



Your Partner of Flow Control System

ASME B16.34

Trunnion Mounted Ball Valve

www.ydfvalve.com

Your Partner of Flow Control System

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YDF Reserves the right to change design, materials or specifications without prior notice and free of obligation to provide or install such changes on products sold previously.





YDF's Facilities

YDF sales headquarter is located in Shanghai, China, and YDF Valves are manufactured in 3 specialized manufacturing plants located in Yancheng City, Jiangsu Province, China , and 2 professional casting foundries located in Binhai City, Jiangsu Province, China. We have a total of 916 employees and 100,000 meter square cover area. YDF has a specialized quality testing center, CNC machine center and places high emphasis on numerous quality testing to ensure our customers receive the highest quality product possible. ERP system bring the real time production to high efficiency. In-house testing capacities include high pressure gas, cryogenic, high temperature, fugitive emission testing etc.

Quality Assurance

YDF's quality assurance is dedicated to supply zero defect valves to customers with reliable service life. Through our quality compliance, we have achieved the following certifications: ISO9001, ISO14001, OASHS18001, CE/PED, ATEX, API 591, API6D, API 624, ABS ,TS and API607/6FA. In years to come, we at YDF will continue to build qualified products that meet and exceed our customers' satisfaction.

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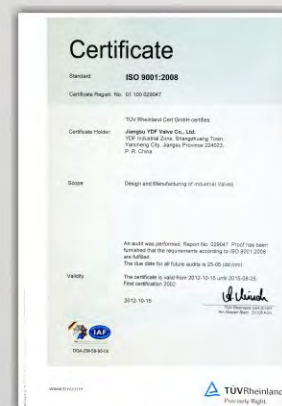
API 6D



CE



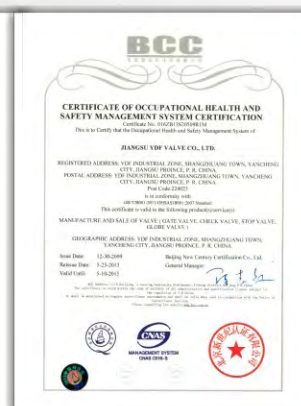
API 607



ISO 9001



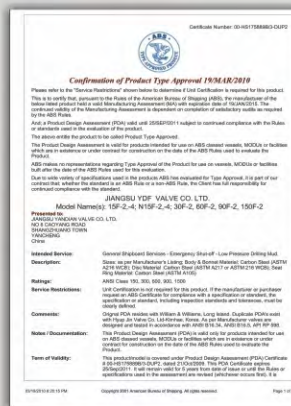
ISO 14001



OHSAS 18001



API 600



ABS



15848

YDF VALVES was established in year 1978, as one of the leading valve manufacturers in China, YDF is specialized in the development of innovative design, through intensive R&D programs and a commitment to be a good partner of flow control system.

YDF's main product lines include Ball, Gate, Globe, Check, Butterfly and Power Station valves. These products have been widely used throughout the world in Oil, Gas, Chemical, Refining, Power Generation, Marine and Pipeline Transmission industrial application.



MATERIAL

Casting quality is the key of valve quality.
YDF realized this from the beginning.
YDF has it's own foundry, with capacity:
Investment casting:1000T/month
Sand casting:800T/month
Material cover, carbon steel, stainless steel,
alloy steel, and other special material.
Strict Solution Treatment For Stainless Steel.
-196° impact Testing.
Radiographic Examination.
Micro structure Examination.

ADVANCED MANUFACTURING

Numeric control machines are widely equipped in YDF factories, like machining center, CNC horizontal and vertical lathe, CNC drilling machine.

A number of traditional machines are also widely applied and our machining capacity is up to 60" gate valve.

Our advanced and ample machining will make sure stable quality and on time delivery.

Utilize three coordinate measurement equipment to measure the machined parts strictly.

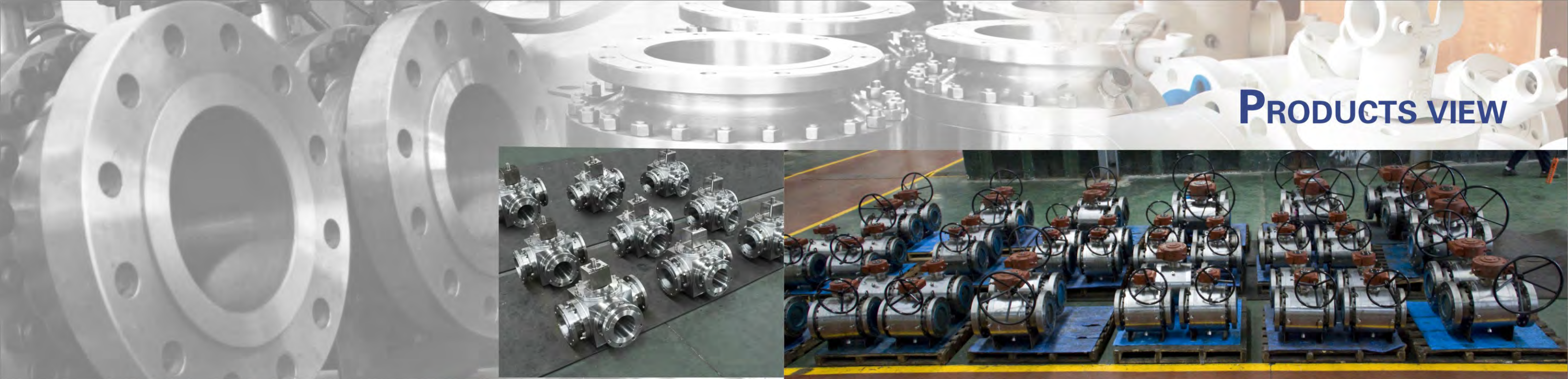


QUALITY CONTROL

YDF has strict quality control system to control the quality from the rough material to the final product. advanced testing equipment enable us to do radio graphic test, ultra-sonic test, dye-penetrant test, magnetic test, impact test, tensile test, hardness test, positive material identification (PMI), etc.

A newly built valve laboratory enable us to do cryogenic test, vacuum test, low fugitive emission test, high pressure gas test, high temperature test.





Standard

Ball valve standards are design to ensure interchangeability and reasonable functioning of the valve.The adaption of standards guarantees not only the performance of product but also the continuity of supply,conformance to quality norms,and the incorporation of all product improvement.YDF ball valves

conform to the latest edition of the following standard specifications as to face to face dimensions,presure ratings,materials of construction,design dimensions for some valve components to ensure adequate strength and procedures for the testing of ball valves.

ASME Section VIII,Div.1	Rules for construction of pressure vessels
ASME Section VIII,Div.2	Alternativ rules for construction of pressure vessels
ASME Section V	Nondestructive examination
BSI-BS 4504	Circular flange for pipe valve and fittings
BSI-BS 5146	inspection and test of valve
BSI-BS EN 558	industrial valves
MSS-SP-6	Standard finishes for contact face of pipe flanges
MSS-SP-55	Quality standard for steel casting for valves flange and fitting and other piping components
NACE-MR0175	sulfide stress cracking resistant material for Oilfield Equipiment
ISO-14313	Petroleum and natural gas industries-pipeline transportation systems-pipe valves
ISO-5208	Industrial valves-pressure testing of valve
ISO-5211	Industrial valves-part turn actuator attachmen
ISO-7172	Flanged steel ball valve
ISO-15848	Emission measurements of industrial valves

API 6D	Specifiation for pipeline valve
API 6FA	Fire test for valve
API 598	Valve inspection and testing
API 608	Metal ball valve flanged threaded and welding end
ASME B16.5	Pipe flanged and flanged fittings
ASME B16.25	Butt Welding Ends
ASME B16.10	Face to face and end to end dimension of valve
ASME B16.34	valve-flanged threaded and welding end

RELIEF SYSTEM

Automatically release pressure in the chamber

When the valve seat in the chamber pressure is less than the spring preload and medium pressure pipeline, according to the pressure, the media and to promote seat close contact with the ball to ensure

a reliable seal; Conversely, when the valve cavity pressure is greater than a pre-spring seat when tight power and media pressure pipelines, the chamber pressure slightly open seat, it generates a tiny gap with the ball, so that the pressure in the chamber overload automatically released into the pipeline. Again reach the valve chamber and the pipe (upstream and downstream) pressure balance.



HOW TO ORDER

12 TF 3 R G A105N / 43111

12

VALVE SIZE

Full Bore

in	2	2 1/2	3	3 1/2	4	5	6	8	10	12	14
mm	50	65	80	90	100	125	150	200	250	300	350

in	16	18	20	22	24	26	28	30	32	34	36
mm	400	450	500	550	600	650	700	750	800	850	900

in	38	40	42	44	48	52	54	56	60
mm	950	1000	1050	1100	1200	1300	1350	1400	1500

Reduced Bore

in	2x1 1/2	2 1/2x2	3x2	4x3	6x4	8x6	10x8	12x10	14x10	16x12	18x14
mm	50x40	65x50	80x50	100x80	150x100	200x150	250x200	300x250	350x250	400x300	450x350

in	20x16	22x18	24x20	26x24	28x24	30x24	32x30	34x30	38x32	40x36	48x40
mm	500x400	550x450	600x500	650x600	700x600	750x600	800x750	850x750	950x800	1000x900	1200x1000

TF

VALVE TYPE

Symbol	Valve type	Symbol	Valve type	Symbol	Valve type
TC	Trunnion mounted type, 2PCS Split body, cast steel	TD	Trunnion mounted type, 3PCS Split body, cast steel	TT	Trunnion mounted type, top entry, cast steel
TF	Trunnion mounted type, 2/3PCS Split body, forged steel	TM	Trunnion mounted type, metal seated	TFW	Trunnion mounted full welded ball valve

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VALVE CLASS

Class	150	300	600	900	1500	2500
Code	1	3	6	9	15	25

R

END CONNECTIONS

End	Raised face flanged	RTJ flanged	Flat face flanged	Butt-weld
Symbol	R	J	F	B

G

OPERATOR

Symbol	Description	Symbol	Description	Symbol	Description	Symbol	Description
/	Lever	M	Electric actuator	BS	Bare shaft	L	Gas over oil actuator
G	Gear operator	P	Pneumatic actuator	H	Hydraulic actuator		

A105N

BODY MATERIALS

Body Materials	Cast Material	Forged Material	Application
Carbon Steel	A216 WCB	A105N	Steans,water oil,oil vapair,gas and general service
Carbon Steel	A352 LCB	A350 LF2	low temperture
Carbon Steel	A352 LCC	A350 LF2	low temperture
Duplex Stainless Steel	A995 4A	A182 F51	corrosion resistance
Duplex Stainless Steel	A995 5A	A182 F53	corrosion resistance
Stainless Stell	A351 CF8M	A182 F316	High and low temperature corrosion resistance cryogenic service is also available upon request
Stainless Stell	A351 CF8	A182 F304	
Low Carbon Stainless Steel	A351 CF3M	A182 F316L	
Low Carbon Stainless Steel	A351 CF3	A182 F304L	Corrosion resistance
Nickel Alloy Steel	A351 CN7M	Alloy20	

43111

TRIM MATERIALS

Seat Insert		O Ring		Stem		Ball		Seat Ring	
Code	Material	Code	Material	Code	Material	Code	Material	Code	Material
1	PTFE	1	NBR	1	A105N+ENP	1	A105N+ENP	1	A105N+ENP
2	RPTFE (15% Glass)	2	VITON A	2	LF2+ENP	2	LF2+ENP	2	LF2+ENP
3	RPTFE (15% Carbon)	3	VITON AED	3	410 F6a	3	410 F6a	3	410 F6a
4	NYLON PA12	4	VITON B	4	17-4PH	4	17-4PH	4	17-4PH
5	NYLON 1010	5	HNBR	5	Ss304 F304	5	Ss304 F304	5	Ss304 F304
6	DEVLON 5	6	ELAT-O-LION 101	6	F304L	6	F304L	6	F304L
7	DELFIN	7	PTFE Coated VITON	7	SS316	7	SS316	7	SS316
8	PEEK	8	VITON GLT	8	F316L	8	F316L	8	F316L
9	VITON	9	LIPSEAL	9	F51	9	F51	9	F51

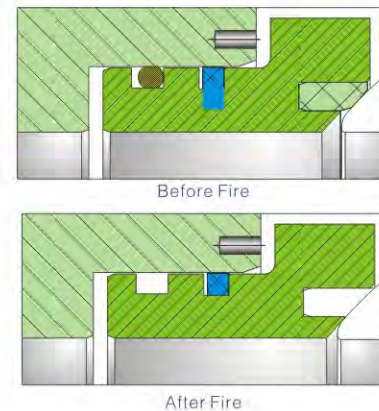
HOW TO ORDER

DESIGN FEATURES

FIRE SAFE DESIGN

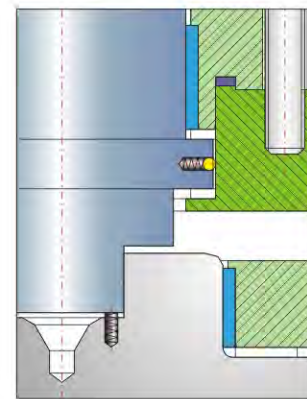
In the event of a fire, all non-metallic materials like PTFE seats, rubber O-Ring, will be burned out in fire, YDF trunnion mounted ball valve has special design with a secondary metal to metal seal, plus flexible graphite seal instead of O-Ring, make sure the valve inner leak and body leak are under control in fire.

Fire safe certificate: API 607, API 6FA.



BLOW-OUT PROOF STEM DESIGN

The stem is designed to T slot shape at the bottom, and the gland flange will prevent the stem blowing out in case of suddenly increase pressure from middle cave.

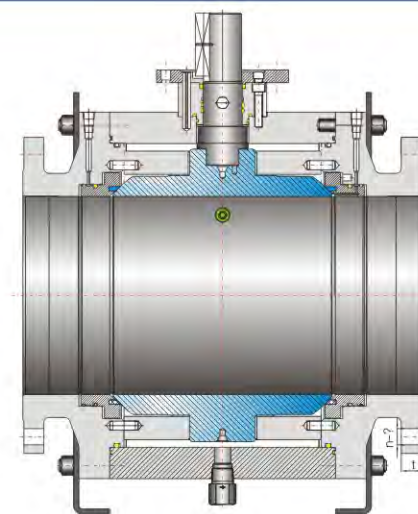
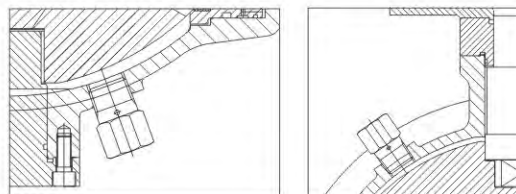


ANTI-STATIC DEVICE

The electrical conductance continuity between all the metallic components is guaranteed and certified. Avoid any fire or explosion causing by static that might produced from friction between ball and seats when the valve move to open or close.

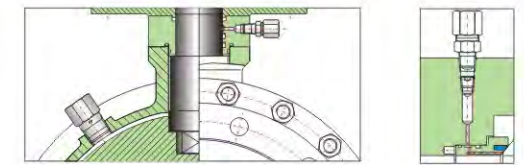
DBB (Double Block & Bleed)

YDF trunnion mounted ball valve can cut the flow pressure from both upper stream and down stream, to achieve double block function. When the ball is fully open and fully closed position, even if the valve is under media pressure from both ends, the center cavity and pipe are blocked; the remaining medium in the cavity can be discharged through the drain valve.



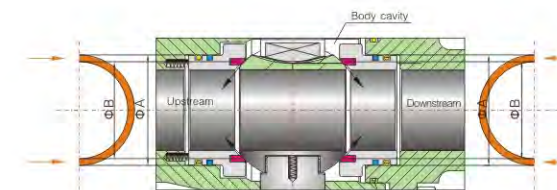
EMERGENCY SEALANT INJECTION DEVICE

According to users' requirements, YDF trunnion mounted ball valve has emergency sealant injection design, when the valve seats or O-Ring accidentally damaged, can inject emergency sealant into seat and stem position, to prevent leakage happen from those two areas.

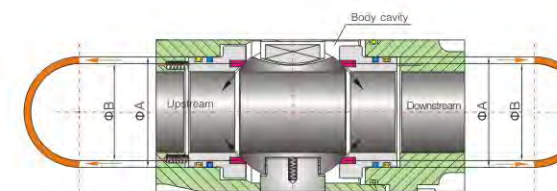


SINGLE PISTON EFFECT (SPE)

When single-piston effected, pressure from the upstream and downstream push the seats to the ball, once the pressure in the cavity exceeds spring preload and media pressure, the seat will be pushed away from the ball by the pressure in the cavity. Thus the over load pressure in the cavity will be automatically released when the valve at fully open or fully closed position.



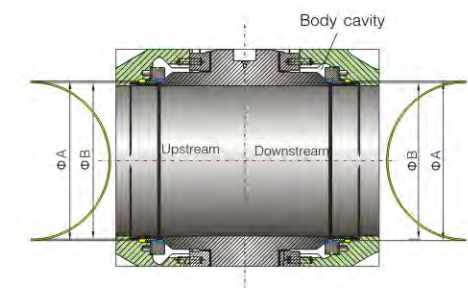
When the medium in the upstream or downstream of the valve, since $\Phi A > \Phi B$, the pressure differential makes the medium push the seats to the ball, to achieve a reliable seal.



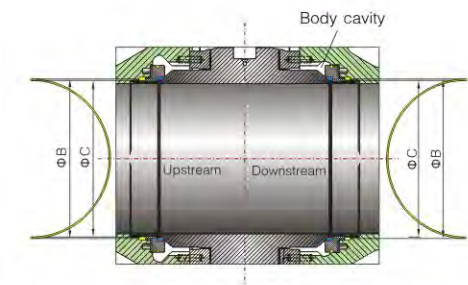
When the pressure in the cavity is too high, because $\Phi A > \Phi B$, the pressure differential will make the cavity medium push the seats away from the ball, and automatically relieve the over load pressure in the cavity.

DOUBLE PISTON EFFECT-EPE (optional)

When double piston effected, the pressure from upstream and downstream always push the seats toward the ball, and always keep a sealed state. DPE Ball Valve does not have the automatic pressure relief function, so the DPE Ball Valve will need to install automatic pressure relief device on the body, when the cavity pressure is too high, overloaded pressure can be released through the automatic pressure relief device. DPE seats are also bidirectional sealing.



