

## DIN BELLOW SEALE GLOBE VALVE



### ✧ WHY BELLOWS SEALED VALVES

One of the most frequent and serious problems that valve faces with is stem gland packing leakage, which results in wasted and increased downtime for the factory. Apart from the high cost of energy losses, gland leakages can also cause serious environmental, ecological and health hazards to factory workers. The leakage of sensitive materials can also constitute to the fire hazard, explosion, or damage to equipment by corrosive materials. If the leaked air enters into the pipeline, it could produce inflammable explosive or poisonous mixtures. Gland packed valve often requires continual maintenance in accessibility creating particular difficulties. The bellows valves are widely applicable to working conditions of high temperatures, withstanding over 10,000 cycles without failure.

### ✧ FEATURES

1. Bellow seal element. The key part of bellows sealed globe valve is the bellow, which is roll welded with stem assembly on the bottom, and is roll welded with connecting cover on the top, forming a metal barrier between the mediums and atmosphere, and ensuring there is no leakage from the stem packing.
2. Tapered design valve disc. Valve sealing seat and mediums are designed to streamline, the disc can remove the impurity with better sealing and long service life.
3. Double seal design (bellows + packing). If bellows seal is failed, the stem packing can take sealing effects, preventing of stem leakage.
4. Patented central location design. Prevent the stem from being with tremble or noise, making the bellows has stable performance and long service life.
5. Valve bonnet is with grease nipple, which can lubricate the valve stem, nuts and stem sleeve directly.
6. Ergonomic design hand wheel, long service life, easier operation, safe and reliability.
7. Compound valve casting technology. Sand is mixed with binder and other additives, which make the rough casting is with fewer defects, such like pore, trachoma or cracks, but better tensile strength.



## ※ TECHNICAL SPECIFICATIONS

Nominal pressure: PN1.6MPa / PN2.5MPa / PN4.0MPa

Size: 1/2"~16" (15~400mm)

Materials: GS-C25, GGG-40, 1.7363, 1.4401, 1.4408, 1.4306, 1.4301

Design & manufacturing: DIN 3356

Face to face: DIN 3202

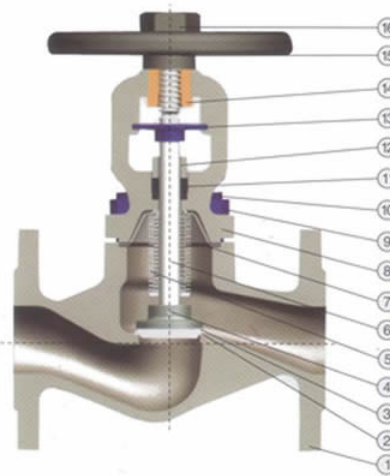
Flanged ends: DIN 2543-2545

Inspection and Test: DIN 3230

Applicable medium: water, hot oil, gas, steam

Applicable temperature: -29°C~+350°C (higher temperature is available upon request)

Applicable fields: petroleum, chemical industry, pharmacy, chemical fertilizer, power plant, textile, printing & dyeing

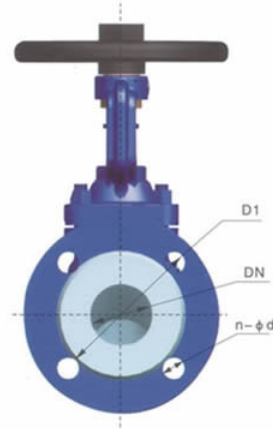


## ※ MAIN PARTS AND MATERIALS

No.	Part Name	Materials
1	Body	GS-C25, GGG-40, 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	GS-C25, GGG-40, 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



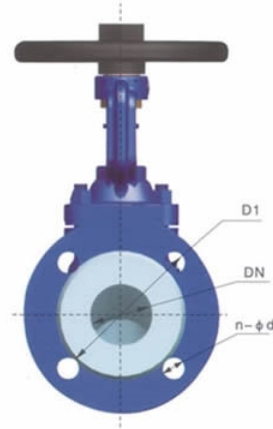




### ※ MAIN CONNECTION DIMENSIONS (MM)

PN 16								
DN	L	D	D1	D2	b	f	H	n-Φd
15	130	95	65	45	16	2	195	4-Φ14
20	150	105	75	58	18	2	195	4-Φ14
25	160	115	85	68	18	2	207	4-Φ14
32	180	140	100	78	18	2	218	4-Φ18
40	200	150	110	88	18	3	225	4-Φ18
50	230	165	125	102	20	3	230	4-Φ18
65	290	185	145	122	20	3	272	4-Φ18
80	310	200	160	138	20	3	290	8-Φ18
100	350	220	180	158	20	3	355	8-Φ18
125	400	250	210	188	22	3	410	8-Φ18
150	480	285	240	212	22	3	425	8-Φ22
200	600	340	295	268	24	3	540	12-Φ22
250	730	405	355	320	26	3	665	12-Φ26
300	850	460	410	378	28	4	720	12-Φ26
350	980	520	470	438	30	4	970	16-Φ26
400	1100	580	525	490	32	4	1055	16-Φ30
PN 25								
DN	L	D	D1	D2	b	f	H	n-Φd
15	130	95	65	45	16	2	195	4-Φ14
20	150	105	75	58	18	2	195	4-Φ14
25	160	115	85	68	18	2	207	4-Φ14
32	180	140	100	78	18	2	218	4-Φ18
40	200	150	110	88	18	3	225	4-Φ18
50	230	165	125	102	20	3	230	4-Φ18
65	290	185	145	122	22	3	272	8-Φ18
80	310	200	160	138	24	3	290	8-Φ18
100	350	235	190	162	24	3	355	8-Φ22
125	400	270	220	188	26	3	410	8-Φ26





### ※ MAIN CONNECTION DIMENSIONS (MM)

PN 25								
DN	L	D	D1	D2	b	f	H	n-Φd
125	400	270	220	188	26	3	410	8-Φ26
150	480	300	250	218	28	3	425	8-Φ26
200	600	360	310	278	30	3	540	12-Φ26
250	730	425	370	335	32	3	665	12-Φ30
300	850	485	430	395	34	4	720	16-Φ30
350	980	555	490	450	38	4	970	16-Φ33
400	1100	620	550	505	40	4	1055	16-Φ36
PN 40								
DN	L	D	D1	D2	b	f	H	n-Φd
15	130	95	65	45	16	2	195	4-Φ14
20	150	105	75	58	18	2	195	4-Φ14
25	160	115	85	68	18	2	207	4-Φ14
32	160	140	100	68	18	2	218	4-Φ18
40	180	150	110	78	18	3	225	4-Φ18
50	230	165	125	102	20	3	230	4-Φ18
65	290	185	145	122	22	3	272	8-Φ18
80	310	200	160	138	24	3	290	8-Φ18
100	350	235	190	162	24	3	355	8-Φ22
125	400	270	220	188	26	3	410	8-Φ26
150	480	300	250	218	28	3	425	8-Φ26
200	600	375	320	285	34	3	540	12-Φ30
250	730	450	385	345	38	3	665	12-Φ33
300	850	515	450	410	42	4	720	16-Φ33
350	980	580	510	465	46	4	970	16-Φ36
400	1100	660	585	535	50	4	1055	16-Φ39

