



Bellows Valves Experts

Zhejiang Newton Fluid Control Co.,ltd.



Add:Wuxing Industrial Area, Dongou Street, Yongjia Country,
Zhejiang, China, 325105
Tel:+86-0577-67978268 67978269 Fax:+86-0577-67376711
Website:www.vmv-valve.com
<http://vmv.en.alibaba.com>
E-mail:vmv@vmv-valve.com



Zhejiang Newton Fluid Control Co.,Ltd.



www.vmv-valve.com

COMPANY PROFILE

Zhejiang Newton Fluid Control Co.,Ltd. is a professional bellow sealed valves company located in China, which has nearly 22 years of valve manufacturing experience. Newton is committed to design, development, manufacturing and sales of high-grade valve, and occupies more than 8000 square meters. It has about 160 staffs, 22 senior professional titles employees and more than 120 workers. We established a special team include a professional engineer, which is responsible for the after-sales and repair service of domestic and foreign market.

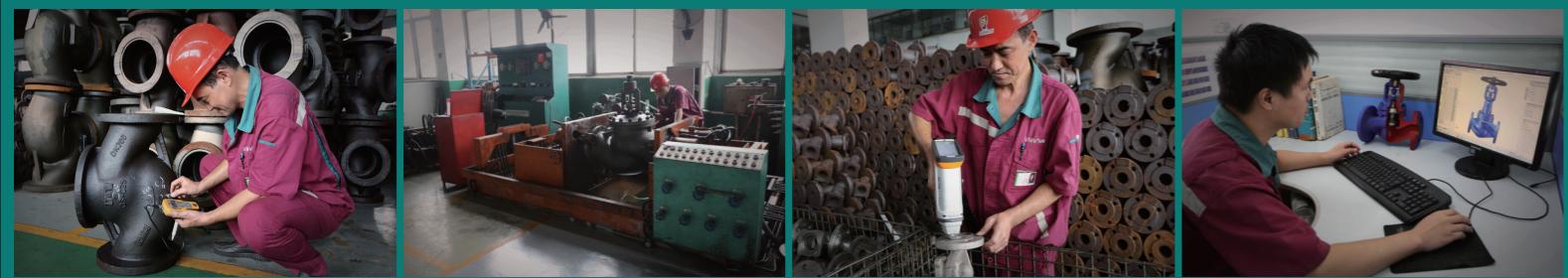
Newton has excellent equipment, strong technical power, and first-class inspect means. Comprehensive quality control system, keep the production in reasonable structure and reliable performance. It includes chemical analysis, mechanical tests, ultrasonic thickness testing, MT, PT and RT etc. We implement advanced SAP computerized management system and 5S management system, and be qualified with API, CE, TS, BV, TUV, ISO certification.

The main products of the Newton contains bellow sealed valves, gate valve, globe valve, check valve, steam trap, strainers, and other valves for steam & thermal oil system. The material of the valves covers A105,WCB, Stainless Steel etc. The nominal diameter is from 1/2" to 24" (15mm~600mm) . The nominal pressure is from 1Mpa to 42Mpa (150LB~2500LB). Working temperature is between -196°C~600°C.

Newton keep every products in the guarantee period of 18 months after use, implement "three guarantees" quality solution. In quality service of products, we will reply within 24 hours and to make appropriate treatment advice after receiving your fax or Email.

Newton carry out technological innovation, managing innovation, and service innovation, to lead the market. Improvement of the sales network, and quality tracking service of product, earned the unanimous endorsement of customers. High aspirations, forge ahead ,Newton is willing to cooperate with friends all walks of life sincerely ,and seek common development, as well as quality ,fast and comprehensive service return to customers, working together to write a new chapter in the national industry !





VMV®

Zhejiang Newton Fluid Control Co.,ltd.

Team and technology research & development

We have set up the center development of New product and valve's laboratory. We have introduced international advanced research and testing equipment,such as test press, hardness, thickness, direct reading spectrometer, valve bending test bench, the international advanced low-temperature impact testing machine, tensile testing machine torque and life test equipment, etc.Every Newton's person is our carefully cultivated and selection. From basic research to each acquisition of patents, all verified that Newton is committed to achievement for Bellow valves experts ,and every step is on the path of robust.



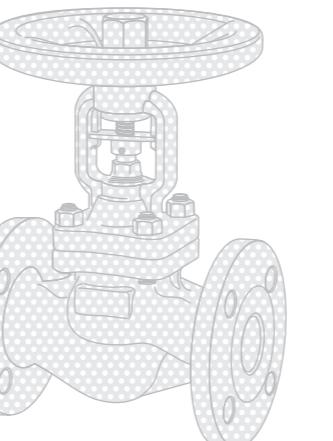
Lean Production

We possess the machinery processing equipment and 5S standardized management workshop, which is the International advanced processing center, CNC vertical lathe, CNC machine tools, Plasma welding, welding dust bellows .

Various types of professional and technical personnel accounting for more than 80%. We are demanding the pursuit of research and development in technology, processing technology, quality test, management innovation excellence. We will provide the most beneficial guarantee for business partners to enhance the core competitiveness.

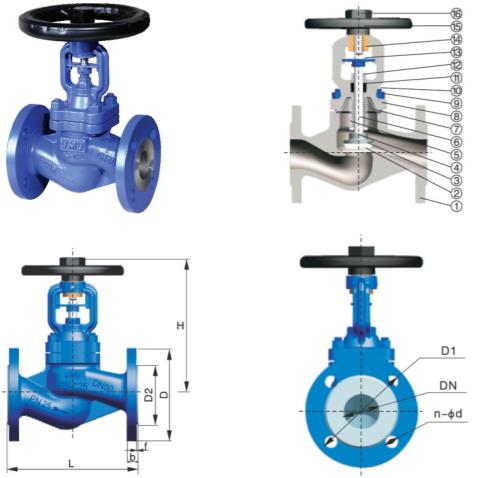


Zhejiang Newton Fluid Control Co.,Ltd.



- 001 Din standard bellow seal globe valve (PLUS)
- 002 Din standard bellows seal globe valve (EXTEND)
- 003 Din standard bellows seal globe valve (LONGER)
- 005 Din standard bellows seal globe valve (SUPER)
- 007 Din standard bellow seal globe valve (NRS)
- 008 Ansi standard bellow seal globe valve
- 009 Y type bellow seal globe valve
- 010 Angle type bellow seal globe valve
- 011 Forged steel bellow seal globe valve
- 012 Din standard globe valve
- 013 Longer forged steel bellow seal globe valve
- 015 Ansi standard bellow seal gate valve
- 017 Din standard bellow seal gate valve
- 018 Forged steel bellow seal gate valve
- 019 Din standard gate valve
- 020 Din standard y strainer
- 021 Din standard lift check valve
- 022 Din standard safety valve
- 023 Pilot operated pressure reducing valve
- 024 Lever ball float type steam trap
- 025 Inverted bucket type steam trap
- 026 Free float ball type steam trap
- 027 Thermodynamic steam trap
- 028 Steam -water separator
- 029 Din standard bellow seal globe check valve
- 030 Chlorine valve
- 031 Self sealing for high pressure bellows globe valve
- 033 Self sealing for high pressure bellows gate valve
- 035 Fully forged high temperature-pressure globe valve and gate valve
- 036 Control valves
- 037 Customized bellows valves
- 039 Product warranty

DIN STANDARD BELLOW SEAL GLOBE VALVE (PLUS)



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

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.

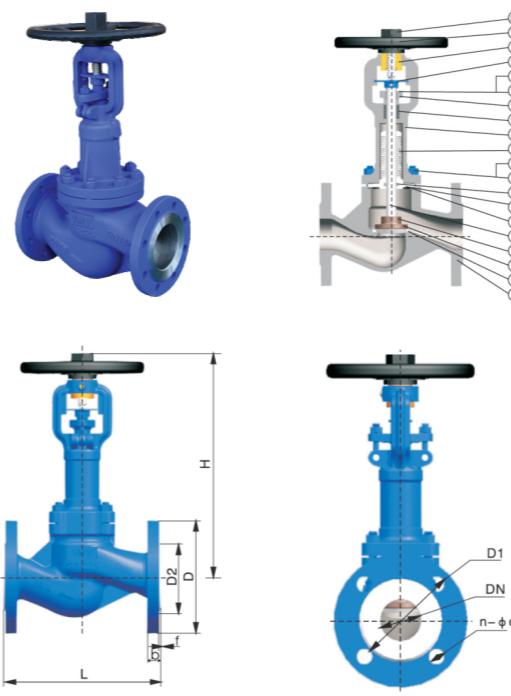
ADVANTAGE

- 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 tremble 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

DIN STANDARD BELLWS SEAL GLOBE VALVE (EXTEND)



ADVANTAGE

- 1.Extended bellow sealed globe valve is the latest patented product of our company. The key part mental 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	PN 16							Main connection size
	L	D	D1	D2	b	f	H	
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

DN	PN 25							Main connection size
	L	D	D1	D2	b	f	H	
15	130	95	65	45	16	2	249	4-Φ14
20	150	105	75	58	18	2	249	4-Φ14
25	160	115	85	68	16	2	266	4-Φ14
32	180	140	100	78	18	2	274	4-Φ18
40	200	150	110	88	18	3	315	4-Φ18
50	230	165	125	102	20	3	325	4-Φ18
65	290	185	145	122	20	3	411	8-Φ18
80	310	200	160	138	24	3	433	8-Φ18
100	350	235	190	162	24	3	541	8-Φ22
125	400	270	220	188	26	3	586	8-Φ26
150	480	300	250	218	28	3	625	8-Φ26
200	600	360	310	278	30	3	769	12-Φ26
250	730	425	370	335	32	3	1020	12-Φ30
300	850	485	430	395	34	4	1083	16-Φ30
350	980	555	490	450	38	4	1342	16-Φ33
400	1100	620	550	505	40	4	1535	16-Φ36

TECHNICAL SPECIFICATION

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

PERFORMANCE SPECIFICATION

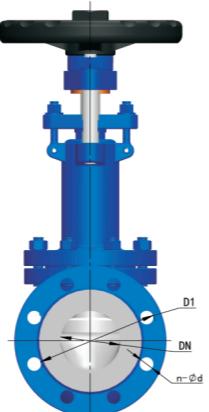
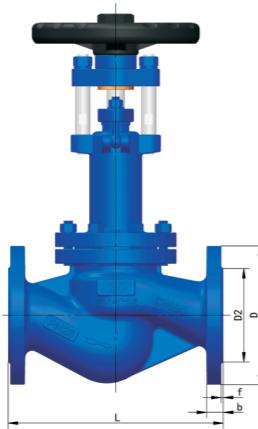
Nominal Pressure	PN	Mpa
Test Pressure	Strength test	1.5PN
	Sealing test	1.1PN
	Gas seal test	0.6
	Bellows test	1.1PN
	Suitable temp	-196°C~600°C

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	PN 40						
	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</td

DIN STANDARD BELLOWS SEAL GLOBE VALVE (LONGER)



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

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

ADVANTAGE

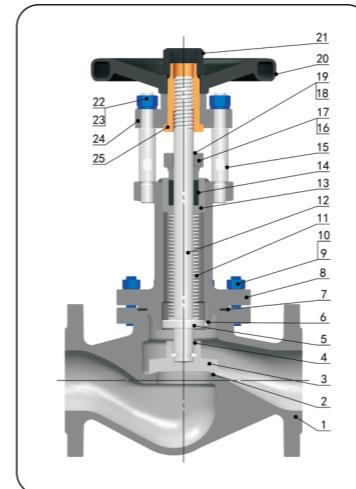
- Bold stem. The bold stem increases the wear resistance of the stem, good for steam system and the thermal oil system.
- Longer bellow. Multiple layer of fully welded stainless steel bellows, secure high torsion performance and 10,000 cycles service life;
- 3.360° free rotation disc. It allows the cleaning of impurities, and form sealing surfaces at different angle. It also does not transmit the vibrations to the stem.
- Hardened sealing surface. Disc made of chromium steel 1.4021/AISI 420, or with stellite 6. Seat with stainless steel 1.4370/AISI 307 or stellite 21.
- Back seat structure. In the fully open position, back seat will form a extra sealing, with stroke locate and anti-vibration function.
- 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	1.0619、1.4301、Stellite
3	Disc	1.0619、1.4021、1.4401+ Stellite
4	Disc Cap	1.0619、1.4021、1.4401
5	Bellows Protection unit	1.0619、1.4021、1.4401
6	Stop Pin	1.4021、1.4401
7	Gasket	Flexible graphite + stainless steel
8	Bonnet	1.0619+N、1.4401
9	Nut	ASTM 194-2H、A194-8
10	Bolt	ASTM 194-B7、A193-B8
11	Bellows	1.4301、1.4404、1.4571、HC
12	Stem	1.4021、1.4401
13	Stuffing Box	1.0619+N、1.4401
14	Packing	Flexible graphite
15	Strut	1.4201
16	Gland	1.0619、1.4301
17	Gland Sleeve	1.4201、1.4301
18	Jack Bolt	ASTM 194-B7、A193-B8
19	Jack Nut	ASTM 194-2H、A194-8
20	Handwheel	Carbon steel
21	Cap	ASTM 194-2H、A194-8
22	Strut Nut	ASTM 194-2H、A194-8
23	Spring gasket	CK60、1.4301
24	Stem nut holder	1.0619、1.4301
25	Stem nut	Copper alloy、1.4201



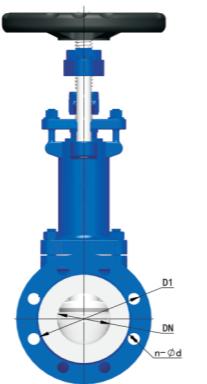
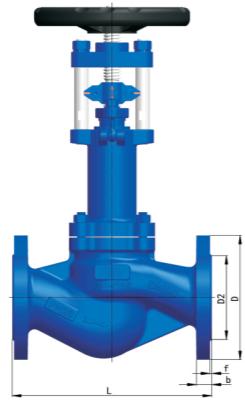
PERFORMANCE SPECIFICATION

