	CS / S.S

All Dimension are in mm

Size	L	ØD	b	f	Øg	ØJ	N	PCD
Tolerance	±3MM	+2MM -1MM	+3MM	±5MM	±1MM	±8MM		±1.5MM
15MM	130	90	8	2	34.9	15.88	04	60.3
20MM	117	99	8.6	2	42.9	15.88	04	69.8
25MM	160	108	9.7	2	50.8	15.88	04	88.9
32MM	180	117	11.2	2	63.5	15.88	04	88.9
40MM	200	127	12.7	2	73	15.88	04	98.6
50MM	230	150	14.3	2	92.1	19.05	04	120.7
65MM	290	180	15.9	2	104.8	19.05	04	139.7
80MM	310	190	17.5	2	127	19.05	08	152.4
100MM	350	230	22.3	2	157.2	22.2	08	190.5
150MM	480	280	23.9	2	215.9	22.2	08	241.3
200MM	600	345	27.0	2	269.9	25.4	08	298.5
250MM	730	405	28.6	2	323.8	25.4	12	362
300MM	850	485	30.2	2	381	25.4	12	431.8

Higher Size On Request.



SECTION A-A

