

DIN STANDARD BELLOW SEAL GLOBE VALVE (PLUS)



WHY BELLOWS SEAL VALVES

One of the most frequent and serious problems valves face is gland leakage, results in wasted and increased plant downtime. Apart from the high cost of energy losses, Gland leakages can also cause serious environmental, ecological and health hazards to plant workers and personnel. Leakage of sensitive material can also constitute to a fire hazard, explosion, or damage to equipment by corrosive material. Air entering the pipeline could produce inflammable explosive or poisonous mixtures. Gland packed valves often demand continual maintenance in accessibility creating particular difficulties. The bellows complies to conditions at high temperatures and are capable of withstanding over 10,000 cycles without failure.

APPLICATION

Hot oil system, steam system, hot and cold water system etc.

ADVANTAGE

1. Bellow seal element. The key part of bellow sealed globe valves is metal bellow. It is the connection between cover and stem with automatic roll welding. The metal bellow can keep the stem part no leakage.
2. Conical disc design. Benefit from the cone and streamline shape design, the disc can remove the impurity, keep valve in reliable seal and longer service life.
3. Double seal design (bellows+packing). Bellow form a metal seal to prevent leakage, and packing can provide seal if the bellow failed.
4. Patented central locate design. It can protect stem from thermal and lower noise, so the bellow is with stable performance and long service life.
5. Coated sand casting technology. Sand mixed with binder and other additives, it makes the rough casting with less defects like pore, trachoma and cracks, and better tensile strength.

TECHNICAL SPECIFICATION

Design standard: DIN 3356
Face to face dimension: DIN 3202
Flanged ends: DIN 2543-2545
Test & inspection: DIN 3230

PERFORMANCE SPECIFICATION

NO.	Part name	Material
1	Body	1.0619+N, 1.4401
2	Seat	1.4301, Stellite
3	Disc	1.4021, 1.4401+ Stellite
4	Pin	1.4301, 1.4401
5	Bellow assemble	1.4301, 1.4401
6	Stem	1.4021, 1.4301, 1.4401
7	Gasket	Flexible graphite + stainless steel
8	Cover	1.0619+N, 1.4401
9	Nut	ASTM 194-2H, A194-8
10	Double-headed bolt	ASTM 194-B7, A193-B8
11	Packing	Flexible graphite
12	Gland	1C25, 1.4301, 1.4401
13	Locator	1C25
14	Stem nut	Copper alloy, D2, BL2
15	Hand wheel	Carbon steel
16	Cap	1C45

PERFORMANCE SPECIFICATION

Nominal Pressure		PN	Mpa
Test Pressure	Strength test	1.5PN	
	Sealing test	1.1PN	
	Gas seal test	0.6	
Suitable temp		-196°C~600°C	

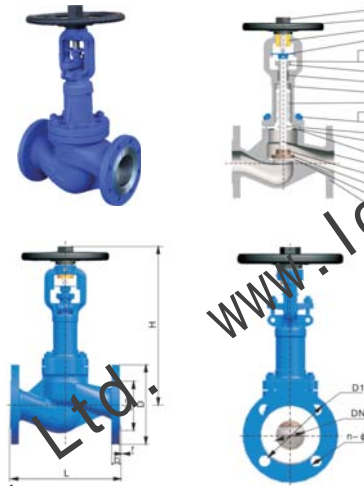
MAIN CONNECTION SIZE

DN	Main connection size						
	L	D	D1	D2	b	f	H
15	130	95	65	45	16	2	195
20	150	105	75	58	18	2	195
25	160	115	85	68	18	2	207
32	180	140	100	78	18	2	218
40	200	150	110	88	18	3	225
50	230	165	125	102	20	3	230
65	290	185	145	122	20	3	272
80	310	200	160	138	20	3	272
100	350	220	180	158	20	3	290
125	400	250	210	188	22	3	340
150	480	285	240	212	22	3	425
200	600	340	295	268	24	3	540
250	730	405	355	320	26	3	655
300	850	460	410	373	28	4	720
350	980	520	470	430	30	4	970
400	1100	580	525	490	32	4	1055

DN	Main connection size						
	L	D	D1	D2	b	f	H
15	130	95	65	45	16	2	195
20	150	105	75	58	18	2	195
25	160	115	85	68	18	2	207
32	180	140	100	78	18	2	218
40	200	150	110	88	18	3	225
50	230	165	125	102	20	3	230
65	290	185	145	122	20	3	272
80	310	200	160	138	20	3	272
100	350	220	180	158	20	3	290
125	400	250	210	188	22	3	340
150	480	300	250	218	28	3	425
200	600	360	310	278	30	3	540
250	730	425	370	335	32	3	655
300	850	485	430	395	34	4	720
350	980	555	490	450	38	4	970
400	1100	620	550	505	40	4	1055

