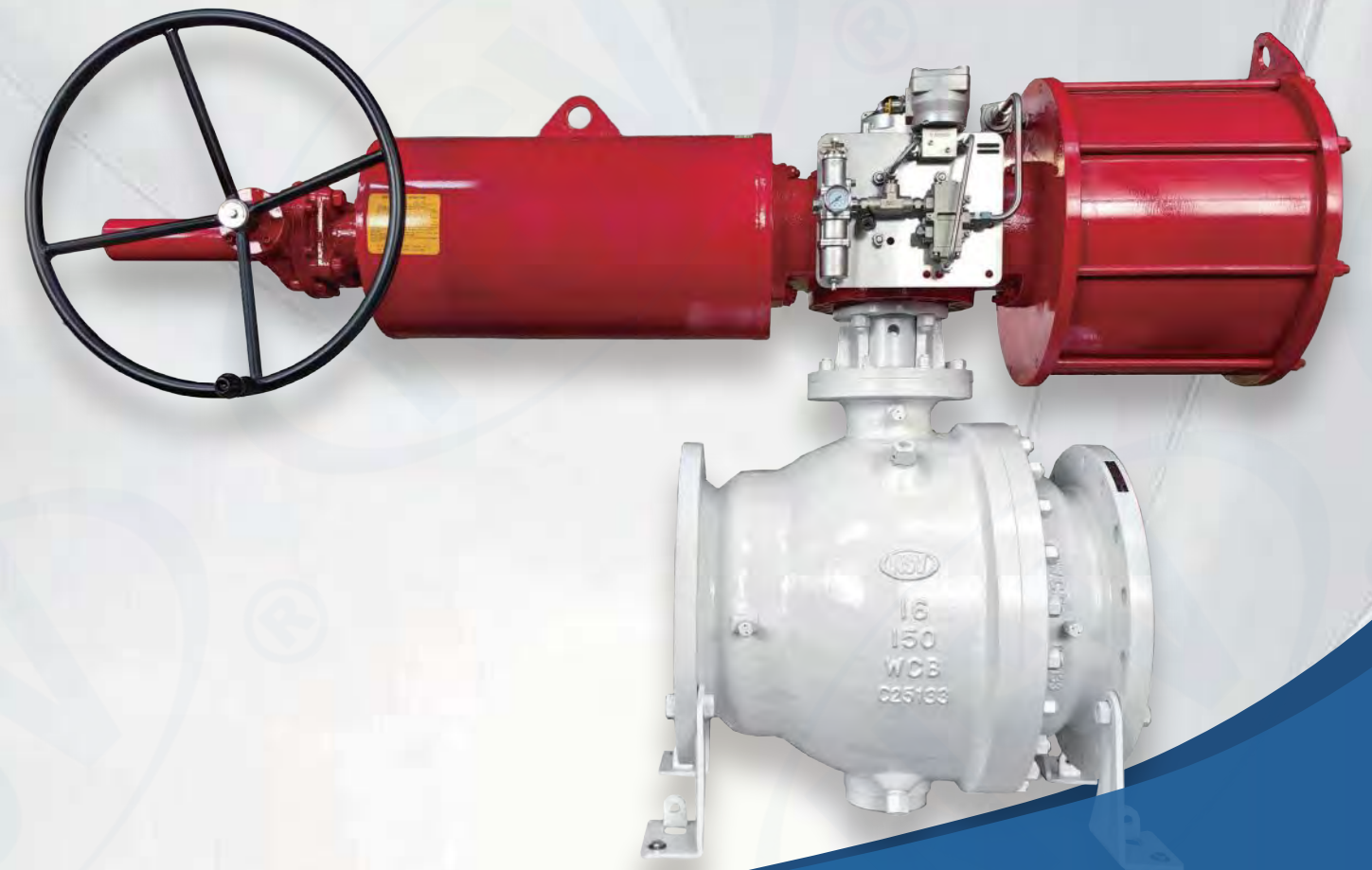


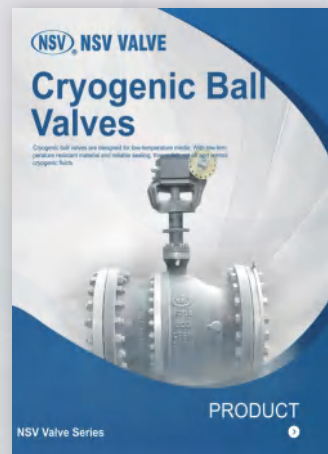
NSV NSV VALVE



PRODUCT Ball Valve

Full series of precision ball valves, high-efficiency flow control, and tight sealing. Pressure & corrosion resistant, suitable for complex working conditions. Reliable industrial quality for stable fluid operation.

NSV Valve Series



Contact Us

0086-577-6737-8616
0086-577-6737-7337

info@nsvvalve.com

Puyi Road, Sangqiao Industrial Zone, Oubei
Street, Yongjia County, Zhejiang, China



COMPANY PROFILE



Who We Are

NSV Valve is a young and dynamic organization, established in 2007, based in China. We are a Manufacturer and global trading and company supplier in the Valve industry specialized in standard & customized valves. Our clients and end-users are particularly operating in the market Petro-Chemical, Industrial Gas, Pulp&Paper, Chemical, Mechanical Construction, Power Generation, and Refining Etc.

What We do

NSV Valve has been committed to manufacturing cast and forged steel industrial valves include Ball, GGC (Gate, Globe, Check, Strainer), Plug, Butterfly and Control valves (through our 5 workshops) that material are carbon steel, stainless steel, and also offer a wide range of materials such as Ni-Al-Bronze, Monel, Inconel, Duplex, Super Duplex, and Alloy Materials, with quality innovative designs, recognized by many global users and EPC's. All sizes, pressure classes, and metallurgical compositions are managed in house utilizing the strictest quality control measures to ensure the customer's total satisfaction.

Why Choose NSV Valve

At the heart of our operations is our core philosophy: **New Innovation** · **Secure & Stable** · **Valve Solutions** three pillars that define everything we do.

- New Innovation** - We don't just follow standards; we develop application-specific designs to solve unique challenges in oil & gas, LNG, power, and chemical industries.
- Secure & Stable** - Every valve we deliver is built for safety and reliability, meeting rigorous international standards to protect your processes and assets.
- Valve Solutions** - From standard API-certified products to fully customized ball, gate, globe, and butterfly valves, we provide the right solution for every project requirement.

We don't just manufacture valves; we provide security for critical flow control systems. By integrating advanced CNC machining, rigorous pressure testing, and a global supply chain mindset, we ensure that every valve bearing the NSV mark delivers on our promise: Innovation that solves. Security that protects. Solutions that deliver.

Whether you are looking for standard valves or custom solutions for complex projects, NSV Valve is your partner in flow control excellence.

CORPORATE CULTURE



COMPANY POSITIONING

- NSV Valve Corporation is a manufacturer and global trading company and supplier in the Valve industry specialized in standard & customized valves.



SENSE OF WORTH

- N-New Innovation**
We develop advanced, application-specific valve designs to solve unique challenges in oil & gas, LNG, power, and chemical industries.
- S-Secure & Stable**
Our valves are built for safety and stability, meeting international standards to protect your processes and assets.
- V-Valve Solutions**
From standard to fully customized ball, gate, globe and plug valves etc, we deliver reliable solutions for every project requirement.



CORPORATE VISION

- To be the preferred global partner for innovative, reliable, and complete valve solutions — recognized for engineering excellence and customer-centric service.

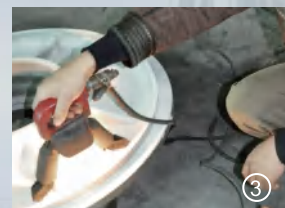




Quality Control

NSV developed an extensive and advanced inspection and test facilities to control the quality from rough casting/forging to final products. These facilities enable us to do Positive Material Identification (PMI), Radiographic test(RT), Ultra-sonic test(UT), Dye-penetration test, Magnetic particle test, Impact test, Tensile test, Hardness test, Fire-safe test, Cryogenic test, Vacuum test, Fugitive emission test, Pressure test.

1. All our valves are 100% Pressure tested prior to dispatch.
2. We can supply either 3.1B certification or Certificate of Conformity.
3. We accommodate other 3rd Party or user inspection by prior agreement.



- ① PMI Test
- ② Tensile Test
- ③ Magnetic Particle Test
- ④ Impact Test
- ⑤ Dye-penetration Test

- ⑥ Pressure Test
- ⑦ Ultrasonic Test
- ⑧ Fire-safe Test
- ⑨ RT Test
- ⑩ Cryogenic Test



PRODUCT WARRANTY

NSV will replace without charge or refund the purchase price of products provided by seller which prove to be defective in material or fabrication, provided in each case that product is properly installed and is used in the service for which Seller recommends it and that written claim, specifying the alleged defect, is presented to the Seller within 18 months from the date of shipment or 12 months after installation, whichever occurs first. Seller shall in no event bear any labor, equipment, engineering or other costs incurred in connection with repair or replacement. The warranty stated in paragraph is instead of all other warranties, either expressed or implied. With respect to warranties, this paragraph states Buyer's exclusive remedy and seller's exclusive liability.

