



Agent Inforamtion:

WZLD[®]

QUALITY VALVE SOLUTIONS
MADE FOR THE WORLD



FLOATING BALL VALVE

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WZLD[®]

LEADER VALVE GROUP

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LEADER VALVE GROUP

Catalog No.:LEADER-BA-02

QUALITY VALVE SOLUTIONS MADE FOR THE WORLD



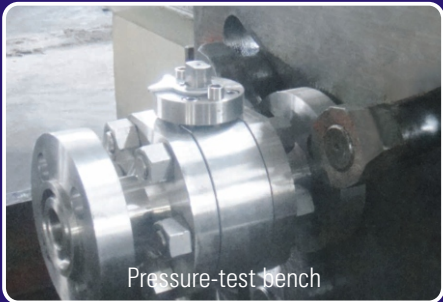
ABOUT US

We are one of the leading manufacturers in china to supply quality valve solutions for oil, gas, refinery, chemistry, marine, power plant, pipeline transmit industries etc.; We provide full range of industrial valves products, include Gate valve, Globe valve, Check valve, Ball valve, Plug valve, Butterfly valve, strainer etc. of different types ,sizes and material, Available standard include API, BS, JIS, EN, DIN, GOST etc. Our valves can be Carbon steel, Low-Temperature carbon steel, Austenitic stainless steel, Cr-Mo alloy steel, Duplex stainless steel, Super-duplex stainless steel, Bronze, Nickel alloy, Hastelloy, Titanium, Zirconium etc. The maximum pressure rating can be 2500lbs(PN420), The maximum size can be 80" (DN2000), service temperature can be -196 ℃-600 ℃

We own advanced metal material lab, which include PMI (PDA -5500S): It can analyse following element: Fe, C, Si, Mn, P, S, Cu, Ni, Cr, Mo, Ti, Al, V, Nb, N; so it can ensure us impose reliable control in metal material like casting and forging.

All our branch factories have strict Quality control system as per ISO 9001, API 600, API 6D , API Q1, CE/PED etc. so our products are designed and manufactured strictly as per client's requirements and latest manufacturing specification of international standards organization. We welcome most severe and critical valve application.

Leader Valve Group mission is to create a professional and comprehensive quality valve solutions for better serving the customers in the world;



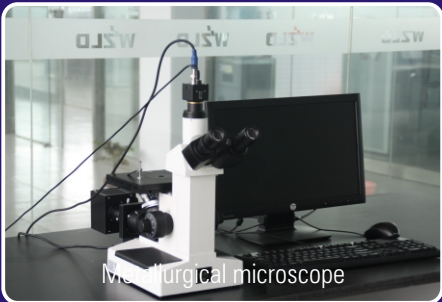
Pressure-test bench



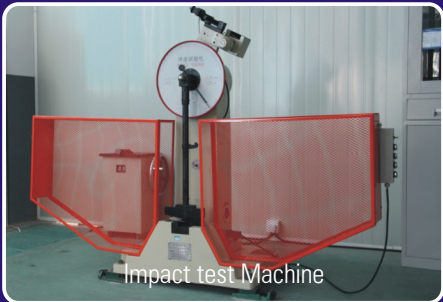
PMI equipment



Cryogenic Box



Metalurgical microscope



Impact test Machine

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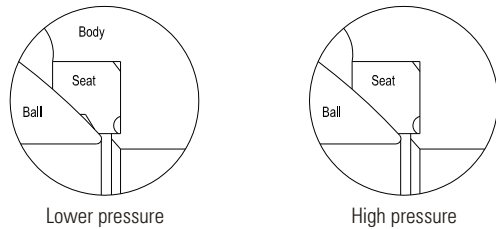


DESIGN STRUCTURAL FEATURES

1. Seat Design

The floating ball valve adopts the design of flexible seal ring structure. When the medium pressure is lower, the contact area of seal ring and ball is smaller, so higher sealing ratio is formed at the place where the seal ring and ball contact to ensure reliable sealing. When the medium pressure is higher, the contact area of seal ring and ball becomes bigger along with the elastic deformation of seal ring, so the seal ring can endure higher medium thrust without being damaged.

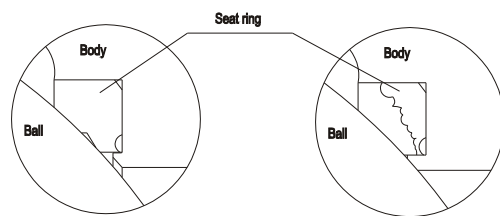
Elastic Seat



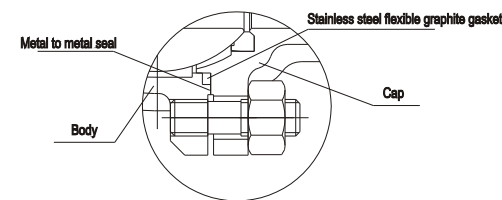
2. Fire-safe Design Structure

In case of fire during the use of valve, the seat ring made of PTFE or other non-metal materials will be decomposed or damaged under high temperature and cause higher leakage. The fireproof seal ring is set between ball and seat so that after the valve seat is burnt, the medium will push the ball rapidly towards the downstream metal seal ring to form the auxiliary metal to metal sealing structure, which can effectively control valve leakage. In addition, the middle flange sealing gasket is made of metal wound gasket, which can ensure sealing even under high temperature. The fireproof structure design of floating ball valve conforms to requirements in API 607, API 6FA, BS6755 and other standards.

