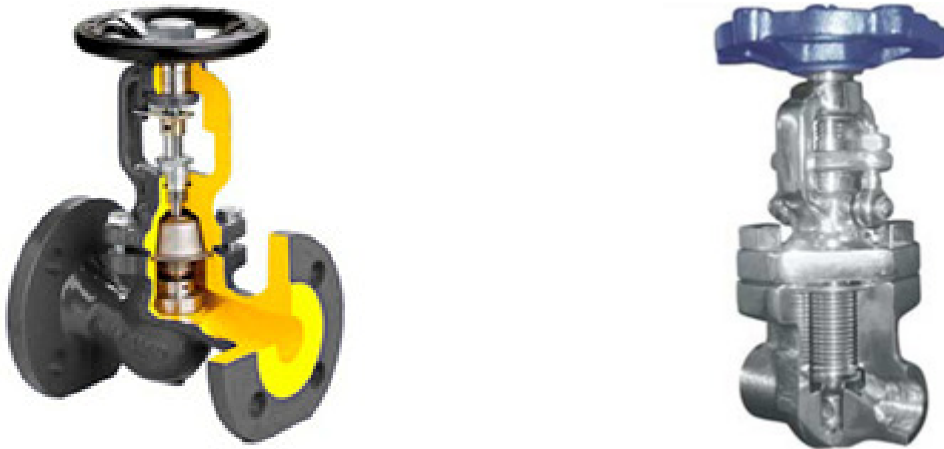




## ASVIN BELLOW SEAL VALVES FOR PROCESS INDUSTRIES



**ASIAN INDUSTRIAL VALVES AND INSTRUMENTS** manufactures **ASVIN** bellows seal valves include a formed bellows welded to the stem on one side and to the bottom of the bonnet at its bottom end, creating a tight seal. Bellows are available in many materials for most corrosive chemical applications. In applications where total containment of toxic media is mandatory, **ASVIN** bellows seal globe valves carry a maintenance-free guarantee of 5,000 cycles, and a higher cycle life of 10,000 cycles is available on request.

The valve line is offered in stainless steel 316L as the basic material configuration; however for severe service and corrosive applications, exotic materials like duplex, super duplex, Hastalloy-C22 and Titanium are also available.

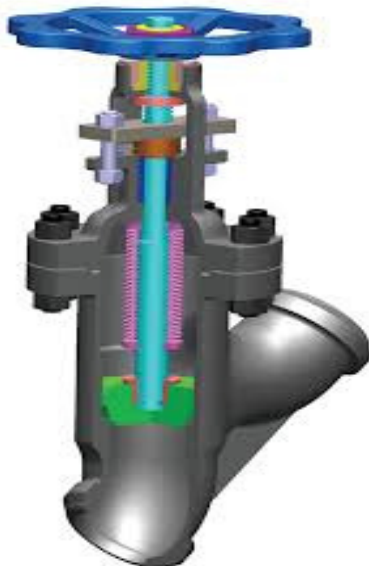
**ASVIN** bellows seal globe valves have been reliably in service in nuclear, power and chemical plants for more than 35 years.



### **Differences between conventional globe valves and bellow seal globe valves**

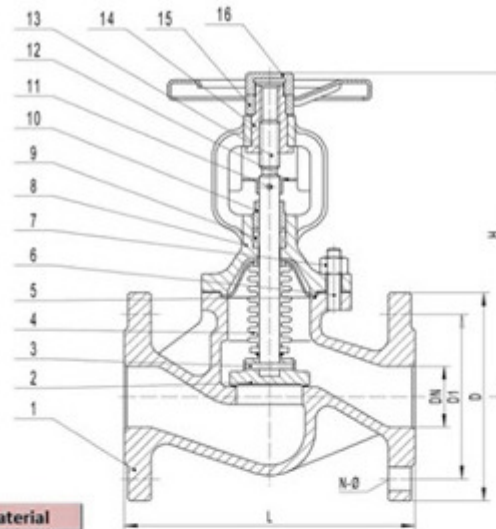
The bellow seal globe valve has superior sealing performance and is more efficient to guarantee the security of pipelines with hazardous media. The conventional globe valve is sealed by packing and has the valve stem not in tight contact with packing, causing high leak rates under low temperatures. The bellow globe valve, in general, is used for pipelines of permeable media such as ammonia since the pipeline will leak only if bellows in seal globe valve are broken.