Conventional valve

[illegible]

Other size contact NSV sales team

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General

Since 1950 Ball valve has been available as a valve, and become one of the fastest-growing varieties of the valves in the last decades. Ball valve is not only of simple structure, good sealing, but also of smaller size, lighter weight, lower cost, easier installation, less driving torque value, easier operation, quicker opening and closure to a certain nominal range. During the past 50 years, Ball has developed into one of the main valve of the category. Ball valve can be used to cut off or access medium, and also control or regulate the fluid, while the V-ball valve can achieve more precise flow regulation and control. As one of the leading Chinese manufacturers of industrial valves is well capable of the production for various types of industrial valves, ball valves have been serving in a wide range of rigorous conditions and demand of oil, natural gas, refining, petrochemicals, ships, power plants, as well as Pipeline industry. Production of the ball valve is in full compliance.

The ball valve structure

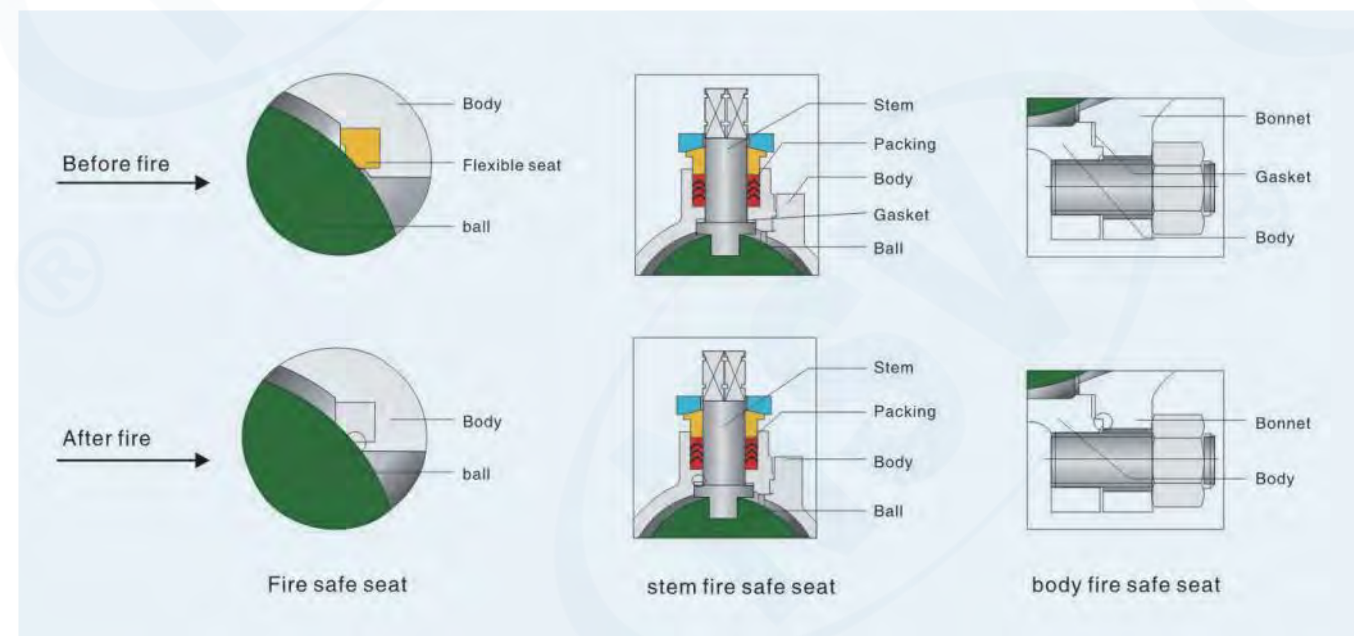
1. Small fluid resistance: The ball valve is of least fluid resistance in all types of valves, even reduced bore ball valve, the fluid resistance is quite small.
2. Quick and easy opening and closing: as long as the stem turns 90°, the ball valve will be able to complete the full open or closure actions.
3. Good sealing performance: the general use of ball valve seat ring, such as PTFE flexible materials, is easy to achieve sealing performance, and the sealing capability increases with the power of the medium pressure.
4. Reliable stem sealing: because of the rotation actions of the operation, the stem Packing seals will not be easily destroyed, and the sealing capability increases with the power of the medium pressure.
5. Easy remote control: since the control of the ball valve needs only 90° rotation, it is easy to control and automate the remote control, so the ball valve can be mounted with pneumatic actuator, electrical actuator, hydraulic actuator, gas-liquid interaction actuator, or electro-hydraulic interaction actuator.
6. Smooth channel disables easy medium deposition, ensures smooth pipeline transit.

Floating ball valve features

Floating ball structure is simple and a good seal for class 150~class 600 pressure class to cut off or access the medium in all kinds of pipeline. Ball valve with different materials, can be applied to water, steam, oil products, liquefied natural gas, gas, nitric acid, acetic acid, such as oxidizing medium. One-piece ball valve includes: one-piece type, and forged split body type. All the floating ball are in accordance with API 608/BS 5351, and other standard design. Fire test to meet the requirements of API 607, pressure range: class 150~class 600; operating temperature range: -196°C~540°C; size range: NPS 1/2~NPS 8.

Fire Safe Design

When the ball valve site happens to be on fire, and non-metallic sealing materials are destroyed after pyrolysis, ball valve with specially designed metal to metal seal auxiliary structure, can achieve effective control of valve in and out leakage.



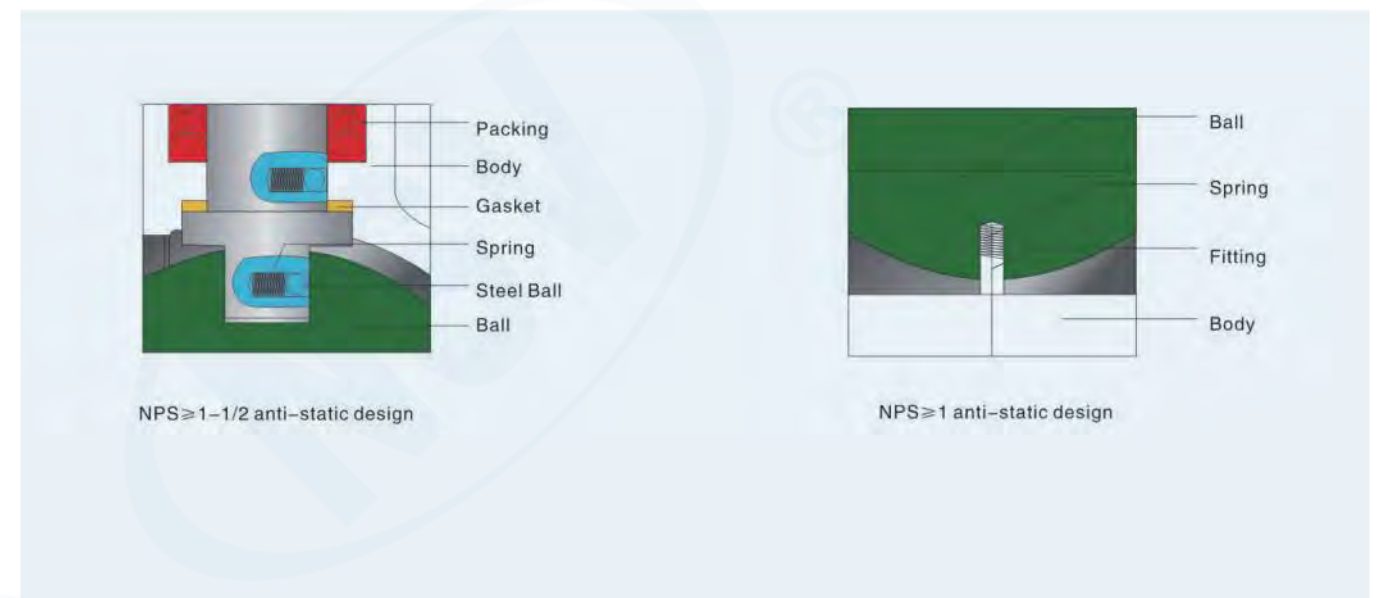
Stem blow-out proof design

Stem blow-out proof adopts the structural design of the T-shaped structure as a whole, even if the valve chamber is in the unusual pressure arising condition, as well as extreme cases like gland failure, the design can guarantee that stem will not be blown out by the medium. With the stem installed deep inside the valve body, it can function as the backseat which increases with the medium pressure and achieves reliable sealing in a variety of pressure conditions.