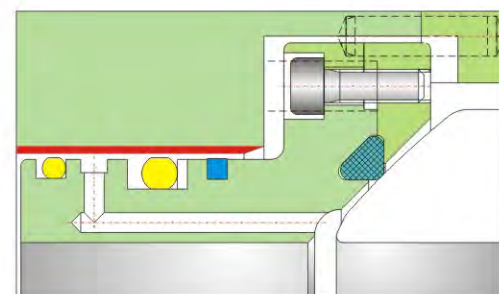
When the medium in the upstream or downstream of the valve, since $\Phi A > \Phi B$, the pressure differential makes the medium push the seats to the ball, to achieve a reliable seal.



When the medium pressure in the valve cavity is too high, because of the $\Phi B > \Phi C$, the pressure differential will push the seats toward the ball surface, pressure in the cavity cannot bleed. In this case, an auto-relief valve needed to be installed in the valve body. When the cavity pressure exceeds 1.25–1.33 times of the capacity pressure, the auto-relief valve will automatically discharge the cavity pressure.

FULLY WELDED BALL VALVE

- Fully welded body structure to make sure no body leakage on pipeline;
- Spring preload seat design, even under low pressure condition the valve can also ensure timely seal;
- VITON AED delta ring seat seal is resilient seat design.

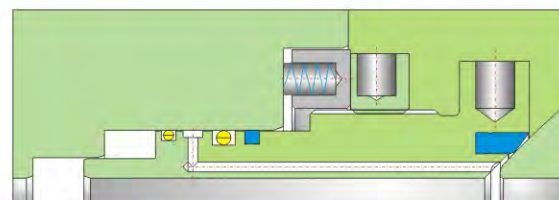


TOP ENTRY BALL VALVE

YDF top entry ball valve, mainly used for industrial pipe system. Features are: online maintenance; lower fluid resistance; small installation volume needed; light weight; reliable sealing; convenience for operating and maintenance.

- Once piece body structure to provide better strength and bending rigidity.
- Top Entry ball structure to provide online maintenance feature, and save installation volume.
- Special machining technique to ball and stem to provide lower operating torque.

YDF Top Entry Ball Valve also has other feature as YDF trunnion

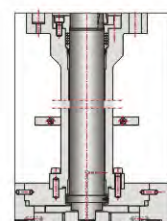
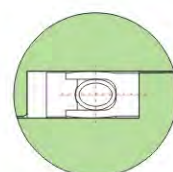
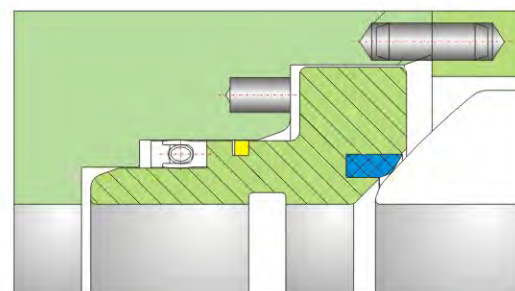


mounted ball valve:

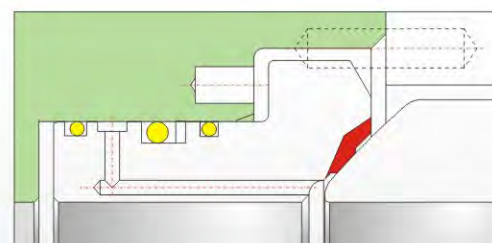
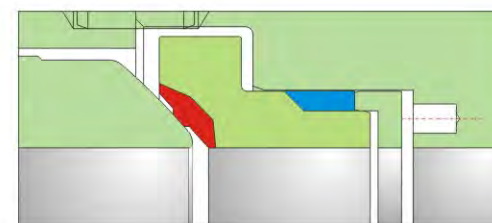
- Reliable sealing
- Emergency Sealant Injection
- Double Block & Bleed
- Fire Safe Design
- Anti-Static Design
- Top Connection to ISO 5211

CRYOGENIC VALVES

- full bore or reduced bore design;
- Lip-seal design. To ensure valve seals reliable, YDF valve Cryogenic Valve has a high-performance LIP-SEAL seals, while optimizing the seat structure design and reasonable material configured so that the valve can withstand the harsh cryogenic cold conditions test (increased stem diameter makes the valve operating safely, ensure the valve stem is not bended, the unique automatic overpressure relief features designed to maximize the reliability of the valve to meet the requirements of low-temperature conditions) ;
- Extended bonnet structure to prevent the packing from cold media, and also protect the stem against friction;
- Height adjustable drip plate structure, makes the cold space unrestricted.



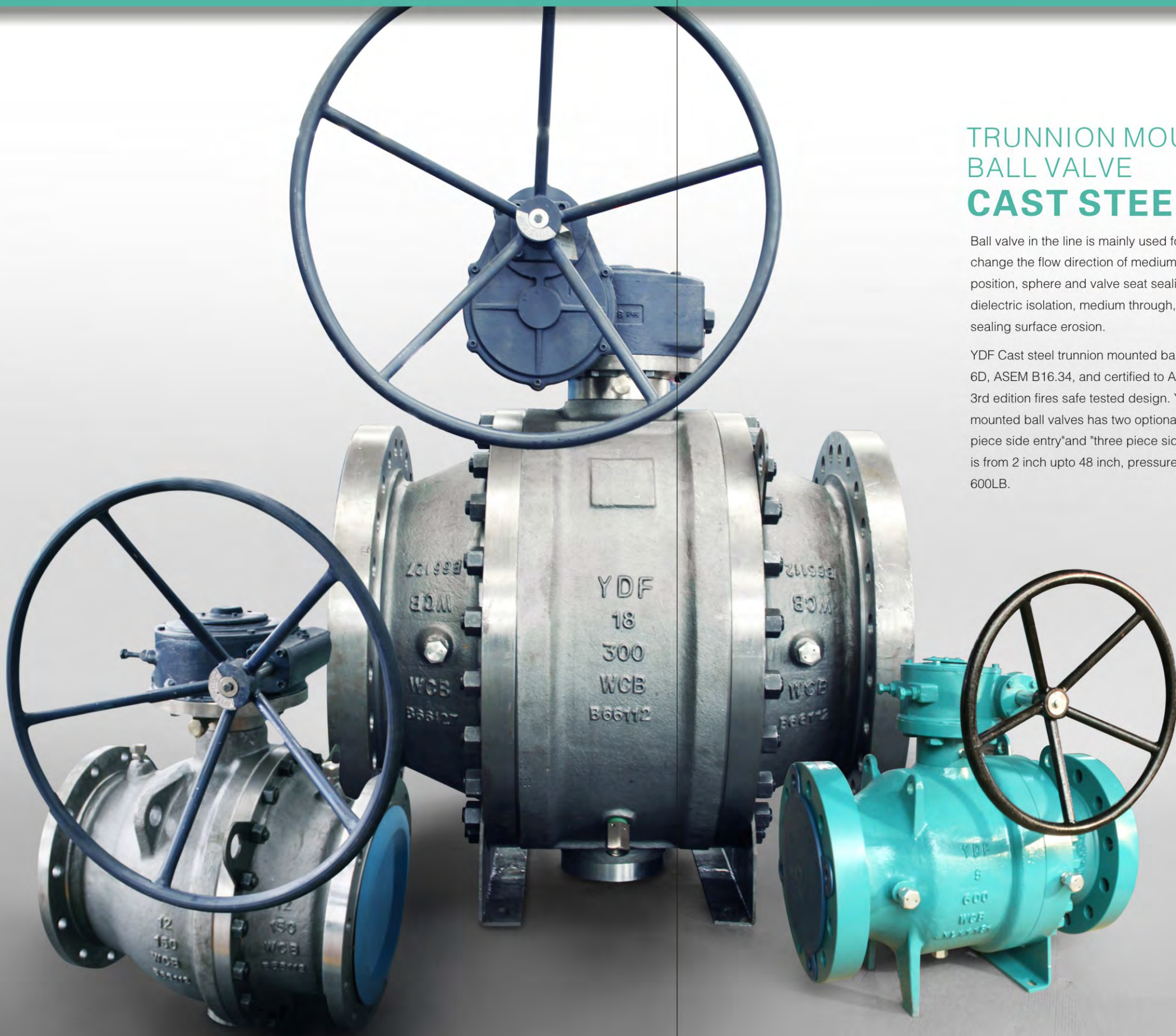
METAL SEATED BALL VALVES



YDF metal-to-metal seal ball valve, has reliable seal at various temperatures and pressures for different users requirements and working conditions, variety of advanced sphere and seat hardening techniques used to YDF metal seated ball valve, including supersonic spray, nickel-based spray, special surface hardening, carbide spray and the use of ceramic materials such as high strength and hardness, surface hardness of the ball and seat can reach HRC60 or more generally, the maximum reach HRC74 or more. High temperature sealing surface material generally up to 541°C, maximum up to 980°C. The combined strength of the material can be achieved 10000PSI. Sealing surface material also has good abrasion resistance, impact resistance and other properties.

Unique ball grinding process, through the ball and grinding apparatus in different spatial orientation of the rotation, so that the surface of the ball to achieve high roundness and smoothness, the valve sealing performance fully meet or exceed standards.





TRUNNION MOUNTED BALL VALVE CAST STEEL

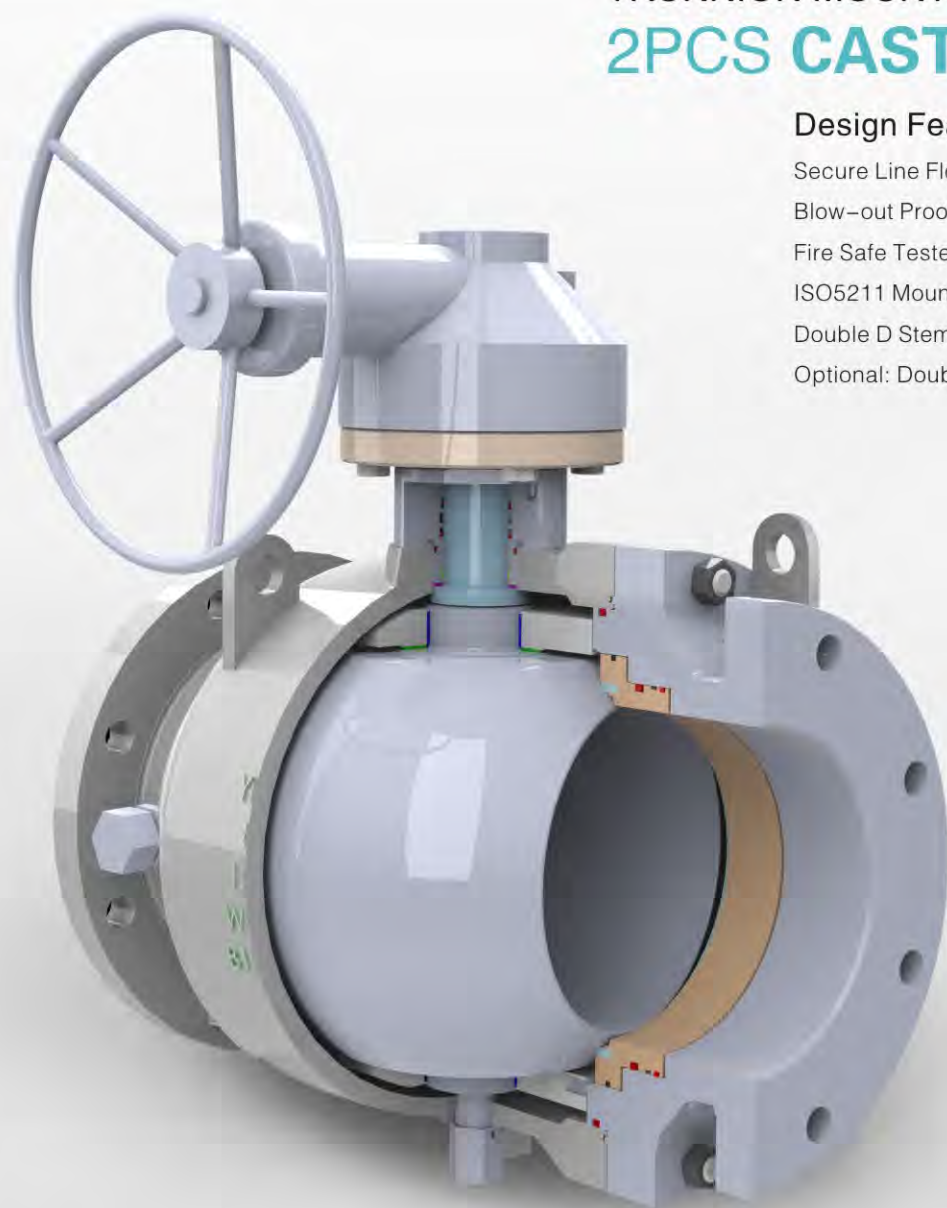
Ball valve in the line is mainly used for cutting, distribution, and change the flow direction of medium. In full open or full close position, sphere and valve seat sealing surface and the dielectric isolation, medium through, does not cause the valve sealing surface erosion.

YDF Cast steel trunnion mounted ball valves are designed to API 6D, ASEM B16.34, and certified to API 607 sixth edition, API 6FA 3rd edition fires safe tested design. YDF cast steel trunnion mounted ball valves has two optional sturcture design " two piece side entry"and "three piece side entry ", and the size range is from 2 inch upto 48 inch, pressure rating is from 150LB upto 600LB.

TRUNNION MOUNTED BALL VALVE 2PCS CAST STEEL

Design Features

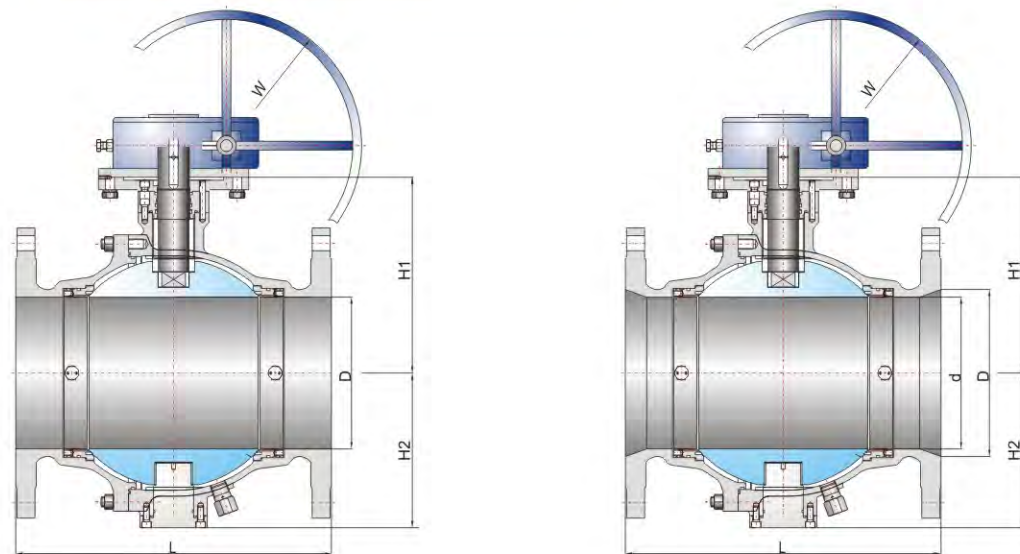
Secure Line Flow Locking Device
Blow-out Proof Stem
Fire Safe Tested Design
ISO5211 Mount Pad
Double D Stem Head
Optional: Double Piston Seat Ring



Part	Standard	Staninless Steel	Low Temperature	Sour Service
Body	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCB	ASTM A216 WCB
Closure	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCB	ASTM A216 WCB
Ball	ASTM A105N+ENP	ASTM A182 F316	ASTM A350 LF2+ENP	ASTM A105N+ENP
Stem	ASTM A105N+ENP	ASTM A182 F316	ASTM A350 LF2+ENP	ASTM A105N+ENP
Seat Ring	ASTM A105N+ENP	ASTM A182 F316	ASTM A350 LF2+ENP	ASTM A105N+ENP
Seat Insert	PTFE	PTFE	PTFE	PTFE
O-Ring	VITON A	VITON A	VITON A	VITON A
Fire Safe Seal	Graphite	Graphite	Graphite	Graphite
Grounding Spring	SS316	SS316	SS316	SS316
Lower Trunnion/ Trunnion Support	ASTM A105N+ENP	ASTM A182 F316	ASTM A350 LF2+ENP	ASTM A105N+ENP
Gland Cap	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A105N
Gasket	SS+Graphite	SS+Graphite	SS+Graphite	SS+Graphite
Bearing	SS+PTFE	SS+PTFE	SS+PTFE	SS+PTFE
Spring	Inconel X-750	Inconel X-750	Inconel X-750	Inconel X-750
Fire Safe Gasket	Graphite	Graphite	Graphite	Graphite
Screw	ASTM A193 B7	ASTM A193 B8	ASTM A320 L7	ASTM A193 B7M
Top Flange	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A105N
Key	Carbon Steel	Stainless Steel	Stainless Steel	Carbon Steel
Injection	SS 304	SS 316	SS 304	SS 304
Drain Valve	SS304	SS316	SS 304	SS 304
Vent Valve	SS304	SS316	SS 304	SS 304
Operator	Assembly	Assembly	Assembly	Assembly
Pin	Carbon Steel	Stainless Steel	Stainless Steel	Carbon Steel

TRUNNION MOUNTED BALL VALVE 2PCS CAST STEEL

150LB
Dimensions and Weight



Full Port

Reduced Port

Full Port

Size		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	7.01	178	7.87	200	4.33	110	10.43	265	46.3	21
3	80	2.99	76	7.99	203	11.81	300	4.96	126	11.22	285	70.6	32
4	100	4.02	102	9.02	229	12.40	315	6.50	165	11.22	285	110.2	50
6	150	5.98	152	15.51	394	13.19	335	6.50	165	11.81	*300	361.6	164
8	200	7.99	203	17.99	457	15.94	405	7.87	200	11.81	*300	760.6	345
10	250	10.00	254	21.02	534	16.81	427	8.66	220	11.81	*300	970.0	440
12	300	12.01	305	24.02	610	18.31	465	10.31	262	19.69	*500	1272.1	577
14	350	13.27	337	27.01	686	19.92	506	11.54	293	23.62	*600	1893.7	859
16	400	15.24	387	30.00	762	24.49	622	13.43	341	23.62	*600	2522.1	1144