**NDT TESTING-** Forgings shall be ultrasonically examined to rule out the presence of defects as per ASME B 16.34. Lip seal welds and hard facing deposit shall be subjected to DP Test as per ASTM E 165 and the acceptance criteria shall be as per ANSI B 16.34.





## Cast Steel Bellow Seal Globe Valve Flanged End PN16, PN40



### Material

Item	Part Name	Material	Item	Part Name	Material
1	BODY	GS-C25+13Cr	9	PACKING	GRAPHITE
2	DISC	C.S+13Cr	10	GLAND	13Cr
3	PIN	SS304	11	PIN	25
4	BELLOWS	SS304	12	GUIDE PIECE	C.S.
5	GASKET	SS304+Graphite	13	STEM	1Cr13
6	BOLT	A193-B7	14	YOKE NUT	GGG50.3
7	NUT	A194-2H	15	HAND WHEEL	C.S.
8	COVER	GS-C25	16	LOCK NUT	C.S.

### Specification :

Shell Test : PN16 - 2.4 Mpa

PN40 - 6.0 Mpa

Sealing Test (Water) : PN16 - 1.8 Mpa

PN40 - 4.4 Mpa

Sealing Test (Air) : 0.6 Mpa

Suitable Medium : W.O.G.

Working Temperature : -20~350 deg C

### Dimension (mm)

DN	PN16				PN40				H
	L	D	D1	N-Ø	L	D	D1	N-Ø	
15	130	95	65	4X14	130	95	65	4X14	202
20	150	105	75	4X14	150	105	75	4X14	202
25	160	115	85	4X14	160	115	85	4X14	210
32	180	140	100	4X18	180	140	100	4X18	210
40	200	150	110	4X18	200	150	110	4X18	230
50	230	165	125	4X18	230	165	125	4X18	230
65	290	185	145	4X18	290	185	145	8X18	245
80	310	200	160	8X18	310	200	160	8X18	265
100	350	220	180	8X18	350	235	190	8X22	350
125	400	250	210	8X18	400	270	220	8X26	380
150	480	285	240	8X22	480	300	250	8X26	415
200	600	340	295	12X22	600	375	320	12X30	550
250	730	405	355	12X26	730	450	385	12X33	720
300	850	460	410	12X26	850	515	450	16X33	790
350	980	520	470	16X26	980	580	510	16X36	960



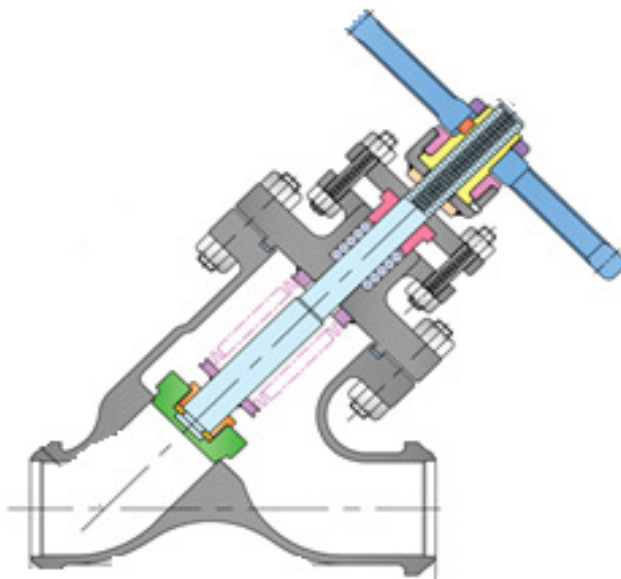
## ASVIN Bellow-sealed Globe Valves

**Size :** Globe Valves: 2" to 12" (50 mm to 300 mm)

**ASME Class:** Class 150 to 600 LBS

**Design Standards :** API 600 (Gate), API 623 (Globe), MSS SP-117

**TESTING** -The valve body / shell will be tested as per API 598. The test pressure shall be as per Table 2 of API 598 (this standard refers to ASME B 16.34 for shell test pressure). The duration of required test pressure shall be as per Table 4 of API 598 and the acceptance shall be as per Clause 3.9 of API 598.



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