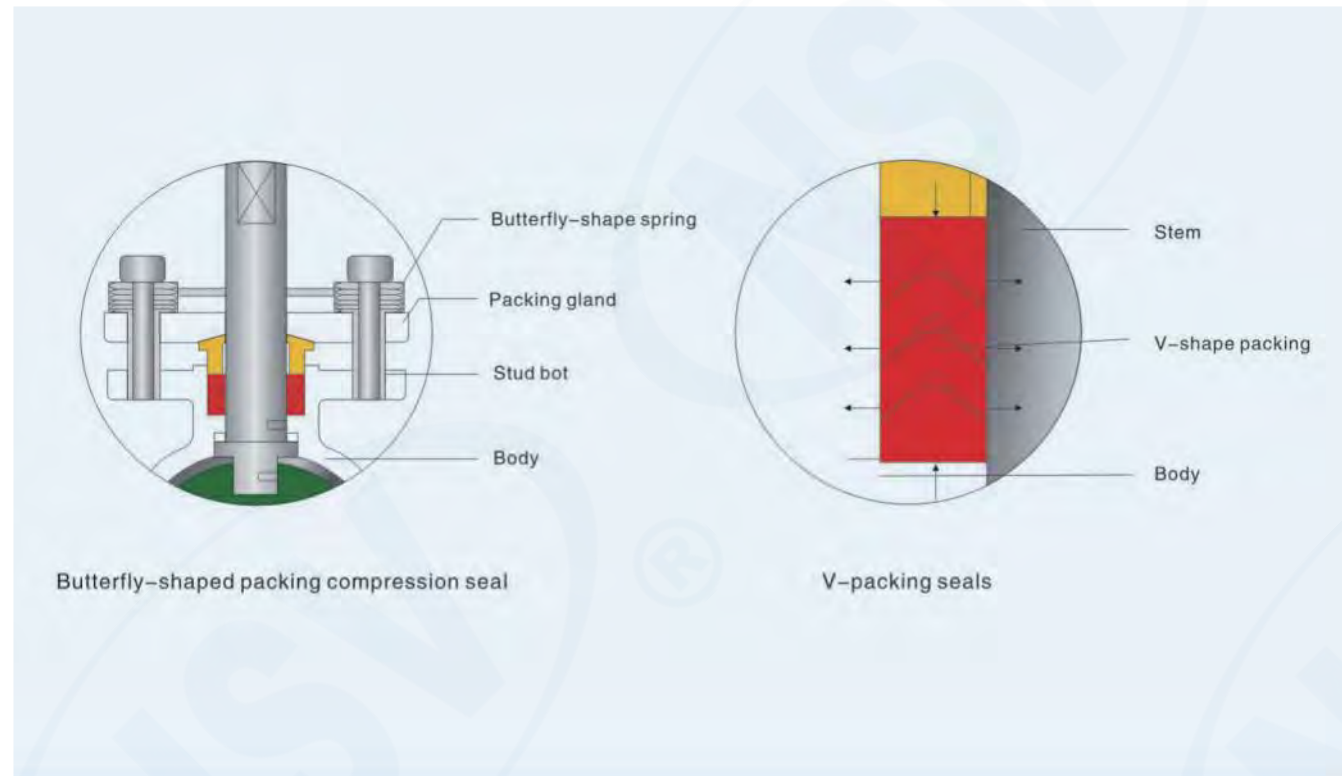
Anti-static design

Floating ball valve anti-static design adopts anti-static spring structure or steelstatic extraction device, so that the body between the ball forms an electrostatic channel (NPS = 1 of the ball) or through the stem between the valve body and the ball forms a static channel (NPS = 1-1/2 of the ball), and thus ensures the static electricity generated by friction in the process be grounded into the earth through the body, to avoid static electricity sparks that could cause an explosion or fire danger and so on.



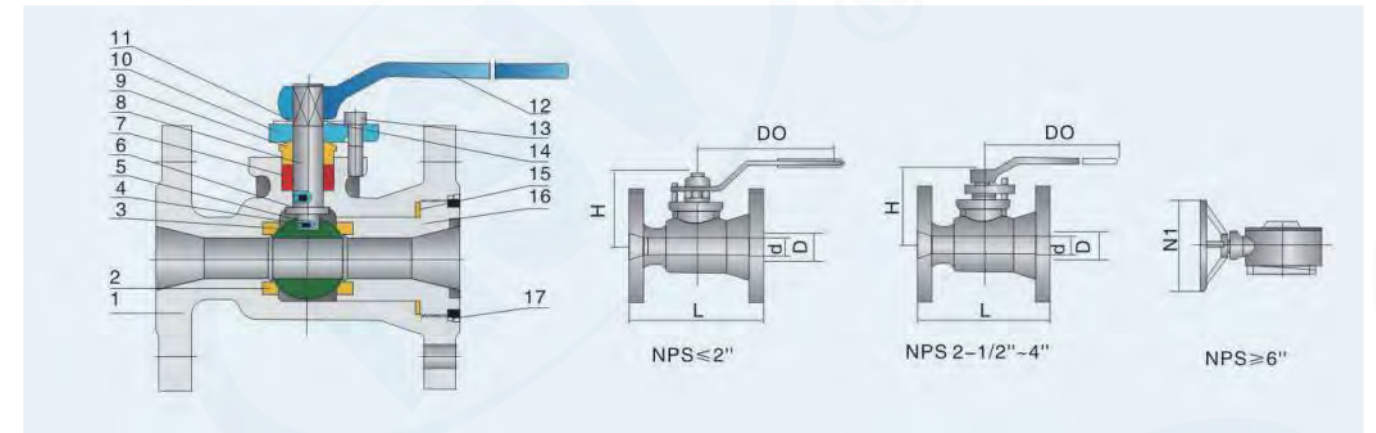
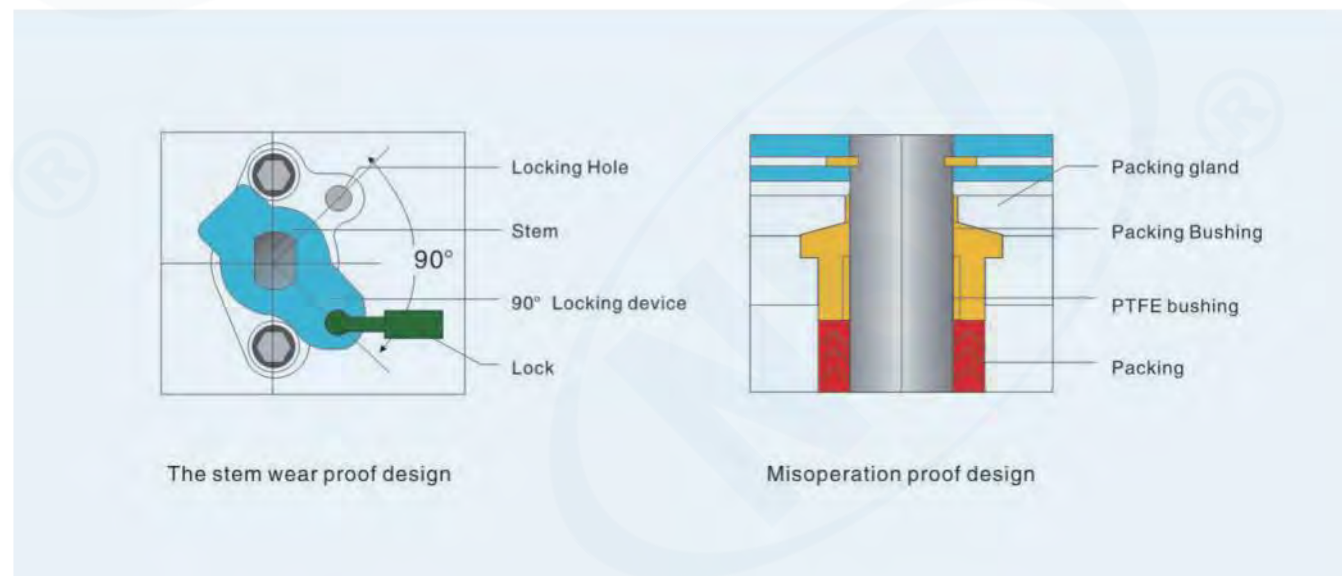
■ Fugitive emission design

Adopts dynamic loading gland design and the V-packing seals that ensures continuous loading to the gland and guarantees lasting close sealing.prevents medium from leaking. Meanwhile the V-fill packing gland can compress the power and medium power effectively into the valve stem sealing.



■ The stem wear proof and misoperation proof

Design has changed the traditional packing gland into packing gland and bushing with spherical contact to ensure that the bushing always stay vertical.Inside the bushing there sets a PTFE bush to avoid the wear and reduce torque valve operation.The structural design to prevent the misoperation is set up with the approach of the 90° position locking devise that can be locked to prevent the misoperation.Stem head adopts flat head design.when opening the valve,the handle is parallel to the pipeline;when closing the valve,the handle is vertical to the pipeline,to ensure that the prevention of misoperation.