Nominal Pressure	PN	Mpa
	Strength test	
Test Pressure	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	n-Φd
15	130	95	65	45	14	2	4-Φ14
20	150	105	75	58	16	2	4-Φ14
25	160	115	85	68	16	2	4-Φ14
32	180	140	100	78	18	2	4-Φ18
40	200	150	110	88	18	3	4-Φ18
50	230	165	125	102	20	3	4-Φ18
65	290	185	145	122	20	3	4-Φ18
80	310	200	160	138	20	3	8-Φ18
100	350	220	180	158	20	3	8-Φ18
125	400	250	210	188	22	3	8-Φ18
150	480	285	240	212	22	3	8-Φ22
200	600	340	295	268	24	3	12-Φ22
250	730	405	355	320	26	3	12-Φ26
300	850	460	410	378	28	4	12-Φ26
350	980	520	470	438	30	4	16-Φ26
400	1100	580	525	490	32	4	16-Φ30
PN 25							
15	130	95	65	45	14	2	4-Φ14
20	150	105	75	58	16	2	4-Φ14
25	160	115	85	68	16	2	4-Φ14
32	180	140	100	78	18	2	4-Φ18
40	200	150	110	88	18	3	4-Φ18
50	230	165	125	102	20	3	4-Φ18
65	290	185	145	122	22	3	8-Φ18
80	310	200	160	138	24	3	8-Φ18
100	350	235	190	162	24	3	8-Φ22
125	400	270	220	188	26	3	8-Φ26
150	480	300	250	218	28	3	8-Φ26
200	600	360	310	278	30	3	12-Φ26
250	730	425	370	335	32	3	12-Φ30
300	850	485	430	395	34	4	16-Φ30
350	980	555	490	450	38	4	16-Φ33
400	1100	620	550	505	40	4	16-Φ36
PN 40							
15	130	95	65	45	14	2	4-Φ14
20	150	105	75	58	16	2	4-Φ14
25	160	115	85	68	16	2	4-Φ14
32	180	140	100	78	18	2	4-Φ18
40	200	150	110	88	18	3	4-Φ18
50	230	165	125	102	20	3	4-Φ18
65	290	185	145	122	22	3	8-Φ18
80	310	200	160	138	24	3	8-Φ18
100	350	235	190	162	24	3	8-Φ22
125	400	270	220	188	26	3	8-Φ26
150	480	300	250	218	28	3	8-Φ26
200	600	375	320	285	34	3	12-Φ30
250	730	450	385	345	38	3	12-Φ33
300	850	515	450	410	42	4	16-Φ33
350	980	580	510	465	46	4	16-Φ36
400	1100	660	585	535	50	4	16-Φ39

DIN STANDARD BELLows SEAL GLOBE VALVE (SUPER)



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

Petroleum, chemical industry, pharmacy, fertilizer, power industry etc.

ADVANTAGE

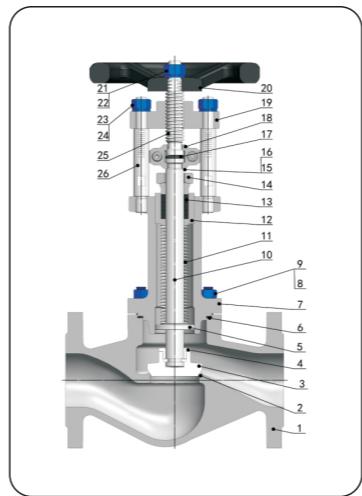
- Two-part Stem. It's combined with up-stem and down-stem, with wear resistance material and corrosion resistance material, meet the requirement of wear and corrosion resistance.
- Longer bellow. Multiple layer of fully welded stainless steel bellows, secure high torsion performance and 10,000 cycles service life;
- 3.360° free rotation disc. It allows the cleaning of impurities, and form sealing surfaces at different angle. It also does not transmit the vibrations to the stem.
- Hardened sealing surface. Disc made of chromium steel 1.4021/AISI 420, or with stellite 6. Seat with stainless steel 1.4370/AISI 307 or stellite 21.
- Back seat structure. In the fully open position, back seat will form a extra sealing, with stroke locate and anti-vibration function.
- 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.
- Different function disc design. According to different requirement, the disc can be designed with regulating disc, check-globe disc etc.

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	1.0619、1.4301、Stellite
3	Disc	1.0619、1.4021、1.4401+ Stellite
4	Cap	1.0619、1.4021、1.4401
5	Bellows Protection unit	1.0619、1.4021、1.4401
6	Gasket	Flexible graphite + stainless steel
7	Bonnet	1.0619+N、1.4401
8	Bolt	ASTM 194-B7、A193-B8
9	Nut	ASTM 194-2H、A194-8
10	Lower stem	1.4021、1.4401
11	Bellows	1.4301、1.4404、1.4571、HC
12	Stuffing Box	1.0619+N、1.4401
13	Packing	Flexible graphite
14	Gland	1.0619、1.4301
15	Jack Bolt	ASTM 194-B7、A193-B8
16	Jack Nut	ASTM 194-2H、A194-8
17	Friction plate	1.4201
18	Locator	1.0619、1.4301
19	Stem nut	1.0619、1.4301
20	Handwheel	Carbon steel
21	Nut	ASTM 194-2H、A194-8
22	Spring gasket	CK60、1.4301
23	Strut Nut	ASTM 194-2H、A194-8
24	Spring gasket	CK60、1.4301
25	Upper stem	1.4201
26	Strut	1.4201



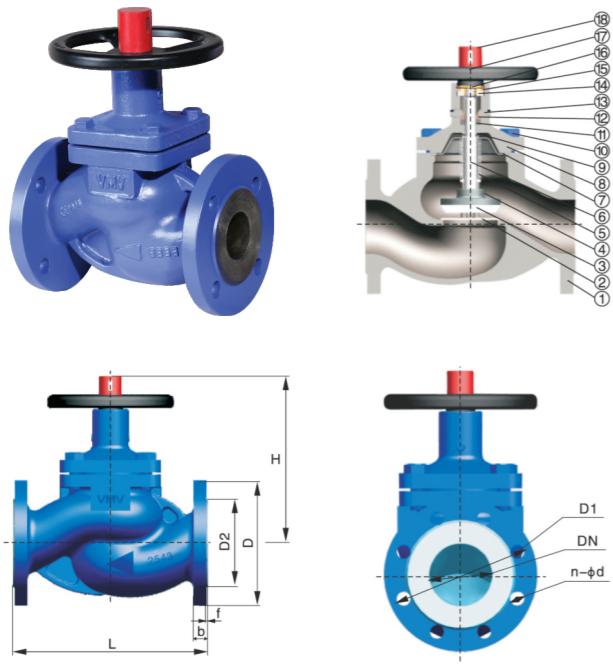
PERFORMANCE SPECIFICATION

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

MAIN CONNECTION SIZE

DN	PN 16							
	Main connection size							
	L	D	D1	D2	b	f	H	n-Φd
15	130	95	65	45	14	2	195	4-Φ14
20	150	105	75	58	16	2	195	4-Φ14
25	160	115	85	68	16	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								
15	130	95	65	45	14	2	195	4-Φ14
20	150	105	75	58	16	2	195	4-Φ14
25	160	115	85	68	16	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
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								
15	130	95	65	45	14	2	195	4-Φ14
20	150	105	75	58	16	2	195	4-Φ14
25	160	115	85	68	16	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
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

DIN STANDARD BELLOW SEAL GLOBE VALVE(NRS)



ADVANTAGE

- 1.Bellow seal element. The key part of bellow sealed globe valves is mental bellow. It is the connection between cover and stem with automatic roll welding. The mental bellow can keep the stem part no leakage.
- 2.Benefit from the con and streamline shape design, the disc has a reliable seal and longer service life.
- 3.Double seal design(bellows+packing). Bellow and packing can protect against leakage and provide a excellent seal.
- 4.Grease nipple. It can direct lubricate the stem, nut and sleeve.
- 5.Ergonomic hand wheel. It provide longer service life and easier operation.

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

PN 16								
DN	Main connection size							
	L	D	D1	D2	b	f	H	n-Φd
15	130	95	65	45	16	2	170	4-Φ14
20	150	105	75	58	18	2	175	4-Φ14
25	160	115	85	68	18	2	175	4-Φ14
32	180	140	100	78	18	2	180	4-Φ18
40	200	150	110	88	18	3	200	4-Φ18
50	230	165	125	102	20	3	220	4-Φ18
65	290	185	145	122	20	3	240	4-Φ18
80	310	200	160	138	20	3	260	8-Φ18
100	350	220	180	158	20	3	305	8-Φ18
125	400	250	210	188	22	3	320	8-Φ18
150	480	285	240	212	22	3	345	8-Φ22
200	600	340	295	268	24	3	450	12-Φ22
PN 25								
15	130	95	65	45	16	2	170	4-Φ14
20	150	105	75	58	18	2	175	4-Φ14
25	160	115	85	68	18	2	175	4-Φ14
32	180	140	100	78	18	2	180	4-Φ18
40	200	150	110	88	18	3	200	4-Φ18
50	230	165	125	102	20	3	220	4-Φ18
65	290	185	145	122	22	3	240	8-Φ18
80	310	200	160	138	24	3	260	8-Φ18
100	350	235	190	162	24	3	305	8-Φ22
125	400	270	220	188	26	3	320	8-Φ26
150	480	300	250	218	28	3	345	8-Φ26
200	600	360	310	278	30	3	450	12-Φ26
PN 40								
L15	130	95	65	45	16	2	170	4-Φ14
20	150	105	75	58	18	2	175	4-Φ14
25	160	115	85	68	18	2	175	4-Φ14
32	180	140	100	68	18	2	180	4-Φ18
40	180	150	110	78	18	3	200	4-Φ18
50	230	165	125	102	20	3	220	4-Φ18
65	290	185	145	122	22	3	240	8-Φ18
80	310	200	160	138	24	3	260	8-Φ18
100	350	235	190	162	24	3	305	8-Φ22
125	400	270	220	188	26	3	320	8-Φ26
150	480	300	250	218	28	3	345	8-Φ26
200	600	375	320	285	34	3	450	12-Φ26

TECHNICAL SPECIFICATION

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

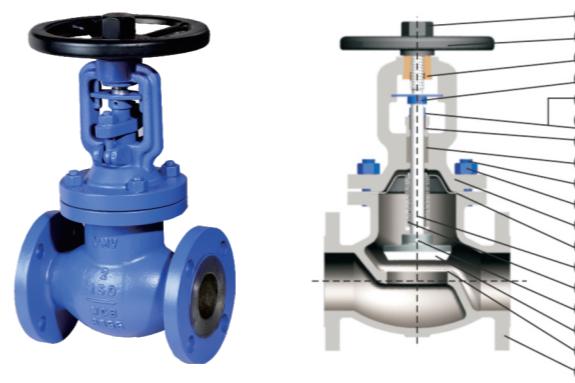
APPLICATION

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

PERFORMANCE SPECIFICATION

NO.	Part name	Material
1	Body	GS-C25, GGG-40, 1.4401
2	Seat	1.4301, Stellite
3	Disc	1.4021, 1.4301+Stellite
4	Pin	1.4301, 1.4401
5	Bellow assemble	1.4021, 1.4401
6	Stem	1.4021, 1.4301, 1.4401
7	Gasket	Flexible graphite + stainless steel
8	Cover	GS-C25, 1.4301, 1.4401
9	Back seal	1.4021, 1.4301
10	Headed bolt	ASTM 193-B7, A193-B8
11	Packing	Flexible graphite
12	Adjustment gland	1C25, 1.4301, 1.4401
13	Adjustment screw	34Crmo4, 1.4301, 1.4401
14	Stem nut	Cooper alloy, D2, BL2
15	Friction plate	1C45, 1.4301, 1.4401
16	Spring collar	1.4301
17	Hand wheel	Carbon steel
18	Cap	1C45

ANSI STANDARD BELLOW SEAL GLOBE VALVE

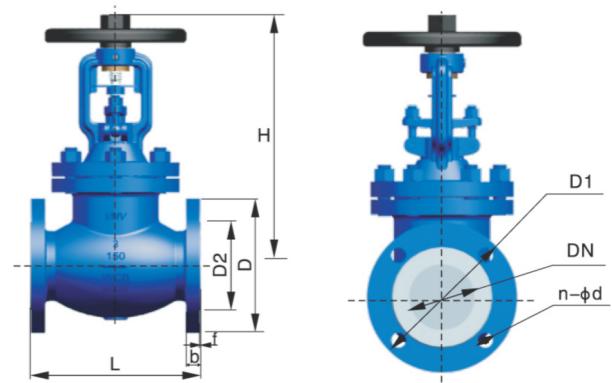


APPLICATION

Petroleum, chemical industry, pharmacy, fertilizer, power industry etc.

ADVANTAGE

- 1.Bellow seal element. The key part of bellow sealed globe valves is mental bellow. It is the connection between cover and stem with automatic roll welding. The mental bellow can keep the stem part no leakage.
- 2.Benefit from the con and streamline shape design, the disc has a reliable seal and longer service life.
- 3.Double seal design(bellows+packing). Bellow and packing can protect against leakage and provide a excellent seal.
- 4.Grease nipple. It can direct lubricate the stem, nut and sleeve.
- 5.Ergonomic hand wheel. It provide longer service life and easier operation.



TECHNICAL SPECIFICATION

Design standard: API 16.34
Face to face dimension: ANSI B 16.10
Flanged ends: ANSI B 16.5
Test & inspection: API 598

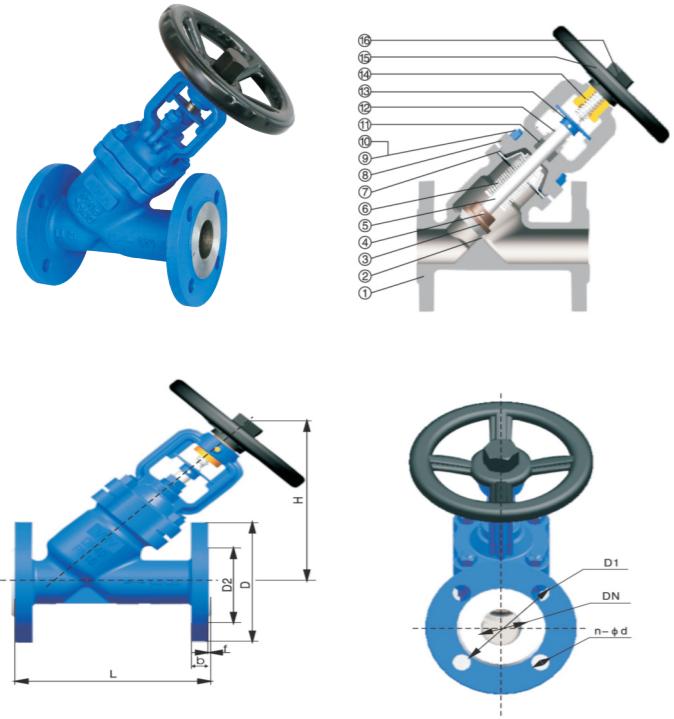
PERFORMANCE SPECIFICATION

Test Pressure	Nominal Pressure	PN	LB
	Strength test	1.5PN <th data-kind="ghost"></th>	
Gas seal test	0.6		
--	--	--	
Suitable temp		-196°C~600°C	

MAIN CONNECTION SIZE

DN	Main connection size					
	L	D	D1	D2	b	H
1/2"	108	90	60.5	35	10.7	215
3/4"	117	100	70	43	11.7	215
1"	127	110	79.5	51	12.7	220
1-1/4"	165	125	98.5	73	14	250
1-1/2"	203	150	120.5	92	16	260
2"	216	180	139.5	105	17.5	305
2-1/2"	241	190	152.4	127	19	325
3"	292	230	190.5	157	24	390
4"	406					

Y TYPE BELLOW SEAL GLOBE VALVE



ADVANTAGE

- 1.Bellow seal element. The key part of bellow sealed globe valves is mental bellow. It is the connection between cover and stem with automatic roll welding. The mental bellow can keep the stem part no leakage.
- 2.Benefit from the cone and streamline shape design, the disc has a reliable seal and longer service life.
- 3.Double seal design(bellows+packing). Bellow and packing can protect against leakage and provide a excellent seal.
- 4.Grease nipple. It can direct lubricate the stem, nut and sleeve.
- 5.Ergonomic hand wheel. It provide longer service life and easier operation.