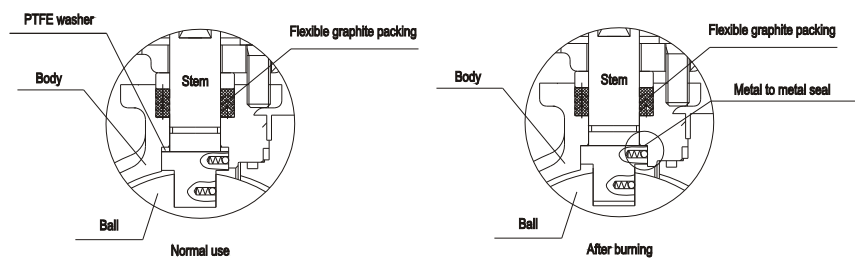
Fire-safe design structure of seat



Fire-safe design structure of middle flange

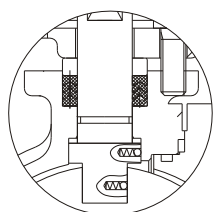


Fire-safe design structure of stem



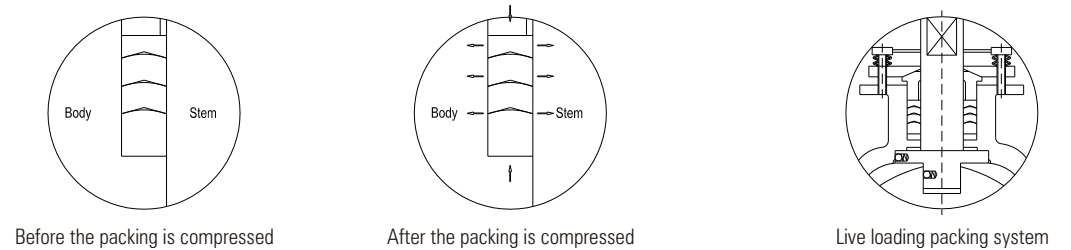
3. Reliable stem sealing

The stem is provided with the shoulder at its bottom so that it will not be blown out by the medium even under the extreme conditions such as abnormal pressure rise inside the valve cavity, failure of gland plate and etc. In addition, to avoid leakage after the stem packing is burnt in case of fire, the thrust bearing is set at the place where the stem shoulder and body contact to form a reverse sealing seat. The sealing force of the reverse seal will increase according to the increase of medium pressure, so as to ensure reliable stem sealing under various pressure, prevent leakage and avoid accident spreading.



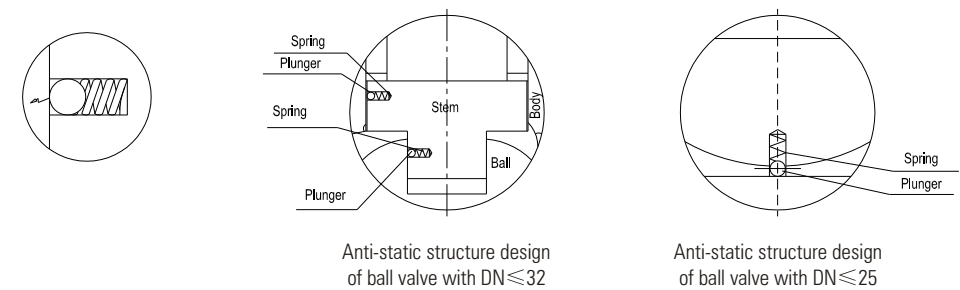
The bottom-mounted stem will not be blown out by medium pressure.

The stem adopts V type packing sealing structure. The V type packing can effectively change the pressing force and medium force of the gland into the sealing force of the stem. According to user requirements, the disc spring loaded packing pressing mechanism can be adopted to make the sealing of stem packing more reliable.



4. Anti-static design structure

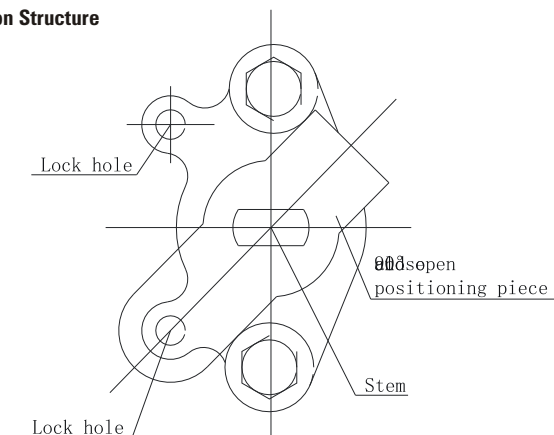
The ball valve is provided with the anti-static structure and adopts the static electricity discharge device to directly form a static channel between the ball and body or form a static channel between the ball and body through the stem, so as to discharge the static electricity produced due to friction during the opening and closing of ball and seat through the pipeline, avoiding fire or explosion that may be caused by static spark and ensuring system safety.