■ Material List

No	Parts	Material
1	Body	ASTM A216 Gr.WCB
2	Seat	PTFE
3	Ball	304 S.S.
4	Steel Ball	304 S.S.
5	Spring	304 S.S.
6	Gasket	304 S.S.+Graphite
7	Packing	Graphite
8	Stem	ASTM A182 F6a
9	Bushing	ASTM A276 410
10	Gland	ASTM A216 Gr.WCB
11	Gauge Block	AISI 1010Zinc-coated
12	Handle	ASTM A216Gr.WCB
13	Nut	ASTM A193 Gr.B7
14	Retaining Ring	304 S.S.
15	Body Fire Safe Ring	304S.S.
16	Bonnet	ASTM A216 Gr.WCB

■ Standards

Face-to-Face dimension: ASME B 16.10
Design and manufacture: API 608, BS 5351, API 6D
Flanged End: ASME B16.5
Shell Wall Thickness: BS 5351, ASME B16.34
Valve Test: API 598

■ Features

Under medium pressure,the ball can have a certain amount of displacement and be pressed at the valve seat ring exit and achieves sealing Floating ball valve structure is simple and of good seal,but since the full load from the ball under pressure is transferred to the flange at exit,its use is restricted in a certain range of pressure size, generally floating ball valve is applicable to low pressure in small size valve. one-piece ball valve was developed from many years of manufacturing experience. it's of side entry, simple structure,light weight,good sealing,low torque value,and different sealing materials that can meet different temperature range.

The body material is also available LCB, A351 CF8, CF8M, CF3, CF3M, duplex stainless steel etc. The trim/seat material can be customized upon request.

Dimensions & Weights

■ Class 150

NPS(in)	L(mm)	D(mm)	d(mm)	H(mm)	W(mm)	W1(mm)	WT(kg)
1/2	108	12.7	9.5	54	140	---	2.1
3/4	117	19	12.7	59	140	---	3
1	127	25.4	19	64	160	---	4.1
1-1/2	165	38	30	90	160	---	6.5
2	178	51	38	102	260	---	9
2-1/2	190	64	51	112	260	---	11.2
3	203	76	64	121	260	---	15.3
4	229	102	76	166	320	---	28.6
6	267	152	114	208	---	450	53
8	292	203	144	246	---	660	81
10	330	254	187	303	---	660	150

■ Class 300

NPS(in)	L(mm)	D(mm)	d(mm)	H(mm)	W(mm)	W1(mm)	WT(kg)
1/2	140	12.7	9.5	54	140	---	2.8
3/4	152	19	12.7	59	140	---	3.6
1	165	25.4	19	64	160	---	4.9
1-1/2	190	38	30	90	160	---	10.4
2	216	51	38	102	260	---	12
2-1/2	241	64	51	112	260	---	16.1
3	282	76	64	121	260	---	23
4	305	102	76	166	320	---	39.5
6	403	152	114	208	---	450	82
8	419	203	144	246	---	660	124
10	457	254	187	303	---	660	206

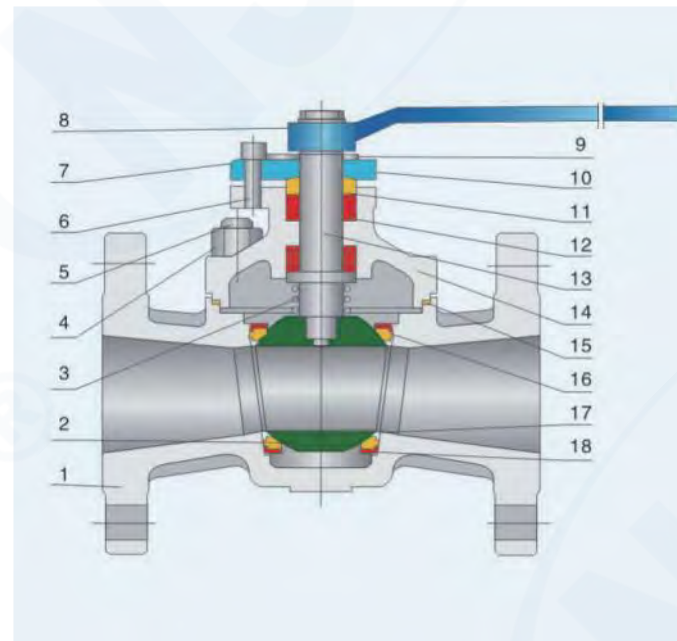
Standards

Face-to-Face dimension: ASME B 16.10, JIS B2002
 Design and manufacture: API 608, BS 5351, API 6D, JIS B2071,B2081
 Flanged End: ASME B16.5, JIS B2212, B2214
 Shell Wall Thickness: BS 5351
 Valve Test: API 598, JIS B2003
 Pressure-temperature Rating: JIS B2071, B2081

The body material is also available LCB, A351 CF8, CF8M, CF3, CF3M, duplex stainless steel etc. The trim/seat material can be customized upon request.

Material List

No	Parts	Material
1	Body	ASTM A216 Gr.WCB
2	Ball	304 S.S.
3	Spring	304 S.S.
4	Nut	ASTM A194 Gr.2H
5	Stud	ASTM A193 Gr.B7
6	Nut	ASTM A193 Gr.B7
7	Gauge Block	AISI 1010 Zinc-coated
8	Handle	ASTM A216 Gr.WCB
9	Gland	304 S.S.
10	Packing Gland	ASTM A216 Gr.WCB
11	Packing Bushing	ASTM A276 410
12	Packing	PTFE
13	Stem	ASTM A182 F6a
14	Bonnet	ASTM A216 Gr.WCB
15	Gasket	PTFE
16	Seat	PTFE
17	Inner-firesafe Metal	ASTM A276 410
18	Outer-firesafe Metal	ASTM A276 410



Features

Self-developed dual-slope ball valve, it can be widely used in the petroleum chemical, metallurgical, electricity, medicine and technology sectors such as technology and instrumentation on the pipeline, and serves for general medium and also sewage containing fiber, micro-granular, high viscosity of the fluid medium. Dual-slope ball valve under the performance of the spring, can automatically adjust the seal among the seat, valve body, and the ball to ensure reliable sealing under low and medium pressure conditions. The sealing between the stem and bonnet contact area comes from the compaction sealing from the stem and bonnet convex against the packing surface which effectively reduces the torque for opening and valves. This type also applies top entry design that makes easier to carry out repair or replacement of parts directly on the pipeline to achieve more convenient maintenance.

Fire Safe Design

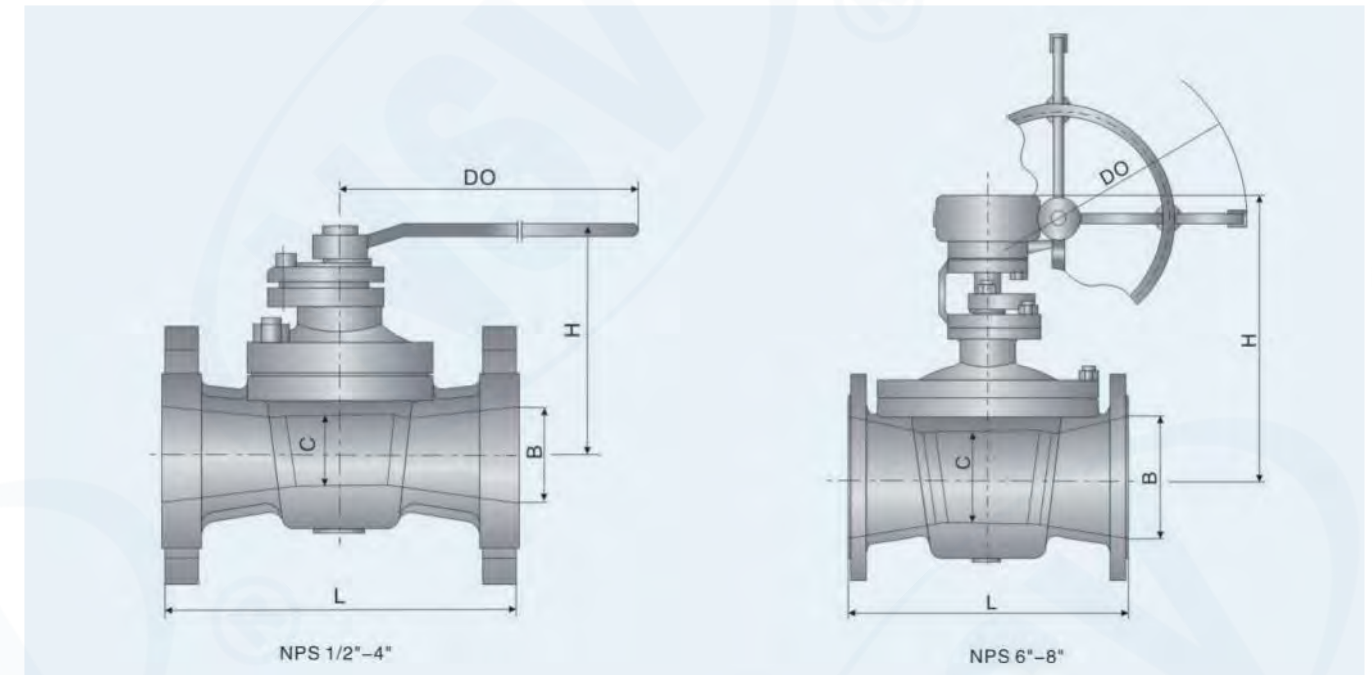
To prevent from a large amount of leakage when the seat material is damaged in the fire, dual-slope ball valve applies a fire safe metal ring between the valve seat so when the seat is on fire, the ball will contact with the metal ring and save the sealing to ensure the prevention of the medium from leakage and the safety of the pipeline.