APPLICATION

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

MAIN CONNECTION SIZE

DN	PN 16							
	Main connection size							
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

Nominal Pressure	PN 25							
	Main connection size							
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
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

Nominal Pressure	PN 40							
	Main connection size							
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
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

TECHNICAL SPECIFICATION

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

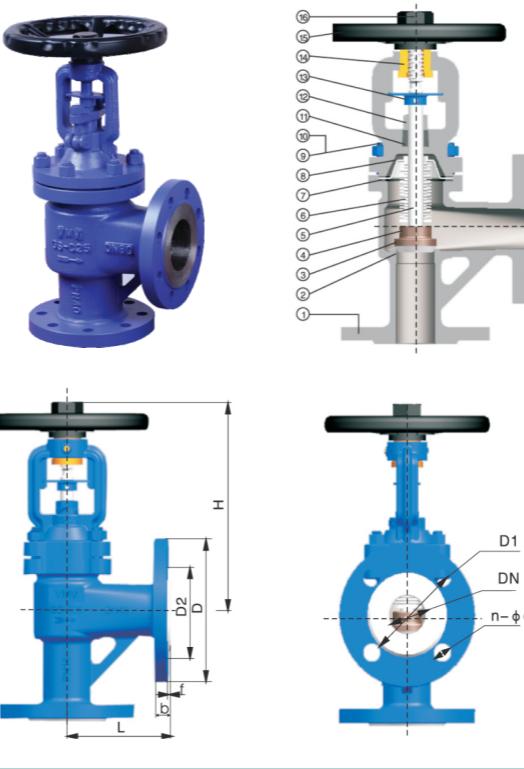
PERFORMANCE SPECIFICATION

Nominal Pressure	PN	Mpa	
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、GGG-40、1.4401
2	Seat	1.4301、Stellite
3	Disc	1.4021、1.4401
4	Pin	1.4301、1.4401
5	Stem	1.4201、1.4401
6	Bellows	1.4021、1.4401
7	Gasket	Stainless+Flexible graphite
8	Cover	GS-C25、GGG-40、1.4401
9	Hex nuts	ASTM 194-2H、A194-8
10	Stud	ASTM 193-B7、A194-B8
11	Packing	Flexible graphite
12	Platen	1C25、1.4401
13	Stem guide	1C25
14	Stem nut	Copper alloy、D2、BL2
15	Hand wheel	Carbon steel
16	Locknut	1C45

ANGLE TYPE BELLOW SEAL GLOBE VALVE



ADVANTAGE

- 1.Bellow seal element. The key part of bellow sealed globe valves is mental bellow. It is the connection between cover and stem with automatic roll welding. The mental bellow can keep the stem part no leakage.
- 2.Benefit from the cone and streamline shape design, the disc has a reliable seal and longer service life.
- 3.Double seal design(bellows+packing). Bellow and packing can protect against leakage and provide a excellent seal.
- 4.Grease nipple. It can direct lubricate the stem, nut and sleeve.
- 5.Ergonomic hand wheel. It provide longer service life and easier operation.

APPLICATION

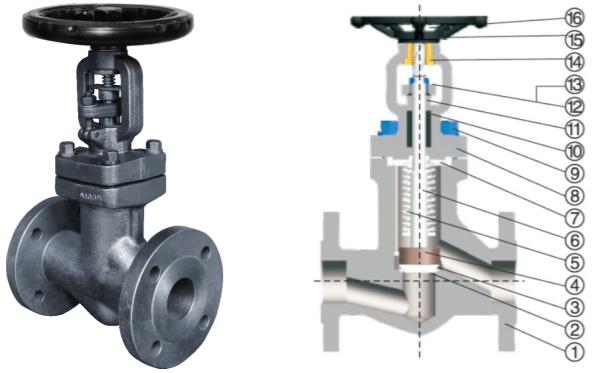
Hot oil system, steam system, hot and cold water system etc.

MAIN CONNECTION SIZE

DN	PN 16							
Main connection size								

<tbl_r cells="9" ix="5" max

FORGED STEEL BELLOW SEAL GLOBE VALVE



APPLICATION

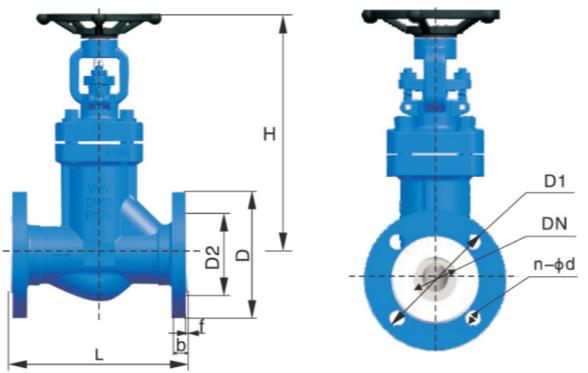
Petroleum, chemical industry, pharmacy, fertilizer, power industry etc.

ADVANTAGE

- 1.Bellow seal element. The key part of bellow sealed globe valves is mental bellow. It is the connection between cover and stem with automatic roll welding. The mental bellow can keep the stem part no leakage.
- 2.Benefit from the con and streamline shape design, the disc has a reliable seal and longer service life.
- 3.Double seal design(bellows+packing). Bellow and packing can protect against leakage and provide a excellent seal.
- 4.Grease nipple. It can direct lubricate the stem, nut and sleeve.
- 5.Ergonomic hand wheel. It provides longer service life and easier operation.

PERFORMANCE SPECIFICATION

NO.	Part name	Material
1	Body	A105N、F304、F316
2	Seat	304、Stellite
3	Disc	2Cr13、F304、F316
4	Pin	S.S304、S.S316
5	Bellow assemble	S.S304、S.S316L
6	Stem	2Cr13、F304、F316
7	Gasket	Flexible graphite + stainless steel
8	Cover	A105N、F304、F316
9	Headed bolt	ASTM 193-B7、A193-B8
10	Packing	Flexible graphite
11	Gland	A105N、F304、F316
12	Jack bolt	ASTM 193-B7、A193-B8
13	Nut	ASTM 194-2H、A194-8
14	Stem nut	Copper alloy、D2
15	Hand wheel	Carbon steel
16	Cap	45#



TECHNICAL SPECIFICATION

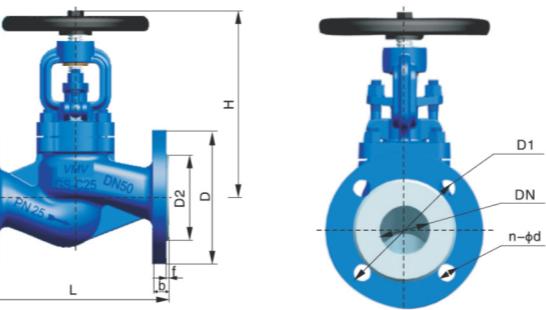
Design standard: DIN 3356
Face to face dimension: DIN 3202
Flanged ends: DIN 2543-2545
Test & inspection: DIN 3230

MAIN CONNECTION SIZE

PN 16								
DN	Main connection size							
	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	195	4-Φ14
32	180	140	100	78	18	2	215	4-Φ18
40	200	150	110	88	18	3	220	4-Φ18
50	230	165	125	102	20	3	225	4-Φ18
65	290	185	145	122	20	3	260	4-Φ18
80	310	200	160	138	20	3	275	8-Φ18
100	350	220	180	158	20	3	335	8-Φ18
125	400	250	210	188	22	3	390	8-Φ18
150	480	285	240	212	22	3	405	8-Φ22
200	600	340	295	268	24	3	520	12-Φ22
250	730	405	355	320	26	3	610	12-Φ26
300	850	460	410	378	28	4	660	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	Main connection size							
	L	D	D1	D2	b	f	H	n-Φd
15	130	95	65	45	16	2	181	4-Φ14
20	150	105	75	58	18	2	181	4-Φ14
25	160	115	85	68	18	2	195	4-Φ14
32	180	140	100	78	18	2	215	4-Φ18
40	200	150	110	88	18	3	220	4-Φ18
50	230	165	125	102	20	3	225	4-Φ18
65	290	185	145	122	22	3	260	8-Φ18
80	310	200	160	138	24	3	275	8-Φ18
100	350	235	190	162	24	3	335	8-Φ22
125	400	270	220	188	26	3	390	8-Φ26
150	480	300	250	218	28	3	405	8-Φ26
200	600	360	310	278	30	3	520	12-Φ26
250	730	425	370	335	32	3	610	12-Φ30
300	850	485	430	395	34	4	660	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	Main connection size							
	L	D	D1	D2	b	f	H	n-Φd
15	130	95	65	45	16	2	181	4-Φ14
20	150	105	75	58	18	2	181	4-Φ14
25	160	115	85	68	18	2	195	4-Φ14
32	180	140	100	78	18	2	215	4-Φ18
40	180	150	110	78	18	3	220	4-Φ18
50	230	165	125	102	20	3	225	4-Φ18
65	290	185	145	122	22	3	260	8-Φ18
80	310	200	160	138	24	3	275	8-Φ18
100	350	235	190	162	24	3	335	8-Φ22
125	400	270	220	188	26	3	390	8-Φ26
150	480	300	250	218	28	3	405	8-Φ26
200	600	375	320	285	34	3	520	12-Φ30
250	730	450	385	345	38	3	610	12-Φ33
300	850	515	450	410	42	4	660	16-Φ33
350	980	580	510	465	46	4	970	16-Φ36
400	1100	660	585	535	50	4	1055	16-Φ39



TECHNICAL SPECIFICATION

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

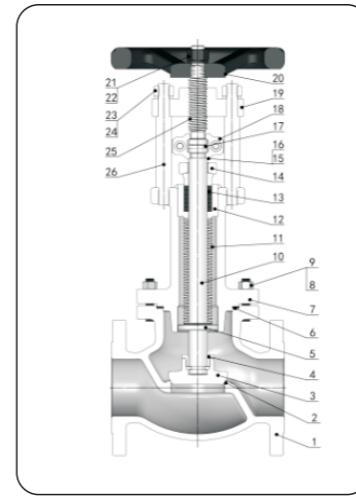
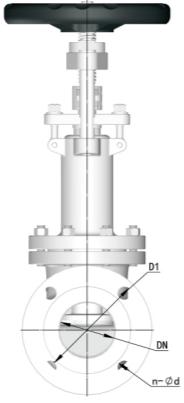
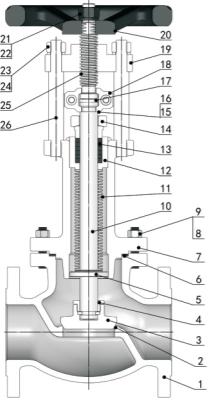
APPLICATION

Petroleum, chemical industry, pharmacy, fertilizer, power industry etc.

PERFORMANCE SPECIFICATION

NO.	Part name	Material
1	Body	GS-C25、1.4301、1.4401
2	Seat	1.4301、Stellite
3	Disc	1.4021、1.4301+ Stellite
4	Cap	1C45、1.4301、1.4401
5	Stem	1.4021、1.4301、1.4401
6	Metal gasket	Stainless steel
7	Back seal	1.4021、1.4301
8	Packing	Flexible graphite
9	Nut	ASTM 194-2H、A194-8
10	Double-headed bolt	ASTM 193-B7、A193-B8
11	Cover	GS-C25、1.4301
12		

LONGER FORGED STEEL BELLOW SEAL GLOBE VALVE



WHY BELLOWSE 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. Stem: 2-part rising stem with outside roll-formed thread; stem coupling with bellows anti-torque device.
2. Bellows: 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; body seat hard-surfaced with stainless steel 1.4370/AISI 307 or stellite 21.
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	Bellows	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

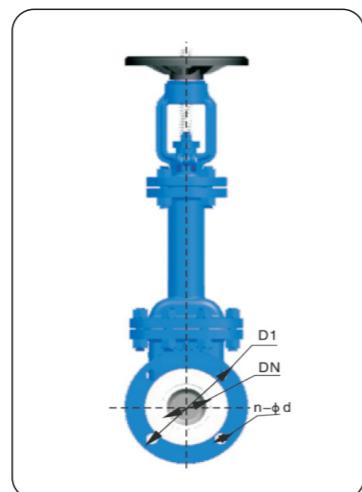
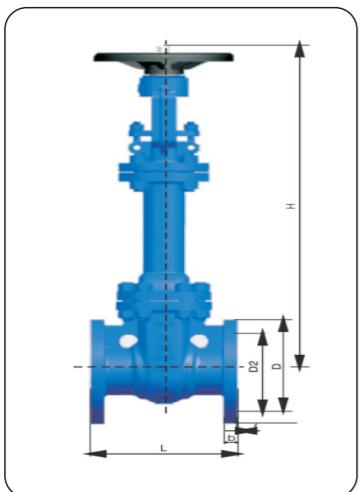
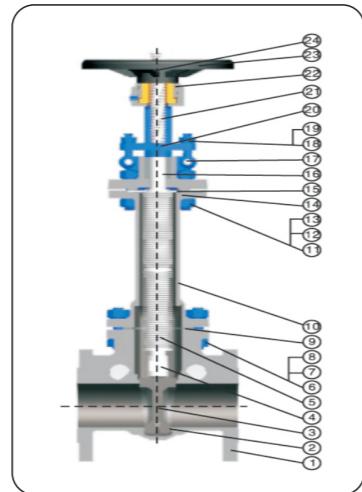
PERFORMANCE SPECIFICATION

Test Pressure	Nominal Pressure	PN	Mpa
	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	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-Φ19
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
300LB								
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
600LB								
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

ANSI STANDARD BELLOW SEAL GATE VALVE



APPLICATION

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

ADVANTAGE

- Bellow seal element. The key part of bellow sealed globe valves is mental bellow. It is the connection between cover and stem with automatic roll welding. The mental bellow can keep the stem part no leakage.
- Double seal design(bellows+packing). Bellow and packing can protect against leakage and provide a excellent seal.
- Grease nipple. It can direct lubricate the stem, nut and sleeve.
- Ergonomic hand wheel. It provides longer service life and easier operation.

