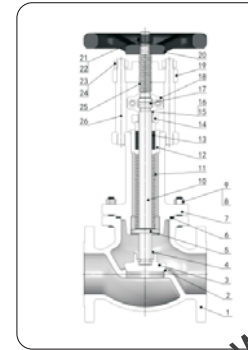


## LONGER FORGED STEEL BELLOW SEAL GLOBE VALVE



### 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 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.Stem:2-part rising stem with outside roll-formed thread; stem coupling with bellows anti-torque device .
- 2.Bellow:Multiple wall, fully flushed stainless steel bellows, secured against torsion, designed for 10,000 cycles; fully welded.
- 3.360° free rotation disc that allows the cleaning of impurities that can carry the fluid to make the closure on the different surfaces of the seat, at the same time, it does not transmit the vibrations to the valve stem.
- 4.Conically shaped plug made of hardened chromium steel 1.4021/AISI 420, or hard-surfaced with stellite 6; both seat hard-surfaced with stainless steel 1.4370/ AISI 307 or stellite 6.
- 5.Metal back seat with stroke limiter in open position and bellows anti-vibration device.
- 6.Full size safety gland packing made of pure graphite; can also be supplied in PTFE if requested.
- 7.Stainless steel camprofiled bonnet gasket coated with pure graphite, mounted in tongue and groove bonnet flanges.
- 8.Using coated sand casting technology, which can promise Zero trachoma, Higher precision, perfect surface .

### TECHNICAL SPECIFICATION

Face to face dimension: ASME B16.10  
Flanged ends: ASME B16.5  
Test & inspection: API598

### PERFORMANCE SPECIFICATION

NO.	Part name	Material
1	Body	WCB, CF8, CF8M
2	Seat	304, 316, Stellite
3	Disc	A105, 304, 316+ Stellite
4	Cap	A105, 304, 316
5	Bellows Protection unit	A105, 304, 316
6	Gasket	Flexible graphite, stainless steel, PTFE
7	Bonnet	WCB, CF8, CF8M
8	Bolt	ASTM 194-B7, A193-B8
9	Nut	ASTM 194-2H, A194-8
10	Lower Stem	420, 304, 316
11	Bellow	304, 316L, 316Ti, HC
12	Stuffing Box	A105, 304, 316
13	Packing	Flexible graphite, PTFE
14	Gland	WCB, CF8
15	Jack Bolt	ASTM 194-B7, A193-B8
16	Jack Nut	ASTM 194-2H, A194-8
17	Friction plate	420
18	Locator	WCB, CF8
19	Stem nut	A105, 304
20	Handwheel	Carbon steel
21	Nut	ASTM 194-2H, A194-8
22	Spring gasket	1060, 304
23	Strut Nut	ASTM 194-2H, A194-8
24	Spring gasket	1060, 304
25	Upper stem	420, 304, 316
26	Strut	420, 304

### PERFORMANCE SPECIFICATION

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

### MAIN CONNECTION SIZE

DN	150LB Main connection size							
	L	D	D1	D2	b	f	H	n-Φd
1/2"	108	90	60.5	35	10	2	195	4-Φ16
3/4"	117	100	70	43	11	2	195	4-Φ16
1"	127	110	79.5	51	12	2	207	4-Φ16
1 1/4"	140	115	89	63.5	13	2	218	4-Φ16
1 1/2"	165	125	98.5	73	15	2	225	4-Φ16
2"	203	150	120.5	92	16	2	230	4-Φ19
2 1/2"	216	180	139.5	105	18	2	272	4-Φ19
3"	241	190	152.5	127	20	2	290	4-Φ19
4"	292	230	190.5	157	24	2	355	8-Φ19
5"	356	255	216	186	24	2	410	8-Φ22
6"	406	280	241.5	216	26	2	425	8-Φ22
8"	495	345	298.5	270	29	2	540	8-Φ22
10"	622	405	362	324	31	2	665	12-Φ25
12"	698	485	432	381	32	2	720	12-Φ25
14"	787	535	476	413	35	2	970	12-Φ29
16"	914	595	540	470	37	2	1055	16-Φ29
DN	300LB							
	L	D	D1	D2	b	f	H	n-Φd
1/2"	152	95	66.7	35	15	2	195	4-Φ16
3/4"	178	115	82.5	43	16	2	195	4-Φ19
1"	203	125	89	51	18	2	207	4-Φ19
1 1/4"	216	135	98.4	63.5	20	2	218	4-Φ19
1 1/2"	229	155	114.3	73	21	2	225	4-Φ22
2"	267	165	127	92	23	2	230	8-Φ19
2 1/2"	292	190	149.5	105	26	2	272	8-Φ22
3"	318	210	168.5	127	29	2	290	8-Φ22
4"	356	255	200	157	32	2	355	8-Φ22
5"	400	280	235	186	36	2	410	8-Φ22
6"	444	320	270	216	37	2	425	12-Φ25
8"	559	380	330	270	42	2	540	12-Φ25
10"	622	445	387	324	48	2	665	16-Φ29
12"	711	520	451	381	51	2	720	16-Φ32
14"	838	585	514.5	413	54	2	970	20-Φ32
16"	864	650	571.5	470	58	2	1055	20-Φ35
DN	600LB							
	L	D	D1	D2	b	f	H	n-Φd
1/2"	165	95	66.7	35	15	6.4	195	4-Φ16
3/4"	190	115	82.5	43	16	6.4	195	4-Φ19
1"	216	125	89	51	18	6.4	207	4-Φ19
1 1/4"	229	135	98.4	63.5	21	6.4	218	4-Φ19
1 1/2"	241	155	114.3	73	23	6.4	225	4-Φ22
2"	292	165	127	92	26	6.4	230	8-Φ19
2 1/2"	330	190	149.2	105	29	6.4	272	8-Φ22
3"	356	210	168.3	127	32	6.4	290	8-Φ22
4"	432	275	215.9	157	38	6.4	355	8-Φ26
5"	508	330	266.7	186	45	6.4	410	8-Φ29
6"	559	355	292.1	216	48	6.4	425	12-Φ29
8"	660	420	349.2	270	56	6.4	540	12-Φ32
10"	787	510	431.8	324	64	6.4	665	16-Φ35
12"	838	560	489	381	67	6.4	720	20-Φ35