Stem blow-out proof Design

To prevent the stem from being blown out by the medium in the unusual pressure arising condition, dual-slope ball valve adopts a convex with the stem blow-out proof at the bottom of the stem to achieve effective control of the ball valve stem.

Packing flat surface tightness

To reduce the opening torque value, and enable the quick and convenient operation, dual-slope ball valve applies the pre-tightening force of the spring to the surface between the packings and the that between the stem shoulder and the cover shoulder to ensure tightness.



Dimensions & Weights

Class 150

NPS(in)	L(mm)	C(mm)	B(mm)	H(mm)	Do(mm)	W1(mm)	WT(KG)
1/2	108	9.5	13	100	140	---	2.8
3/4	117	13	19	100	140	---	3.2
1	127	20.6	25	100	140	---	4.0
1-1/2	165	30.2	38	120	190	---	8.8
2	178	38	51	140	230	---	11.0
2-1/2	190	51	63	180	320	---	22.0
3	203	57.2	76	210	320	---	25.2
4	229	76.2	102	220	450	---	36.0
6	394	114.3	152	320	---	450	147.0
8	457	152.4	203	380	---	660	198.0

Class 300

NPS(in)	L(mm)	C(mm)	B(mm)	H(mm)	Do(mm)	W1(mm)	WT(KG)
1/2	140	9.5	13	100	140	---	3.1
3/4	152	13	19	100	140	---	4.3
1	165	20.6	25	100	140	---	4.4
1-1/2	190	30.2	38	120	190	---	12.6
2	216	38	51	140	230	---	14.0
2-1/2	241	51	63	180	320	---	23.8
3	282	57.2	76	210	320	---	38.6
4	305	76.2	102	220	450	---	42.5
6	403	114.3	152	320	---	450	150.2
8	502	152.4	203	380	---	660	206.2

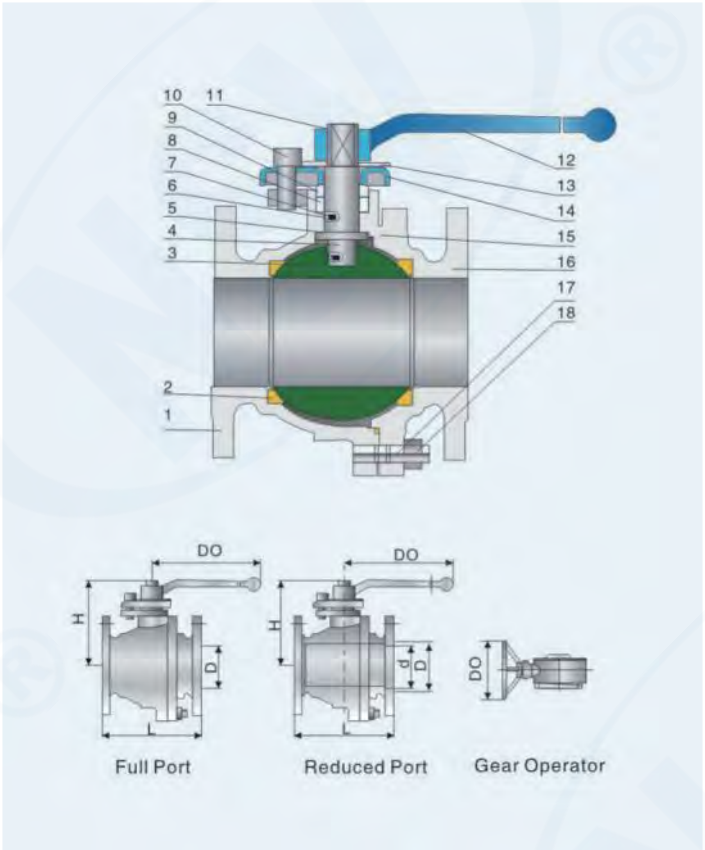
Standards

Face-to-Face dimension: ASME B 16.10 JIS B2002
Design and manufacture: API 608, BS 5351, API 6D
Flanged End: ASME B16.5, JIS B2212, B2214
Shell Wall Thickness: BS 5351
Valve Test: API 598, JIS B2003
Pressure-Temperature Rating: JIS B2071, B2081

The body material is also available LCB, A351 CF8, CF8M, CF3, CF3M, duplex stainless steel etc. The trim/seat material can be customized upon request.

Material List

No	Parts	Material
1	Body	ASTM A216 Gr.WCB
2	Seat	PTFE
3	Ball	304 S.S.
4	Stem	ASTM A182 F6a
5	Gasket	PTFE
6	Spring	304 S.S.
7	Steel Ball	304 S.S.
8	Packing	PTFE
9	Packing Bushing	ASTM A276 410
10	Nut	ASTM A193 Gr.B7
11	Retaining Ring	304 S.S.
12	Lever	ASTM A216 Gr.WCB
13	Gauge Block	AISI 1010 Zinc-coated
14	Packing Gland	ASTM A216 Gr.WCB
15	Body Gasket	PTFE
16	Bonnet	ASTM A216 Gr.WCB
17	Stud	ASTM A193 Gr.B7
18	Nut	ASTM A194 Gr. 2H



Dimensions & Weights

Class 150/10K

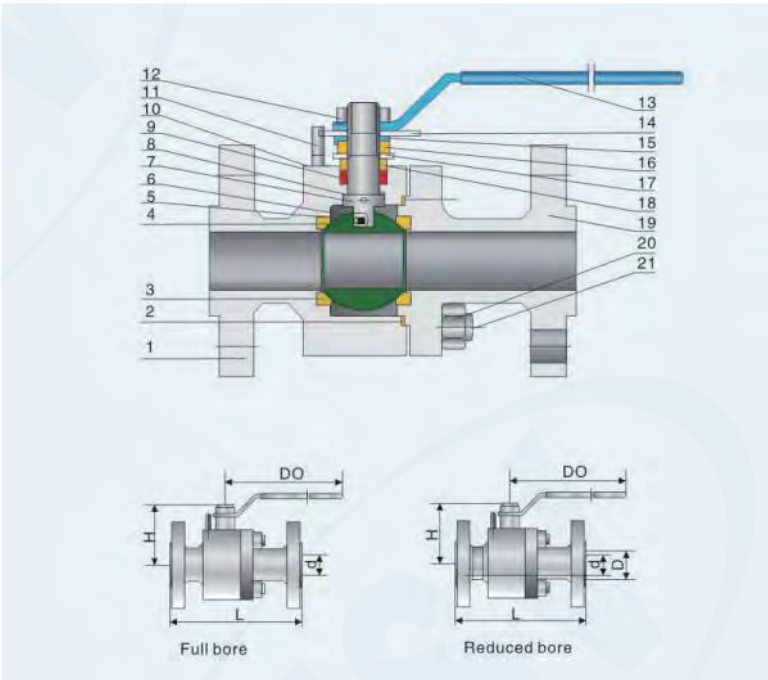
Full bore	NPS(in)	1/2	3/4	1	1-1/2	2	3	4	6	8
	D(mm)	13	19	25	38	51	64	76	102	203
	L(mm)	108	117	127	165	178	203	229	394	457
	H(mm)	61	66	76	95	142	156	181	270	345
	Do(mm)	130	130	160	230	400	400	700	300*	300*
	WT(kg)	2.4	3.3	4.8	8.2	15.6	19.8	32.0	94.0	162.0
Reduced bore	NPS(in)	3/4*1/2	1*3/4	1-1/2*1	2*1-1/2	3*2	4*3	6*4	8*6	10*8
	L(mm)	117	127	165	178	203	229	267	292	330
	D(mm)	19	25	38	63	76	102	152	203	254
	H(mm)	82	85	100	120	153	162	191	290	340
	Do(mm)	130	130	160	230	400	400	460	300*	300*
	d(mm)	13	19	25	51	63	76	105	152	203
	WT(kg)	2.6	4.5	6.0	14.6	19.0	32.5	58.0	117.0	160.0