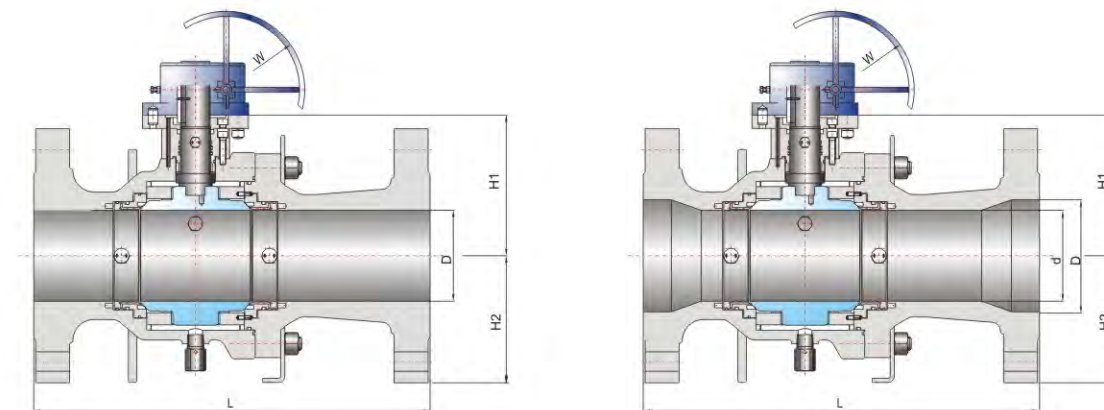
Reduced Port

Size		d		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3*2	80*50	2.01	51	2.99	76	7.99	203	7.87	200	4.33	110	10.43	265	58.4	27
4*3	100*80	2.99	76	4.02	102	9.02	229	11.81	300	4.96	126	11.22	285	88.2	40
6*4	150*100	4.02	102	5.98	152	15.51	394	12.40	315	6.50	165	11.22	285	149.9	68
8*6	200*150	5.98	152	7.99	203	17.99	457	13.19	335	6.69	170	11.81	*300	390.2	177
10*8	250*200	7.99	203	10.00	254	21.02	534	15.94	405	7.87	200	11.81	*300	676.8	307
12*10	300*250	10.00	254	12.01	305	24.02	610	16.81	427	8.66	220	11.81	*300	1122.1	509
14*10	350*250	12.01	305	13.27	337	27.01	686	16.81	427	8.66	220	11.81	*300	1591.7	722
16*12	400*300	13.27	337	15.24	387	30.00	762	18.31	465	10.31	262	19.69	*500	2138.5	970
18*14	450*350	15.24	387	17.24	438	34.02	864	19.92	506	11.54	293	23.62	*600	28461.0	1291

* Gear box

TRUNNION MOUNTED BALL VALVE 2PCS CAST STEEL

300LB
Dimensions and Weight



Full Port

Reduced Port

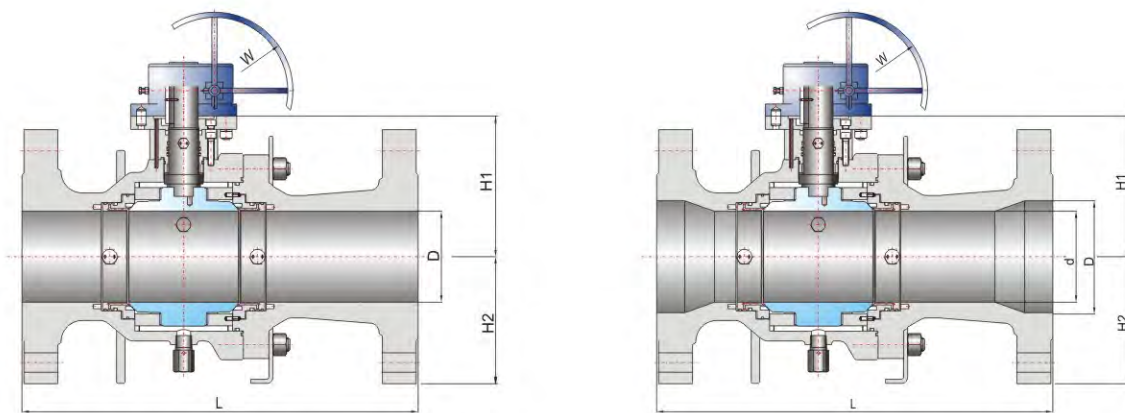
Full Port

Size		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	8.50	216	8.11	206	4.45	113	10.43	265	55.1	25
3	80	2.99	76	11.14	283	12.40	315	5.08	129	15.75	400	101.4	46
4	100	4.02	102	12.01	305	12.99	330	6.65	169	29.53	750	169.8	77
6	150	5.98	152	15.87	403	13.58	345	5.83	148	11.81	*300	377.0	171
8	200	7.99	203	19.76	502	16.34	415	7.28	185	11.81	*300	709.9	322
10	250	10.00	254	22.36	568	16.81	427	8.90	226	15.75	*400	1190.5	540
12	300	12.01	305	25.51	648	18.31	465	10.59	269	19.69	*500	1682.1	763
14	350	13.27	337	30.00	762	20.43	519	11.81	300	23.62	*600	2149.5	975
16	400	15.24	387	32.99	838	25.12	638	13.78	350	23.62	*600	3086.4	1400

Reduced Port

Size		d		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3*2	80*50	2.01	51	2.99	76	11.14	283	8.11	206	4.45	113	10.43	265	79.4	36
4*3	100*80	2.99	76	4.02	102	12.01	305	12.40	315	5.08	129	15.75	400	121.3	55
6*4	150*100	4.02	102	5.98	152	15.87	403	12.99	330	6.65	169	29.53	750	246.9	112
8*6	200*150	5.98	152	7.99	203	19.76	502	13.58	345	5.83	148	11.81	*300	489.4	222
10*8	250*200	7.99	203	10.00	254	22.36	568	16.34	415	7.28	185	11.81	*300	839.4	381
12*10	300*250	10.00	254	12.01	305	25.51	648	16.81	427	8.90	226	19.69	*500	1278.7	580
14*10	350*250	12.01	305	13.27	337	30.00	762	16.81	427	8.90	226	19.69	*500	2028.2	920
16*12	400*300	13.27	337	15.24	387	32.99	838	18.31	465	10.59	269	23.62	*600	2314.8	1050
18*14	450*350	15.24	387	17.24	438	35.98	914	20.43	519	11.81	300	23.62	*600	3373.0	1530

* Gear box



Full Port

Size		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	11.50	292	8.11	206	4.45	113	15.75	400	72.8	33
3	80	2.99	76	14.02	356	12.40	315	5.08	129	29.53	750	141.1	64
4	100	4.02	102	17.01	432	12.99	330	6.65	169	39.37	1000	257.9	117
6	150	5.98	152	22.01	559	13.58	345	5.83	148	11.81	*300	628.3	285
8	200	7.99	203	25.98	660	16.34	415	7.28	185	11.81	*300	996.5	452
10	250	10.00	254	30.98	787	16.81	427	8.90	226	19.69	*500	1622.6	736
12	300	12.01	305	32.99	838	18.31	465	10.59	269	23.62	*600	2204.6	1000
14	350	13.27	337	35.00	889	20.43	519	11.81	300	23.62	*600	2929.9	1329
16	400	15.24	387	39.02	991	25.12	638	13.78	350	23.62	*600	3813.9	1730

Reduced Port

Size		d		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3*2	80*50	2.01	51	2.99	76	14.20	356	8.11	206	4.45	113	15.75	400	103.7	47
4*3	100*80	2.99	76	4.02	102	17.01	432	12.40	315	4.45	113	15.75	400	189.6	86
6*4	150*100	4.02	102	5.98	152	22.01	559	12.99	330	5.08	129	29.53	750	357.1	162
8*6	200*150	5.98	152	7.99	203	25.98	660	13.58	345	6.65	169	39.37	1000	670.2	304
10*8	250*200	7.99	203	10.00	254	30.98	787	16.34	415	5.83	148	11.81	*300	1181.7	536
12*10	300*250	10.00	254	12.01	305	32.99	838	16.81	427	7.28	185	11.81	*300	1838.6	834
14*10	350*250	12.01	305	13.27	337	35.00	889	16.81	427	7.28	185	11.81	*300	2403.0	1090
16*12	400*300	13.27	337	15.24	387	39.02	991	18.31	465	8.90	226	19.69	*500	2888.0	1310
18*14	450*350	15.24	387	17.24	438	42.99	1092	20.43	519	10.59	269	23.62	*600	4135.8	1876

* Gear box

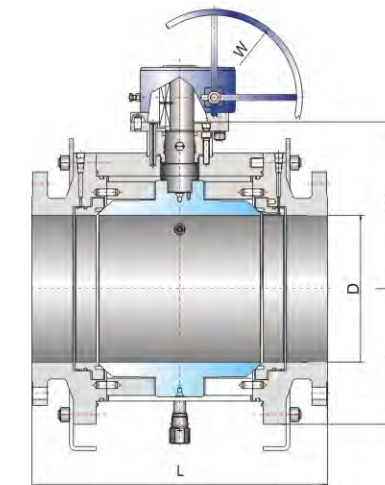
TRUNNION MOUNTED BALL VALVE 3PCS CAST STEEL

Design Features

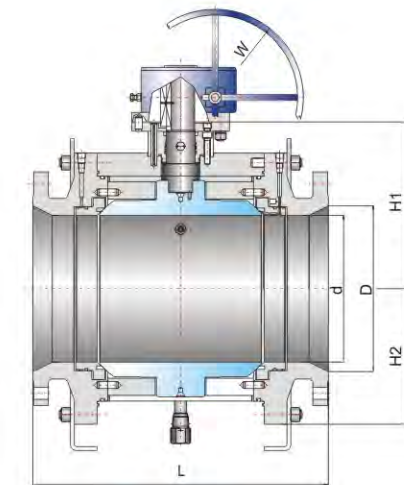
- Secure Line Flow Locking Device
- Blow-out Proof Stem
- Fire Safe Tested Design
- ISO5211 Mount Pad
- Double D Stem Head
- Emission-free Gasket
- Optional: Double Piston Seat Ring



Part	Standard	Staninless Steel	Low Temperature	Sour Service
Body	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCB	ASTM A216 WCB
Closure	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCB	ASTM A216 WCB
Ball	ASTM A105N+ENP	ASTM A182 F316	ASTM A350-LF2+ENP	ASTM A105N+ENP
Stem	ASTM A105N+ENP	ASTM A182 F316	ASTM A350-LF2+ENP	ASTM A105N+ENP
Seat Ring	ASTM A105N+ENP	ASTM A182 F316	ASTM A350-LF2+ENP	ASTM A105N+ENP
Seat Insert	PTFE	PTFE	PTFE	PTFE
O-ring	VITON A	VITON A	VITON A	VITON A
Fire Safe Seal	Graphite	Graphite	Graphite	Graphite
Grounding Spring	SS316	SS316	SS316	SS316
Lower Trunnion/ Trunnion Support	ASTM A105N+ENP	ASTM A182 F316	ASTM A350 LF2+ENP	ASTM A105N+ENP
Gland Cap	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A105N
Gasket	SS+Graphite	SS+Graphite	SS+Graphite	SS+Graphite
Bearing	SS+PTFE	SS+PTFE	SS+PTFE	SS+PTFE
Spring	Inconel X-750	Inconel X-750	Inconel X-750	Inconel X-750
Fire Safe Gasket	Graphite	Graphite	Graphite	Graphite
Screw	ASTM A193 B7	ASTM A193 B8	ASTM A320 L7	ASTM A193 B7M
Top Flange	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A105N
Key	Carbon Steel	Stainless Steel	Stainless Steel	Carbon Steel
Injection	SS 304	SS 316	SS 304	SS 304
Drain Valve	SS304	SS316	SS 304	SS 304
Vent Valve	SS304	SS316	SS 304	SS 304
Operator	Assembly	Assembly	Assembly	Assembly
Pin	Carbon Steel	Stainless Steel	Stainless Steel	Carbon Steel



Full Port



Reduced Port

Full Port

Size		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
16	400	15.24	387	30.00	762	24.49	622	13.43	341	23.62	*600	2522.1	1144
18	450	17.24	438	34.02	864	26.22	666	16.22	412	23.62	*600	3174.6	1440
20	500	19.25	489	35.98	914	28.74	730	17.13	435	23.62	*600	4285.7	1944
22	550	21.26	540	39.02	991	32.80	833	18.90	480	23.62	*600	5185.2	2352
24	600	23.27	591	42.01	1067	35.24	895	20.39	518	31.50	*800	6179.5	2803
26	650	25.00	635	45.00	1143	35.43	900	21.06	535	31.50	*800	7054.7	3200
28	700	27.01	686	49.02	1245	36.81	935	21.34	542	31.50	*800	8924.2	4048
30	750	29.02	737	50.98	1295	39.76	1010	23.82	605	31.50	*800	12103.2	5490
32	800	30.75	781	54.02	1372	41.73	1060	25.59	650	31.50	*800	13668.4	6200
34	850	32.76	832	57.99	1473	42.40	1077	25.59	650	31.50	*800	14779.5	6704
36	900	34.49	876	60.00	1524	43.90	1115	27.56	700	31.50	*800	21164.0	9600
40	1000	38.50	978	67.99	1727	55.12	1400	34.06	865	31.50	*800	22643.3	10271
42	1050	40.24	1022	78.23	1987	62.91	1598	35.43	900	31.50	*800	26697.5	12110
48	1200	45.98	1168	83.46	2120	67.80	1722	41.02	1042	31.50	*800	40476.2	18360

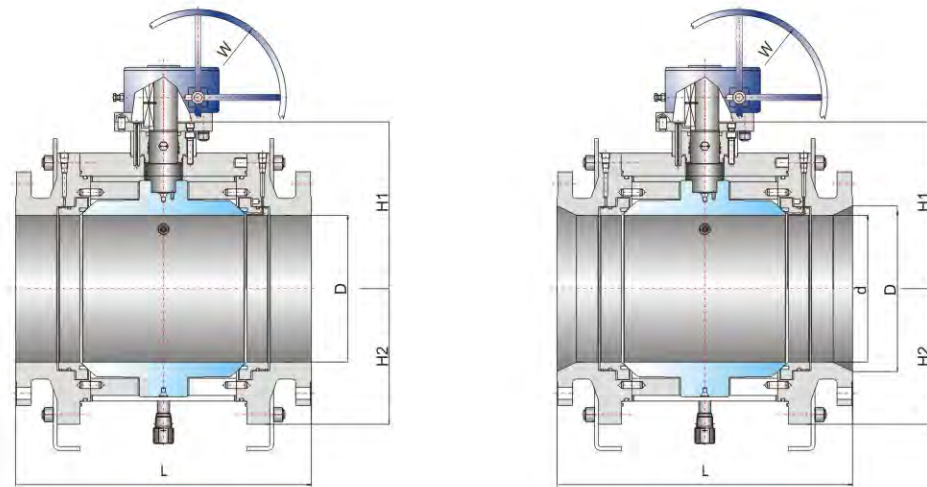
Reduced Port

Size		d		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
18*14	450*350	13.27	337	17.24	438	34.02	864	19.92	506	11.54	293	23.62	*600	2846.1	1291
20*16	500*400	15.24	387	19.25	489	35.98	914	24.49	622	13.43	341	23.62	*600	3681.7	1670
22*18	550*450	17.24	438	21.26	540	39.02	991	26.22	666	15.43	392	23.62	*600	4241.6	1924
24*20	600*500	19.25	489	23.27	591	42.01	1067	28.74	730	17.13	435	23.62	*600	4883.2	2215
26*22	650*550	21.26	540	25.00	635	45.00	1143	32.80	833	18.90	480	23.62	*800	5165.3	2343
28*24	700*600	23.27	591	27.01	686	49.02	1245	35.24	895	20.39	518	31.50	*800	5952.4	2700
30*24	750*600	23.27	591	29.02	737	50.98	1295	35.24	895	20.39	518	31.50	*800	6433.0	2918
32*26	800*650	25.00	635	30.75	781	54.02	1372	35.43	900	21.06	535	31.50	*800	8829.4	4005
34*28	850*700	27.01	686	32.76	832	57.99	1473	36.81	935	21.34	542	31.50	*800	9799.4	4445
36*30	900*750	29.02	737	34.49	876	60.00	1524	39.76	1010	23.82	605	31.50	*800	11011.9	4995
40*34	1000*850	32.76	832	38.50	978	67.99	1727	42.40	1077	25.59	650	31.50	*800	18077.6	8200
42*36	1050*900	34.49	876	40.24	1022	78.23	1987	43.90	1115	27.56	700	31.50	*800	23966.1	10871
48*40	1200*1000	38.50	978	45.98	1168	83.46	2120	55.12	1400	34.06	865	31.50		29806.0	13520

* Gear box

TRUNNION MOUNTED BALL VALVE 3PCS CAST STEEL

300LB
Dimensions and Weight



Full Port

Size		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
16	400	15.24	387	32.99	838	25.12	638	13.78	350	23.62	*600	3086.4	1400
18	450	17.24	438	35.98	914	26.89	683	15.83	402	23.62	*600	3780.9	1715
20	500	19.25	489	39.02	991	29.45	748	17.56	446	23.62	*600	4894.2	2220
22	550	21.26	540	42.99	1092	33.62	854	19.37	492	23.62	*600	5465.2	2479
24	600	23.27	591	45.00	1143	36.10	917	20.91	531	31.5	*800	6371.3	2890
28	700	27.01	686	52.99	1346	37.72	958	21.89	556	31.5	*800	10086.0	4575
30	750	29.02	737	55.00	1397	40.75	1035	24.41	620	31.5	*800	12323.6	5590
32	800	30.75	781	60.00	1524	42.80	1087	26.22	666	31.5	*800	13756.6	6240
34	850	32.76	832	64.02	1626	43.46	1104	26.22	666	31.5	*800	16247.8	7370
36	900	34.49	876	67.99	1727	45.00	1143	28.27	718	31.5	*800	18595.7	8435
40	1000	38.50	978	75.98	1930	56.50	1435	34.92	887	31.5	*800	24691.4	11200
42	1050	40.24	1022	80.00	2032	64.49	1638	36.34	923	31.5	*800	28769.8	13050
48	1200	45.98	1168	85.43	2170	69.49	1765	42.05	1068	31.5	*800	41887.1	19000