5. Lockable design & Misoperation Prevention structure.

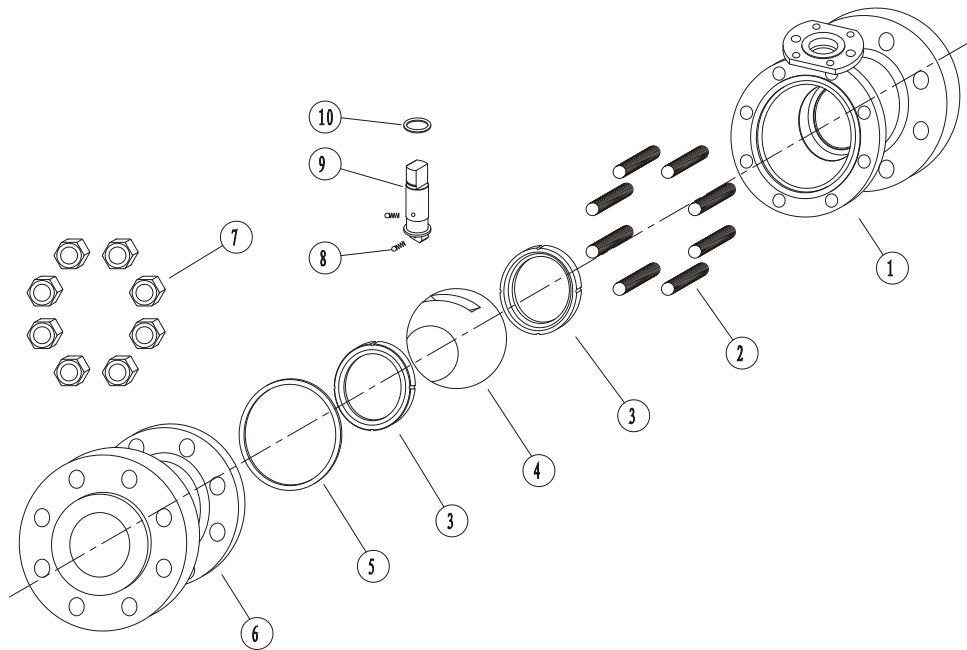
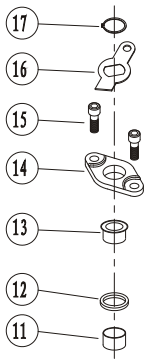
The manual ball valve can be locked by a lock when it is at the full open or full close position. The 90° open and close positioning piece with lock hole is designed to avoid valve misoperation caused due to handle operation by non-operators, and it can also prevent valve opening or closing, or other accidents caused by pipeline vibration or unpredictable factors. It is very effective especially for inflammable and explosive oil, chemical and medical working pipelines or field tubing. The part on the head of the stem that is installed with the handle adopts flat design. When the valve is opened, the handle is parallel to the pipeline, and when the valve is closed, the handle is vertical to the pipeline, so that the opening and closing indications of the valve are guaranteed to have no error.

Lockable design & Misoperation Prevention Structure



CAST STEEL FLOATING BALL VALVE(CAST)

1	Body
2	Stud
3	Seat
4	Ball
5	Anti-fire gasket
6	Bonnt
7	Hexagon nut
8	Anti-static device
9	Stem
10	Thrust Bearing
11	Sliding bearing
12	Packing
13	Packing bushing
14	Packing gland
15	Socket head cap screw
16	Stopper
17	Retainer ring



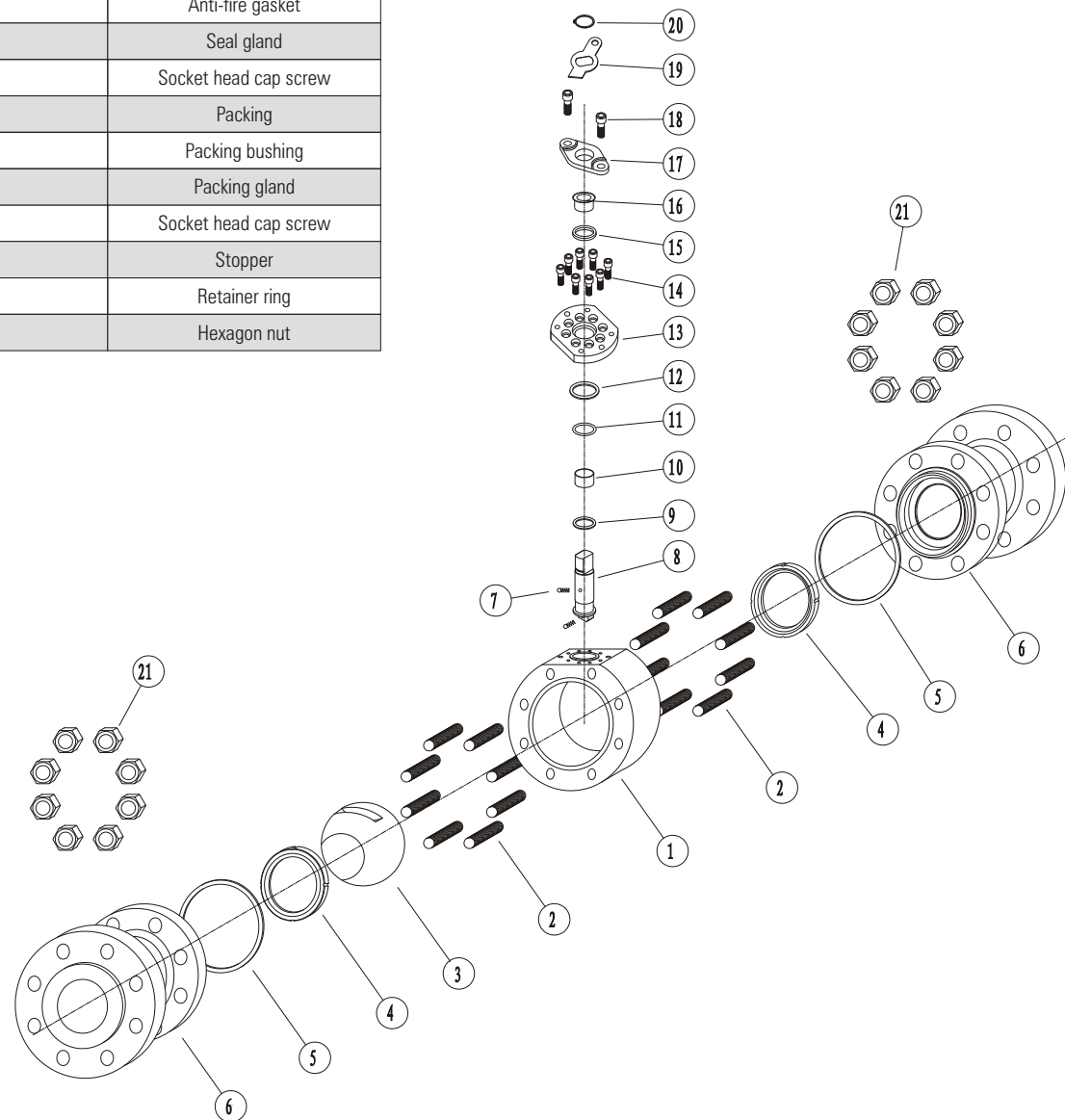
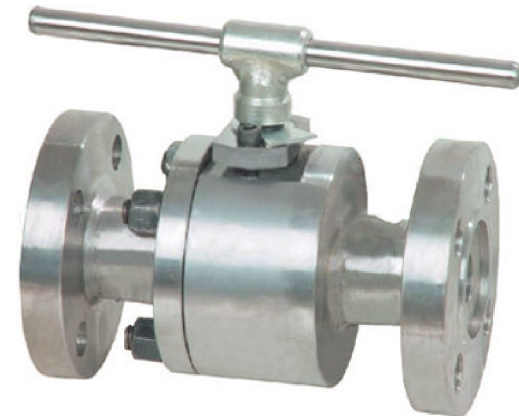
CAST STEEL FLOATING BALL VALVE(CAST)