Class 300/20K

Full bore	NPS(in)	1/2	3/4	1	1-1/2	2	3	4	6	8
	D(mm)	13	19	25	38	51	64	76	102	203
	L(mm)	140	152	165	190	216	282	305	403	419
	H(mm)	62	68	80	100	148	162	188	283	360
	Do(mm)	150	150	180	250	400	400	700	300*	400*
	WT(kg)	3.0	3.5	6.2	11.0	25.0	40.0	57.5	128.0	252.0
Reduced bore	NPS(in)	3/4*1/2	1*3/4	1-1/2*1	2*1-1/2	3*2	4*3	6*4	8*6	--
	L(mm)	152	165	190	216	282	305	403	419	--
	D(mm)	19	25	38	63	76	102	152	203	--
	H(mm)	82	85	100	120	153	162	191	290	--
	Do(mm)	130	130	160	230	400	400	460	300*	--
	d(mm)	13	19	25	50	63	76	102	152	--
WT(kg)	3.5	5.5	10.0	23.5	29.0	55.0	80.0	162.0	--	

Material Lis

No	Parts	Material
1	Body	ASTM A105
2	Gasket	PTFE
3	Seat	R-PTFE
4	Ball	304 S.S.
5	Steel Ball	304 S.S.
6	Anti-static Spring	304 S.S.
7	Stem	ASTM A182 F6a
8	Gasket	PTFE
9	Packing	PTFE
10	Nameplate	SS304
11	Position Pin	ASTM 1045
12	Nut	ASTM A194 Gr. 2H
13	Lever	ASTM A216 Gr.WCB
14	Gauge Block	AISI 1010 Zinc-coated
15	Bushing Gasket	ASTM 1045
16	Nut	ASTM A194 Gr. 2H
17	Gland	304 S.S.
18	Gland Bushing	ASTM A276 410
19	Bonnet	ASTM 1045
20	Nut	ASTM A194 Gr. 2H
21	Stud	ASTM A193 Gr.B7



The body material is also available LF2, A182 F304, F316, F304L, F316L, F51 etc. The trim/seat material can be customized upon request.

Dimensions & Weights

Class 600

Full bore	NPS(in)	1/2	3/4	1	1-1/2	2	3
	L(mm)	165	190	216	241	292	356
	D(mm)	13	19	25	38	51	76
	H(mm)	98	103	122	135	151	177
	Do(mm)	140	140	170	260	300	450
	WT(kg)	3.0	4.8	6.5	12.0	15.0	28.0
Reduced bore	NPS(in)	3/4*1/2	1*3/4	1-1/2*1	2*1-1/2	3*2	--
	L(mm)	190	216	241	292	356	--
	D(mm)	19	25	38	51	76	--
	H(mm)	98	103	122	135	151	--
	Do(mm)	140	140	170	260	300	--
	d(mm)	13	19	25	38	51	--
	WT(kg)	2.8	3.2	5.5	7.1	12.8	--

Class 900

Full bore	NPS(in)	1/2	3/4	1	1-1/2	2	3
	L(mm)	216	229	254	305	368	381
	D(mm)	13	19	25	38	51	76
	H(mm)	115	122	125	157	178	208
	Do(mm)	160	230	230	400	400	500
	(kg)	4.2	9.6	13.8	21.8	39.0	58.0
Reduced bore	NPS(in)	3/4*1/2	1*3/4	1-1/2*1	2*1-1/2	3*2	--
	L(mm)	229	254	305	368	381	--
	D(mm)	19	25	38	51	76	--
	H(mm)	115	122	125	157	178	--
	Do(mm)	160	230	230	400	400	--
	d(mm)	13	19	25	38	51	--
	WT(kg)	5.6	6.8	12.0	16.5	24.0	--

General

Trunnion mounted ball valves are designed in accordance with API 6D for classes ASME Class 150,300,600,900,1500, and 2500. Two-piece split body cast steel and Three-piece forged steel side entry design bolted connections between body and closure, trunnion bolted connection, body thickness comply with ANSI B16.34. Seat ring is floating type, spring loaded to assure the contact with ball in order to provide an effective tight seal even at low differential pressure between cavity and downstream closure. Standard design is soft seated, different soft seat materials are available based on the customer working condition. Available in Full and Reduced Bore. Electrical, pneumatic and hydraulic actuators are available based on customer requirement. Valves have been designed for use with various combinations of materials such as: Carbon Steel, Low Carbon steel, special alloy, stainless steel, Monel, Inconel.

Stem Design/Anti Blowout

The stem is made separately from the ball, anti blow-up design with suitable PTFE and graphite rings, See Fig 1

Anti-Static Device

All flow control-floating flange ball valves include dual grounding systems from stem to ball and stem to body. Valve tested to BS 5351 and BS 5146 was performed for all sizes, and witnessed by a third party inspection company. See fig.1

Emergency sealant injection

Trunnion type ball valves are fitted with emergency seals to restore sealing in case of soft seal damage. See fig.1 and fig.2

Double Block and Bleed

Ball valves can be equipped with drain valve which allows the block and bleed feature when the pressure is simultaneously applied to both sides of the ball, the medium can be relieved through the drain valve. Standard design of trunnion mounted ball valves assure that each seat ring performs the "single piston action"



Top Flange

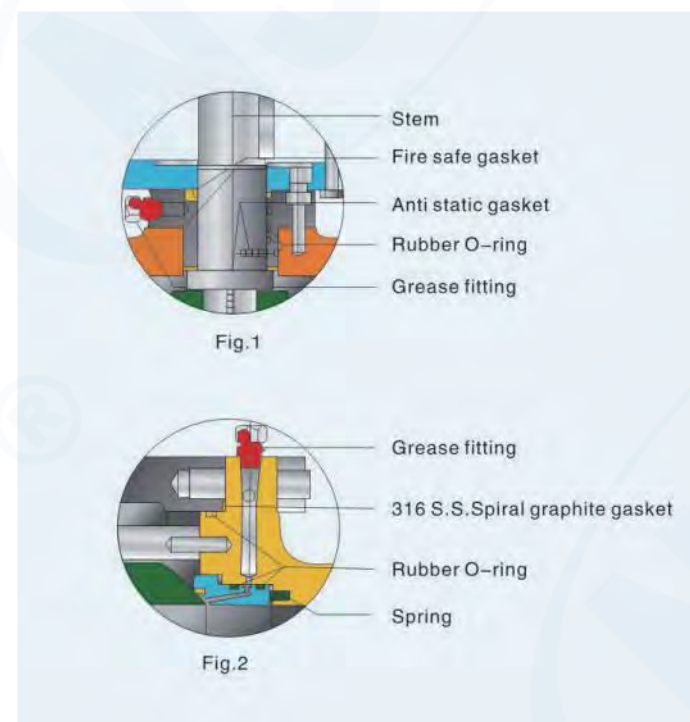
Top flange surface are machined and drilled, ready for mounting actuator.

Fire Safe

All fire-safe valves conform to API 607 and API 6FA standards.