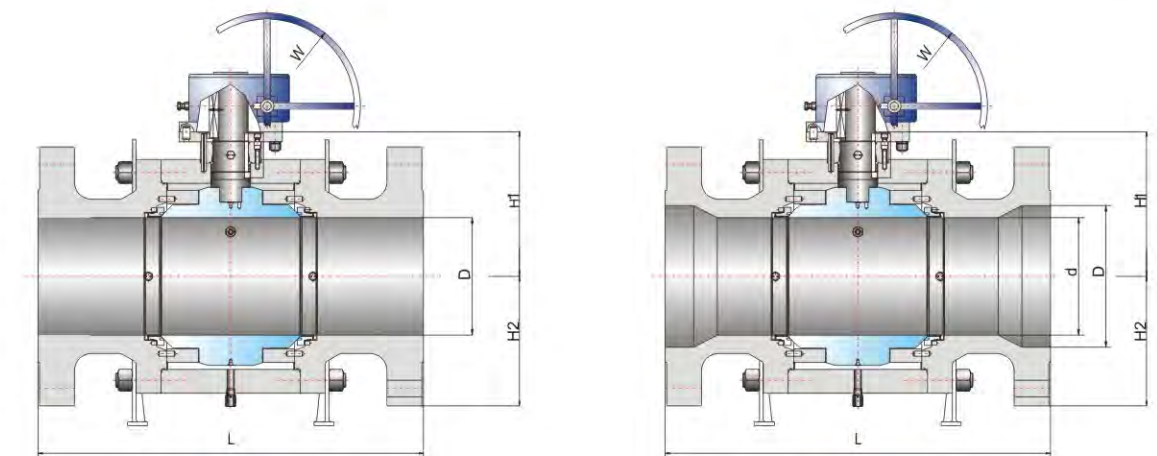
Reduced Port

Size		d		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
16*14	400*350	13.27	337	15.24	387	32.99	838	20.43	519	11.81	300	23.62	*600	2314.8	1050
18*16	450*400	15.24	387	17.24	438	35.98	914	25.12	638	13.78	350	23.62	*600	3373.0	1530
20*18	500*450	17.24	438	19.25	489	39.02	991	26.89	683	15.83	402	23.62	*600	4034.4	1830
22*18	550*450	17.24	438	21.26	540	42.99	1092	26.89	683	15.83	402	23.62	*600	4431.2	2010
24*20	600*500	19.25	489	23.27	591	45.00	1143	29.45	748	17.56	446	23.62	*600	4894.2	2220
28*24	700*600	23.27	591	27.01	686	52.99	1346	33.62	854	19.37	492	23.62	*600	7054.7	3200
30*24	750*600	23.27	591	29.02	737	55.00	1397	36.10	917	20.91	531	31.5	*800	8708.1	3950
34*28	850*700	27.01	686	32.76	832	64.02	1626	37.72	958	21.89	556	31.5	*800	10681.2	4845
36*30	900*750	29.02	737	34.49	876	67.99	1727	40.75	1035	24.41	620	31.5	*800	13448.0	6100
40*34	1000*850	32.76	832	38.50	978	75.98	1930	43.46	1104	26.22	666	31.5	*800	18077.6	8200
42*36	1050*900	34.49	876	40.24	1022	80.00	2032	45.00	1143	28.27	718	31.5	*800	20282.2	9200
48*40	1200*1000	38.50	978	45.98	1168	85.43	2170	56.50	1435	34.92	887	31.5	*800	33068.8	15000

* Gear box

TRUNNION MOUNTED BALL VALVE 3PCS CAST STEEL

600LB
Dimensions and Weight



Full Port

Full Port

Size		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
16	400	15.24	387	39.02	991	25.12	638	13.78	350	23.62	*600	3813.9	1730
18	450	17.24	438	42.99	1092	26.89	683	15.83	402	23.62	*600	5037.5	2285
20	500	19.25	489	47.01	1194	29.45	748	17.56	446	23.62	*600	6203.7	2814
22	550	21.26	540	50.98	1295	33.62	854	19.37	492	31.5	*800	7429.5	3370
24	600	23.27	591	55.00	1397	36.10	917	20.91	531	31.5	*800	10846.6	4920
28	700	27.01	686	60.98	1549	37.72	958	21.89	556	31.5	*800	13359.8	6060
30	750	29.02	737	65.00	1651	40.75	1035	24.41	620	31.5	*800	14748.7	6690
32	800	30.75	781	70.00	1778	42.80	1087	26.22	666	31.5	*800	17250.9	7825
34	850	32.76	832	75.98	1930	43.46	1104	26.22	666	31.5	*800	18650.8	8460
36	900	34.49	876	82.01	2083	45.00	1143	28.27	718	31.5	*800	23478.8	10650
40	1000	38.50	978	85.00	2159	56.50	1435	34.92	887	31.5	*800	32407.4	14700
42	1050	40.24	1022	85.63	2175	64.49	1638	36.34	923	31.5	*800	36177.2	16410
48	1200	45.98	1168	95.87	2435	69.49	1765	42.05	1068	31.5	*800	53351.0	24200

Reduced Port

Size		d		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
16*14	400*350	13.27	337	15.24	387	39.02	991	20.43	519	11.81	300	23.62	*600	2888.0	1310
18*16	450*400	15.24	387	17.24	438	42.99	1092	25.12	638	13.78	350	23.62	*600	4135.8	1876
20*18	500*450	17.24	438	19.25	489	47.01	1194	26.89	683	15.83	402	23.62	*600	5457.1	2430
22*18	550*450	17.24	438	21.26	540	50.98	1295	26.89	683	15.83	402	23.62	*600	5564.4	2524
24*20	600*500	19.25	489	23.27	591	55.00	1397	29.45	748	17.56	446	23.62	*600	7583.8	3440
28*24	700*600	23.27	591	27.01	686	60.98	1549	33.62	854	19.37	492	31.5	*800	9369.5	4250
30*24	750*600	23.27	591	29.02	737	65.00	1651	36.10	917	20.91	531	31.5	*800	10427.7	4730
34*28	850*700	27.01	686	32.76	832	75.98	1930	37.72	958	21.89	556	31.5	*800	15873.0	7200
36*30	900*750	29.02	737	34.49	876	82.01	2083	40.75	1035	24.41	620	31.5	*800	18959.4	8600
40*34	1000*850	32.76	832	38.50	978	85.00	2159	43.46	1104	26.22	666	31.5	*800	22089.9	10020
42*36	1050*900	34.49	876	40.24	1022	85.63	2175	45.00	1143	28.27	718	31.5	*800	24470.9	11100
48*40	1200*1000	38.50	978	45.98	1168	95.87	2435	56.50	1435	34.92	887	31.5	*800	37918.9	17200

* Gear box

TRUNNION MOUNTED BALL VALVE 3/2PCS **FORGED STEEL**

YDF 2/3pcs forged steel trunnion mounted ball valves are designed to API 6D, ASEM B16.34, and certified to API 607 sixth edition, API 6FA 3rd edition fire safe tested design. It is designed to 3pcs split body side entry (6 inch and above) and 2pcs split body side entry (2~4 inch), and the valve size range is from 2 inch up to 60 inch, pressure rating is from 150LB up to 2500LB.



TRUNNION MOUNTED BALL VALVE 3/2PCS **FORGED STEEL**

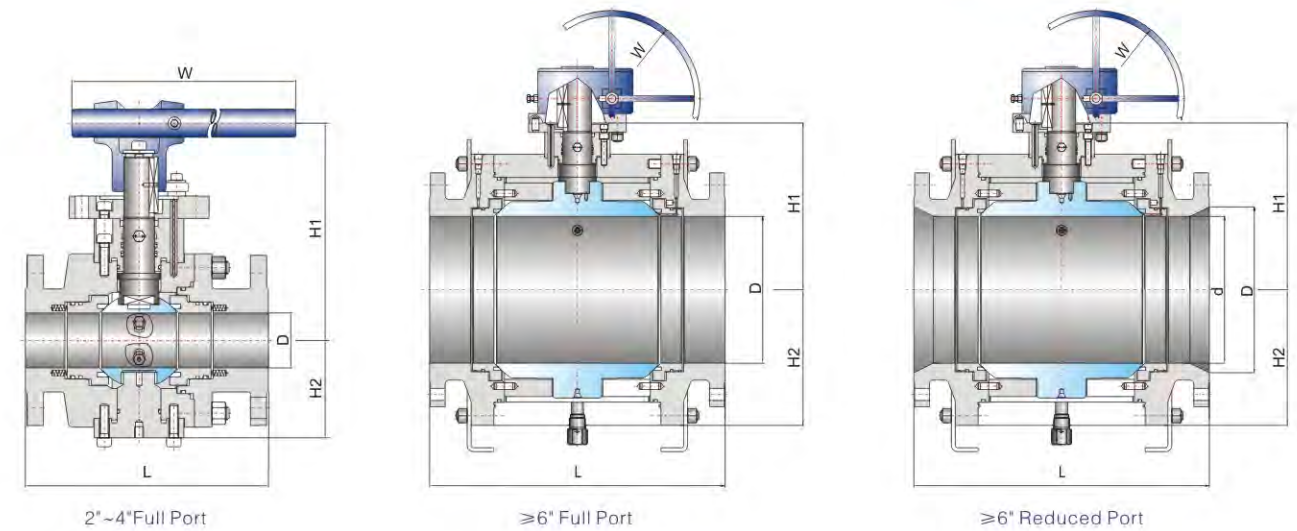
Design Features

- Full port or reduced port;
- Fire safe tested design;
- Anti-static design;
- Anti blow out stem;
- Integral locking device;
- Optional: Double Piston.



Description: Due to the limitation of structural length, 2PCS design is used for 2"~4"

Part	Standard	Stainless Steel	Low Temperature	Sour Service
Body	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A105N
Closure	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A105N
Ball	ASTM A105N+ENP	ASTM A182-F316	ASTM A350-LF2+ENP	ASTM A105N+ENP
Stem	ASTM A105N+ENP	ASTM A182-F316	ASTM A350-LF2+ENP	ASTM A105N+ENP
Seat Ring	ASTM A105N+ENP	ASTM A182-F316	ASTM A350-LF2+ENP	ASTM A105N+ENP
Seat Insert	PTFE	PTFE	PTFE	PTFE
O-ring	VITON A	VITON A	VITON A	VITON A
Fire Safe Seal	Graphite	Graphite	Graphite	Graphite
Grounding Spring	SS316	SS316	SS316	SS316
Lower Trunnion/ Trunnion Support	ASTM A105N+ENP	ASTM A182-F316	ASTM A350-LF2+ENP	ASTM A105N+ENP
Gland Cap	ASTM A105N	ASTM A182-F316	ASTM A350-LF2	ASTM A105N
Gasket	SS+Graphite	SS+Graphite	SS+Graphite	SS+Graphite
Bearing	SS+PTFE	SS+PTFE	SS+PTFE	SS+PTFE
Spring	Inconel X-750	Inconel X-750	Inconel X-750	Inconel X-750
Fire Safe Gasket	Graphite	Graphite	Graphite	Graphite
Screw	ASTM A193 B7	ASTM A193 B8	ASTM A320 L7	ASTM A193 B7M
Top Flange	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A105N
Key	Carbon Steel	Stainless Steel	Stainless Steel	Carbon Steel
Injection	SS 304	SS 316	SS 304	SS 304
Drain Valve	SS304	SS316	SS 304	SS 304
Vent Valve	SS304	SS316	SS 304	SS 304
Operator	Assembly	Assembly	Assembly	Assembly
Pin	Carbon Steel	Stainless Steel	Stainless Steel	Carbon Steel



Full Port

Size		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	7.01	178	7.87	200	4.33	110	10.43	265	46.3	21
3	80	2.99	76	7.99	203	11.81	300	4.96	126	11.22	285	70.6	32
4	100	4.02	102	9.02	229	12.40	315	6.50	165	11.22	285	110.2	50
6	150	5.98	152	15.51	394	13.19	335	6.50	165	11.81	*300	361.6	164
8	200	7.99	203	17.99	457	15.94	405	7.87	200	11.81	*300	760.6	345
10	250	10.00	254	21.02	534	16.81	427	8.66	220	11.81	*300	970.0	440
12	300	12.01	305	24.02	610	18.31	465	10.31	262	19.69	*500	1272.1	577
14	350	13.27	337	27.01	686	19.92	506	11.54	293	23.62	*600	1893.7	859
16	400	15.24	387	30.00	762	24.49	622	13.43	341	23.62	*600	2522.1	1144
18	450	17.24	438	34.02	864	26.22	666	16.22	412	23.62	*600	3174.6	1440
20	500	19.25	489	35.98	914	28.74	730	17.13	435	23.62	*600	4285.7	1944
22	550	21.26	540	39.02	991	32.80	833	18.90	480	23.62	*600	5185.2	2352
24	600	23.27	591	42.01	1067	35.24	895	20.39	518	31.50	*800	6179.5	2803
26	650	25.00	635	45.00	1143	35.43	900	21.06	535	31.50	*800	7054.7	3200
28	700	27.01	686	49.02	1245	36.81	935	21.34	542	31.50	*800	8924.2	4048
30	750	29.02	737	50.98	1295	39.76	1010	23.82	605	31.50	*800	12103.2	5490
32	800	30.75	781	54.02	1372	41.73	1060	25.59	650	31.50	*800	13668.4	6200
34	850	32.76	832	57.99	1473	42.40	1077	25.59	650	31.50	*800	14779.5	6704
36	900	34.49	876	60.00	1524	43.90	1115	27.56	700	31.50	*800	21164.0	9600
40	1000	38.50	978	67.99	1727	55.12	1400	34.06	865	31.50	*800	22643.3	10271
42	1050	40.24	1022	78.23	1987	62.91	1598	35.43	900	31.50	*800	26697.5	12110
48	1200	45.98	1168	83.46	2120	67.80	1722	41.02	1042	31.50	*800	40476.2	18360

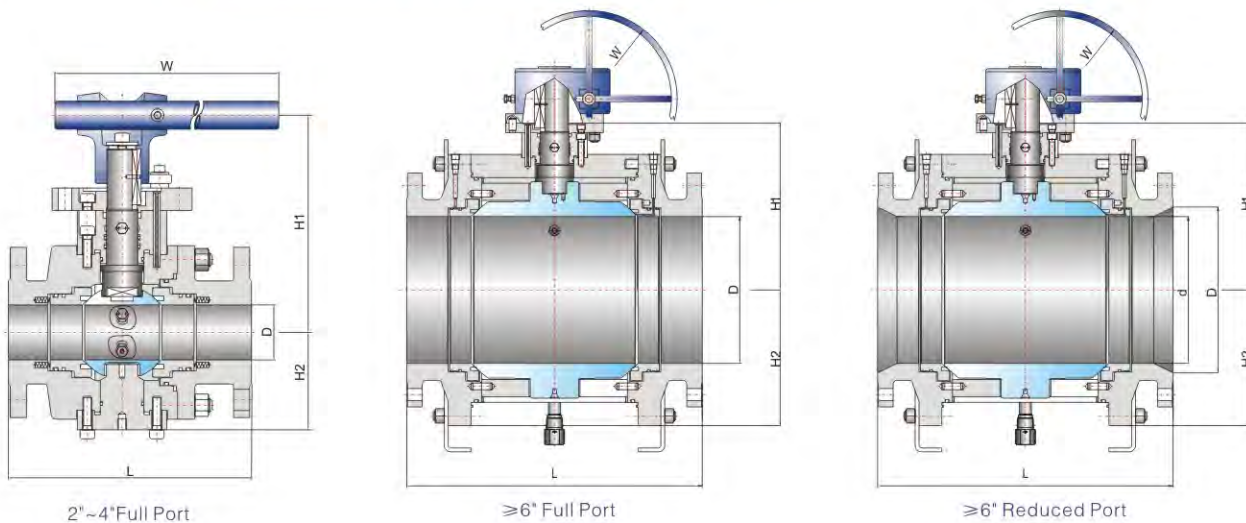
Reduced Port

Size		d		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3\"	80*50	2.01	51	2.99	76	7.99	203	7.87	200	4.33	110	10.43	265	58.4	27
4\"	100*80	2.99	76	4.02	102	9.02	229	11.81	300	4.96	126	11.22	285	88.2	40
6\"	150*100	4.02	102	5.98	152	15.51	394	12.40	315	6.50	165	11.22	285	149.9	68
8\"	200*150	5.98	152	7.99	203	17.99	457	13.19	335	6.50	165	11.81	*300	390.2	177
10\"	250*200	7.99	203	10.00	254	21.02	534	15.94	405	7.87	200	11.81	*300	676.8	307
12\"	300*250	10.00	254	12.01	305	24.02	610	16.81	427	8.66	220	11.81	*300	1122.1	509
14\"	350*300	12.01	305	13.27	337	27.01	686	18.31	465	10.31	262	19.69	*500	1591.7	722
16\"	400*350	13.27	337	15.24	387	30.00	762	19.92	506	11.54	293	23.62	*600	2138.5	970
18\"	450*400	15.24	387	17.24	438	34.02	864	24.49	622	13.43	341	23.62	*600	2846.1	1291
20\"	500*450	17.24	438	19.25	489	35.98	914	26.22	666	16.22	412	23.62	*600	3681.7	1670
22\"	550*450	17.24	438	21.26	540	39.02	991	26.22	666	16.22	412	23.62	*600	4241.6	1924
24\"	600*500	19.25	489	23.27	591	42.01	1067	28.74	730	17.13	435	23.62	*600	4883.2	2215
26\"	650*550	21.26	540	25.00	635	45.00	1143	32.80	833	18.90	480	23.62	*600	5165.3	2343
28\"	700*600	23.27	591	27.01	686	49.02	1245	35.24	895	20.39	518	31.50	*800	5952.4	2700
30\"	750*600	23.27	591	29.02	737	50.98	1295	35.43	900	21.06	535	31.50	*800	6433.0	2918
32\"	800*650	25.00	635	30.75	781	54.02	1372	36.81	935	21.34	542	31.50	*800	8829.4	4005
34\"	850*700	27.01	686	32.76	832	57.99	1473	39.76	1010	23.82	605	31.50	*800	9799.4	4445
36\"	900*750	29.02	737	34.49	876	60.00	1524	41.73	1060	25.59	650	31.50	*800	11011.9	4995
40\"	1000*850	32.76	832	38.50	978	67.99	1727	42.40	1077	25.59	650	31.50	*800	18077.6	8200
42\"	1050*900	34.49	876	40.24	1022	78.23	1987	43.90	1115	27.56	700	31.50	*800	23966.1	10871
48\"	1200*1000	38.50	978	45.98	1168	83.46	2120	55.12	1400	34.06	865	31.50	*800	29806.0	13520