DN	Main connection size						
	L	D	D1	D2	b	f	H
15	130	95	65	45	16	2	195
20	150	105	75	58	18	2	195
25	160	115	85	68	18	2	207
32	180	140	100	78	18	2	218
40	200	150	110	88	18	3	225
50	230	165	125	102	20	3	230
65	290	185	145	122	20	3	272
80	310	200	160	138	20	3	272
100	350	225	190	162	24	3	355
125	400	270	220	188	26	3	410
150	480	300	250	218	28	3	425
200	600	375	320	285	34	3	540
250	730	450	385	345	38	3	655
300	850	515	450	410	42	4	720
350	980	590	510	465	46	4	970
400	1100	660	585	535	50	4	1055

DIN STANDARD BELLOWS SEAL GLOBE VALVE (EXTEND)



ADVANTAGE

1. Extended bellow sealed globe valve is the latest patented product of our company. The key part metal bellow is sealed in the extended space. Consequently the pressure and temperature of medium will not influence the bellow and it will have a longer service life.
2. The seal element of titanium which is a reliable material for high temperature and corrosion will form a triple seal. It provides a more reliable performance.

APPLICATION

Hot oil system, steam system, hot and cold water system etc.

MAIN CONNECTION SIZE

DN	Main connection size						
	L	D	D1	D2	b	f	H
15	130	95	65	45	16	2	249
20	150	105	75	58	18	2	249
25	160	115	85	68	18	2	266
32	180	140	100	78	18	2	274
40	200	150	110	88	18	3	315
50	230	165	125	102	20	3	325
65	290	185	145	122	20	3	411
80	310	200	160	138	20	3	433
100	350	220	180	158	20	3	541
125	400	250	210	188	22	3	586
150	480	285	240	212	22	3	625
200	600	340	295	268	24	3	769
250	730	405	355	320	26	3	1020
300	850	460	410	378	28	4	1083
350	980	520	470	438	30	4	1342
400	1100	580	525	490	32	4	1535

TECHNICAL SPECIFICATION

Design standard: DIN 3356
Face to face dimension: DIN 3202
Flanged ends: DIN 2543-2545
Test & inspection: DIN 3230

PERFORMANCE SPECIFICATION

Nominal Pressure		PN	Mpa
Test Pressure	Strength test	1.5PN	
	Sealing test	1.1PN	
	Gas seal test	0.6	
	Bellows test	1.1PN	
Suitable temp		-196°C~600°C	

PERFORMANCE SPECIFICATION

NO.	Part name	Material
1	Body	GS-C25, 1.4401
2	Seat	1.4301, Stellite
3	Disc	1.4021, 1.4401
4	Pin	1.4301, 1.4401
5	Stem	1.4021, 1.4401
6	Gasket	PTFE, Flexible graphite
7	Seal bowl	1.4301, 1.4401
8	Seal element	Titanium
9	Stud	ASTM 193-B7, A193-B8
10	Hex nuts	ASTM 194-2H, A194-8
11	Bellows	1.4301, 1.4401
12	Cover	GS-C25, GGG-40, 1.4401
13	Packing	PTFE, Flexible graphite
14	Platen	GS-C25, 1.4301
15	Extremely heavy bolt	ASTM 194-2H, A194-8
16	Hex nuts	ASTM 194-2H, A194-8
17	Stem guide	1C45
18	Stem nut	Copper alloy, D2, BL2
19	Hand wheel	Carbon steel
20	Locknut	1C45

DN	Main connection size						
	L	D	D1	D2	b	f	H
15	130	95	65	45	16	2	249
20	150	105	75	58	18	2	249
25	160	115	85	68	18	2	266
32	180	140	100	78	18	2	274
40	200	150	110	88	18	3	315
50	230	165	125	102	20	3	325
65	290	185	145	122	20	3	411
80	310	200	160	138	24	3	433
100	350	235	190	162	24	3	541
125	400	270	220	188	26	3	586
150	480	300	250	218	28	3	625
200	600	360	310	278	30	3	769
250	730	425	370	335	32	3	1020
300	850	485	430	395	34	4	1083
350	980	555	490	450	38	4	1342
400	1100	620	550	505	40	4	1535

DN	Main connection size						
	L	D	D1	D2	b	f	H
15	130	95	65	45	16	2	249
20	150	105	75	58	18	2	249
25	160	115	85	68	18	2	266
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200	600	375	320	285	34	3	769
250	730	450	385	345	38	3	1020
300	850	515	450	410	42	4	1083
350	980	580	510	465	46	4	1342
400	1100	660	585	535	50	4	1535