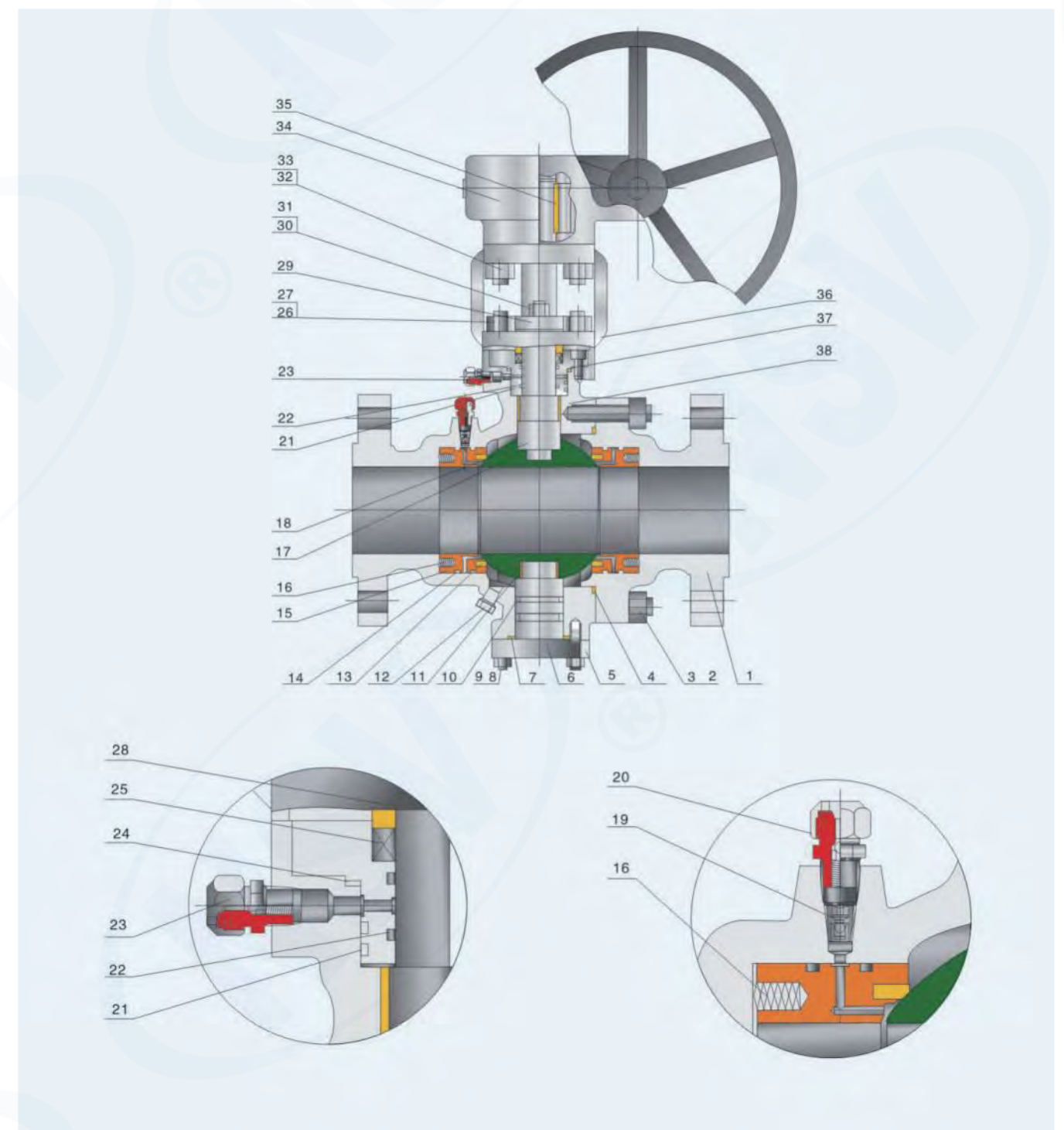
Body Joint Construction

Three pieces body end entry design, graphite ring or o-ring viton (or request) seal ensure absolute seal integrity. The bolted body designs include a tight tolerance overlapping metal fit between the body and the adapter to minimize any possibility of movement due to pipeline stress. High temperature spiral wound stainless steel/graphite filled gasket is used for absolute seal. Body and adaptors are dimensioned for metal contact to ensure correct gasket crush.



Features Two-piece body

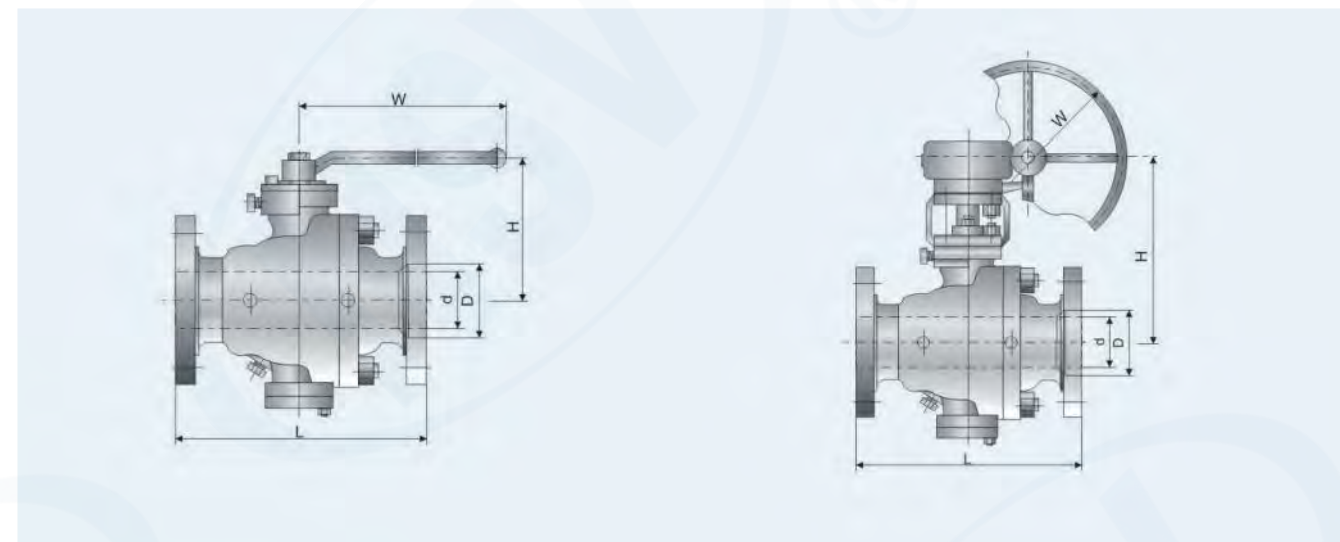
Valve is designed in accordance with the requirements of API 6D for pipeline service. Antistatic and anti blow-out stem design. Seat design gives perfect tightness and is available as either self-relieving type or double piston effect type. Design minimizes friction leading to low operating torque. Available as double block and bleed device, which allows for venting and draining of line fluid from the body cavity. Full and Reduced bore Available. Ball valves fire safe tested according to BS EN 12266-2, API 6FA and API 607. Electric, pneumatic and hydraulic actuators are available based on customer's requirement.



Material Specifications

No	Parts	Standard	Stainless Steel	Sour Service	Low Temperature Service
1	Body	ASTM A216 WCB	ASTM A351 CF8M	ASTM A216 WCB	ASTM A352 LCB
2	Body stud	ASTM A193 B7	ASTM A193 B8	ASTM A193 B7M	ASTM A320 L7M
3	Body Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 2HM	ASTM A194 7M
4	Body Gasket	316ss+Graphite	316ss+Graphite	316ss+Graphite	316ss+Graphite
5	Low Cover	Carbon Steel	S.S.	Carbon Steel	Carbon Steel
6	Trunnion Support	ASTM A216 WCB/ENP	ASTM A216 WCB/ENP	ASTM A216 WCB/ENP	ASTM A216 WCB/ENP
7	Thrust Washer	316+PTFE+MoS2	316+PTFE+MoS2	316+PTFE+MoS2	316+PTFE+MoS2
8	Stud	ASTM A193 B7	ASTM A193 B8	ASTM A193 B7M	ASTM A320 L7M
9	Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 2HM	ASTM A194 2M
10	O-Ring	NBR	NBR	NBR	NBR
11	Bearing	316+PTFE+MoS2	316+PTFE+MoS2	316+PTFE+MoS2	316+PTFE+MoS2
12	Drain Plug	Assembly	Assembly	Assembly	Assembly
13	Seat Insert	25% Glass-filled PTFE	25% Glass-filled PTFE	25% Glass-filled PTFE	25% Glass-filled PTFE
14	O-Ring	NBR	NBR	NBR	NBR
15	Seat	ASTM A105/ENP	ASTM A182 F316	ASTM A105/ENP	ASTM A350 LF2/ENP
16	Seat Spring	Inconel X-750	Inconel X-750	Inconel X-750	Inconel X-750
17	Ball	ASTM A 105/ENP	ASTM A182 F316	ASTM A105/ENP	ASTM A350 LF2/ENP
18	Stem	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316
19	Seat Injection	Assembly	Assembly	Assembly	Assembly
20	Sealant Fitting	Assembly	Assembly	Assembly	Assembly
21	O-Ring	NBR	NBR	NBR	NBR
22	O-Ring	NBR	NBR	NBR	NBR
23	Sealant Fitting	Assembly	Assembly	Assembly	Assembly
24	Gasket	316ss+Graphite	316ss+Graphite	316ss+Graphite	316ss+Graphite
25	Packing	Graphite	Graphite	Graphite	Graphite
26	Stud	ASTM A193 B7	ASTM A193 B8	ASTM A193 B7M	ASTM A320 L7M
27	Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 2HM	ASTM A194 7M
28	Gland	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316
29	Gland Flange	ASTM A216 WCB	ASTM A351 CF8M	ASTM A216 WCB	ASTM A352 LCB
30	Stud	ASTM A193 B7	ASTM A193 B8	ASTM A193 B7M	ASTM A320 L7M
31	Nut	ASTM A 194 2H	ASTM A 194 8	ASTM A 194 2HM	ASTM A 194 7M
32	Stud	ASTM A193 B7	ASTM A193 B8	ASTM A193 B7M	ASTM A320 L7M
33	Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 2HM	ASTM A194 7M
34	Worm	Assembly	Assembly	Assembly	Assembly
35	Key	Carbon Steel	S.S.	Carbon Steel	ASTM A182 F304
36	Yoke	ASTM A216 WCB	ASTM A351 CF8M	ASTM A216 WCB	ASTM A352 LCB
37	Bolt	Carbon Steel	S.S.	Carbon Steel	Carbon Steel
38	Bearing	316+PTFE+MoS2	316+PTFE+MoS2	316+PTFE+MoS2	316+PTFE+MoS2

The body material is also available A351 CF8, CF3,CF3M, duplex stainless steel etc. The trim/seat material can be customized upon request.