Part Materials And Main Parameters

Nominal diameter(in)			NPS 1/2～8				
Nominal pressure(Class)			Class150～Class600				
Material of parts	No	Part Name	Material				
			Carbon Steel	Stainless Steel			
	1	Body	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M	ASTM A351 CF3	ASTM A351 CF3M
	2	Stud	A193 B7M	A193 B8	A193 B8M	A193 B8	A193 B8M
	3	Seat	PTFE/NYLON	PTFE/NYLON/PEEK/PPL	PTFE/NYLON/PEEK/PPL	PTFE/NYLON/PEEK/PPL	PTFE/NYLON/PEEK/PPL
	4	Ball	ASTM A105 • ENP	ASTM A182 304	ASTM A182 316	ASTM A182 304L	ASTM A182 316L
	5	Anti-fire gasket	SST+Graphite	SST+Graphite	SST+Graphite	SST+Graphite	SST+Graphite
	6	Bonnt	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M	ASTM A351 CF3	ASTM A351 CF3M
	7	Hexagon nut	A194 2HM	A194-8	A194 -8M	A194-8	A194-8M
	8	Anti-static device	Combined parts	Combined parts	Combined parts	Combined parts	Combined parts
	9	Stem	ASTM A182 F6a	ASTM A182 304	ASTM A182 316	ASTM A182 304L	ASTM A182 316L
	10	Thrust Bearing	PTFE	PTFE	PTFE	PTFE	PTFE
	11	Sliding bearing	PTFE	PTFE	PTFE	PTFE	PTFE
	12	Packing	Graphite	Graphite	Graphite	Graphite	Graphite
	13	Packing bushing	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F6a
	14	Packing gland	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB
	15	Socket head cap screw	A193 B7M	A193 B7M	A193 B7M	A193 B7M	A193 B7M
	16	Stopper	A3.Zn	A3.Zn	A3.Zn	A3.Zn	A3.Zn
	17	Retainer ring	65Mn	65Mn	65Mn	65Mn	65Mn
Applicable service conditions		Applicable media	Water, steam, oil, gas, liquefied gas,natural gas,etc.	Nitric Acid	Nitric Acid	Strong Oxidizer	Urea
		Applicable temperature	≤120℃ (PTFE)、≤80℃ (NYLON)、≤250℃ (PEEK)、≤250℃ (PPL)				
Design and manufacturing			API 608				
Face-to-face dimensions			ASME B16.10				
Type of connection			Flange	ASME B16.5		Butt welding	ASME B16.25
Pressure test			API 598				
Transmission mode			Manual, worm and worm gear transmission, pneumatic, electric				

FORGED STEEL FLOATING BALL VALVE(FORGED)

1	Body
2	Stud
3	Ball
4	Seat
5	Anti-fire gasket
6	Bonnet
7	Anti-static device
8	Stem
9	Thrust bearing
10	Sliding bearing
11	O Ring
12	Anti-fire gasket
13	Seal gland
14	Socket head cap screw
15	Packing
16	Packing bushing
17	Packing gland
18	Socket head cap screw
19	Stopper
20	Retainer ring
21	Hexagon nut

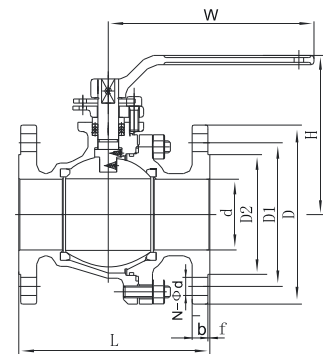


FORGED STEEL FLOATING BALL VALVE(FORGED)