* Gear box

TRUNNION MOUNTED BALL VALVE FORGED STEEL

300LB
Dimensions and Weight



Full Port

Size		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	8.50	216	8.11	206	4.45	113	10.43	265	55.1	25
3	80	2.99	76	11.14	283	12.40	315	5.08	129	15.75	400	101.4	46
4	100	4.02	102	12.01	305	12.99	330	6.65	169	29.53	750	169.8	77
6	150	5.98	152	15.87	403	13.58	345	5.83	148	11.81	*300	377.0	171
8	200	7.99	203	19.76	502	16.34	415	7.28	185	11.81	*300	709.9	322
10	250	10.00	254	22.36	568	16.81	427	8.90	226	15.75	*400	1190.5	540
12	300	12.01	305	25.51	648	18.31	465	10.59	269	19.69	*500	1682.1	763
14	350	13.27	337	30.00	762	20.43	519	11.81	300	23.62	*600	2149.5	975
16	400	15.24	387	32.99	838	25.12	638	13.78	350	23.62	*600	3086.4	1400
18	450	17.24	438	35.98	914	26.89	683	15.83	402	23.62	*600	3780.9	1715
20	500	19.25	489	39.02	991	29.45	748	17.56	446	23.62	*600	4894.2	2220
22	550	21.26	540	42.99	1092	33.62	854	19.37	492	23.62	*600	5465.2	2479
24	600	23.27	591	45.00	1143	36.10	917	20.91	531	31.5	*800	6371.3	2890
28	700	27.01	686	52.99	1346	37.72	958	21.89	556	31.5	*800	10086.0	4575
30	750	29.02	737	55.00	1397	40.75	1035	24.41	620	31.5	*800	12323.6	5590
32	800	30.75	781	60.00	1524	42.80	1087	26.22	666	31.5	*800	13756.6	6240
34	850	32.76	832	64.02	1626	43.46	1104	26.22	666	31.5	*800	16247.8	7370
36	900	34.49	876	67.99	1727	45.00	1143	28.27	718	31.5	*800	18595.7	8435
40	1000	38.50	978	75.98	1930	56.50	1435	34.92	887	31.5	*800	24691.4	11200
42	1050	40.24	1022	80.00	2032	64.49	1638	36.34	923	31.5	*800	28769.8	13050
48	1200	45.98	1168	85.43	2170	69.49	1765	42.05	1068	31.5	*800	41887.1	19000

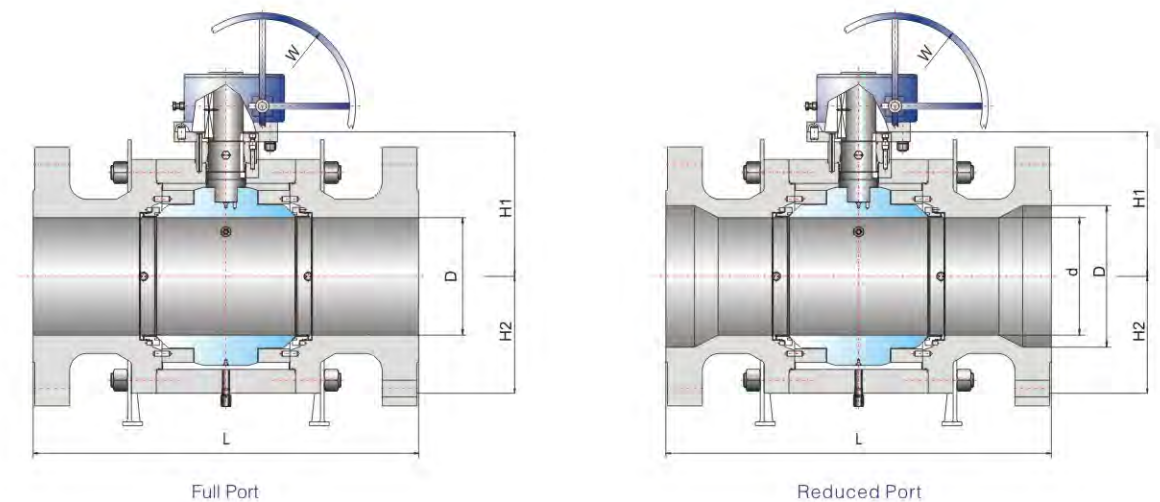
Reduced Port

Size		d		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3"2	80*50	2.01	51	2.99	76	11.14	283	8.11	206	4.45	113	10.43	265	79.4	36
4"3	100*80	2.99	76	4.02	102	12.01	305	12.40	315	5.08	129	15.75	400	121.3	55
6"4	150*100	4.02	102	5.98	152	15.87	403	12.99	330	6.65	169	29.53	750	246.9	112
8"6	200*150	5.98	152	7.99	203	19.76	502	13.58	345	5.83	148	11.81	*300	489.4	222
10"8	250*200	7.99	203	10.00	254	22.36	568	16.34	415	7.28	185	11.81	*300	839.4	381
12"10	300*250	10.00	254	12.01	305	25.51	648	16.81	427	8.90	226	15.75	*400	1278.7	580
14"12	350*300	12.01	305	13.27	337	30.00	762	18.31	465	10.59	269	19.69	*500	2028.2	920
16"14	400*350	13.27	337	15.24	387	32.99	838	20.43	519	11.81	300	23.62	*600	2314.8	1050
18"16	450*400	15.24	387	17.24	438	35.98	914	25.12	638	13.78	350	23.62	*600	3373.0	1530
20"18	500*450	17.24	438	19.25	489	39.02	991	26.89	683	15.83	402	23.62	*600	4034.4	1830
22"18	550*450	17.24	438	21.26	540	42.99	1092	26.89	683	15.83	402	23.62	*600	4431.2	2010
24"20	600*500	19.25	489	23.27	591	45.00	1143	29.45	748	17.56	446	23.62	*600	4894.2	2220
28"24	700*600	23.27	591	27.01	686	52.99	1346	33.62	854	19.37	492	23.62	*600	7054.7	3200
30"24	750*600	23.27	591	29.02	737	55.00	1397	36.10	917	20.91	531	31.5	*800	8708.1	3950
34"28	850*700	27.01	686	32.76	832	64.02	1626	37.72	958	21.89	556	31.5	*800	10681.2	4845
36"30	900*750	29.02	737	34.49	876	67.99	1727	40.75	1035	24.41	620	31.5	*800	13448.0	6100
40"34	1000*850	32.76	832	38.50	978	75.98	1930	43.46	1104	26.22	666	31.5	*800	18077.6	8200
42"36	1050*900	34.49	876	40.24	1022	80.00	2032	45.00	1143	28.27	718	31.5	*800	20282.2	9200
48"40	1200*1000	38.50	978	45.98	1168	85.43	2170	56.50	1435	34.92	887	31.5	*800	33068.8	15000

* Gear box

TRUNNION MOUNTED BALL VALVE FORGED STEEL

600LB
Dimensions and Weight



Full Port

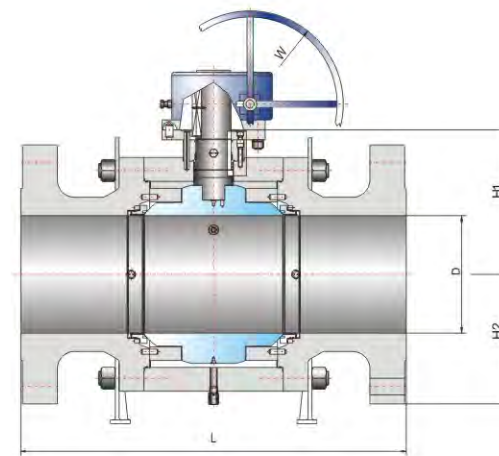
Size		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	11.50	292	8.11	206	4.45	113	15.75	400	72.8	33
3	80	2.99	76	14.02	356	12.40	315	5.08	129	29.53	750	141.1	64
4	100	4.02	102	17.01	432	12.99	330	6.65	169	39.37	1000	257.9	117
6	150	5.98	152	22.01	559	13.58	345	5.83	148	11.81	*300	628.3	285
8	200	7.99	203	25.98	660	16.34	415	7.28	185	11.81	*300	996.5	452
10	250	10.00	254	30.98	787	16.81	427	8.90	226	19.69	*500	1622.6	736
12	300	12.01	305	32.99	838	18.31	465	10.59	269	23.62	*600	2204.6	1000
14	350	13.27	337	35.00	889	20.43	519	11.81	300	23.62	*600	2929.9	1329
16	400	15.24	387	39.02	991	25.12	638	13.78	350	23.62	*600	3813.9	1730
18	450	17.24	438	42.99	1092	26.89	683	15.83	402	23.62	*600	5037.5	2285
20	500	19.25	489	47.01	1194	29.45	748	17.56	446	23.62	*600	6203.7	2814
22	550	21.26	540	50.98	1295	33.62	854	19.37	492	31.5	*800	7429.5	3370
24	600	23.27	591	55.00	1397	36.10	917	20.91	531	31.5	*800	10846.6	4920
28	700	27.01	686	60.98	1549	37.72	958	21.89	556	31.5	*800	13359.8	6060
30	750	29.02	737	65.00	1651	40.75	1035	24.41	620	31.5	*800	14748.7	6690
32	800	30.75	781	70.00	1778	42.80	1087	26.22	666	31.5	*800	17250.9	7825
34	850	32.76	832	75.98	1930	43.46	1104	26.22	666	31.5	*800	18650.8	8460
36	900	34.49	876	82.01	2083	45.00	1143	28.27	718	31.5	*800	23478.8	10650
40	1000	38.50	978	85.00	2159	56.50	1435	34.92	887	31.5	*800	32407.4	14700
42	1050	40.24	1022	85.63	2175	64.49	1638	36.34	923	31.5	*800	36177.2	16410
48	1200	45.98	1168	95.87	2435	69.49	1765	42.05	1068	31.5	*800	53351.0	24200

Reduced Port

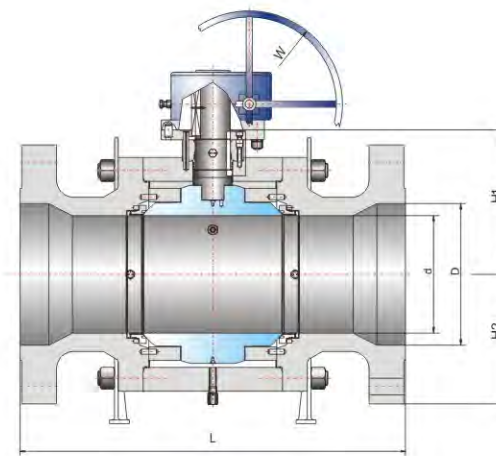
Size		d		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3"2	80*50	2.01	51	2.99	76	14.20	356	8.11	206	4.45	113	15.75	400	103.7	47
4"3	100*80	2.99	76	4.02	102	17.01	432	12.40	315	5.08	129	29.53	750	189.6	86
6"4	150*100	4.02	102	5.98	152	22.01	559	12.99	330	6.65	169	39.37	1000	357.1	162
8"6	200*150	5.98	152	7.99	203	25.98	660	13.58	345	5.83	148	11.81	*300	670.2	304
10"8	250*200	7.99	203	10.00	254	30.98	787	16.34	415	7.28	185	11.81	*300	1181.7	536
12"10	300*250	10.00	254	12.01	305	32.99	838	16.81	427	8.90	226	19.69	*500	1838.6	834
14"10	350*300	10.00	254	13.27	337	35.00	889	18.31	465	10.59	269	23.62	*600	2403.0	1090
16"12	400*300	12.01	305	15.24	387	39.02	991	20.43	519	11.81	300	23.62	*600	2888.0	1310
18"14	450*350	13.27	337	17.24	438	42.99	1092	25.12	638	13.78	350	23.62	*600	4135.8	1876
20"16	500*400	15.24	387	19.25	489	47.01	1194	26.89	683	15.83	402	23.62	*600	5457.1	2430
22"18	550*450	17.24	438	21.26	540	50.98	1295	29.45	748	17.56	446	23.62	*600	5564.4	2524
24"20	600*500	19.25	489	23.27	591	55.00	1397	33.62	854	19.37	492	31.5	*800	7583.8	3440
28"24	700*600	23.27	591	27.01	686	60.98	1549	36.10	917	20.91	531	31.5	*800	9369.5	4250
30"24	750*600	23.27	591	29.02	737	65.00	1651	36.10	917	20.91	531	31.5	*800	10427.7	4730
34"28	850*700	27.01	686	32.76	832	75.98	1930	37.72	958	21.89	556	31.5	*800	15873.0	7200
36"30	900*750	29.02	737	34.49	876	82.01	2083	40.75	1035	24.41	620	31.5	*800	18959.4	8600
40"34	1000*850	32.76	832	38.50	978	85.00	2159	43.46	1104	26.22	666	31.5	*800	22089.9	10020
42"36	1050*900	34.49	876	40.24	1022	85.63	2175	45.00	1143	28.27	718	31.5	*800	24470.9	11100
48"40	1200*1000	38.50	978	45.98	1168	95.87	2435	56.50	1435	34.92	887	31.5	*800	37918.9	17200

TRUNNION MOUNTED BALL VALVE FORGED STEEL

900LB
Dimensions and Weight



Full Port



Reduced Port

Full Port

Size		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	14.49	368	4.69	119	4.69	119	18.11	460	143.3	65
3	80	2.99	76	15.00	381	5.24	133	5.24	133	39.37	1000	202.8	92
4	100	4.02	102	17.99	457	6.93	176	6.93	176	59.06	1500	339.5	154
6	150	5.98	152	24.02	610	6.02	153	6.02	153	11.81	*300	864.2	392
8	200	7.99	203	29.02	737	7.60	193	7.60	193	15.75	*400	1351.4	613
10	250	10.00	254	32.99	838	9.25	235	9.25	235	19.69	*500	1807.8	820
12	300	12.01	305	37.99	965	11.02	280	11.02	280	23.62	*600	2480.2	1125
14	350	12.76	324	40.51	1029	12.28	312	12.28	312	23.62	*600	3549.4	1610
16	400	14.76	375	44.49	1130	14.37	365	14.37	365	23.62	*600	4431.2	2010
18	450	16.73	425	47.99	1219	16.30	414	16.30	414	23.62	*600	6194.9	2810
20	500	18.62	473	52.01	1321	18.07	459	18.07	459	23.62	*600	8730.2	3960
22	550	20.63	524	55.98	1422	19.96	507	19.96	507	31.5	*800	9722.2	4410
24	600	22.52	572	60.98	1549	21.54	547	21.54	547	31.5	*800	17901.2	8120
28	700	26.26	667	69.02	1753	22.56	573	22.56	573	31.5	*800	22491.2	10202
30	750	28.11	714	74.02	1880	25.12	638	25.12	638	31.5	*800	25617.3	11620
32	800	30.00	762	80.00	2032	27.01	686	27.01	686	31.5	*800	26679.9	12102
34	850	31.89	810	85.00	2159	27.09	688	27.09	688	31.5	*800	38496.5	17462
36	900	33.74	857	90.00	2286	29.09	739	29.09	739	31.5	*800	44431.2	20154

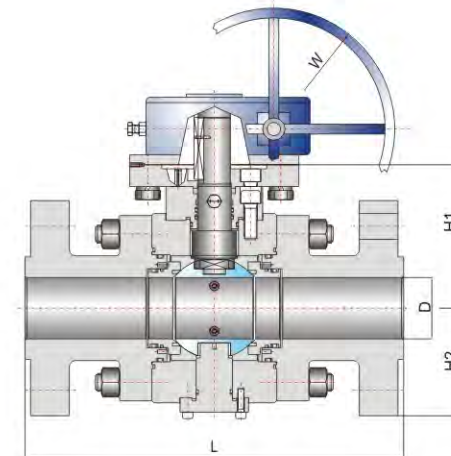
Reduced Port

Size		d		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3"2	80*50	2.01	51	2.99	76	15.00	381	4.69	119	4.69	119	18.11	460	156.5	71
4"3	100*80	2.99	76	4.02	102	17.99	457	5.24	133	5.24	133	39.37	1000	244.7	111
6"4	150*100	4.02	102	5.98	152	24.02	610	6.93	176	6.93	176	59.06	1500	471.8	214
8"6	200*150	5.98	152	7.99	203	29.02	737	6.02	153	6.02	153	11.81	*300	1058.2	480
10"8	250*200	7.99	203	10.00	254	32.99	838	7.60	193	7.60	193	15.75	*400	1433.0	650
12"10	300*250	10.00	254	12.01	305	37.99	965	9.25	235	9.25	235	19.69	*500	1913.6	868
14"12	350*300	12.01	305	12.76	324	40.51	1029	11.02	280	11.02	280	23.62	*600	2888.0	1310
16"14	400*350	12.76	324	14.76	375	44.49	1130	12.28	312	12.28	312	23.62	*600	4034.4	1830
18"16	450*400	14.76	375	16.73	425	47.99	1219	14.37	365	14.37	365	23.62	*600	4861.1	2205
20"18	500*450	16.73	425	18.62	473	52.01	1321	16.30	414	16.30	414	23.62	*600	6922.4	3140
22"18	550*450	16.73	425	20.63	524	55.98	1422	18.07	459	18.07	459	23.62	*600	7248.7	3288
24"20	600*500	18.62	473	22.52	572	60.98	1549	19.96	507	19.96	507	31.5	*800	10582.0	4800
28"24	700*600	22.52	572	26.26	667	69.02	1753	21.54	547	21.54	547	31.5	*800	16710.8	7580
30"24	750*600	22.52	572	28.11	714	74.02	1880	21.54	547	21.54	547	31.5	*800	17594.8	7981
34"28	850*700	26.26	667	31.89	810	85.00	2159	22.56	573	22.56	573	31.5	*800	24695.8	11202
36"30	900*750	28.11	714	33.74	857	90.00	2286	25.12	638	25.12	638	31.5	*800	34508.4	15653

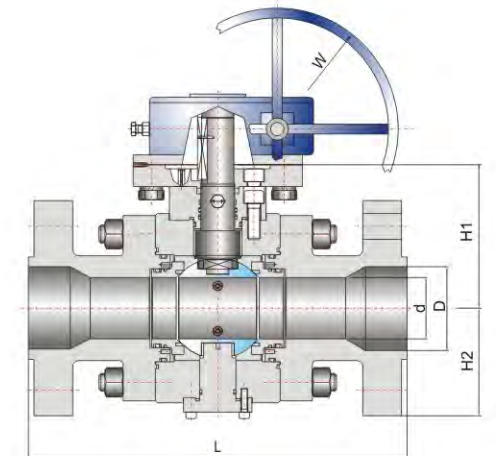
* Gear box

TRUNNION MOUNTED BALL VALVE FORGED STEEL

1500LB 2500LB
Dimensions and Weight



Full Port



Reduced Port

1500LB

Full Port

Size		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
4	100	4.02	102	21.50	546	6.54	166	6.54	166	11.81	*300	571.0	259
6	150	5.75	146	27.76	705	7.56	192	7.56	192	15.75	*400	1047.2	475
8	200	7.64	194	32.76	832	9.37	238	9.37	238	19.69	*500	1810.0	821
10	250	9.41	239	39.02	991	10.79	274	10.79	274	23.62	*600	4025.6	1826
12	300	11.38	289	44.49	1130	12.52	318	12.52	318	23.62	*600	4784.0	2170
14	350	12.52	318	49.49	1257	19.02	483	19.02	483	23.62	*600	4960.3	2250
16	400	14.25	362	54.49	1384	21.02	534	21.02	534	23.62	*600	6084.7	2760
18	450	16.02	407	60.51	1537	23.86	606	23.86	606	23.62	*600	8037.9	3646
20	500	17.99	457	65.51	1664	27.01	686	27.01	686	31.5	*800	9914.0	4497
22	550	19.69	500	71.50	1816	28.78	731	28.78	731	31.5	*800	12634.5	5731
24	600	21.5	546	80.43	2043	30.51	775	30.51	775	31.5	*800	15765.0	7151