Full bore(Class 150/10K)

Size(in)	d(mm)	L(mm)	H(mm)	W(mm)	WT(kg)
2	51	178	165	230	17
3	76	203	193	400	33
4	102	229	231	460	50
6	152	394	390	1000	93
8	203	457	495	*500	166
10	254	533	505	*500	273
12	305	610	560	*500	475
14	337	686	600	*500	570
16	387	762	750	*500	778
18	438	864	845	*500	935
20	489	914	910	*500	1190
22	540	1016	1000	*500	1346
24	591	1067	1065	*500	1579

Full bore(Class 300/20K)

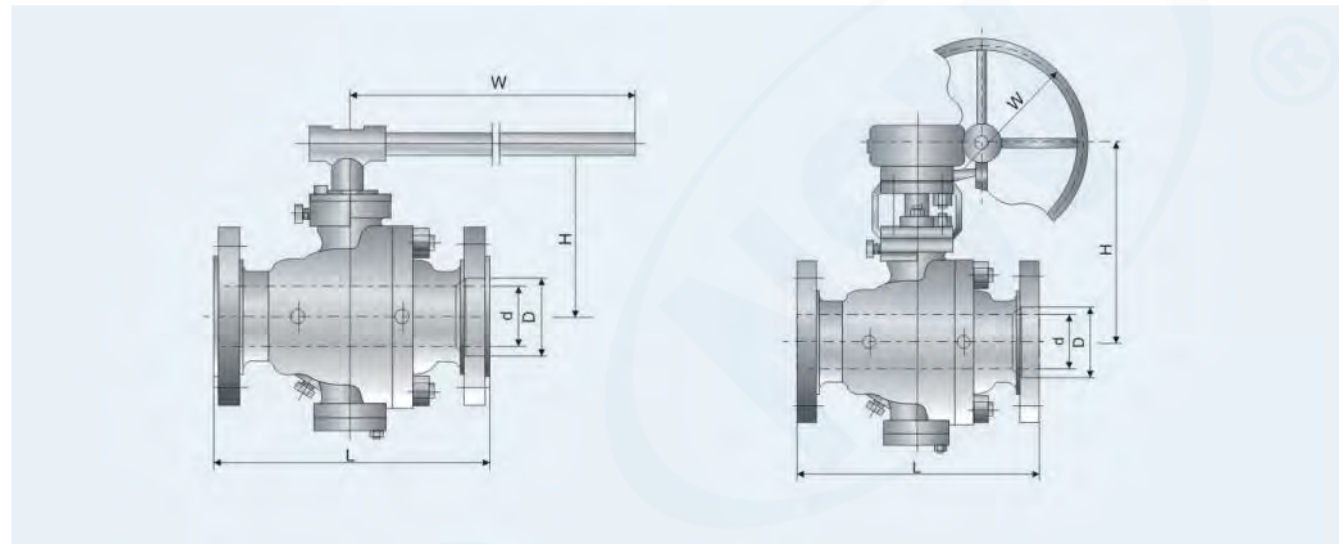
Size(in)	d(mm)	L(mm)	H(mm)	W(mm)	WT(kg)
2	51	216	165	230	18
3	76	283	193	400	40
4	102	305	231	750	63
6	152	403	390	1000	150
8	203	502	495	1500	240
10	254	568	505	*500	305
12	305	648	560	*500	507
14	337	762	600	*500	602
16	387	838	750	*500	1000
18	438	914	845	*500	1160
20	489	991	910	*500	1320
22	540	1092	1000	*500	1540
24	591	1143	1065	*500	1874

Reduce bore(Class 150/10K)

Size(in)	d(mm)	D(mm)	L(mm)	H(mm)	W(mm)	WT(kg)
3 × 2 × 3	51	76	203	165	230	30
4 × 3 × 4	76	102	229	193	400	47
6 × 4 × 6	102	152	394	231	400	90
8 × 6 × 8	152	203	457	390	460	161
10 × 8 × 10	203	254	533	495	1000	268
12 × 10 × 12	254	305	610	505	*500	467
14 × 12 × 14	305	337	686	560	*500	560
16 × 14 × 16	337	387	762	600	*500	766
18 × 16 × 18	387	438	864	750	*500	902
20 × 18 × 20	438	489	914	845	*500	1130
22 × 20 × 22	489	540	1016	910	*500	1300
24 × 22 × 24	540	591	1067	1000	*500	1520

Reduce bore(Class 300/20K)

Size(in)	d(mm)	D(mm)	L(mm)	H(mm)	W(mm)	WT(kg)
3 × 2 × 3	51	76	283	165	230	38
4 × 3 × 4	76	102	305	193	400	60
6 × 4 × 6	102	152	403	231	750	147
8 × 6 × 8	152	203	502	390	1000	234
10 × 8 × 10	203	254	568	495	1500	295
12 × 10 × 12	254	305	648	505	*500	488
14 × 12 × 14	305	337	762	560	*500	570
16 × 14 × 16	337	387	838	600	*500	910
18 × 16 × 18	387	438	914	750	*500	1020
20 × 18 × 20	438	489	991	845	*500	1280
22 × 20 × 22	489	540	1092	910	*500	1360
24 × 22 × 24	540	591	1143	1000	*500	1670



■ Full bore(Class 600)

Size(in)	d(mm)	L(mm)	H(mm)	W(mm)	WT(kg)
2	51	292	176	400	27
3	76	356	247	750	50
4	102	432	335	1000	80
6	152	559	420	1500	220
8	203	660	430	*500	350
10	254	787	520	*500	600
12	305	838	665	*500	820
14	337	889	720	*500	1130
16	387	991	780	*500	1550
18	438	1092	950	*500	2100
20	489	1194	1010	*500	2800
24	591	1397	1120	*500	3626

■ Reduce bore(Class 600)

Size(in)	d(mm)	D(mm)	L(mm)	H(mm)	W(mm)	WT(kg)
3 × 2 × 3	51	76	356	176	400	41
4 × 3 × 4	76	102	432	247	750	70
6 × 4 × 6	102	152	559	335	1000	122
8 × 6 × 8	152	203	660	420	1500	255
10 × 8 × 10	203	254	787	430	*500	440
12 × 10 × 12	254	305	838	520	*500	662
14 × 12 × 14	305	337	889	665	*500	1060
16 × 14 × 16	337	387	991	720	*500	1440
18 × 16 × 18	387	438	1092	780	*500	1860
20 × 18 × 20	438	489	1194	950	*500	2400
24 × 22 × 24	489	591	1397	1010	*500	3240

■ Full bore(Class 900)

Size(in.)	d(mm)	L(mm)	H(mm)	W(mm)	WT(kg)
2	51	368	192	460	52
3	76	381	279	1000	97
4	102	457	355	1500	138
6	152	610	385	*500	288
8	203	737	460	*500	448
10	254	838	600	*500	748
12	305	965	690	*500	1018
14	324	1029	785	*500	1398
16	375	1130	850	*500	1828
18	426	1219	915	*500	2328
20	473	1321	975	*610	2928
24	572	1549	1030	*610	4178

■ Reduce bore(Class 900)

Size(in)	d(mm)	D(mm)	L(mm)	H(mm)	W(mm)	WT(kg)
3 × 2 × 3	51	76	381	192	460	83
4 × 3 × 4	76	102	457	279	1000	103
6 × 4 × 6	102	152	610	355	1500	201
8 × 6 × 8	152	203	737	385	*500	348
10 × 8 × 10	203	254	838	460	*500	598
12 × 10 × 12	254	305	965	600	*500	788
14 × 12 × 14	305	324	1029	690	*500	1100
16 × 14 × 16	324	375	1130	785	*500	1420
18 × 16 × 18	375	426	1219	850	*500	1928
20 × 18 × 20	426	473	1321	915	*500	2428
24 × 22 × 24	473	572	1549	975	610	3578

■ Features Three-piece body

Valve is designed in accordance with the requirements of API 6D for pipeline service.
 Antistatic and anti blow-out stem design.
 Seat design gives perfect tightness and is available as either self-relieving type or double piston effect type.
 Design minimizes friction leading to low operating torque.
 Available as double block and bleed device, which allows for venting and draining of ling fluid from the body cavity.
 Full and Reduced bore Available.
 Ball valves fire safe tested according to BS EN 12266-2, API 6FA and API 607.
 Electric, pneumatic and hydraulic actuators are available based on customer's requirement.