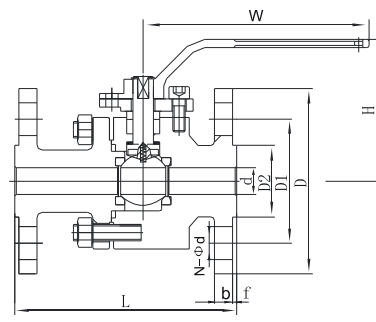
Part Materials And Main Parameters

Nominal diameter(in)			NPS 1/2～8				
Nominal pressure(Class)			Class150～Class600				
Material of parts	No	Part Name	Material				
			Carbon Steel	Stainless Steel			
	1	Body	ASTM A105	ASTM A182 304	ASTM A182 316	ASTM A182 304L	ASTM A182 316L
	2	Stud	A193 B7M	A193 B8	A193 B8M	A193 B8	A193 B8M
	3	Ball	ASTM A105 • ENP	ASTM A182 304	ASTM A182 316	ASTM A182 304L	ASTM A182 316L
	4	Seat	PTFE/NYLON/PEEK/PPL	PTFE/NYLON/PEEK/PPL	PTFE/NYLON/PEEK/PPL	PTFE/NYLON/PEEK/PPL	PTFE/NYLON/PEEK/PPL
	5	Anti-fire gasket	SST + Graphite	SST+Graphite	SST+Graphite	SST + Graphite	SST+Graphite
	6	Bonnet	ASTM A105	ASTM A182 304	ASTM A182 316	ASTM A182 304L	ASTM A182 316L
	7	Anti-static device	Combined parts	Combined parts	Combined parts	Combined parts	Combined parts
	8	Stem	ASTM A182 F6a	ASTM A182 304	ASTM A182 316	ASTM A182 304L	ASTM A182 316L
	9	Thrust bearing	PTFE	PTFE	PTFE	PTFE	PTFE
	10	Sliding bearing	PTFE	PTFE	PTFE	PTFE	PTFE
	11	O Ring	VITON	VITON	VITON	VITON	VITON
	12	Anti-fire gasket	SST + Graphite	SST+Graphite	SST+Graphite	SST + Graphite	SST+Graphite
	13	Seal gland	ASTM A105 • ENP	ASTM A182 304	ASTM A182 316	ASTM A182 304L	ASTM A182 316L
	14	Socket head cap screw	A193 B7M	A193 B8	A193 B8M	A193 B8	A193 B8M
	15	Packing	Graphite	Graphite	Graphite	Graphite	Graphite
	16	Packing bushing	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F6a
	17	Packing gland	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB
	18	Socket head cap screw	A193 B7M	A193 B7M	A193 B7M	A193 B7M	A193 B7M
	19	Stopper	A3.Zn	A3.Zn	A3.Zn	A3.Zn	A3.Zn
	20	Retainer ring	65Mn	65Mn	65Mn	65Mn	65Mn
	21	Hexagon nut	A194 2H	A194-8	A194 -8M	A194-8	A194-8M
Applicable service conditions		Applicable media	Water, steam, oil, gas, liquefied gas,natural gas,etc.	Nitric Acid	Nitric Acid	Strong Oxidizer	Urea
		Applicable temperature	≤120℃ (PTFE)、≤80℃ (NYLON)、≤250℃ (PEEK)、≤250℃ (PPL)				
Design and manufacturing			API 608				
Face-to-face dimensions			ASME B16.10				
Type of connection			Flange	ASME B16.5		Butt welding	ASME B16.25
Pressure test			API 598				
Transmission mode			Manual, worm and worm gear transmission, pneumatic, electric				

2-PC FLOATING BALL VALVE



Floating cast steel ball valve

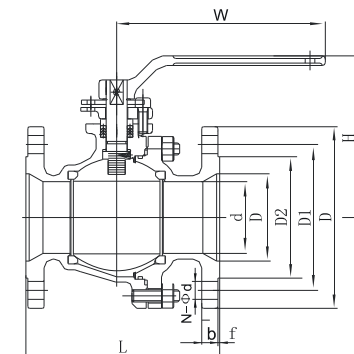


Floating forged steel ball valve

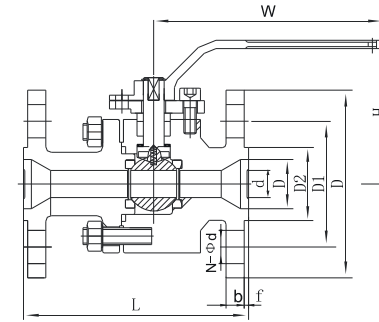
Pressure rating	Nominal Diameter		d	Flanged		Butt welding	Raised face flange						W	Cast steel	Forged steel	Weight(kg)	
Class	NPS	DN		L(RF)	L(RTJ)	L(BW)	D	D1	D2	f	b	N- φ d		H	H	Cast steel	Forged steel
150	1/2"	15	13	108	-	140	90	60.5	35	2	9	4- φ 16	140	80	78	2	△
	3/4"	20	19	117	-	152	100	70	43	2	10	4- φ 16	140	86	82	2.5	△
	1"	25	25	127	-	165	110	79.5	51	2	11	4- φ 16	140	98	95	3.5	△
	1 1/4"	32	32	140	-	178	115	89	64	2	11	4- φ 16	180	106	100	6.5	△
	1 1/2"	40	38	165	-	190	125	98.5	73	2	13	4- φ 16	180	133	128	7.5	△
	2"	50	50	178	191	216	150	120.5	92	2	14.5	4- φ 19	200	138	137	9	△
	3"	80	75	203	216	283	190	152.5	127	2	17.5	4- φ 19	300	175	148	19	△
	4"	100	100	229	241	305	230	190.5	157	2	22.5	8- φ 22	650	235	223	36	△
	6"	150	150	394	406	457	280	241.5	216	2	24	8- φ 22	800	285	278	79	△
	8"	200	201	457	470	521	345	298.5	270	2	27	8- φ 22	1000	342	336	160	△
300	1/2"	15	13	140	-	140	95	66.5	35	2	13	4- φ 16	140	80	78	2.5	△
	3/4"	20	19	152	-	152	115	82.5	43	2	14.5	4- φ 19	140	86	82	3.6	△
	1"	25	25	165	-	165	125	89	51	2	16	4- φ 19	140	98	95	5	△
	1 1/4"	32	32	178	-	178	135	98.5	64	2	17.5	4- φ 19	180	106	100	8.5	△
	1 1/2"	40	38	190	-	190	155	114.5	73	2	19.5	4- φ 22	180	133	128	10	△
	2"	50	50	216	232	216	165	127	92	2	21	8- φ 19	200	138	137	12	△
	3"	80	75	283	298	283	210	168.5	127	2	27	8- φ 22	300	175	148	28	△
	4"	100	100	305	321	305	255	200	157	2	30.5	8- φ 22	650	235	223	46	△
	6"	150	150	403	419	457	320	270	216	2	35	12- φ 22	800	285	278	104	△
	8"	200	201	502	518	521	380	330	270	2	40	12- φ 25	1000	342	336	208	△
600	1/2"	15	13	165	-	165	95	66.5	35	7	14.5	4- φ 16	140	78	68	5	△
	3/4"	20	19	190	-	190	115	82.5	43	7	16	4- φ 19	140	80	76	7	△
	1"	25	25	216	-	216	125	89	51	7	17.5	4- φ 19	180	110	106	9	△
	1 1/4"	32	32	229	-	229	135	98.5	64	7	21	4- φ 19	200	115	110	13	△
	1 1/2"	40	38	241	-	241	155	114.5	73	7	22.5	4- φ 22	250	135	128	17	△
	2"	50	50	292	295	292	165	127	92	7	26	8- φ 19	300	152	140	21	△
	3"	80	75	356	359	356	210	168.5	127	7	32	8- φ 22	650	224	213	43	△
	4"	100	100	432	435	432	275	216	157	7	38.5	8- φ 25	800	248	238	85	△