TECHNICAL SPECIFICATION

Design standard: ASME B16.34
Face to face dimension: ASME B16.10
Flanged ends: ASME B16.5
Test & inspection: API 598

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	

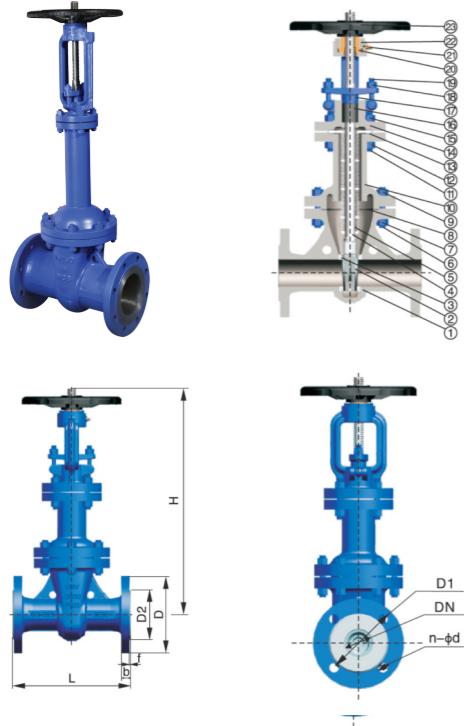
PERFORMANCE SPECIFICATION

NO.	Part name	Material
1	Body	WCB、CF8、CF8M
2	Seat	304、Stellite
3	Disc	WCB+13Cr、CF8、CF8M
4	Stem	13Cr、F304、F316
5	Bellows	S.S304、S.S316L
6	Screw nut	ASTM A194-2H、A194-8、A194-8M
7	Stud	ASTM A193-B7、A193-B8、A193-B8M
8	Nut	ASTM A194-2H、A194-8、A194-8M
9	Metal gasket	Stainless+ Flexible graphite
10	Yoke	WCB、CF8、CF8M
11	Nut	ASTM A194-2H、A194-8、A194-8M
12	Stud	ASTM A193-B7、A193-B8、A193-B8M
13	Nut	ASTM A194-2H、A194-8、A194-8M
14	Gasket	Stainless+ Flexible graphite
15	Seal bowl	S.S304、S.S316
16	Packing	Flexible graphite
17	Extremely heavy pin	1045、S.S304、S.S316
18	Extremely heavy bolt	ASTM A193-B7、A193-B8、A193-B8M
19	Extremely heavy nut	ASTM A194-2H、A194-8、A194-8M
20	Gland	WCB、CF8
21	Stem nut	Copper alloy、D2、BL-2
22	Bearing nut	1045、S.S304、S.S316
23	Hand wheel	60-40-18
24	Locknut	1045

MAIN CONNECTION SIZE

Material	DN	Main connection size						
		150 LB						
		L	D	D1	D2	b	f	n-Φd
A105	1/2"	108	90	60.5	35	10	2	4-Φ16
	3/4"	117	100	70	43	11	2	4-Φ16
	1"	127	110	79.5	51	12	2	4-Φ16
	1-1/4"	140	115	89	63.5	13	2	4-Φ16
	1-1/2"	165	125	98.5	73	15	2	4-Φ16
WCB	2"	178	150	120.5	92	16	2	4-Φ19
	2-1/2"	190	180	139.5	105	18	2	4-Φ19
	3"	203	190	152.5	127	20	2	4-Φ19
	4"	229	230	190.5	157	24	2	8-Φ19
	5"	254	255	216	186	24	2	8-Φ22
	6"	267	280	241.5	216	26	2	8-Φ22
	8"	292	345	298.5	270	29	2	8-Φ22
	10"	330	405	362	324	31	2	12-Φ25
	12"	356	485	432	381	32	2	12-Φ25
	14"	381	535	476	413	35	2	12-Φ29
	16"	406	595	540	470	37	2	16-Φ29
	18"	432	635	578	533	40	2	12-Φ32
	20"	457	700	625	584	43	2	20-Φ32
300 LB								
A105	1/2"	140	95	66.5	35	15	2	4-Φ16
	3/4"	152	115	82.5	43	16	2	4-Φ19
	1"	165	125	89	51	18	2	4-Φ19
	1-1/4"	178	135	98.5	63.5	20	2	4-Φ19
	1-1/2"	190	155	114.5	73	21	2	4-Φ22
WCB	2"	216	165	127	92	23	2	8-Φ19
	2-1/2"	241	190	149	105	26	2	8-Φ22
	3"	282	210	168.5	127	29	2	8-Φ22
	4"	305	255	200	157	32	2	8-Φ22
	6"	403	320	270	216	37	2	12-Φ22
	8"	502	380	330	270	42	2	12-Φ22
	10"	568	445	387	324	48	2	16-Φ29
	12"	648	520	451	381	51	2	16-Φ32
	14"	762	585	514.5	413	54	2	20-Φ32
	16"	838	650	571.5	470	58	2	20-Φ35
	18"	914	710	628.5	533	61	2	24-Φ35
	20"	991	775	686	584	64	2	24-Φ35

DIN STANDARD BELLOW SEAL GATE VALVE



ADVANTAGE

1. Bellow seal element. The key part of bellow sealed globe valves is mental bellow. It is the connection between cover and stem with automatic roll welding. The mental bellow can keep the stem part no leakage.
2. Double seal design(bellows+packing). Bellow and packing can protect against leakage and provide a excellent seal.
3. Grease nipple. It can direct lubricate the stem, nut and sleeve.
4. Ergonomic hand wheel. It provide longer service life and easier operation.

PERFORMANCE SPECIFICATION

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

MAIN CONNECTION SIZE

DN	Main connection size							n-Φd
	L	D	D1	D2	b	f	H	
40	240	150	110	88	18	3	473	4-Φ18
50	250	165	125	102	20	3	524	4-Φ18
65	270	185	145	122	20	3	567	8-Φ18
80	280	200	160	138	20	3	655	8-Φ18
100	300	220	180	158	20	3	833	8-Φ18
125	325	250	210	188	22	3	908	8-Φ18
150	350	285	240	212	22	3	1006	8-Φ22
200	400	340	295	268	24	3	1423	12-Φ22
250	450	405	355	320	26	3	1708	12-Φ26
300	500	460	410	378	28	4	2117	12-Φ26
350	550	520	470	438	30	4	2400	16-Φ26
400	600	580	525	490	32	4	2707	16-Φ30
450	650	640	585	548	34	4	2834.5	20-Φ30
500	700	715	650	610	36	4	3169	20-Φ33
600	800	840	770	725	40	5	4053	20-Φ36

PN 25								
DN	L	D	D1	D2	b	f	H	n-Φd
40	240	150	110	88	18	3	473	4-Φ18
50	250	165	125	102	20	3	524	4-Φ18
65	270	185	145	122	22	3	567	8-Φ18
80	280	200	160	138	24	3	655	8-Φ18
100	300	235	190	162	24	3	833	8-Φ22
125	325	270	220	188	26	3	908	8-Φ26
150	350	300	250	218	28	3	1006	8-Φ26
200	400	360	310	278	30	3	1423	12-Φ26
250	450	425	370	335	32	3	1708	12-Φ30
300	500	485	430	395	34	4	2117	12-Φ30
350	550	555	490	450	38	4	2400	16-Φ33
400	600	620	550	505	40	4	2707	16-Φ36
450	650	670	600	548	42	4	2834.5	20-Φ36
500	700	730	660	566	44	4	3169	20-Φ39
600	800	845	770	670	46	5	4053	20-Φ39

PN 40								
DN	L	D	D1	D2	b	f	H	n-Φd
40	240	150	110	88	18	3	473	4-Φ18
50	250	165	125	102	20	3	524	4-Φ18
65	270	185	145	122	22	3	567	8-Φ18
80	280	200	160	138	24	3	655	8-Φ18
100	300	235	190	162	24	3	833	8-Φ22
125	325	270	220	188	26	3	908	8-Φ26
150	350	300	250	218	28	3	1006	8-Φ26
200	400	375	320	285	34	3	1423	12-Φ30
250	450	450	385	345	38	3	1708	12-Φ33
300	500	515	450	410	42	4	2117	16-Φ33
350	550	580	510	465	46	4	2400	16-Φ36
400	600	660	585	535	50	4	2707	16-Φ39
450	650	685	610	560	50	4	2834.5	20-Φ39
500	700	755	670	615	52	4	3169	20-Φ42
600	800	890	795	735	60	5	4053	20-Φ48

TECHNICAL SPECIFICATION

Design standard: DIN 3352
Face to face dimension: DIN 3202
Flanged ends: DIN 2543-2545
Test & inspection: DIN 3230

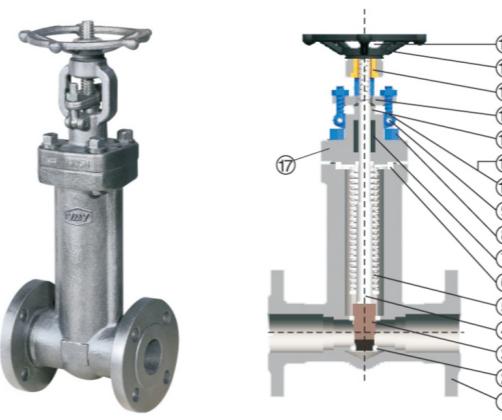
APPLICATION

Steam, thermal oil, rank poison and strong corrupt gas and liquid medium.

PERFORMANCE SPECIFICATION

NO.	Part name	Material
1	Body	GS-C25、1.4301、1.4401
2	Disc	GS-C25+1.4201/1.4301
3	Seat	1.4301、Stellite
4	Stem	1.4021、1.4301、1.4401
5	Bellows	1.4301、1.4401
6	Double-headed bolt	ASTM 193-B7、A193-B8
7	Nut	ASTM 194-2H、A194-8
8	Metal gasket	Asbestos+ Stainless steel
9	Nut	ASTM 194-2H、A194-8
10	Middle yoke	GS-C25、1.4301、1.4401
11	Double-headed bolt	ASTM 193-B7、A193-B8
12	Nut	ASTM 194-2H、A194-8
13	Gasket	Flexible graphite+ stainless steel
14	Cover	GS-C25、1.4301、1.4401
15	Nut	ASTM 194-2H、A194-8
16	Packing	Flexible graphite
17	Gland	GS-C25、1.4301
18	Nut	ASTM 194-2H、A194-8
19	Jack bolt	ASTM 193-B7、A193-B8
20	Stem nut	Copper alloy、D2、BL2
21	Oil cup	Assemble
22	Cap	1C45、1.4301、1.4401
23	Hand wheel	Carbon steel

FORGED STEEL BELLOW SEAL GATE VALVE



APPLICATION

Petroleum, chemical industry, pharmacy, fertilizer, power industry etc.

ADVANTAGE

1. Bellow seal element. The key part of bellow sealed globe valves is mental bellow. It is the connection between cover and stem with automatic roll welding. The mental bellow can keep the stem part no leakage.
2. Double seal design(bellows+packing). Bellow and packing can protect against leakage and provide a excellent seal.
3. Grease nipple. It can direct lubricate the stem, nut and sleeve.
4. Ergonomic hand wheel. It provide longer service life and easier operation.

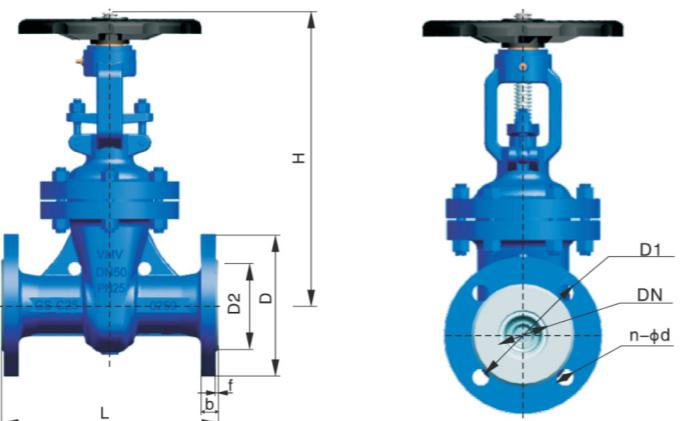
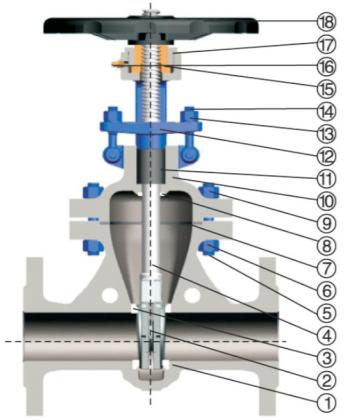
TECHNICAL SPECIFICATION

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

PERFORMANCE SPECIFICATION

NO

DIN STANDARD GATE VALVE



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	
	--	--	
Suitable temp		-196°C~600°C	