Reduced Port

Size		d		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
6"4	150*100	4.02	102	5.75	146	27.76	705	6.54	166	6.54	166	11.81	*300	760.6	345
8"6	200*150	5.75	146	7.64	194	32.76	832	7.56	192	7.56	192	15.75	*400	1320.5	599
10"8	250*200	7.64	194	9.49	241	39.02	991	9.37	238	9.37	238	19.69	*500	2636.7	1196
12"10	300*250	9.49	241	11.38	289	44.49	1130	10.79	274	10.79	274	23.62	*600	2954.1	1340
14"12	350*300	11.38	289	12.52	318	49.49	1257	12.52	318	12.52	318	23.62	*600	6424.2	2914
16"14	400*350	12.52	318	14.25	362	54.49	1384	19.02	483	19.02	483	23.62	*600	5445.3	2470
18"16	450*400	14.25	362	15.98	406	60.51	1537	21.02	534	21.02	534	23.62	*600	6503.5	2950
20"18	500*450	16.02	407	17.76	451	65.51	1664	23.86	606	23.86	606	23.62	*600	7385.4	3350
22"18	550*450	16.02	407	19.49	495	71.5	1816	23.86	606	23.86	606	23.62	*600	7936.5	3600
24"20	600*500	17.99	457	20.98	533	80.43	2043	27.01	686	27.01	686	31.5	*800	12896.8	5850

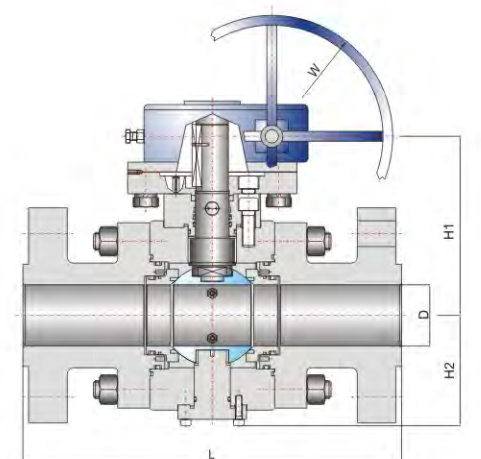
* Gear box

2500LB

Full Port

Size		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	1.73	44	17.76	451	9.41	239	5.63	143	15.75	*400	198.4	90
3	80	2.52	64	22.76	578	10.43	265	7.52	191	19.69	*500	440.9	200
4	100	3.50	89	26.50	673	11.10	282	7.83	199	19.69	*500	848.8	385
6	150	5.24	133	35.98	914	20.59	523	11.77	299	23.62	*600	1715.2	778
8	200	7.13	181	40.24	1022	24.21	615	14.88	378	27.56	*700	2980.6	1352
10	250	8.86	225	50.00	1270	23.03	585	17.13	435	29.92	*760	4711.2	2137
12	300	10.51	267	55.98	1422	27.72	704	21.26	540	29.92	*760	7202.4	3267

* Gear box



TRUNNION MOUNTED TOP ENTRY BALL VALVE

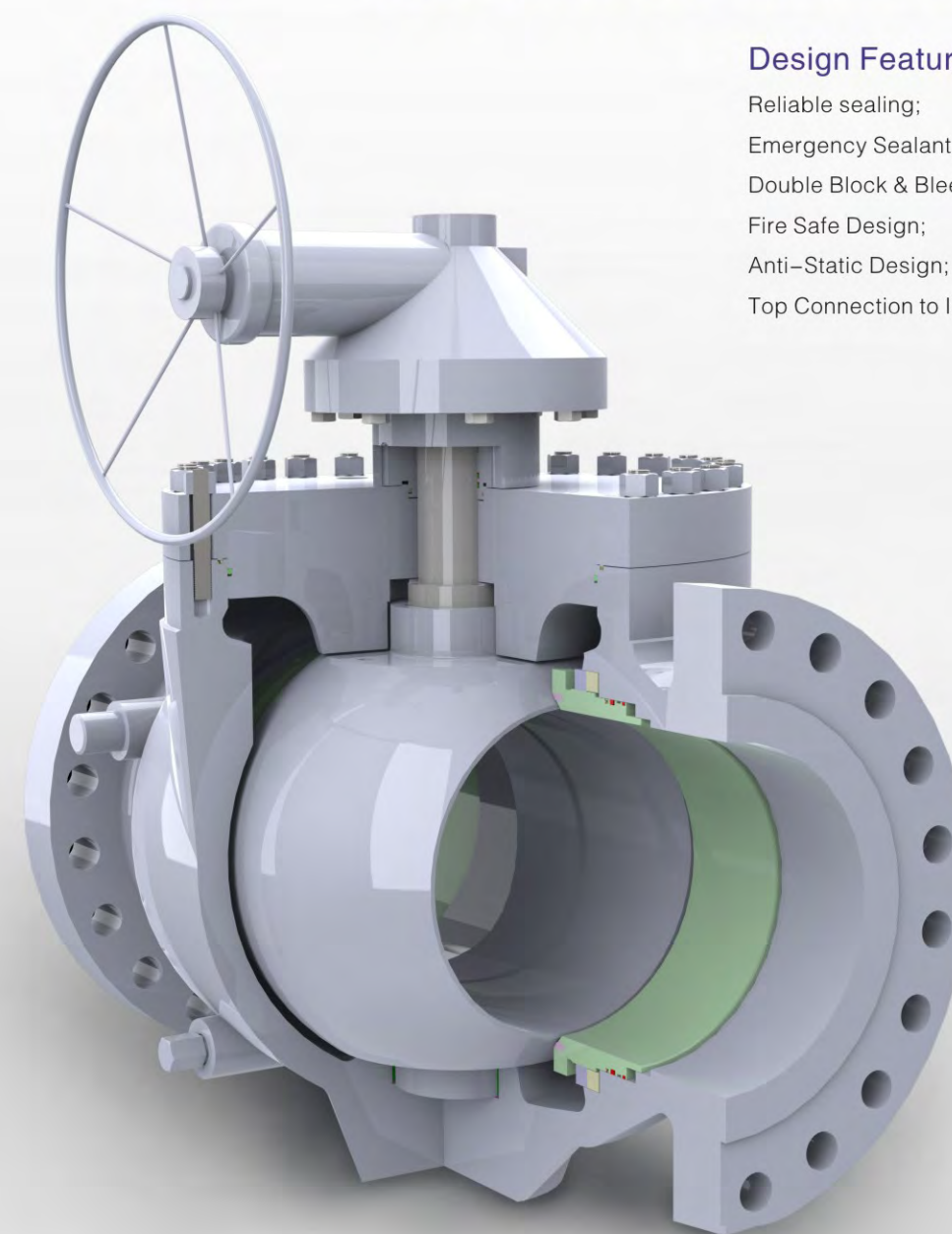
YDF Top entry Trunnion mounted ball valve is widely used in oil and gas pipeline, and oil production, oil refining, petrochemical, chemical, chemical fiber, metallurgy, electric power, nuclear power, food and paper and other devices. Remove simple rapid jacket type ball valve in the pipeline and convenient maintenance. When the valve is in the pipeline failure needs to be repaired, don't need to remove the valve from the line, just pull down the flange bolts and nuts, the bonnet and stem assembly together removed from the valve body, and then remove the ball and seat assembly. Online repair ball and seat. This saves time of maintenance, will produce to minimize the loss.



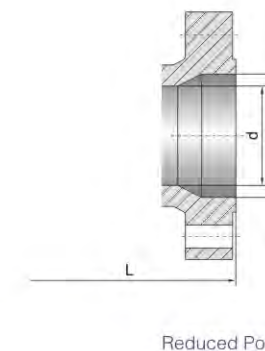
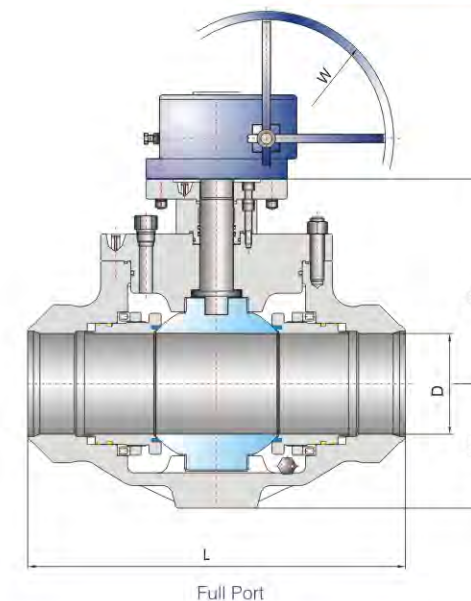
TRUNNION MOUNTED BALL VALVE TOP ENTRY BALL VALVE

Design Features

- Reliable sealing;
- Emergency Sealant Injection;
- Double Block & Bleed;
- Fire Safe Design;
- Anti-Static Design;
- Top Connection to ISO 5211.



Part	Standard	Stainless Steel	Low Temperature	Sour Service
Body	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCB	ASTM A216 WCB
Closure	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A105N
Ball	ASTM A105N+ENP	ASTM A182 F316	ASTM A350 LF2+ENP	ASTM A105N+ENP
Seat Ring	ASTM A105N+ENP	ASTM A182 F316	ASTM A350 LF2+ENP	ASTM A105N+ENP
Seat Insert	RPTFE	RPTFE	RPTFE	RPTFE
Spring Seat	ASTM A105N+ENP	ASTM A182 F316	ASTM A350 LF2+ENP	ASTM A105N+ENP
Adjusting Pad	ASTM A276 410	ASTM A276 316	ASTM A276 304	ASTM A276 410-NC
Stem	ASTM A105N+ENP	ASTM A182 F316	ASTM A350 LF2+ENP	ASTM A105N+ENP
Spring	Inconel X-750	Inconel X-750	Inconel X-750	Inconel X-750
Fire Safe Seal	Graphite	Graphite	Graphite	Graphite
O-Ring	Viton A	Viton A	Viton A	Viton A
Back Up Ring	RPTFE	RPTFE	RPTFE	RPTFE
Gland Cap	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A105N
Top Flange	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A105N
Grounding Spring	SS316	SS316	SS316	SS316
Steel Ball	SS316	SS316	SS316	SS316
Gasket	SS+Graphite	SS+Graphite	SS+Graphite	SS+Graphite
Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A320 L7	ASTM A193 B7M
Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 4	ASTM A194 2HM
Injection	SS304	SS316	SS304	SS304
Drain valve	SS304	SS316	SS304	SS304
Vent valve	SS304	SS316	SS304	SS304
Pin	Carbon Steel	Stainless steel	Stainless steel	Carbon Steel
Key	Carbon Steel	Stainless steel	Stainless steel	Carbon Steel
Bearing	SS+PTFE	SS+PTFE	SS+PTFE	SS+PTFE
Nameplate	SS304	SS304	SS304	SS304



Full Port

Size		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	11.50	292	7.87	200	4.33	110	10.43	265	46.3	21
3	80	2.99	76	14.02	356	11.81	300	4.96	126	11.22	285	70.6	32
4	100	4.02	102	17.01	432	12.40	315	6.50	165	11.22	285	110.2	50
6	150	5.98	152	22.01	559	13.19	335	6.50	165	11.81	*300	361.6	164
8	200	7.99	203	25.98	660	15.94	405	7.87	200	11.81	*300	760.6	345
10	250	10.00	254	30.98	787	16.81	427	8.66	220	11.81	*300	970.0	440
12	300	12.01	305	32.99	838	18.31	465	10.31	262	19.69	*500	1272.1	577
14	350	13.27	337	35.00	889	19.92	506	11.54	293	23.62	*600	1893.7	859
16	400	15.24	387	39.02	991	24.49	622	13.43	341	23.62	*600	2522.1	1144
18	450	17.24	438	42.99	1092	26.22	666	16.22	412	23.62	*600	3174.6	1440
20	500	19.25	489	47.01	1194	28.74	730	17.13	435	23.62	*600	4285.7	1944
22	550	21.26	540	50.98	1295	32.80	833	18.90	480	23.62	*600	5185.2	2352
24	600	23.27	591	55.00	1397	35.24	895	20.39	518	31.50	*800	6179.5	2803
26	650	25.00	635	57.01	1448	35.43	900	21.06	535	31.50	*800	7054.7	3200
28	700	27.01	686	60.98	1549	36.81	935	21.34	542	31.50	*800	8924.2	4048
30	750	29.02	737	65.00	1651	39.76	1010	23.82	605	31.50	*800	13668.4	6200
32	800	30.75	781	70.00	1778	41.73	1060	25.59	650	31.50	*800	12103.2	5490
34	850	32.76	832	75.98	1930	42.40	1077	25.59	650	31.50	*800	14779.5	6704
36	900	34.49	876	82.01	2083	42.40	1115	27.56	700	31.50	*800	21164.0	9600

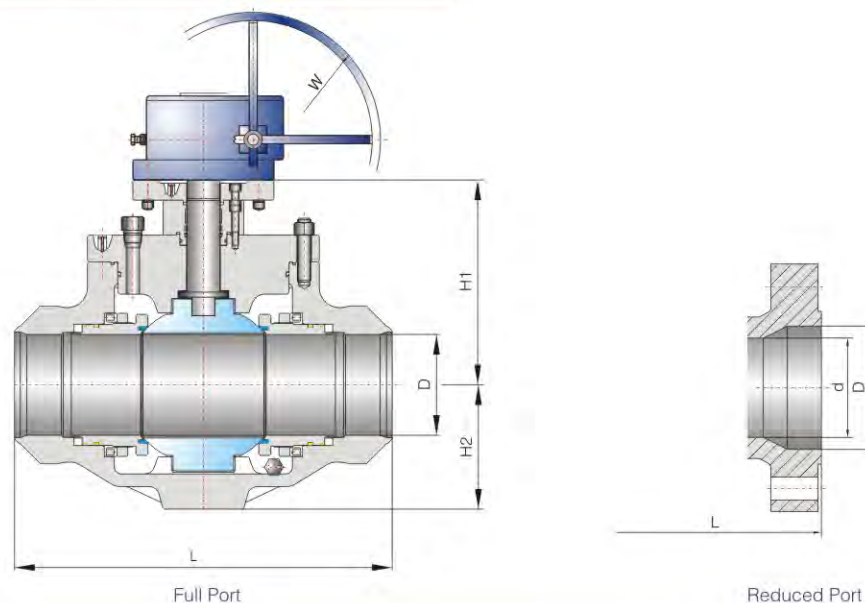
Reduced Port

Size		d		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3"2	80*50	2.01	51	2.99	76	14.02	356	7.87	200	4.33	110	10.43	265	58.4	27
4"3	100*80	2.99	76	4.02	102	17.01	432	11.81	300	4.96	126	11.22	285	88.2	40
6"4	150*100	4.02	102	5.98	152	22.01	559	12.40	315	6.50	165	11.22	285	149.9	68
8"6	200*150	5.98	152	7.99	203	25.98	660	13.19	335	6.50	165	11.81	*300	390.2	177
10"8	250*200	7.99	203	10.00	254	30.98	787	15.94	405	7.87	200	11.81	*300	676.8	307
12"10	300*250	10.00	254	12.01	305	32.99	838	16.81	427	8.66	220	11.81	*300	1122.1	509
14"10	350*250	10.00	254	13.27	337	35.00	889	16.81	427	8.66	220	11.81	*300	1591.7	722
16"12	400*300	12.01	305	15.24	387	39.02	991	18.31	465	10.31	262	19.69	*500	2138.5	970
18"14	450*350	13.27	337	17.24	438	42.99	1092	19.92	506	11.54	293	23.62	*600	2846.1	1291
20"16	500*400	15.24	387	19.25	489	47.01	1194	24.49	622	13.43	341	23.62	*600	3681.7	1670
22"18	550*450	17.24	438	21.26	540	50.98	1295	26.22	666	16.22	412	23.62	*600	4241.6	1924
24"20	600*500	19.25	489	23.27	591	55.00	1397	28.74	730	17.13	435	23.62	*600	4883.2	2215
26"22	650*550	21.26	540	25.00	635	57.01	1448	32.80	833	18.90	480	23.62	*600	5165.3	2343
28"24	700*600	23.27	591	27.01	686	60.98	1549	35.24	895	20.39	518	31.50	*800	5952.4	2700
30"24	750*600	23.27	591	29.02	737	65.00	1651	35.24	895	20.39	518	31.50	*800	6433.0	2918
32"26	800*650	25.00	635	30.75	781	70.00	1778	35.43	900	21.06	535	31.50	*800	8829.4	4005
34"28	850*700	27.01	686	32.76	832	75.98	1930	36.81	935	21.34	542	31.50	*800	9799.4	4445
36"30	900*750	29.02	737	34.49	876	82.01	2083	39.76	1010	23.82	605	31.50	*800	11011.9	4995