△ Please consult the factory:
Note: The weight valve is only for flanged valve. Please consult our factory for higher nominal diameter or weight. Any modification to size H,H1 and weight will not be notified otherwise.

2-PC FLOATING BALL VALVE



Floating cast steel ball valve

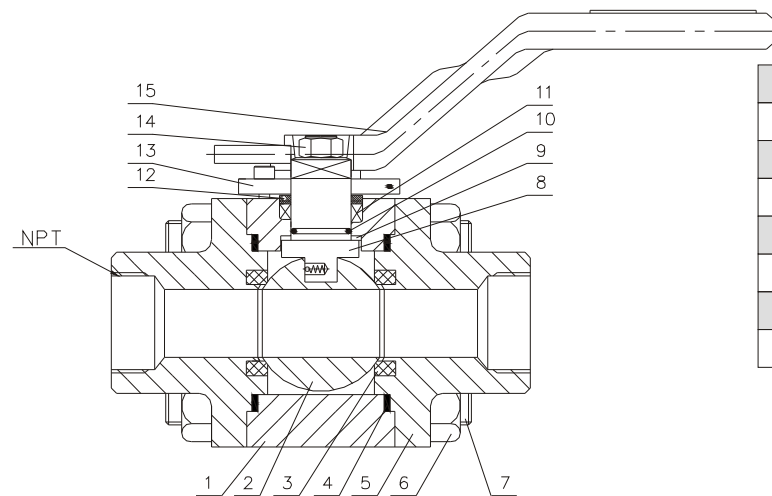


Floating forged steel ball valve

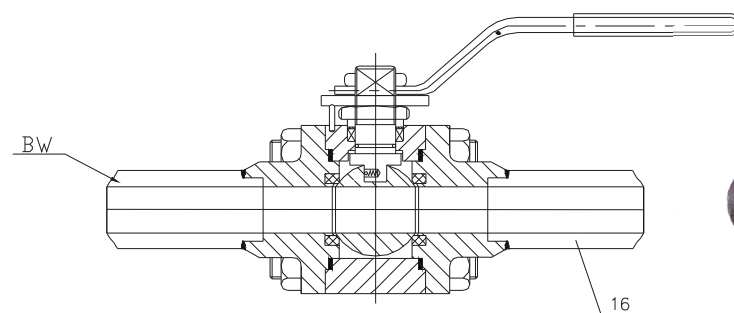
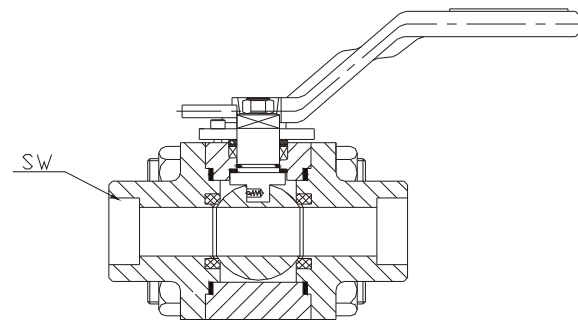
Pressure rating	Nominal Diameter		d	d1	Flanged		Butt welding	Raised face flange						W	Cast steel	Forged steel	Weight(kg)	
Class	NPS	DN			L(RF)	L(RTJ)	L(BW)	D	D1	D2	f	b	N- φ d		H	H	Cast steel	Forged steel
150	3/4" X 1/2"	20	13	19	117	-	152	100	70	43	2	10	4- φ 16	140	80	78	△	△
	1" X 3/4"	25	19	25	127	-	165	110	79.5	51	2	11	4- φ 16	140	86	82	△	△
	1 1/4" X 1"	32	25	32	140	-	178	115	89	64	2	11	4- φ 16	180	98	95	△	△
	1 1/2" X 1 1/4"	40	32	38	165	-	190	125	98.5	73	2	13	4- φ 16	180	106	100	△	△
	2" X 1 1/2"	50	38	50	178	191	216	150	120.5	92	2	14.5	4- φ 19	200	133	128	8	△
	3" X 2"	80	50	75	203	216	283	190	152.5	127	2	17.5	4- φ 19	300	138	137	14	△
	4" X 3"	100	75	100	229	241	305	230	190.5	157	2	22.5	8- φ 19	650	175	148	24	△
	6" X 4"	150	100	150	267	279	403	280	241.5	216	2	24	8- φ 22	800	235	223	41	△
	8" X 6"	200	150	201	292	305	419	345	298.5	270	2	27	8- φ 22	1000	285	278	68	△
300	3/4" X 1/2"	20	13	19	152	-	152	115	82.5	43	2	14.5	4- φ 19	140	80	78	△	△
	1" X 3/4"	25	19	25	165	-	165	125	89	51	2	16	4- φ 19	140	86	82	△	△
	1 1/4" X 1"	32	25	32	178	-	178	135	98.5	64	2	17.5	4- φ 19	180	98	95	△	△
	1 1/2" X 1 1/4"	40	32	38	190	-	190	155	114.5	73	2	19.5	4- φ 22	180	106	100	△	△
	2" X 1 1/2"	50	38	50	216	232	216	165	127	92	2	21	8- φ 19	200	133	128	11	△
	3" X 2"	80	50	75	283	298	283	210	168.5	127	2	27	8- φ 22	300	138	137	21	△
	4" X 3"	100	75	100	305	321	305	255	200	157	2	30.5	8- φ 22	650	175	148	36	△
	6" X 4"	150	100	150	403	419	457	320	270	216	2	35	12- φ 22	800	235	223	82	△
	8" X 6"	200	150	201	419	435	419	380	330	270	2	40	12- φ 25	1000	285	278	126	△
600	3/4" X 1/2"	20	13	19	190	-	190	115	82.5	43	7	16	4- φ 19	140	78	68	△	△
	1" X 3/4"	25	19	25	216	-	216	125	89	51	7	17.5	4- φ 19	180	80	76	△	△
	1 1/4" X 1"	32	25	32	229	-	229	135	98.5	64	7	21	4- φ 19	200	110	106	△	△
	1 1/2" X 1 1/4"	40	32	38	241	-	241	155	114.5	73	7	22.5	4- φ 22	250	115	110	△	△
	2" X 1 1/2"	50	38	50	292	295	292	165	127	92	7	26	8- φ 19	300	135	128	△	△
	3" X 2"	80	50	75	356	359	356	210	168.5	127	7	32	8- φ 22	650	152	140	△	△
	4" X 3"	100	75	100	432	435	432	275	216	157	7	38.5	8- φ 25	800	224	213	△	△