PERFORMANCE SPECIFICATION

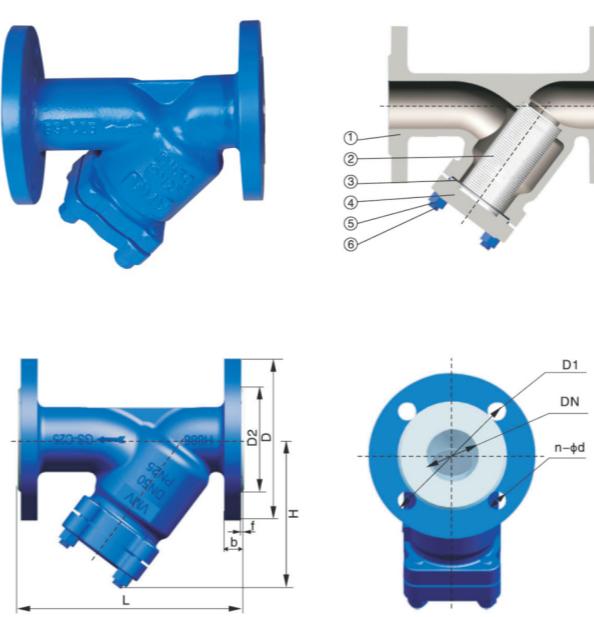
NO.	Part name	Material
1	Body	GS-C25、1.4301、1.4401
2	Disc	GS-C25+1.4201/1.4301
3	Seat	1.4301、Stellite
4	Stem	1.4021、1.4301、1.4401
5	Double-headed bolt	ASTM 193-B7、A193-B8
6	Nut	ASTM 194-2H、A194-8
7	Metal gasket	Stainless steel
8	Back seal	1.4021、1.4301
9	Nut	ASTM 194-2H、A194-8
10	Cover	GS-C25、1.4301、1.4401
11	Packing	Flexible graphite
12	Gland	GS-C25、1.4301
13	Nut	ASTM 194-2H、A194-8
14	Jack bolt	ASTM 193-B7、A193-B8
15	Stem nut	Copper alloy、D2、BL2
16	Oil cup	Assemble
17	Cap	1C45、1.4301、1.4401
18	Hand wheel	Carbon steel

MAIN CONNECTION SIZE

PN 16								
DN	Main connection size							
	L	D	D1	D2	b	f	H	n-Φd
40	240	150	110	88	18	3	305	4-Φ18
50	250	165	125	102	20	3	344	4-Φ18
65	270	185	145	122	20	3	377	4-Φ18
80	280	200	160	138	20	3	415	8-Φ18
100	300	220	180	158	20	3	473	8-Φ18
125	325	250	210	188	22	3	505	8-Φ18
150	350	285	240	212	22	3	550	8-Φ22
200	400	340	295	268	24	3	815	12-Φ22
250	450	405	355	320	26	3	969	12-Φ26
300	500	460	410	378	28	4	1145	12-Φ26
350	550	520	470	438	30	4	1300	16-Φ26
400	600	580	525	490	32	4	1450	16-Φ30
450	650	640	585	548	34	4	1597	20-Φ30
500	700	715	650	610	36	4	1755	20-Φ33
600	800	840	770	725	40	5	1985	20-Φ36

PN 25								
DN	Main connection size							
	L	D	D1	D2	b	f	H	n-Φd
40	240	150	110	88	18	3	305	4-Φ18
50	250	165	125	102	20	3	344	4-Φ18
65	270	185	145	122	22	3	377	8-Φ18
80	280	200	160	138	24	3	415	8-Φ18
100	300	235	180	162	24	3	473	8-Φ22
125	325	270	210	188	26	3	505	8-Φ26
150	350	300	240	218	28	3	550	8-Φ26
200	400	360	295	278	30	3	815	12-Φ26
250	450	425	355	335	32	3	969	12-Φ30
300	500	485	410	395	34	4	1145	16-Φ30
350	550	555	470	450	38	4	1300	16-Φ33
400	600	620	525	505	40	4	1450	16-Φ36
450	650	670	585	548	42	4	1597	20-Φ36
500	700	730	650	566	44	4	1755	20-Φ36
600	800	845	770	670	46	5	1985	20-Φ39

PN 40								
DN	Main connection size							
	L	D	D1	D2	b	f	H	n-Φd
40	240	150	110	88	18	3	305	4-Φ18
50	250	165	125	102	20	3	344	4-Φ18
65	270	185	145	122	22	3	377	8-Φ18
80	280	200	160	138	24	3	415	8-Φ18
100	300	235	180	162	24	3	473	8-Φ22
125	325	270	210	188	26	3	505	8-Φ26
150	350	300	240	218	28	3	550	8-Φ26
200	400	375	295	285	34	3	815	12-Φ30
250	450	450	355	345	38	3	969	12-Φ33
300	500	515	410	410	42	4	1145	16-Φ33
350	550	580	470	465	46	4	1300	16-Φ36
400	600	660	525	535	50	4	1450	16-Φ39
450	650	685	585	560	50	4	1597	20-Φ42
500	700	755	650	615	52	4	1755	20-Φ42
600	800	890	770	735	60	5	1985	20-Φ48



TECHNICAL SPECIFICATION

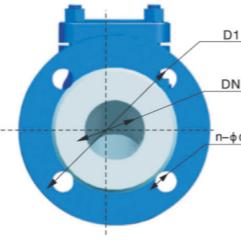
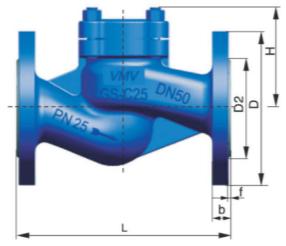
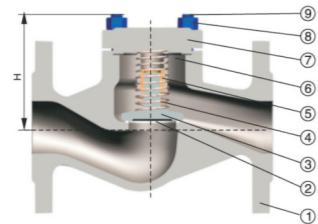
Design standard: DIN 3356
Face to face dimension: DIN 3202
Flanged ends: DIN 2543-2545
Test & inspection: DIN 3230

PERFORMANCE SPECIFICATION

NO.	Part name	Material
1	Body	GS-C25、GGG-40、1.4401
2	Filter net	1.4301、1.4401
3	Metal gasket	Stainless steel
4	Cover	GS-C25、1.4301、1.4401
5	Nut	ASTM 194-2H、A194-8
6	Double-headed bolt	ASTM 193-B7、A193-B8

PERFORMANCE SPECIFICATION

DIN STANDARD LIFT CHECK VALVE



ADVANTAGE

- 1.DIN lift check valve is self-sealing valve. The disc can be acted by the flow which can protect against the media flow back.
- 2.The disc with spring can keep the valve work in any direction.
- 3.Reasonable structure, reliable sealing, excellent performance and attractive appearance make a VMV valve.

TECHNICAL SPECIFICATION

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

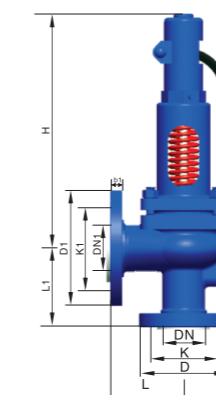
PERFORMANCE SPECIFICATION

NO.	Part name	Material
1	Body	GS-C25、1.4301、1.4401
2	Seat	1.4301、Stellite
3	Disc	1.4021、1.4301+Stellite
4	Spring	1.4301、1.4401
5	Copper guide sleeve	Copper alloy、D2、BL2
6	Metal gasket	Stainless steel
7	Cover	GS-25、1.4301、1.4401
8	Nut	ASTM 194-2H、A194-8
9	Double-headed bolt	ASTM 193-B7、A193-B8

PERFORMANCE SPECIFICATION

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

DIN STANDARD SAFETY VALVE



MAIN CONNECTION SIZE

MAIN CONNECTION SIZE

PN 16

DN	Main connection size						
	L	D	D1	D2	b	f	H
15	130	95	65	45	16	2	65
20	150	105	75	58	18	2	70
25	160	115	85	68	18	2	80
32	180	140	100	78	18	2	85
40	200	150	110	88	18	3	90
50	230	165	125	102	20	3	95
65	290	185	145	122	20	3	110
80	310	200	160	138	20	3	130
100	350	220	180	158	20	3	155
125	400	250	210	188	22	3	165
150	480	285	240	212	22	3	215
200	600	340	295	268	24	3	280
250	730	405	355	320	26	3	305
300	850	460	410	378	28	4	330
350	980	520	470	438	30	4	390
400	1100	580	525	490	32	4	470

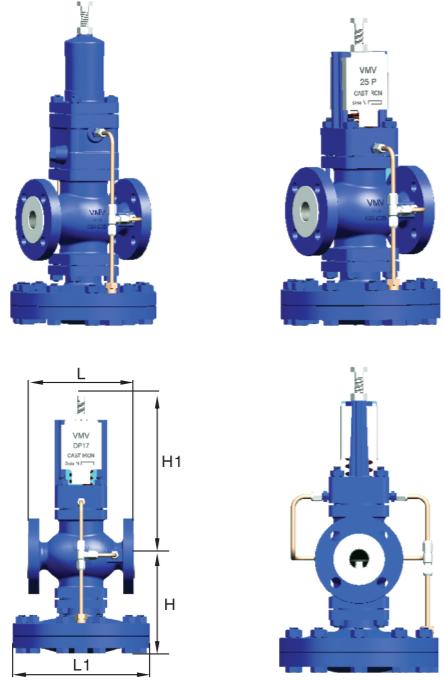
PN 25

15	130	95	65	45	16	2	65	4-Φ14
20	150	105	75	58	18	2	70	4-Φ14
25	160	115	85	68	18	2	80	4-Φ14
32	180	140	100	78	18	2	85	4-Φ18
40	200	150	110	88	18	3	90	4-Φ18
50	230	165	125	102	20	3	95	4-Φ18
65	290	185	145	122	22	3	110	8-Φ18
80	310	200	160	138	24	3	130	8-Φ18
100	350	235	190	162	24	3	155	8-Φ22
125	400	270	220	188	26	3	165	8-Φ26
150	480	300	250	218	28	3	215	8-Φ26
200	600	360	310	278	30	3	280	12-Φ26
250	730	425	370	335	32	3	305	12-Φ30
300	850	485	430	395	34	4	330	16-Φ30
350	980	555	490	450	38	4	390	16-Φ33
400	1100	620	550	505	40	4	470	16-Φ36

PN 40

L 15	130	95	65	45	16	2	65	4-Φ14
20	150	105	75	58	18	2	70	4-Φ14
25	160	115	85	68	18	2	80	4-Φ14
32	180	140	100	68	18	2	85	4-Φ18
40	180	150	110	78	18	3	90	4-Φ18
50	230	165	125	102	20	3	95	4-Φ18
65	290	185	145	122	22	3	110	8-Φ18
80	310	200	160	138	24	3	130	8-Φ18
100	350	235	190	162	24	3	155	8-Φ22
125	400	270	220	188	26	3	165	8-Φ26
150	480	300	250	218	28	3	215	8-Φ26
200	600	375	320	285	34	3	280	12-Φ30
250	730	450	385	345	38	3	305	12-Φ33
300	850	515	450	410	42	4	330	16-Φ33
350	980	580	510	465	46	4	390	16-Φ36
400	1100	660	585	535	50	4	470	16-Φ39

PILOT OPERATED PRESSURE REDUCING VALVE



ADVANTAGE

- Especially suitable for steam and water .
- Max inlet pressure: 16 bar ,25 bar.
- Outlet pressure (Springs pressure setting range)
 - Yellow: 0.2 to 3bar ;Blue: 2.5 to 7bar; Red : 6 to 12bar.
- Diameter : 15-200mm.
- Media temperature: 0-285°C.
- Max rate inlet pressure /outlet pressure: 20: 1.
- DIN,ANSI,GB

PRODUCT INTRODUCTION

This reducing valve is latest type pilot pressure reducing valve with menbrane. It is the modified from of normal pressure reducing valve .

The menbrane of new material enlarging the working area , so the higher pressure can be fed back to the membrane, and adjust the main valve to maintain the constant pressure of lower pressure stream .

MAIN CONNECTION SIZE

PN16										
DN	Main connection size									
	L	H1	H	L1	D	D1	D2	b	f	n-¢ d
DN15	147	235	145	185	95	65	45	16	2	4-¢ 14
DN20	154	235	145	185	105	75	58	18	2	4-¢ 14
DN25	160	235	145	207	115	85	68	18	2	4-¢ 14
DN32	180	235	145	207	140	100	78	18	2	4-¢ 18
DN40	200	240	180	255	150	110	88	18	3	4-¢ 18
DN50	230	240	183	255	165	125	102	20	3	4-¢ 18
DN65	250	295	200	320	185	145	122	20	3	4-¢ 18
DN80	310	232	230	350	200	160	138	20	3	8-¢ 18
DN100	350	320	240	380	220	180	158	20	3	8-¢ 18
DN125	400	252	315	430	250	210	188	22	3	8-¢ 18
DN150	450	364	334	455	285	240	212	22	3	8-¢ 22
DN200	500	384	354	510	340	295	268	24	3	12-¢ 22
PN25										
DN	Main connection size									
	L	H1	H	L1	D	D1	D2	b	f	n-¢ d
DN15	147	235	145	185	95	65	45	16	2	4-¢ 14
DN20	154	235	145	185	105	75	58	18	2	4-¢ 14
DN25	160	235	145	207	115	85	68	18	2	4-¢ 14
DN32	180	235	145	207	140	100	78	18	2	4-¢ 18
DN40	200	240	180	255	150	110	88	18	3	4-¢ 18
DN50	230	240	183	255	165	125	102	20	3	4-¢ 18
DN65	250	295	200	320	185	145	122	22	3	8-¢ 18
DN80	310	232	230	350	200	160	138	24	3	8-¢ 18
DN100	350	320	240	380	220	190	162	24	3	8-¢ 22
DN125	400	252	315	430	250	220	188	26	3	8-¢ 26
DN150	450	364	334	455	285	250	218	28	3	8-¢ 26
DN200	500	384	354	510	340	310	278	30	3	12-¢ 26

LEVER BALL FLOAT TYPE STEAM TRAP



FT14



FT44

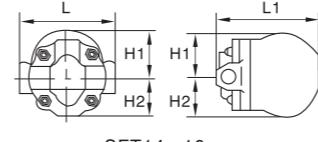
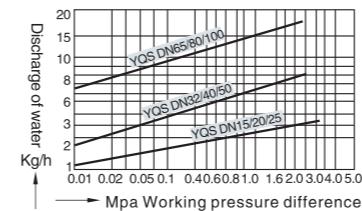
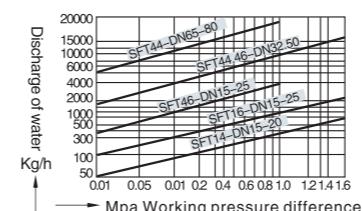


YQS43(BR)

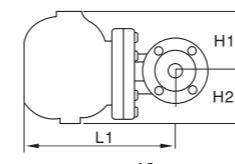
PRODUCT INTRODUCTION

Extensively applied in petroleum, metallurgy,chemical industry,paper,foods and steam equipments ,driers and large heat exchangers,especially for working places with large amount of condensed water to be discharged.