* Gear box

TRUNNION MOUNTED TOP ENTRY BALL VALVE

300LB
Dimensions and Weight



Full Port

Size		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	14.02	356	8.11	206	4.45	113	10.43	265	55.1	25
3	80	2.99	76	17.01	432	12.40	315	5.08	129	15.75	400	101.4	46
4	100	4.02	102	22.01	559	12.99	330	6.65	169	29.53	750	169.8	77
6	150	5.98	152	25.98	660	13.58	345	5.83	148	11.81	*300	377.0	171
8	200	7.99	203	30.98	787	16.34	415	7.28	185	11.81	*300	709.9	322
10	250	10.00	254	32.99	838	16.81	427	8.90	226	15.75	*400	1190.5	540
12	300	12.01	305	35.00	889	18.31	465	10.59	269	19.69	*500	1682.1	763
14	350	13.27	337	39.02	991	20.43	519	11.81	300	23.62	*600	2149.5	975
16	400	15.24	387	42.99	1092	25.12	638	13.78	350	23.62	*600	3086.4	1400
18	450	17.24	438	47.01	1194	26.89	683	15.83	402	23.62	*600	3780.9	1715
20	500	19.25	489	50.98	1295	29.45	748	17.56	446	23.62	*600	5465.2	2479
22	550	21.26	540	55.00	1397	33.62	854	19.37	492	23.62	*600	4894.2	2220
24	600	23.27	591	57.01	1448	36.10	917	20.91	531	31.5	*800	6371.3	2890
28	700	27.01	686	60.98	1549	37.72	958	21.89	556	31.5	*800	10086.0	4575
30	750	29.02	737	65.00	1651	40.75	1035	24.41	620	31.5	*800	12323.6	5590
32	800	30.75	781	70.00	1778	42.80	1087	26.22	666	31.5	*800	13756.6	6240
34	850	32.76	832	75.98	1930	43.46	1104	26.22	666	31.5	*800	16247.8	7370
36	900	34.49	876	82.01	2083	45.00	1143	28.27	718	31.5	*800	18595.7	8435

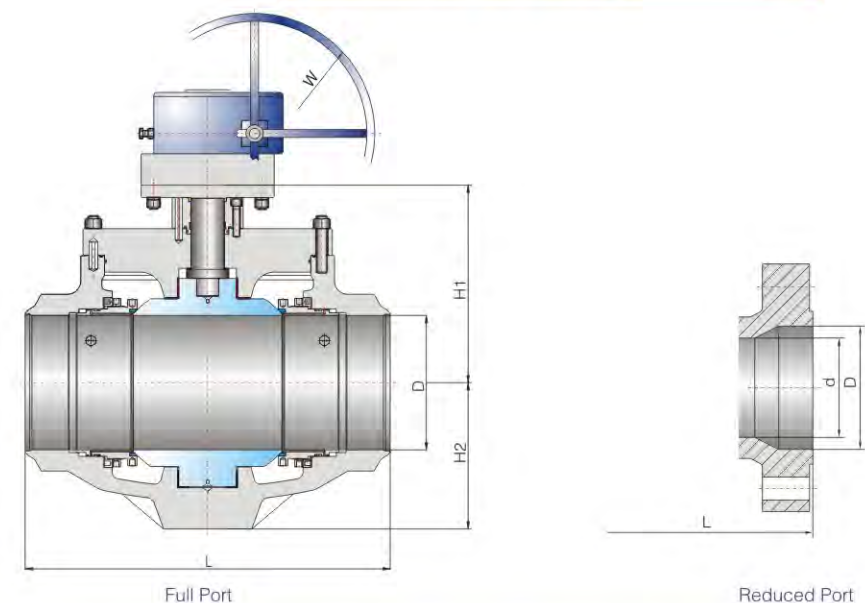
Reduced Port

Size		d		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3"2	80*50	2.01	51	2.99	76	14.02	356	8.11	206	4.45	113	10.43	265	79.4	36
4"3	100*80	2.99	76	4.02	102	17.01	432	12.40	315	5.08	129	15.75	400	121.3	55
6"4	150*100	4.02	102	5.98	152	22.01	559	12.99	330	6.65	169	29.53	750	246.9	112
8"6	200*150	5.98	152	7.99	203	25.98	660	13.58	345	5.83	148	11.81	*300	489.4	222
10"8	250*200	7.99	203	10.00	254	30.98	787	16.34	415	7.28	185	11.81	*300	839.4	381
12"10	300*250	10.00	254	12.01	305	32.99	838	16.81	427	8.90	226	15.75	*400	1278.7	580
14"10	350*250	10.00	254	13.27	337	35.00	889	16.81	427	8.90	226	15.75	*400	2028.2	920
16"12	400*300	12.01	305	15.24	387	39.02	991	18.31	465	10.59	269	19.69	*500	2314.8	1050
18"14	450*350	13.27	337	17.24	438	42.99	1092	20.43	519	11.81	300	23.62	*600	3373.0	1530
20"16	500*400	15.24	387	19.25	489	47.01	1194	25.12	638	13.78	350	23.62	*600	4034.4	1830
22"18	550*450	17.24	438	21.26	540	50.98	1295	26.89	683	15.83	402	23.62	*600	4431.2	2010
24"20	600*500	19.25	489	23.27	591	55.00	1397	29.45	748	17.56	446	23.62	*600	4894.2	2220
28"24	700*600	23.27	591	27.01	686	60.98	1549	33.62	854	19.37	492	23.62	*600	7054.7	3200
30"24	750*600	23.27	591	29.02	737	65.00	1651	36.10	917	20.91	531	31.5	*800	8708.1	3950
34"28	850*700	27.01	686	32.76	832	75.98	1930	37.72	958	21.89	556	31.5	*800	10681.2	4845
36"30	900*750	29.02	737	34.49	876	82.01	2083	40.75	1035	24.41	620	31.5	*800	13448.0	61000

* Gear box

TRUNNION MOUNTED TOP ENTRY BALL VALVE

600LB
Dimensions and Weight



FULL PORT

Size		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	11.50	292	7.68	195	4.33	110	15.75	400	83.78	38
3	80	2.99	76	14.02	356	9.45	240	4.33	110	29.53	750	176.37	80
4	100	4.02	102	17.01	432	11.02	280	6.89	175	39.37	1000	330.70	150
6	150	5.98	152	22.01	559	12.01	305	7.68	195	11.81	*300	652.57	296
8	200	7.99	203	25.98	660	15.75	400	11.02	280	11.81	*300	965.63	438
10	250	10.00	254	30.98	787	17.13	435	11.22	285	19.69	*500	1324.99	601
12	300	12.01	305	32.99	838	17.32	440	12.60	320	23.62	*600	1377.90	625
14	350	13.27	337	35.00	889	19.88	505	13.39	340	23.62	*600	2711.70	1230
16	400	15.24	387	39.02	991	23.23	590	16.14	410	23.62	*600	3384.11	1535
18	450	17.24	438	42.99	1092	27.56	700	17.52	445	23.62	*600	4706.89	2135
20	500	19.25	489	47.01	1194	30.51	775	20.08	510	23.62	*600	5820.23	2640
24	600	23.27	591	55.00	1397	33.07	840	25.20	640	23.62	*600	8730.35	3960

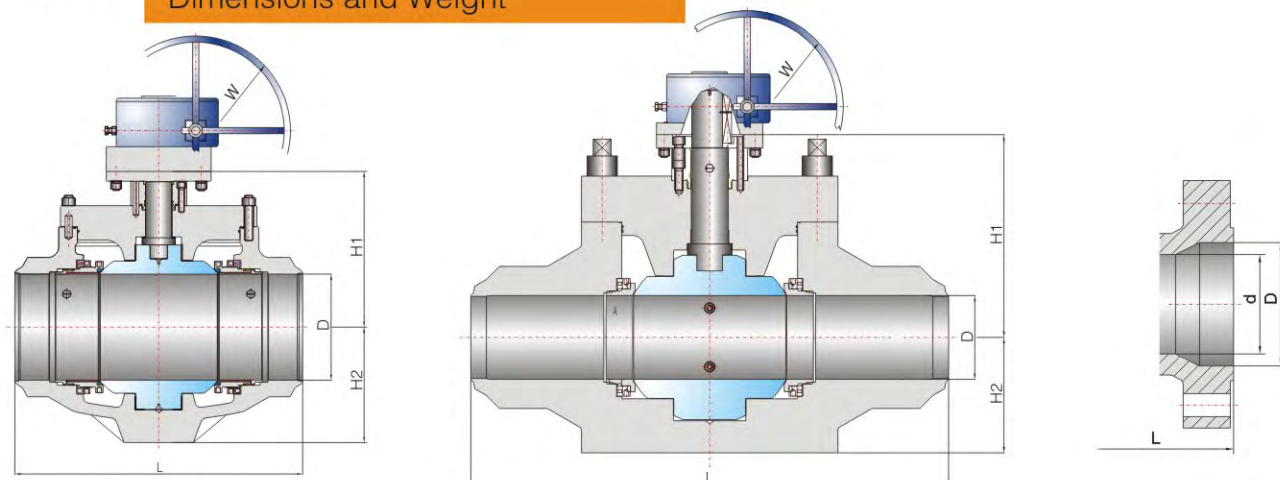
REDUCED PORT

Size		d		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3*2	80*50	2.01	51	2.99	76	14.02	356	7.68	195	4.33	110	15.75	400	119.05	54
4*3	100*80	2.99	76	4.02	102	17.01	432	9.45	240	4.33	110	29.53	750	218.26	99
6*4	150*100	4.02	102	5.98	152	22.01	559	11.02	280	6.89	175	39.37	1000	467.38	212
8*6	200*150	5.98	152	7.99	203	25.98	660	12.01	305	7.68	195	11.81	*300	670.21	304
10*8	250*200	7.99	203	10.00	254	30.98	787	15.75	400	11.02	280	11.81	*300	1124.36	510
12*10	300*250	10.00	254	12.01	305	32.99	838	17.13	435	11.22	285	19.69	*500	1988.58	902
14*10	350*250	10.00	254	13.27	337	35.00	889	17.13	435	11.22	285	19.69	*500	2403.05	1090
16*12	400*300	12.01	305	15.24	387	39.02	991	17.32	440	12.60	320	23.62	*600	2888.07	1310
18*14	450*350	13.27	337	17.24	438	42.99	1092	19.88	505	13.39	340	23.62	*600	3615.60	1640
20*16	500*400	15.24	387	19.25	489	47.01	1194	23.23	590	16.14	410	23.62	*600	5357.26	2430
24*20	600*500	19.25	489	23.27	591	55.00	1397	30.51	775	20.08	510	23.62	*600	7583.94	3440

* Gear box

TRUNNION MOUNTED TOP ENTRY BALL VALVE

900LB 1500LB
Dimensions and Weight



900LB
FULL PORT

Size		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	14.49	368	8.46	215	4.72	120	29.53	750	114.64	52
3	80	2.99	76	15.00	381	9.45	240	5.12	130	39.37	1000	191.80	87
4	100	4.02	102	17.99	457	11.02	280	6.89	175	59.06	1500	352.74	160
6	150	5.98	152	24.02	610	13.78	350	8.66	220	11.81	300	848.78	385
8	200	7.99	203	29.02	737	15.35	390	10.24	260	15.75	400	1234.60	560
10	250	10.00	254	32.99	838	18.90	480	12.20	310	23.62	600	1807.80	820
12	300	12.01	305	37.99	965	21.18	538	16.14	410	23.62	600	2480.21	1125

1500LB Full Port

Reduced Port

REDUCED PORT

Size		d		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3"2	80*40	2.01	51	2.99	76	15.00	381	8.46	215	4.72	120	29.53	750	123.46	56
4"3	100*80	2.99	76	4.02	102	17.99	457	9.45	240	5.12	130	39.37	1000	207.24	94
6"4	150*100	4.02	102	5.98	152	24.02	610	11.02	280	6.89	175	59.06	1500	498.25	226
8"8	200*150	5.98	152	7.99	203	29.02	737	15.35	390	10.24	260	15.75	400	1058.22	480
10"8	250*200	7.99	203	10.00	254	32.99	838	15.35	390	10.24	260	15.75	400	1433.01	650
12"10	300*250	10.00	254	12.01	305	37.99	965	18.90	480	12.20	310	23.62	600	1913.62	868

* Gear box

1500LB

FULL PORT

Size		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51.00	14.49	368.00	8.07	205.00	4.72	120.00	29.53	750	132.28	60.00
3	80	2.99	76.00	18.5	470.00	8.27	210.00	4.92	125.00	39.37	1000	253.53	115.00
4	100	4.02	102.00	21.5	546.00	9.65	245.00	6.30	160.00	11.81	100	427.70	194.00
6	150	5.75	146.00	27.76	705.00	13.19	335.00	10.04	255.00	15.75	*400	1278.69	580.00
8	200	7.64	194.00	32.76	832.00	16.81	427.00	13.39	340.00	19.69	*500	1657.88	752.00
10	250	9.49	241.00	39.02	991.00	19.76	502.00	15.00	381.00	23.62	*600	2634.54	1195.00
12	300	11.38	289.00	44.49	1130.00	20.98	533.00	17.24	438.00	23.62	*600	4784.06	2170.00

REDUCED PORT

Size		d		D		L		H1		H2		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3"2	80*40	2.01	51	2.99	76	18.50	470	8.07	205.00	4.72	120.00	29.53	750	180.78	82
4"3	100*80	2.99	76	4.02	102	21.50	546	8.27	210.00	4.92	125.00	39.37	1000	330.70	150
6"4	150*100	4.02	102	5.75	146	27.76	705	9.65	245.00	6.30	160.00	11.81	100	650.37	295
8"6	200*150	5.75	146	7.64	194	32.76	832	13.19	335.00	10.04	255.00	15.75	*400	1521.20	690
10"8	250*200	7.64	194	9.49	241	39.02	991	16.81	427.00	13.39	340.00	19.69	*500	2050.31	930
12"10	300*250	9.49	241	11.38	289	44.49	1130	19.76	502.00	15.00	381.00	23.62	*600	2954.21	1340

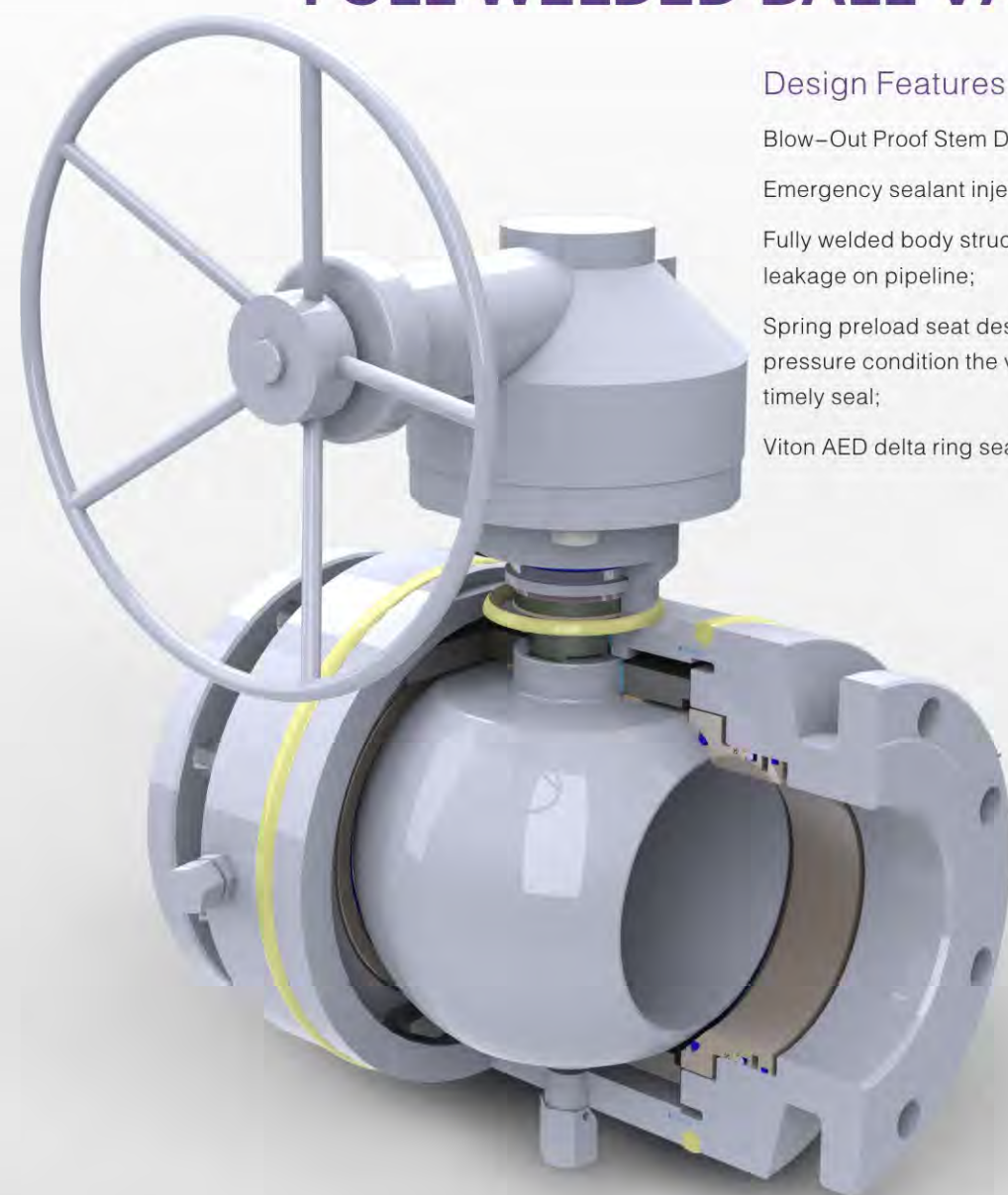
* Gear box

TRUNNION MOUNTED FULL WELDED BALL VALVE

YDF Fully welded ball valve combines the strength of forged components with a compact structure design, are complied to per API 6D, ASME B16.34 standard, engineered for heavy duty, limited-maintenance performance and made of forged steel to assure uniform fine grain structure and toughness, and the size range is from 2 inch upto 60 inch, pressure rating is from 150LB upto 2500LB. This valve is commonly selected for gas transmission, gas pipeline, gas plants etc a number of applications.



TRUNNION MOUNTED FULL WELDED BALL VALVE



Design Features

Blow-Out Proof Stem Design;

Emergency sealant injection fitting;

Fully welded body structure: make sure no body leakage on pipeline;

Spring preload seat design, even under low pressure condition the valve can also ensure timely seal;

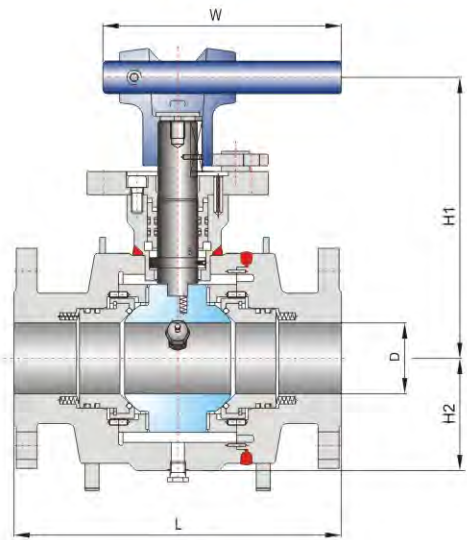
Viton AED delta ring seat seal.