△ Please consult the factory:
Note: The weight valve is only for flanged valve. Please consult our factory for higher nominal diameter or weight. Any modification to size H,H1 and weight will not be notified otherwise.

3-PC FORGED FLOATING BALL VALVE



1	Body	9	Thrust washer
2	Ball	10	O-ring
3	Seat	11	Packing
4	Gasket	12	Gland
5	adaptor	13	Limited plate
6	Nut	14	Nut
7	Bolt	15	Wrench
8	Stem	16	Nipple

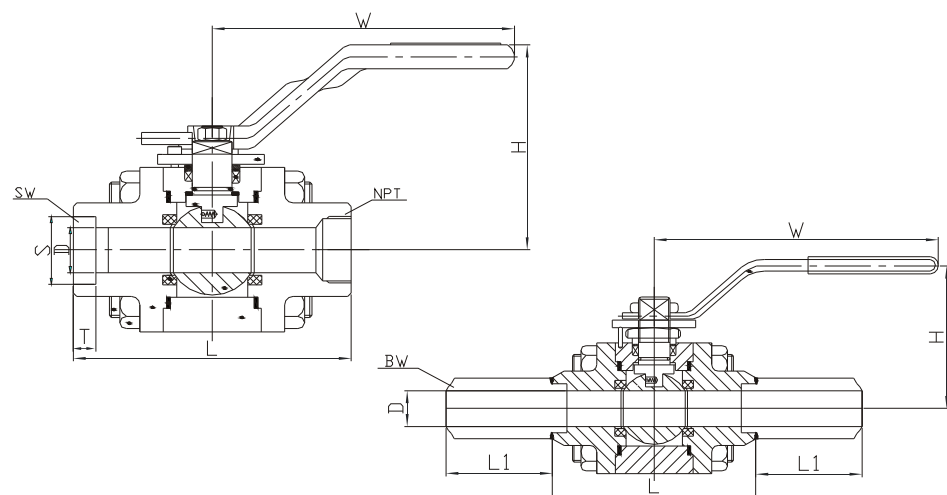


3-PC FORGED FLOATING BALL VALVE

Part Materials And Main Parameters

Nominal diameter(in)			NPS 1/2~2 1/2								
Nominal pressure(Class)			150LB-2500LB(PN20-PN420)								
Material of parts	No	Part Name	Material								
			C.S.		L.T.C.S.		S.S.				D.S.S.
	1	Body	A105N	A105N	A350 LF2	A350 LF2	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F51
	2	Ball	SS304	SS316	SS304	SS316	SS304	SS316	SS304L	SS316L	A182 F51
	3	Seat	RPTE/NYLON	RPTE/NYLON	RPTE/NYLON	RPTE/NYLON	RPTE/NYLON	RPTE/NYLON	RPTE/NYLON	RPTE/NYLON	RPTE/NYLON
	4	Gasket	S.S+ Graphite SPW / PTFE								
	5	adaptor	A105N	A105N	A350 LF2	A350 LF2	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F51
	6	Nut	A194 2H	A194 2HM	A194 4	A194 4	A194 8	A194 8M	A194 8	A194 8M	A453 Gr.660
	7	Bolt	A193 B7	A193 B7M	A193 L7	A193 L7M	A193 B8	A193 B8M	A193 B8	A193 B8M	A453 Gr.660
	8	Stem	A182 F304	A182 F316	A182 F304	A182 F316	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F51
	9	Thrust washer	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
	10	O-ring	Viton/NBR	Viton/NBR	Viton/NBR	Viton/NBR	Viton/NBR	Viton/NBR	Viton/NBR	Viton/NBR	Viton/NBR
	11	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
	12	Gland	410	410	410	410	410	410	410	410	410
	13	Limited plate	AISI 1025	AISI 1025	AISI 1025	AISI 1025	AISI 1025	AISI 1025	AISI 1025	AISI 1025	AISI 1025
	14	Nut	S.S	S.S	S.S	S.S	S.S	S.S	S.S	S.S	S.S
	15	Wrench	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel
	16	Nipple	C.S	C.S	LF2	LF2	SS304	SS316	SS304L	SS316L	A182 F51
Applicable service conditions		Applicable service	Oil, gas, water etc.								
		Applicable temperature	≤90℃ (NYLON Seat)、≤150℃ (PTFE Seat)、≤250℃ (PEEK Sea)								
Design and manufacturing			BS5351, ASME B16.34, ISO 15761								
Face-to-face dimensions			Manufacturer standard								
Connection			SW end as per ANSI B16.11, NPT end as per ANSI B1.20.1, BW end as per ANSI B16.25								
Pressure test			API 598								