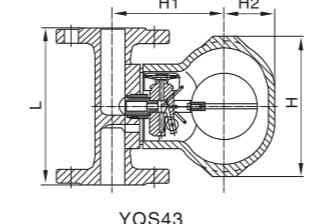
Displacement diagram



SFT14-16



SFT44



YQS43

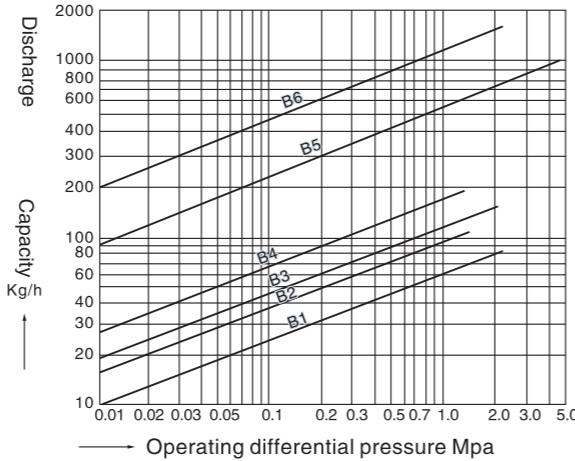
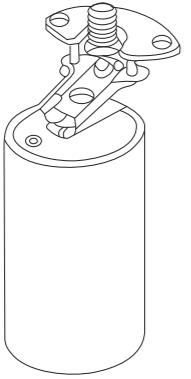
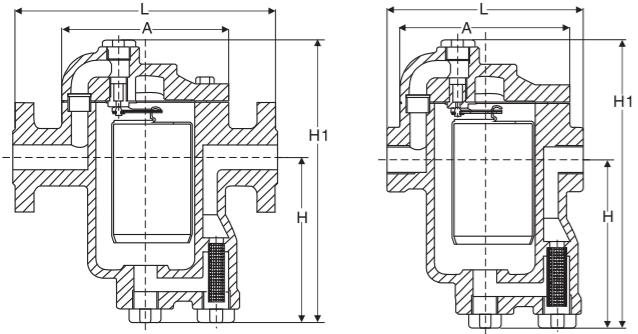
MAIN PART MATERIALS

Parts name	Materials
Body,bonnet	HT200、WCB
Float ball	Stainless Steel
Seat	Stainless Steel
Internal filters	Stainless Steel
Thermal element	Kazak alloy
Gasket	The stainless steel metaltwines the pad

MAIN CONNECTION SIZE

Model	Nominal diameter DN	Connection	Pressure range Mpa	Max allowable Temp(°C)	External dimensions(mm)						
					L	L1	H1	H2	W		
SFT14-16C	15~20	Thread	0.01~1.6	350	121	150	55	55	107		
	25				130	157	55	55	107		
	15~20	Flange			170	150	55	55	107		
	25				190	157	55	55	107		
SFT16-16C SFT44-16C (SFT43) (SFT46)	15~20	Flange			190	220	120	80	140		
	25				150	225	85	115	110		
	32~50				160	230	355	175	110		
	65~100				350	478	253	155	267		
YQS13H (BR634)	15	Thread	0.01~2.5	350	95	114	52	143			
	20										

INVERTED BUCKET TYPE STEAM TRAP



PRODUCT INTRODUCTION

Applied industries of petroleum, textile, foods, paper making, chemical and steam pipeline .

ADVANTAGE

- 1.Simple structure with no gemel structure and fixed abrasive . Excellent ability of energy saving.
- 2.Valve base is made of chrome alloy and has a long service life .
- 3.The waste will be constantly washed away .
- 4.Maintenance is facilitative.

MAIN PARTS MATERIALS

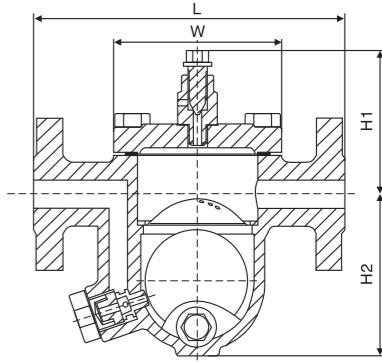
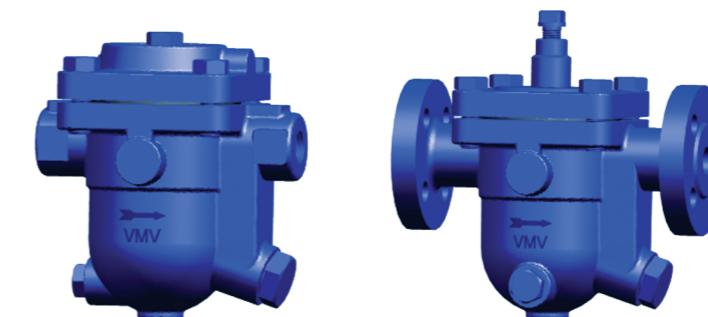
Model	B1	B2	B3	B4F
Body/Cap	Cast iron、Cast steel、Stainless steel			
Seat/Core	Hardened Chrome steel			
Other internal parts	Stainless steel			

MAIN CONNECTION SIZE

Model	Size	L(mm)	H	H1	A	Weight (kg)	max. pressure
B1	1/2",3/4" 1"	128	100	175	96	21	18bar
B2	3/4",1"	166	133	228	144	3.5	18bar
B3	1"	198	173	296	178	7.2	18bar
B4	1-1/4" 1-1/2"	232	185	347	203	13.5	18bar

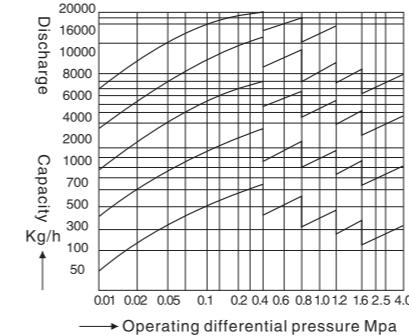
Model	Size	L(mm)	H	H1	A	Weight (kg)	max. pressure
B1F	1/2",3/4" 1"	170	100	175	96	4.8,5,6	18bar
B2F	3/4",1"	210	133	228	144	9,10	18bar
B3F	1"	240	173	296	178	15	18bar
B4F	1-1/4" 1-1/2"	280	185	347	203	24,25	18bar
B5F	1-1/2",2"	300	223	388	230	31,33,5	18bar
B6F	2"	350	260	446	273	45.5	18bar

FREE FLOAT BALL TYPE STEAM TRAP



PRODUCT INTRODUCTION

Free float trap is one of the most advanced traps since its of timely discharge of the condensed water in the pipelines and heating equipment. This trap has an extensive application in petroleum ,chemical industry,light textile,printing,pharmacy,paper making ,foods and mines.



ADVANTAGE

- 1.Stable discharge of water with large amount ,small rate of steam leakage,high rate of black pressure.
- 2.The main part hollow free-ball of steel is finely ground in the trap.
- 3.The structure of stainless steel provide the ability of anti-corruption and longer service life .

MAIN PARTS MATERIALS

Body,bonnet	Cast iron、Cast steel、Stainless steel
Float Ball	Stainless steel
Seat	Chromium Stainless Steel
Internal Filters	Stainless Steel
Gasket	The Stainless Steel Metal Twine the pad

MAIN CONNECTION SIZE

Model	Nominal diameter DN	Connection	Pressure range Mpa	Max allowable Temp(°C)	External dimensions(mm)				Re.weight (kg)	
					L	L1	H2	W		
CS61H-16C-B CS11H-16C-D	15-25	Thread Socket Weld	0.01-1.6	300 300	150	170	85	100	128	100
	32-50				230		100	165	185	14
CS41H-16C-B CS41H-25C-B CS41H-40C-B	15-20	25	0.01-4.0	300 350 425	195	210	100	115	135	10
	15-20	25			210	230	100	120	135	11
	15-20	25			250	100	100	130	135	12.5
CS41H-16C-D CS11H-25C-D CS41H-40C-D	20-32	Flange	0.01-4.0 0.01-4.0	300 350 425	270	10	165	175	16.5	
	40 50				270	290	105	165	175	18.5
	20-50				350	125	190	200	200	27
S41H-16C-F CS41H-25-F CS41H-40-F	50-65 80	Flange	0.01-4.0	300 350 425	410	430	130	250	270	52
	50=65 80-100				430	130	260	270	270	67
	50-65 80-100				430	130	260	270	270	39
CS41H-16C-G CS41-25-G CS41H-40-G	80-100	Flange	0.01-4.0	300 350 425	550	150	310	285	285	85
	80-100				570	190	340	315	315	108
	80-150				570	190	340	315	315	116
CS41H-16C-GG	150-200	Flange	0.01-1.6	350	575	210	360	330	143	

THERMODYNAMIC STEAM TRAP



TD16、TD42



TD52



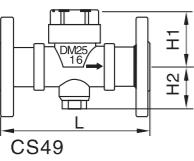
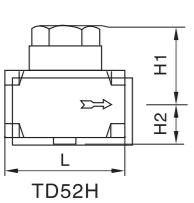
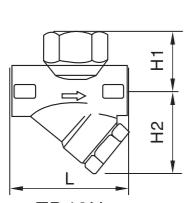
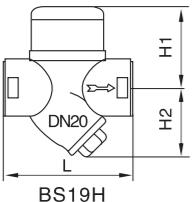
CS49

PRODUCT INTRODUCTION

This trap is designed according to the principle of dynamics. When the condensed water and steam on viscosity and density will drive the switching part .This trap has an extensive application in pipelines of steam ,heat accompanying pipelines and small steam equipments.

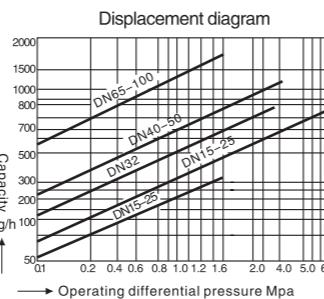
MAIN PARTS MATERIALS

Parts name	Materials
Body,bonnet	Carbon steel (A105),Stainless Steel
Seat Valve plate	Stainless Steel



ADVANTAGE

- 1.This trap is featured with solid structure ,light weight,small volume and different pressure without any adjustment.
- 2.Gas discharging equipment for rapidly discharging provide the ability of fast start.
- 3.Excellent ability to keep the steam from freezing



MAIN CONNECTION SIZE

Model	Nominal diameter DN	Pressure range Mpa	Max allowable	External dimensions(mm)					
				Thread,SW		Flange			
				L	H1	H2	L1	H1	H2
BCS19H BCS69H BCS49H	15-20	0.01~1.6 2.5、4.0	425	90	55	48	150	55	50
	25			90	55	48	160	55	50
	32			120	68	78	230	68	78
	40			120	70	78	230	75	83
	50			140	80	83	230	80	83
	65					250	90	95	
	80					280	140	145	
	100					310	150	165	
CS19H CS69H CS49H (TD16, 32, 42)	15	0.01~1.6 3.2、4.2	425	80	47	54	150	47	54
	20			90	52	59	150	52	59
	25			95	59	62	160	59	62
	32			105	70.5	89.5	210	70.5	89.5
	40			110	70.5	89.5	230	70.5	89.5
	50			120	71	104	230	71	104
	65					270	107	87	
16C CS49H-25C 40C	80	0.01~4.0	350			280	115	94	
	100					320	120	104	

STEAM-WATER SEPARATOR

CF41-S2
S2
S3
S4

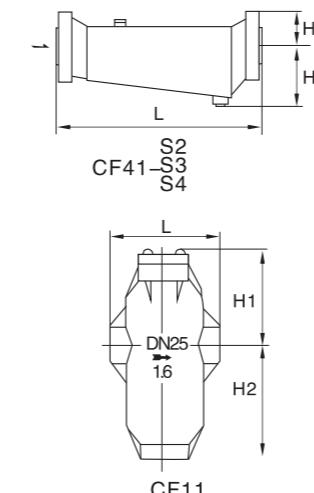
CF11-S1



AS-S7

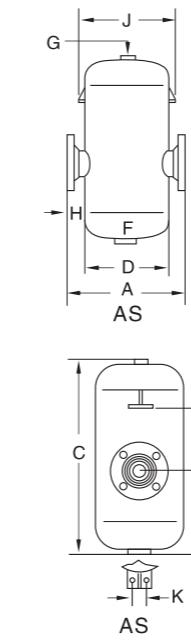
ADVANTAGE

- 1.Improve the dryness of the steam to improve the heating efficiency of the equipment and reduce the impact to the pipelines.
- 2.Prevent water beating . The condensed water will be discharged from the trap below the separator.



MAIN CONNECTION SIZE

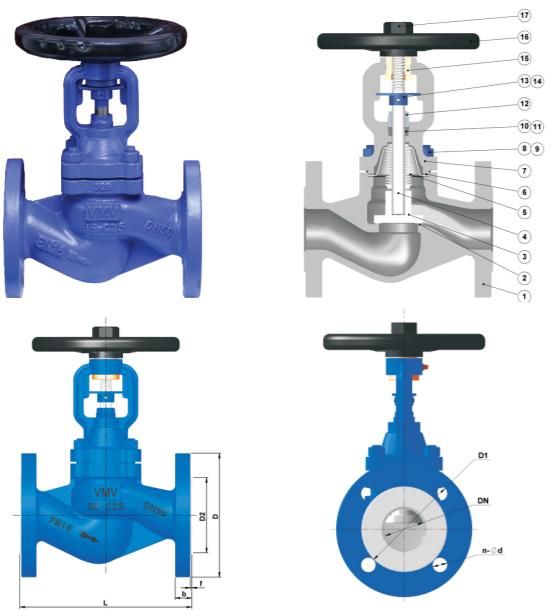
Model	Nominal diameter DN	Connection	Pressure range Mpa	Max allowable Temp(°C)	External dimensions(mm)			
					L	H1	H2	D
Cf11	15~20	Thread	0.01~2.5	350	130	115	156	Thread
	25				150	155	222	
CF41	20~32	Flange	0.01~2.5	350	320	65	100	Thread
CF41	40~50 65	Flange	0.01~2.5	350	460 490	80 90	260 275	Thread
CF41	80~100	Flange	0.01~2.5	350	510	110	190	Thread
Cf41	125~150	Flange	0.01~2.5	350	590	145	200	Thread



MAIN CONNECTION SIZE

Size	Design pressure (Mpa)	External dimensions(mm)										Weight (kg)	Volume (L)
		A	B	C	D	E	F	G	H	J	K		
DN65	1.6	420	250	640	219	160	1"	3/4"	100	265	30	46.5	18
	2.5	420	250	640	219	160	1"	3/4"	100	265	30	49	18
DN80	1.6	525	330	735	273	145	2"	3/4"	125	370	30	80	33
	2.5	525	330	735	273	145	2"	3/4"	125	370	30	88	33
DN100	1.6	575	335	795	324	165	2"	3/4"	125	385	40	98	50
	2.5	575	335	795	324	165	2"	3/4"	125	385	40	106	50
DN125	1.6	656	312	845	356	230	2"	3/4"	150	415	44	115	67
	3.0	656	312	845	356	230	2"	3/4"	150	415	44	134	67
DN150	1.6	706	345	935	406	245	2"	3/4"	150	465	60	154	96
	3.0	706	345	935	406	245	2"	3/4"	150	465	60	172	96
DN200	0.6	850	465	1200	500	375	2"	2"	175	560	60	275	185
	1.6	850	465	1200	500	375	2"	2"	175	560	60	280	185
DN250	0.6	858	460	1200	508	375	2"	2"	175	565	60	280	230
	1.6	950	615	1580	600	532	2"	2"	175	685	72	475	335
DN300	0.6	1000	740	1700	600	542	2"	2"	200	685	72	500	330
	1.6	1000	740	1700	600	542	2"	2"	200	685	72	500	330
DN350	3.0	1010	740	1700	610	542	2"	2"	200	685	72	500	330
	0.6/1.6/3.0	1100	755	1800	700	526	2"	2"	200	815	108	550	535

DIN STANDARD BELLOW SEAL GLOBE CHECK VALVE



APPLICATION

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

PRODUCT ADVANTAGE

- The Bellow sealed globe check valve is a valve with two function ,which is globe and check valve. Connecting this valve's stem and disc is designed to open structure . The stem can withstand the movement of the valve disc when it close valve, which can combine the disc sealing and seat sealing surface to achieve the close status. In the meanwhile, the valve can break off the media in pipeline .when opening the valve, stem and disc is disengaged. It plays the role of a check valve to prevent the media back flow.
- This valve has a dual function ,it can cost savings and higher security.
- Especially suitable for the installation location restrictions for special occasions.

