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About Us

BELLOWS SEALED GLOBE VALVE

Why bellows seal?

In Bellow sealed valves, conventional gland packing is replaced by a bellows cartridge welded to the valve bonnet and stem. A bellow is a long accordion-like tube. As the valve stem strokes, the bellows expands or compresses with the stroke movement. There are no sliding or rotating seals through which process fluid can pass

BEIZE bellow sealed globe valve provides an environmentally solution to on/off valve needs. The bellow sealed design ensures stem seal leaks are totally eliminated, save energy and and promote a cleaner environment.

Fearture:

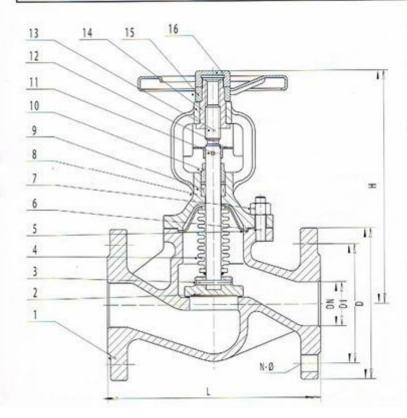
- > Mainternance free.
- > Long valve life.
- > 100% tested for zero seat leakage.
- > Easy to operate.
- > Double wall below seal.
- > Stem with bellow seal.
- > Open/closed positioner indicator.
- Non-rising handwheel.
- Secondary sealing: gland packing



Bellows sealed globe valve are suitable for use on a wide variety of industrial and process fluids and gases such as steam, thermal oil, compressed air, hot water, power station, ammonia.

Pressure/ temperature limits:

Body design condition	PN16 PN25	PN40 ab	ove is required	
PMA Maximum allowable pressure @ 120 0C	18 bar g	25 bar g	40 bar g	
TMA Maximum allowable temperature	350 oC	350 oC	400 oC	
PMO Maximum operating pressure for saturated steam	15.8 barg	23.9 bar g	36.1 bar g	
Minimum alowable temperature	-10 oC	-10 oC	-10 oC	
Maximum cold hydraulic test pressure	34 bar g	38 bar g	60 bar g	



TEM	PART NAME	MATERIAL					
1	BODY	GS- C25+13Cr					
2	DISC	C.S+13Cr					
3	PIN	\$\$304					
4	B ELLO WS	\$\$304					
5	G ASKET	SS304 +GRAPHITE					
6	BOLT	A193-B7					
7	NUM	A194-2H					
8	COVER	GS -C 25					
9	PACKING	GRAPHITE					
10	GLA ND	13Cr					
11	PIN -	25					
12	GUIDE PIECE	C.S					
13	STEM	1Cr13					
14	YOK E NUT	GG G 50.3					
15	HAND WHEEL	C.S					
16	LOCK NUM	C.S					

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Demension:

Design & manufacture conforms to EN 13709;

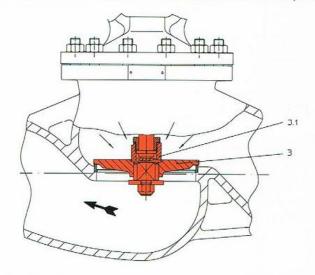
Face to face comforms to EN 558-F1;

Flange conforms to EN 1092-1;

Test conforms to EN 12266.

DN		PN	16	MA.	- Alexandra	P N 2 5				PN40				
	L	D	D1	N-Ø	l	D	D1	N-Ø	L	D	D1	N-Ø	Н	Travel
15	130	95	65	4 14	130	95	65	4 14	130	95	65	4 14	202	8
20	150	105	75	4 14	150	105	75	4 14	150	105	75	4 14	202	8
25	160	115	85	4 14	160	115	85	4 14	160	115	85	4 14	210	10
32	180	140	100	4 18	180	140	100	4 18	180	140	100	4 18	210	10
40	200	150	110	4 18	200	150	110	4 18	200	150	110	4 18	230	15
50	230	165	125	4 18	230	165	125	4 18	230	165	125	4 18	230	16
65	290	185	145	4 18	290	185	145	8 18	290	185	145	8 18	245	18
80	310	200	160	8 18	310	200	160	8 18	310	200	160	8 18	265	20
100	350	220	180	8 18	350	235	190	8 22	350	235	190	8 22	350	28
125	400	250	210	8 18	400	270	220	8 26	400	270	220	8 26	380	32
150	480	285	240	8 22	480	300	250	8 26	480	300	250	8 26	415	40

Size from DN150 - DN400:



Valves with balancing plugs have to be installed with medium flowing over the plugs (3) as indicated by flow direction arrown on valve body.

Working principles:

When the valve is closed, anticlockwise rotation of the hand wheel lifts the pilot plugs (3.1) off the larger balancing plugs (3). This allows the medium to pass

through the plug and equalizes the pressure of medium under the plus (3). After pressures have been equalized within the values stated in the table, the valve can be opened by turning the valve further with normal manual force. Balancing plugs are fully effective only in closed systems.

The pressures of the medium on either side of the plug cannot be equalized if the medium discharged into "open". A bypass line or some other arrangement is necessary if too much is required for pressure equalization owing to the voume in the piping system.

DN			PN1	6			5	PN40							
	L	D	D1	N-	Н	L	D	D1	N-	Н	L	D	D1	N-	Н
200	600	340	295	12×22	550	600	360	310	12×26	550	600	375	320	12×30	550
250	730	405	355	12×26	730	730	425	370	12×30	730	730	450	385	12×33	730
300	850	460	410	12×26	790	850	485	430	16×30	790	850	515	450	16×33	790
350	980	520	470	16×26	940	980	555	490	16 x 3 3	940	980	580	510	16×36	940
400	1100	580	525	16×30	1055	1100	620	555	16×36	1055	1100	660	585	16×39	1055