3-PC FORGED FLOATING BALL VALVE



CLASS 800LB/1500LB

SIZE		L	D	S	W	H	Weight(kg)
DN(mm)	NPS(in)						
50	1/2"	92	12.5	21.8	141	66	1.7
65	3/4"	112	17	27.2	141	72	2.7
80	1"	126	24	33.9	198	100	4.7
100	1 1/2"	152	37	43.8	239	112	9.5
125	2"	176	49	61.2	239	122	14.5

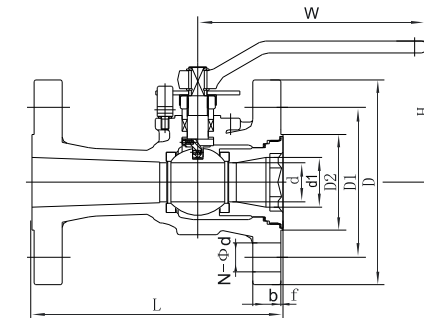
CLASS 800LB/1500LB(with 100mm pup nipples on both ends)

SIZE		L	L1	D	W	H	Weight(kg)
DN(mm)	NPS(in)						
15	1/2"	92	100	12.5	141	66	2
20	3/4"	112	100	17	141	72	3.3
25	1"	126	100	24	198	100	5.5
40	1 1/2"	152	100	37	239	112	11
50	2"	176	100	49	239	122	17.5

1.7

UNI-BODY CAST FLOATING BALL VALVE

The integral ball valve has such features as small fluid resistance, compact structure, light weight, flexible opening and closing. The valve adopts the integral structure, so it is much smaller than the ordinary ball valve, and its weight is much lighter with good sealing performance. It is used to cut off or connect media in pipelines. The valves made of different materials are suitable for various media such as water, steam, oil, liquefied gas, natural gas, coal gas, nitric acid, oxidizing medium, urea and etc.



Part Materials And Main Parameters

Nominal diameter(in)			NPS 1/2～8				
Nominal pressure(Class)			Class600～Class1500				
Material of parts	No	Part Name	Material				
			Carbon Steel	Material			
	1	Body	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M	ASTM A351 CF3	ASTM A351 CF3M
	2	Seat	PTFE/ PPL	PTFE/ PPL	PTFE/ PPL	PTFE/ PPL	PTFE/ PPL
	3	Ball	ASTM A105 +ENP	ASTM A182 F304	ASTM A182 F316	ASTM A182 F304L	ASTM A182 F316L
	4	Stem	ASTM A182 F6a	ASTM A182 F304	ASTM A182 F316	ASTM A182 F304L	ASTM A182 F316L
	5	Packing	Graphite	Graphite	Graphite	Graphite	Graphite
Applicable service conditions		Applicable media	Water, steam, oil, gas, liquefied gas,natural gas,etc.	Nitrose corrosive medium	Nitrose corrosive medium	Strong Oxidizer	Urea
		Applicable temperature	≤120℃(PTFE)、≤250℃(PPL)				
Design and manufacturing			API 608				
Face-to-face dimensions			ASME B16.10				
Type of connection			Flange	ASME B16.5			
Pressure test			API 598				
Transmission mode			Manual, worm and worm gear transmission, pneumatic, electric				

Pressure rating	Nominal Diameter		d	d1	L	Raised face flange						W	H	Weight (kg)
Class	NPS	DN				D	D1	D2	f	b	N- φ d			
150	1½" X 1¼"	40	32	38	165	125	98.5	73	2	13	4- φ 16	150	100	6
	2" X 1½"	50	38	50	178	150	120.5	92	2	14.5	4- φ 16	200	132	8
	3" X 2"	80	50	75	203	190	152.5	127	2	17.5	4- φ 19	300	163	15
	4" X 3"	100	75	100	229	230	190.5	157	2	22.5	8- φ 19	350	178	29
	6" X 4"	150	100	150	394	280	241.5	216	2	24	8- φ 22	500	230	54
300	1½" X 1¼"	40	32	38	190	155	114.5	73	2	19.5	4- φ 22	150	100	9
	2" X 1½"	50	38	50	216	165	127	92	2	21	8- φ 19	200	132	11
	3" X 2"	80	50	75	283	210	168.5	127	2	27	8- φ 22	300	163	22
	4" X 3"	100	75	100	305	255	200	157	2	30.5	8- φ 22	350	178	40
	6" X 4"	150	100	150	403	320	270	216	2	35	12- φ 22	500	230	81

△ Please consult the factory:
Note: The weight valve is only for flanged valve. Please consult our factory for higher nominal diameter or weight. Any modification to size H,H1 and weight will not be notified otherwise.