PERFORMANCE SPECIFICATION

NO.	Part name	Material
1	Body	GS-C25、GGG-40G、1.4401
2	Seat	1.4301、Stellite
3	Disc	1.4021、1.4401+Stellite
4	Stem	1.4021、1.4401
5	Bellows	1.4301、1.4401
6	Gasket	Flexible Graphite+stainless steel
7	Bonnet	GS-C25、GGG-40G、1.4401
8	Bolt	A193-B7、A193-B8
9	Nut	A194-2H、A194-8
10	Packing	Flexible graphite
11	Packing Gasket	1.4021、1.4401
12	Gland	1C45、1.4401
13	Locator	1C25
14	Pin	1C35
15	Stem nut	Alloy steel、Copper alloy
16	Handwheel	Carbon steel
17	Cap	1C35

TECHNICAL SPECIFICATION

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

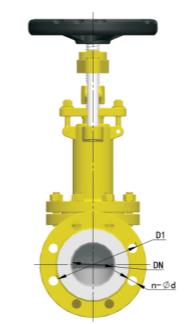
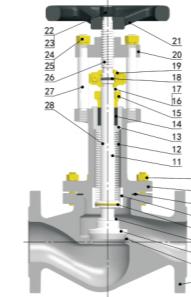
PERFORMANCE SPECIFICATION

Test Pressure	Nominal Pressure	PN	Mpa
	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						Mpa
	L	D	D1	D2	b	f	
15	130	95	65	45	14	2	4-Φ14
20	150	105	75	58	16	2	4-Φ14
25	160	115	85	68	16	2	4-Φ14
32	180	140	100	78	18	2	4-Φ18
40	200	150	110	88	18	3	4-Φ18
50	230	165	125	102	20	3	4-Φ18
65	290	185	145	122	20	3	4-Φ18
80	310	200	160	138	20	3	8-Φ18
100	350	220	180	158	20	3	8-Φ18
125	400	250	210	188	22	3	8-Φ18
150	480	285	240	212	22	3	8-Φ22
200	600	340	295	268	24	3	12-Φ22
250	730	405	355	320	26	3	12-Φ26
300	850	460	410	378	28	4	12-Φ26
350	980	520	470	438	30	4	16-Φ26
400	1100	580	525	490	32	4	16-Φ30
PN 25							
15	130	95	65	45	14	2	4-Φ14
20	150	105	75	58	16	2	4-Φ14
25	160	115	85	68	16	2	4-Φ14
32	180	140	100	78	18	2	4-Φ18
40	200	150	110	88	18	3	4-Φ18
50	230	165	125	102	20	3	4-Φ18
65	290	185	145	122	20	3	8-Φ18
80	310	200	160	138	24	3	8-Φ18
100	350	235	190	162	24	3	8-Φ22
125	400	270	220	188	26	3	8-Φ26
150	480	300	250	218	28	3	8-Φ26
200	600	360	310	278	30	3	12-Φ26
250	730	425	370	335	32	3	12-Φ30
300	850	485	430	395	34	4	16-Φ30
350	980	555	490	450	38	4	16-Φ33
400	1100	620	550	505	40	4	16-Φ36
PN 40							
15	130	95	65	45	14	2	4-Φ14
20	150	105	75	58	16	2	4-Φ14
25	160	115	85	68	16	2	4-Φ14
32	180	140	100	78	18	2	4-Φ18
40	200	150	110	88	18	3	4-Φ18
50	230	165	125	102	20	3	4-Φ18
65	290	185	145	122	22	3	8-Φ18
80	310	200	160	138	24	3	8-Φ18
100	350	235	190	162	24	3	8-Φ22
125	400	270	220	188	26	3	8-Φ26
150	480	300	250	218	28	3	8-Φ26
200	600	360	310	278	30	3	12-Φ26
250	730	425	370	335	32	3	12-Φ30
300	850	485	430	395	34	4	16-Φ30
350	980	555	490	450	38	4	16-Φ33
400	1100	620	550	505	40	4	16-Φ36



ADVANTAGE

- With corrosion resistant steel casting body, it can be applied in transportation of chlorine ,liquid chlorine .It has a good performance in corrosion resistance .
- The up sealing with multilayer PTFE design can ensure the packing with no leakage.
- Two-part Stem. It's combine with up-stem and down-stem, with wear resistance material and corrosion resistance material, meet the requirement of wear and corrosion resistance.

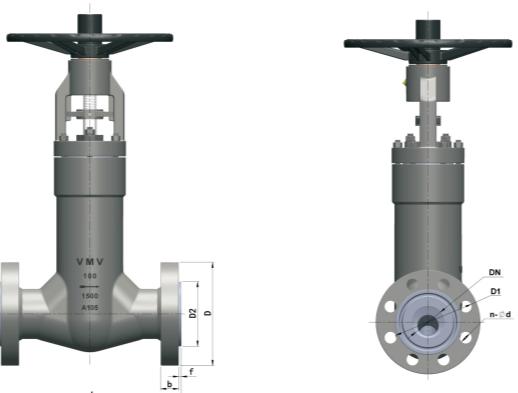
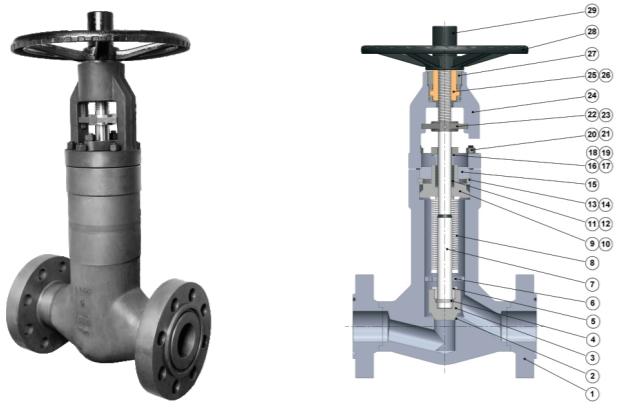
APPLICATION

Chlorine,liquid chlorine,alkali,ammonia ,hydrogen,nitrogen.

MAIN CONNECTION SIZE

DN	Main connection size						Mpa
	L	D	D1	D2	b	f	
15	130	95	65	45	14	2	4-Φ14
20	150	105	75	58	16	2	4-Φ14
25	160	115	85	68	16	2	4-Φ14
32	180	140	100	78	18	2	4-Φ18
40	200	150	110	88	18	3	4-Φ18
50	230	165	125	102	20	3	4-Φ18
65	290	185	145	122	22	3	8-Φ18
80	310	200	160	138	24	3	8-Φ18
100	350	235	190	162	24	3	8-Φ22
125	400	270	220	188	26	3	8-Φ26
150	480	300	250	218	28	3	12-Φ26
200	600	360	310	278	30	3	12-Φ30
250	730	425	370	335	32	3	12-Φ30
300	850	485	430	395			

SELF SEALING FOR HIGH PRESSURE BELLows GLOBE VALVE

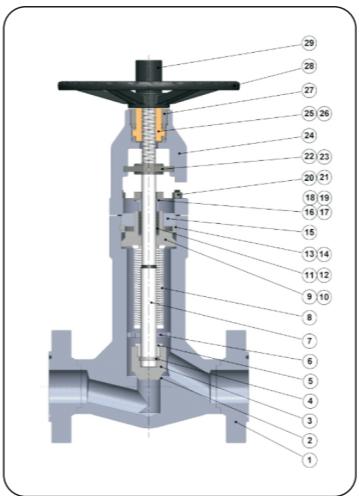


ADVANTAGE

- Body and bonnet connected by pressure from the tight seal structure, wedge-shaped sealing ring and four-ring opening combination. It forces the seal ring at high pressure deformation to achieve reliability. The higher the pressure, the more reliable sealing.
- Bellows sealed key component--Metal Bellows .It lower end and stem assembly with automatic roll welding and it upper end of the connecting plate automatic roll welding. It can formed a protected barrier between fluid medium and steam to be sure the steam no leak.
- Rational packing design is adopted to plaiting graphite, flexible graphite filler combination plus ends. It can be ensure the valve is no leak , which is comply with environmental requirements.
- Inverted stem design can easily change packing in special conditions.
- Seat sealing surface is surfacing carbide, it can guarantee safety and reliability in long working hours.
- Manual switch component is using a thrust bearing structure,it is easily to close.

MAIN CONNECTION SIZE

900LB													
Size DN	Flange end connection size								Butt weld end connection size				
	L	D	D1	D2	b	f	E	F	P	n-¢d	L1	Do	do
65	422	245	190.5	137	41.5	7.9	7.9	11.9	108.0	8-¢29	254	73	According to customer requirement
80	384	240	190.5	156	38.5	7.9	7.9	11.9	123.8	8-¢26	305	89	
100	460	290	235.0	181	44.5	7.9	7.9	11.9	149.2	8-¢32	356	114	
150	613	380	317.5	241	56	7.9	7.9	11.9	211.1	12-¢32	508	168	
200	740	470	393.7	308	63.5	7.9	7.9	11.9	268.9	12-¢39	660	218	
1500LB													
65	422	245	190.5	137	41.5	7.9	7.9	11.9	108.0	8-¢29	254	73	According to customer requirement
80	473	265	203.2	168	48	7.9	7.9	11.9	123.8	8-¢32	305	89	
100	549	310	241.3	194	54	7.9	7.9	11.9	149.2	8-¢35	406	114	
150	711	395	317.5	248	83	9.6	9.6	13.5	211.1	12-¢39	559	168	
200	841	485	393.7	318	92	11.1	11.1	16.7	268.9	12-¢45	711	218	
2500LB													
65	511	265	196.8	149	57.5	9.6	9.6	13.5	108.0	8-¢32	330	73	According to customer requirement
80	581	305	228.6	168	67	9.6	9.6	13.5	123.8	8-¢35	256	89	
100	676	355	273.0	203	76.5	11.1	11.1	16.7	149.2	8-¢42	457	114	
150	920	485	368.3	279	108	12.7	12.7	19.8	211.1	8-¢55	610	168	
200	1031	550	438.2	340	127	14.3	14.3	23.0	268.9	12-¢55	762	218	



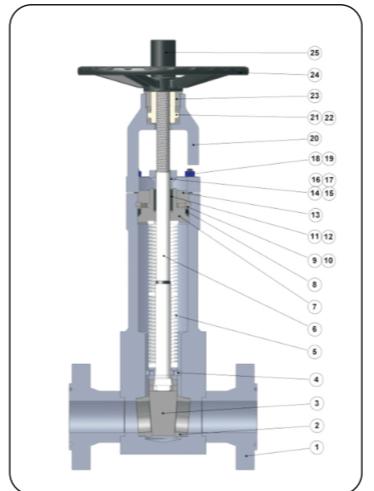
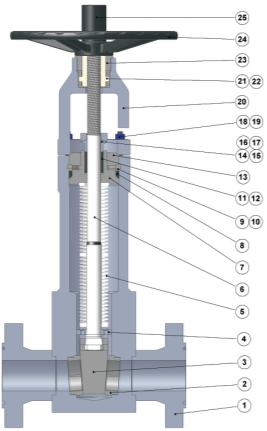
APPLICATION

Flammable, explosive, toxic, strong permeability. Radioactive and precious, high purity media, etc.

PERFORMANCE SPECIFICATION

NO.	Part name	Material
1	Body	A105、F304、F316
2	Seat	13Cr、316、Stellite
3	Disc	13Cr、304、316
4	Two open loop	13Cr、304、316
5	Disc cap	1035、304、316
6	Protection block	1035、304、316
7	Stem	1.0619+N、1.4401
8	Bellows	304、316L
9	Stuffing Box	1035、304、316
10	Gasket	Flexible graphite + stainless steel
11	Packing	Flexible graphite + stainless steel
12	Packing gasket	1035、304
13	Four open loop	13Cr、304
14	Blocking ring	1035、304
15	Guide plate	1035、304
16	Gland sleeve	1035、304
17	Gland	A105、304
18	Jack Bolt	B7、B8、B8M
19	Jack Nut	2H、8、8M
20	Bolt	B7、B8、B8M
21	Nut	2H、8、8M
22	Locator	1035、304
23	Pin	13Cr、304
24	Bonnet	A105、F304、F316
25	Stem nut	Copper alloy、D2
26	Bearing	Bearing steel
27	Bearing cap	1035、304
28	Handwheel	Carbon steel
29	Cap	1035

SELF SEALING FOR HIGH PRESSURE BELLows GATE VALVE



ADVANTAGE

1. Body and bonnet connected by pressure from the tight seal structure, wedge-shaped sealing ring and four-ring opening combination. It forces the seal ring at high pressure deformation to achieve reliability. The higher the pressure, the more reliable sealing.
2. Bellows sealed key component--Metal Bellows .It lower end and stem assembly with automatic roll welding and it upper end of the connecting plate automatic roll welding. It can formed a protected barrier between fluid medium and steam to be sure the steam no leak.
- 3.Rational packing design is adopted to plaiting graphite, flexible graphite filler combination plus ends. It can be ensure the valve is no leak , which is comply with environmental requirements.
- 4.Inverted stem design can easily change packing in special conditions.
- 5.Seat sealing surface is surfacing carbide, it can guarantee safety and reliability in long working hours.
- 6.Manual switch component is using a thrust bearing structure,it is easily to close.