Part	Standard	Stainless Steel	Low Temperature	Sour Service
Body	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A105N
Closure	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A105N
Ball	ASTM A105N+ENP	ASTM A182 F316	ASTM A350 LF2+ENP	ASTM A105N+ENP
Seat Ring	ASTM A105N+ENP	ASTM A182 F316	ASTM A350 LF2+ENP	ASTM A105N+ENP
Sealing Ring(Δ Ring)	Viton AED	Viton AED	Viton AED	Viton AED
Support Ring	RPTFE	RPTFE	RPTFE	RPTFE
Back Up Ring	ASTM A105N+ENP	ASTM A182 F316	ASTM A350 LF2+ENP	ASTM A105N+ENP
Stem	ASTM A105N+ENP	ASTM A182 F316	ASTM A350 LF2+ENP	ASTM A105N+ENP
Spring	Inconel X-750	Inconel X-750	Inconel X-750	Inconel X-750
Fire Safe Seal	Graphite	Graphite	Graphite	Graphite
O-Ring	Viton A	Viton A	Viton A	Viton A
Back Up Ring	RPTFE	RPTFE	RPTFE	RPTFE
Gland Cap	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A105N
Top Flange	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A105N
Trunnion Support	ASTM A105N+ENP	ASTM A182 F316	ASTM A350 LF2+ENP	ASTM A105N+ENP
Grounding Spring	SS316	SS316	SS316	SS316
Steel Ball	SS316	SS316	SS316	SS316
Gasket	SS+Graphite	SS+Graphite	SS+Graphite	SS+Graphite
Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A320 L7	ASTM A193 B7M
Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 4	ASTM A194 2HM
Injection	SS304	SS316	SS304	SS304
Drain valve	SS304	SS316	SS304	SS304
Vent valve	SS304	SS316	SS304	SS304
Pin	Carbon Steel	Stainless steel	Stainless steel	Carbon Steel
Key	Carbon Steel	Stainless steel	Stainless steel	Carbon Steel
Bearing	SS+PTFE	SS+PTFE	SS+PTFE	SS+PTFE
Nameplate	SS304	SS304	SS304	SS304

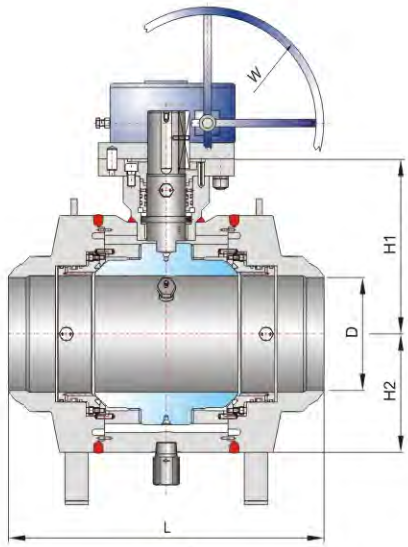


TRUNNION MOUNTED
FULL WELDED BALL VALVE

150LB 300LB
Dimensions and Weight



150LB



300LB

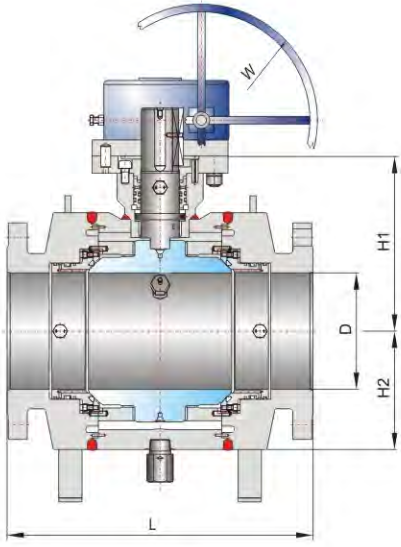
Size		D		L				H1		H2		W		Weight	
in	mm	in	mm	RF		BW		in	mm	in	mm	in	mm	lb	kg
2	50	1.93	51	7.01	178	8.50	216	7.87	200	4.33	110	10.43	265	66.1	30
3	80	2.91	74	7.99	203	11.14	283	11.81	300	4.96	126	11.22	285	132.3	60
4	100	4.02	102	9.02	229	12.01	305	12.40	315	6.50	165	11.22	285	202.8	92
6	150	5.98	152	15.51	394	17.99	457	13.19	335	6.50	165			418.9	190
8	200	7.99	203	17.99	457	20.51	521	15.94	405	7.87	200			760.6	345
10	250	10.00	254	20.98	533	22.01	559	16.81	427	8.66	220			1091.3	495
12	300	12.01	305	24.02	610	25.00	635	18.31	465	10.31	262			1554.2	705
14	350	13.27	337	27.01	686	30.00	762	19.92	506	11.54	293			1893.7	859
16	400	15.24	387	30.00	762	32.99	838	24.49	622	13.43	341			2248.7	1020
18	450	17.24	438	34.02	864	35.98	914	26.22	666	16.22	412			3174.6	1440
20	500	19.25	489	35.98	914	39.02	991	28.74	730	17.13	435			4228.4	1918
22	550	21.26	540	40.00	1016	40.00	1016	32.80	833	18.90	480			5185.2	2352
24	600	23.27	591	42.01	1067	45.00	1143	35.24	895	20.39	518			6179.5	2803
26	650	25.00	635	45.00	1143	49.02	1245	35.43	900	21.06	535			7054.7	3200
28	700	27.01	686	49.02	1245	52.99	1346	36.81	935	21.34	542			8917.5	4045
30	750	29.02	737	50.98	1295	55.00	1397	39.76	1010	23.82	605			10626.1	4820
32	800	30.75	781	54.02	1372	60.00	1524	41.73	1060	25.59	650			12103.2	5490
34	850	32.76	832	57.99	1473	64.02	1626	42.40	1077	25.59	650			14779.5	6704
36	900	34.49	876	60.00	1524	67.99	1727	43.90	1115	27.56	700			16787.9	7615
40	1000	38.50	978	69.02	1753	77.01	1956	55.12	1400	34.06	865			24310.0	11027
42	1050	40.24	1022	73.03	1855	82.01	2083	62.91	1598	35.43	900			26697.5	12110
48	1200	45.98	1168	84.02	2134	84.02	2134	67.80	1722	41.02	1042			40476.2	18360
54	1350	51.73	1314	97.99	2489	97.99	2489	70.71	1796	45.87	1165			71869.5	32600
56	1400	53.62	1362	101.30	2573	101.30	2573	71.65	1820	50.39	1280			80467.4	36500
60	1500	57.52	1461					73.43	1865	58.90	1496			86199.3	39100

300LB

Size		D		L				H1		H2		W		Weight	
				RF		BW									
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	8.50	216	8.50	216	8.11	206	4.45	113	10.43	265	68.3	31
3	80	2.99	76	11.14	283	11.14	283	12.40	315	5.08	129	15.75	400	152.1	69
4	100	4.02	102	12.01	305	12.01	305	12.99	330	6.65	169	29.53	750	200.6	91
6	150	5.98	152	15.87	403	15.87	403	13.58	345	5.83	148			465.2	211
8	200	7.99	203	19.76	502	20.51	521	16.34	415	7.28	185			828.9	376
10	250	10.00	254	22.36	568	22.01	559	16.81	427	8.90	226			1190.5	540
12	300	12.01	305	25.51	648	25.00	635	18.31	465	10.59	269			1682.1	763
14	350	13.27	337	30.00	762	30.00	762	20.43	519	11.81	300			1984.1	900
16	400	15.24	387	32.99	838	32.99	838	25.12	638	13.78	350			2866.1	1300
18	450	17.24	438	35.98	914	35.98	914	26.89	683	15.83	402			3780.9	1715
20	500	19.25	489	39.02	991	39.02	991	29.45	748	17.56	446			4607.6	2090
22	550	21.26	540	42.99	1092	42.99	1092	33.62	854	19.37	492			4894.2	2220
24	600	23.27	591	45.00	1143	45.00	1143	36.10	917	20.91	531			6371.3	2890
28	700	27.01	686	52.99	1346	52.99	1346	37.72	958	21.89	556			10086.0	4575
30	750	29.02	737	55.00	1397	55.00	1397	40.75	1035	24.41	620			12323.6	5590
32	800	30.75	781	60.00	1524	60.00	1524	42.80	1087	26.22	666			13756.6	6240
34	850	32.76	832	64.02	1626	64.02	1626	43.46	1104	26.22	666			16247.8	7370
36	900	34.49	876	67.99	1727	67.99	1727	45.00	1143	28.27	718			18595.7	8435
40	1000	38.50	978	77.01	1956	77.01	1956	56.50	1435	34.92	887			24691.4	11200
42	1050	40.24	1022	82.01	2083	82.01	2083	64.49	1638	36.34	923			28769.8	13050
48	1200	45.98	1168	85.43	2170	85.43	2170	69.49	1765	42.05	1068			41887.1	19000
54	1350	51.73	1314					70.71	1796	45.87	1165			71869.5	32600
56	1400	53.62	1362	100.12	2543	100.12	2543	71.65	1820	50.39	1280			80467.4	36500
60	1500	57.52	1461	103.43	2627	103.43	2627	73.43	1865	58.90	1496			86199.3	39100

TRUNNION MOUNTED
FULL WELDED BALL VALVE

600LB 900LB
Dimensions and Weight

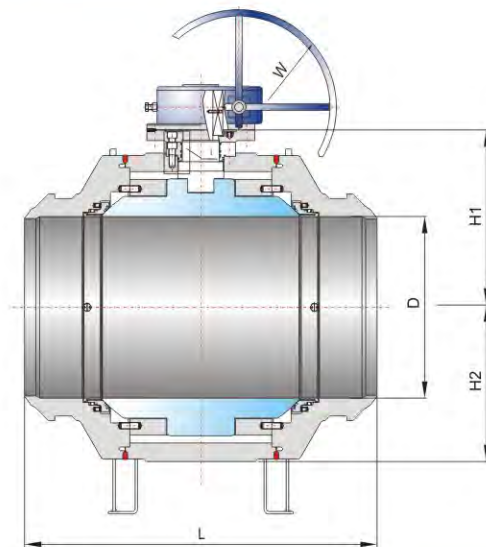


600LB

Size		D		L						H1		H2		W		Weight	
				RF		BW		RTJ									
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	11.50	292	11.50	292	11.61	295.00	8.11	206	4.45	113	18.11	460	99.2	45
3	80	2.99	76	14.02	356	14.02	356	14.13	359.00	12.40	315	5.08	129	29.53	750	176.4	80
4	100	4.02	102	17.01	432	17.01	432	17.13	435.00	12.99	330	6.65	169	39.37	1000	330.7	150
6	150	5.98	152	22.01	559	22.01	559	22.13	562.00	13.58	345	5.83	148			546.7	248
8	200	7.99	203	25.98	660	25.98	660	26.14	664.00	16.34	415	7.28	185			965.6	438
10	250	10.00	254	30.98	787	30.98	787	31.14	791.00	16.81	427	8.90	226			1545.4	701
12	300	12.01	305	32.99	838	32.99	83	33.11	841.00	18.31	465	10.59	269			1377.9	625
14	350	13.27	337	35.00	889	35.00	889	35.12	892.00	20.43	519	11.81	300			2711.7	1230
16	400	15.24	387	39.02	991	39.02	991	39.13	994.00	25.12	638	13.78	350			3384.1	1535
18	460	17.24	438	42.99	1092	42.99	1092	43.11	1095.00	26.89	683	15.83	402			4706.9	2135
20	500	19.25	489	47.01	1194	47.01	1194	47.24	1200.00	29.45	748	17.56	446			5820.2	2640
22	550	21.26	540	50.98	1295	50.98	1295	51.38	1305.00	33.62	854	19.37	492			7429.6	3370
24	600	23.27	591	55.00	1397	55.00	1397	55.39	1407.00	36.10	917	20.91	531			8730.4	3960
28	700	27.01	686	60.98	1549	60.98	1549	61.50	1562.00	37.72	958	21.89	556			13360.1	6060
30	750	29.02	737	65.00	1651	65.00	1651	65.51	1664.00	40.75	1035	24.41	620			14749.0	6690
32	800	30.75	781	70.00	1778	70.00	1778	70.63	1794.00	42.80	1087	26.22	666			17251.3	7825
34	850	32.76	832	75.98	1930	75.98	1930	76.61	1946.00	43.46	1104	26.22	666			18651.2	8460
36	900	34.49	876	82.01	2083	82.01	2083	82.64	2099.00	45.00	1143	28.27	718			23479.4	10650
40	1000	38.50	978	85.00	2159	85.43	2170	85.43	2170.00	56.50	1435	34.92	887			32408.1	14700
42	1050	40.24	1022	85.63	2175	85.63	2175	85.63	2175.00	64.49	1638	36.34	923			14131.7	6410
48	1200	45.98	1168	95.87	2435	95.87	2435	95.87	2435.00	69.49	1765	42.05	1068			53352.1	24200
54	1350	51.73	1314							70.71	1796	45.87	1165			71871.1	32600
56	1400	53.62	1362	106.69	2710	106.69	2710	106.69	2710.00	71.65	1820	50.39	1280			80469.1	36500
60	1500	57.52	1461	110.00	2794	110.00	2794	110.00	2794.00	73.43	1865	58.90	1496			86201.2	39100

TRUNNION MOUNTED FULL WELDED BALL VALVE

1500LB 2500LB
Dimensions and Weight



1500LB

Size		D		L						H1		H2		W		Weight	
				RF		BW		RTJ									
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	2.01	51	14.49	368	14.49	368	14.61	371	8.70	221	5.12	130	29.53	750	132.3	60
3	80	2.99	76	18.50	470	18.50	470	18.62	473	11.69	297	5.98	152			253.5	115
4	100	4.02	102	21.50	546	21.50	546	21.61	549	13.58	345	6.54	166			427.7	194
6	150	5.75	146	27.76	705	27.76	705	27.99	711	14.37	365	7.56	192			1278.7	580
8	200	7.64	194	32.76	832	32.76	832	33.11	841	16.65	423	9.37	238			1657.9	752
10	250	9.49	241	39.02	991	39.02	991	39.37	1000	22.05	560	10.79	274			2634.5	1195
12	300	11.38	289	44.49	1130	44.49	1130	45.12	1146	23.94	608	12.52	318			4784.1	2170
14	350	12.52	318	49.49	1257	49.49	1257	50.24	1276	26.06	662	19.02	483			4960.4	2250
16	400	14.25	362	54.49	1384	54.49	1384	55.39	1407	31.34	796	21.02	534			6084.8	2760
18	450	16.02	407	60.51	1537	60.51	1537	61.38	1559	33.43	849	23.86	606			8038.1	3646
20	500	17.99	457	65.51	1664	65.51	1664	66.38	1686	37.95	964	27.01	686			9914.2	4497
22	550	19.49	495	71.50	1816	71.50	1816			40.35	1025	28.78	731			12634.8	5731
24	600	21.02	534	80.43	2043	80.43	2043	81.54	2071	41.93	1065	30.51	775			15765.3	7151

2500LB

Size		D		L						H1		H2		W		Weight	
				RF		BW		RTJ									
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	1.73	44	17.76	451	17.76	451	17.87	454.00	9.06	230	4.76	121			198.4	90
3	80	2.52	64	22.76	578	22.75	578	22.99	584.00	11.18	284	5.75	146			440.9	200
4	100	3.50	89	26.50	673	26.90	673	26.89	623.00	11.93	303	6.46	164			848.8	385
6	150	5.24	133	35.98	914	35.98	914	36.50	927.00	15.51	394	8.66	220			1715.2	778
8	200	7.13	181	40.24	1022	40.21	1022	40.87	1038.00	19.21	488	12.28	312			2980.7	1352
10	250	8.86	225	50.00	1270	50.00	1270	50.87	1292.00	23.62	600	16.73	425			4711.3	2137
12	300	10.51	267	55.98	1422	55.98	1422	56.89	1445.00	34.33	872	24.76	629			7202.5	3267

ENGINEERING DATA

Operating Torque

Size	150LB(2.0MPa)			300LB(5.0MPa)			600LB(10.0MPa)		
	N.m			N.m			N.m		
in	Full Pressure	Flange No.	Stem Diamete	Full Pressure	Flange No.	Stem Diamete	Full Pressure	Flange No.	Stem Diamete
1 1/2"	50	F10	22		F10	22	90	F10	22
2"	80	F10	27	150	F10	27	110	F10	27
3"	130	F12	36	180	F12	36	180	F12	36
4"	180	F12	36	240	F12	36	480	F14	40
6"	450	F14	48	500	F14	48	800	F14	48
8"	1000	F14	48	1200	F14	48	2000	F16	58
10"	1500	F16	58	2200	F16	58	3500	F25	75
12"	2000	F16	58	2800	F16	58	4800	F25	75
14"	2560	F25	75	4400	F25	75	7500	F30	98
16"	3200	F25	75	5500	F25	75	10500	F30	98
18"	4950	F30	98	8000	F30	98	14000	F30	105
20"	6200	F30	98	10000	F30	98	19430	F30	115
22"	7350	F30	98	13500	F30	98	24000	F30	115
24"	10500	F30	98	18000	F30	115	30000	F35	130
26"	12800	F30	115	21580	F30	115	35500	F40	140
28"	16800	F35	125	27300	F35	125	40000	F40	140

Size	900LB(16.0MPa)			1500LB(25.0MPa)			2500LB(42.0MPa)		
	N.m			N.m			N.m		
in	Full Pressure	Flange No.	Stem Diamete	Full Pressure	Flange No.	Stem Diamete	Full Pressure	Flange No.	Stem Diamete
1.5"	100	F10	27	100	F10	27	320	F12	36
2"	220	F12	36	220	F12	36	450	F14	40
3"	400	F14	40	750	F14	40	1200	F16	48
4"	900	F16	48	1000	F16	48	1800	F16	58
6"	1600	F16	58	2500	F16	58	4500	F25	75
8"	3800	F25	75	4500	F25	75	7500	F25	85
10"	4500	F25	75	7500	F25	85	11500	F30	98
12"	6500	F30	98	11000	F30	105	17000	F30	105
14"	7500	F30	105	18000	F30	115			
16"	13500	F30	115	22000	F35	130			
18"	21500	F30	115	32000	F35	130			
20"	27500	F35	130	43000	F40	150			
22"	32000	F35	130	48000	F40	155			
24"	44000	F40	140	71000	F40	160			

Product Warranty

Seller will replace without charge or refund the purchase price of products provided by seller which prove to be defective in mater or workmanship, provided in each case that the product is proper 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 this paragraph is in lieu of all other warranties, either expressed or implied. With respect to warranties, this paragraph states Buyer's exclusive remedy and seller's exclusive liability.

We confirm spare kit availability during warranty period and periods following the warranty duration.