TECHNICAL SPECIFICATION

Design and Manufacture :API600 API6D GB/T12234
 Flange ends :ANSI B16.5 JB/T79 GB9113
 Pressure Temperature :ANSI B16.34 JB/T74 GB9131
 Face to face :ANSI B16.10 GB12221
 Test & inspection:API598 JB/T9092 GB13927

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	900LB										do	
	Flange end connection dimension						The butt end of the link size					
L	D	D1	D2	b	f	E	F	P	n-¢ d	L1	Do	
65	422	245	190.5	137	41.5	7.9	7.9	11.9	108.0	8-¢ 29	254	73
80	384	240	190.5	156	38.5	7.9	7.9	11.9	123.8	8-¢ 32	305	89
100	460	290	235.0	181	44.5	7.9	7.9	11.9	149.2	8-¢ 32	356	114
150	613	380	317.5	241	56	7.9	7.9	11.9	211.1	8-¢ 32	508	168
200	740	470	393.7	308	63.5	7.9	7.9	11.9	268.9	8-¢ 39	660	218
1500LB												
65	422	245	190.5	137	41.5	7.9	7.9	11.9	108	8-¢ 29	254	73
80	473	265	203.2	168	48	7.9	7.9	11.9	136.5	8-¢ 32	305	89
100	549	310	241.3	194	54	7.9	7.9	11.9	161.9	8-¢ 35	406	114
150	711	395	317.5	248	83	9.6	9.6	13.5	211.1	12-¢ 39	559	168
200	841	485	393.7	318	92	11.1	11.1	16.7	269.8	12-¢ 45	711	218
2500LB												
65	511	265	196.8	149	57.5	9.6	9.6	13.5	111.1	8-¢ 32	330	73
80	581	305	228.6	168	67	9.6	9.6	13.5	127	8-¢ 35	256	89
100	676	355	273.0	203	76.5	11.1	11.1	16.7	157.2	8-¢ 42	457	114
150	920	485	368.3	279	108	12.7	12.7	19.8	228.6	8-¢ 55	610	168
200	1031	550	438.2	340	127	14.3	14.3	23.0	279.4	12-¢ 55	762	218

APPLICATION

Flammable, explosive, toxic, strong permeability. Radioactive and precious, high purity media, etc.

PERFORMANCE SPECIFICATION

NO.	Part name	Material
1	Body	A105、F304、F316
2	Seat	13Cr、316、Stellite
3	Disc	13Cr、304、316
4	Protection block	1035、304、316
5	Bellows	304、316L
6	Stem	1.0619+N、1.4401
7	Stuffing Box	1035、304、316
8	Gasket	Flexible graphite + stainless steel
9	Four open loop	13Cr、304
10	Blocking ring	1035、304
11	Packing	Flexible graphite + stainless steel
12	Packing gasket	1035、304
13	Guide plate	1035、304
14	Gland sleeve	1035、304
15	Gland	A105、304
16	Jack Bolt	B7、B8、B8M
17	Jack Nut	2H、8、8M
18	Bolt	B7、B8、B8M
19	Nut	2H、8、8M
20	Bonnet	A105、F304、F316
21	Stem nut	Copper alloy、D2
22	Bearing	Bearing steel
23	Bearing cap	1035、304
24	Handwheel	Carbon steel
25	Cap	1035

FULLY FORGED HIGH TEMPERATURE-PRESSURE GLOBE VALVE AND GATE VALVE

PRODUCT MAIN ADVANTAGE

- 1.Breakthrough the size limit of full forged valve , the maximum can reach more than DN300.
- 2.It can apply to harsh working conditions, such as high temperature、high pressure、special location and bad environment .
- 3.Bellows sealed key component--Metal Bellows .It lower end and stem assembly with automatic roll welding and it upper end of the connecting plate automatic roll welding. It can formed a protected barrier between fluid medium and steam to be sure the steam leak.
- 4.Rational packing design is adopted to plaiting graphite, flexible graphite filler combination plus ends. It can be ensure the valve is no leak , which is comply with environmental requirements.
- 5.Inverted stem design can easily change packing in special conditions.
- 6.Seat sealing surface is surfacing carbide, it can guarantee safety and reliability in long working hours.
- 7.Manual switch component is using a thrust bearing structure,it is easily to close.
- 8.According to working conditions requirement, the valve is adopted to metal sealing ring in middle side. To be achieved that after applying need not to exchange the metal sealing ring any more .

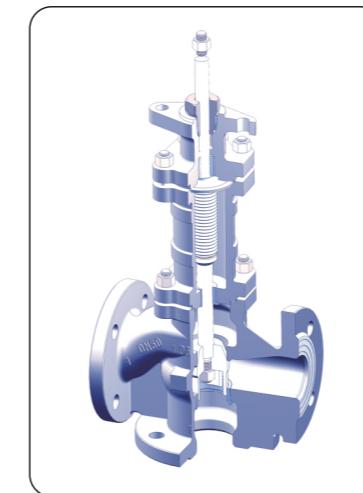


TECHNICAL SPECIFICATION

Design and Manufacture :API600 API6D GB/T12234
 Flange ends :ANSIB16.5 JB/T79 GB9113
 Pressure Temperature :ANSIB16.34 JB/T74 GB9131
 Face to face :ANSIB16.10 GB12221
 Test & inspection :API598 JB/T9092 Gb13927
 Using temperature :-196°C-600°C

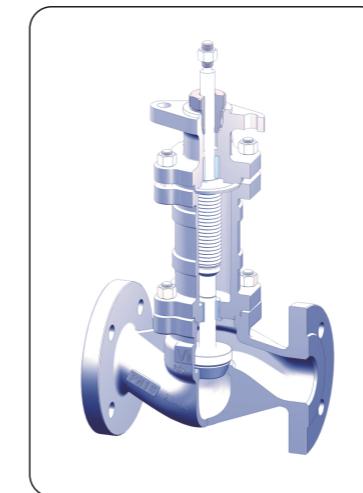
APPLICATION

Flammable, explosive, toxic, strong permeability, radioactive, high-purity precious medium etc. Especially suitable for high temperature and high pressure, special geographical condition (land subsidence etc), demanding working conditions in harsh environments.



BODY STRUCTURE

- 1.High-strength body and applies to every high load condition.
- 2.Long distance design and control of high precision, it can be up to 50:1Provide a variety of forms of stem seal . Maintenance-free.
- 3.Optional threaded seat . It can reduce KVS value,which can up to 5 times.
- 4.With standard travel indicator.
- 5.Optional Bellow seal.
- 6.Optional V-type/squirrel-cage valve head.



PNEUMATIC ACTUATORS DP32/33/34/34T

- 1.Multi-spring、Compact Actuators.
- 2.Rotary diaphragm with good enhancing features.
- 3.Can choose a different spring closing force.
- 4.The highest inlet pressure can up to 6 bar .
- 5.Can be equipped with emergency handwheel.



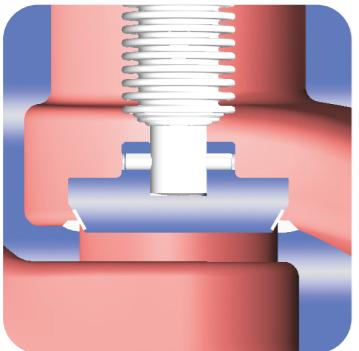
ELECTRIC ACTUATOR PREMIO 2.2KN/5KN/12KN/15KN

- 1.To use synchronous motor to control precisely.
- 2.With standard 2 torque switch and 1 limit switch.
- 3.To adopt technology sealed electronic components and it has good shock resistance.
- 4.High protection class Ip65.
- 5.Be connected with various types of bus system.

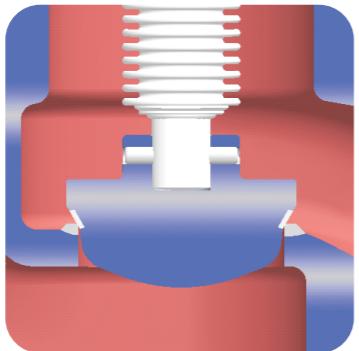


CUSTOMIZED BELLows VALVES

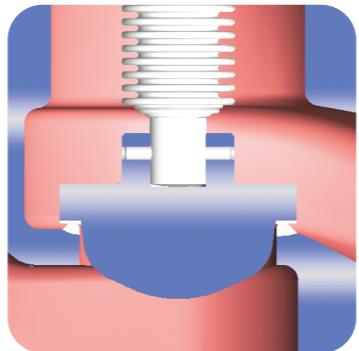
Zhejiang Newton Fluid Control Co.,Ltd. is a professional bellow sealed valves company located in China, which has nearly 22 years of valve manufacturing experience. We can provide all kinds of customize bellows valves .



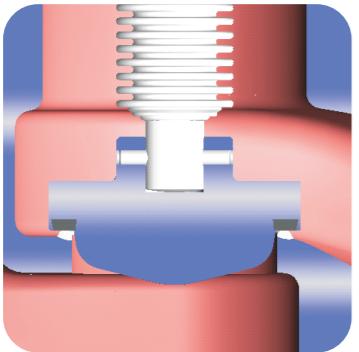
1. Conical sealing surface will remove impurity automatically.



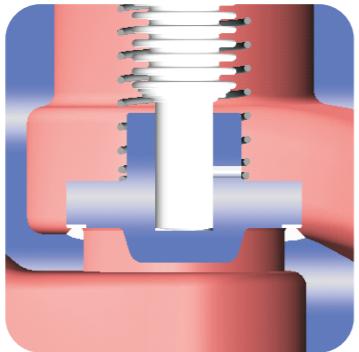
2. Streamline design disc has better tolerance to water hammer.



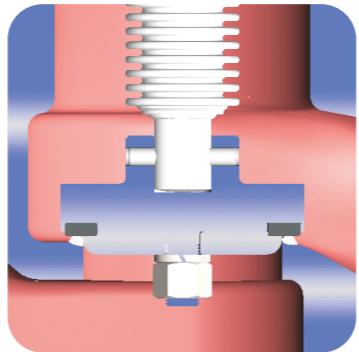
3. Flat sealing surface and streamline disc, with better tolerance to water hammer, and can be installed in any position.



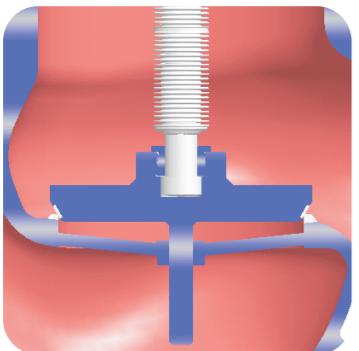
4. Soft sealing surface can prevent sparks when opening and closing. Streamline disc can regulate flow rate.



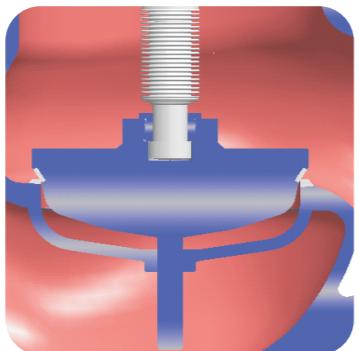
5. Globe-check disc with spring, it can be installed in any position.



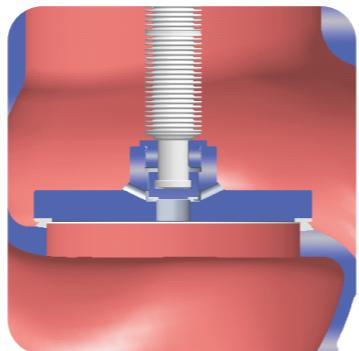
6. Soft sealing surface can prevent sparks, and easy for replacement.



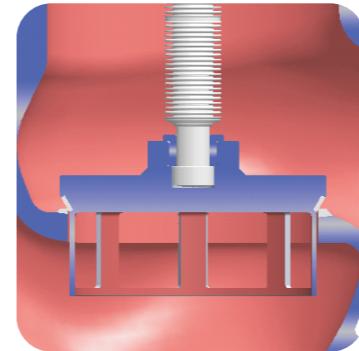
7. Central locate structure is good for sealing and lower noise.



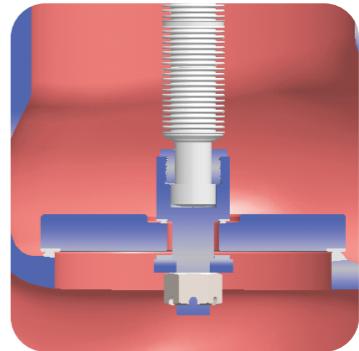
8. Streamline disc with central locate structure can prevent water hammer and lower noise.



9. Double disc design, the second disc can relief pressure and easy for opening and closing.



10. Window shape regulating disc, control the flow rate precisely.



11. Balance type disc easy for opening, with good sealing, applied when dimension bigger than Dn200.

Please confirm the detailed requirements as below :

Working temperature :

Pressure :

Medium :

Body material :

Bellow material :

Other parts :

Others :

Sale service

Tel : +86-577-67978269

Fax : +86-577-67376711

E-mail : vmv@vmv-valve.com

PRODUCT WARRANTY

Warranty is within eighteen months of completion inspection or within twelve months of the start of usage. For the faulty components of products, which attributable to inadequate design or manufacturing of VMV. VMV will provide repair or replace service.

However, repairs or replacements will be charged in any of the following cases . Also note that if a separate agreement is in effect. That agreement shall take precedence.

- (1) When the product has been used in an incorrect manner which deviates from the catalog or instruction manual.
- (2) When the product failure is due to careless handling such as jamming with impurity of pipeline.
- (3) When the product has been disassembled ,repaired or altered by a third party other than VMV valve.
- (4) When the product has been subject to cases beyond the control of VMV valve including natural disaster such as wind or flood damage, earthquakes and electrical storm, fire, pollution (special environments), salt damage, war or acts of terror.
- (5) When a failure is due to any other factors which are deemed not the responsibility of VMV valve.

Customer Service

Tel: +86-577-67978896

Fax: +86-577-67376711

E-mail: customerservice@bellowvalves.com

