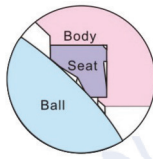


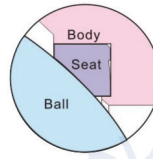
Construction and features of floating ball valve

RELIABLE SEAT SEAL

The structure desing of elastic sealing ring has been adopted for floating ball valves. When the pressure of medium is low, the contact area between valve seat insert and ball is relatively small, thus providing high sealing load to ansure dependable seating seal. When the pressure of medium is high, the contact area between valve seat insert and ball is relatively large, so that valve seat insert can endure the considerable medium thrust and without any damage.



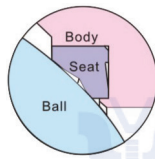
At lower medium pressure



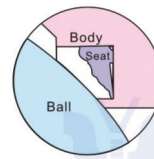
At higher medium pressure

FIRE SAFE DESING

In case of fire, the non-metal material parts such as seat sealing ring of PTFE, stem back seat gasket, gland packing and the sealing gasket between body and bonnet might be damaged due to the high temperature. As show in the figure, our specially designed structure of secondary metal seal is provided to effectively prevent both internal and external leakage of the valve. This desing can meet requirement of AP1607.



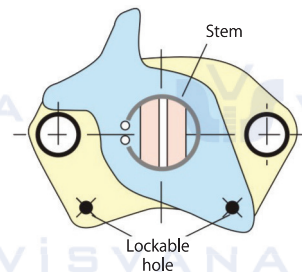
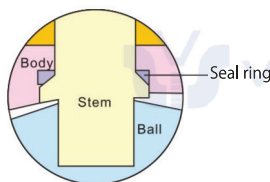
Before fire



After fire

ANTI BLOWOUT STEM

The Anti-blowout desing has been adopted fort he stem to ensure that even if the pressure in the body cavity risen accidently and the packing flange becomes invalid, the stem may not be blown out by medium. To prevent these possibilities, the stem is designed with a backseat, being assembled from underneath. The sealing force against the back seats higher as the medium pressure becomes higher. So the stem can be assured under variable medium pressure.

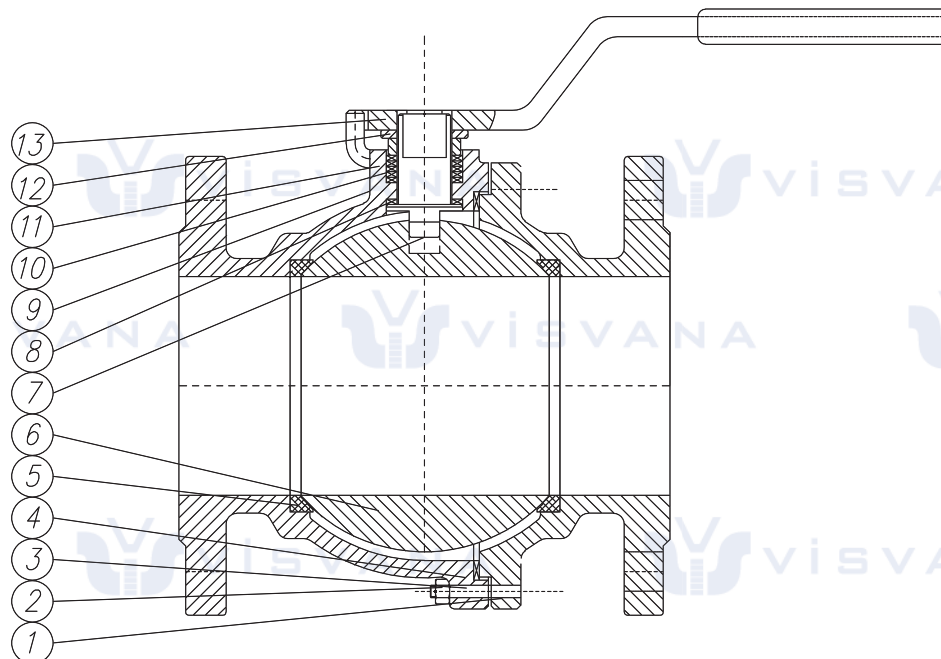


WRONG OPERATION PREVENTION

To prevent the ball valve from wrong operation. The fully opened or closed position of valve can be locked up, especially when are mounted outdoors or when valves are not allowed to be opened or closed by technical process.

ANTI STATIC DEVICE

As required by customers, an anti static device can be placed on the valve to derive the electric charge is accumulated on the ball from the static channel between the ball and stem, or between the stem and valve body.



Floating ball valve

Bolted bonnet, Two-pieces Body, floating Ball
Full or Reduced bore, Anti Blowout stem.
Fire safe and Anti Static.
Stainless steel ball
ASTM A216 WCB, A351 CF8, A351 CF8M,
A351 CF3, A351 CF3M, A351 CN7M

Standards compliance

Design and Manufacture: API 608, API6D, BS5351
Face to face(end to end):ANSI B 16.10, API6D, JIS B 2002
Flanged connection: ANSI B16.5, JISB2212-2214
Fire-safe:API607, API6 FA
Butt welded end:ANSI B16.25
Test and inspection:API598, API6D, JIS B2003

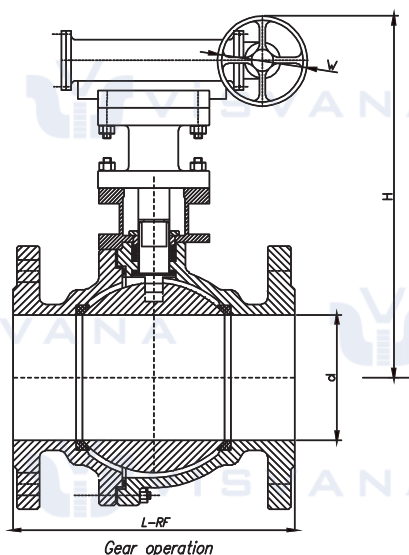
Parts and material list

Parts No	Parts Name	Material				
		WCB/13Cr	WCB/304	WCB/316	WCB/304	CF8M/316
1	Body	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
10	Packing	PTFE	PTFE	PTFE	PTFE	PTFE
11	Gland flange	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
12	Stop collar	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel
13	Lever	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel
8	Thrust washer	PTFE	PTFE	PTFE	PTFE	PTFE
7	Stem	ASTM A182 F6a	ASTM A182 F304	ASTM A182 F316	ASTM A182 F304	ASTM A182 F316
6	Ball	ASTM A182 F6a	ASTM A182 F304	ASTM A182 F316	ASTM A182 F304	ASTM A182 F316
5	Seat	Reinforced PTFE	Reinforced PTFE	Reinforced PTFE	Reinforced PTFE	Reinforced PTFE
9	Gasket	PTFE	PTFE	PTFE	PTFE	PTFE
2	Body nut	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H	ASTM A194 8	ASTM A194 8M
3	Body bolting	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8M
4	Closure	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M

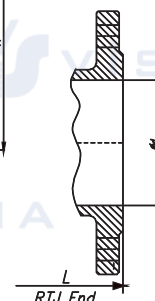
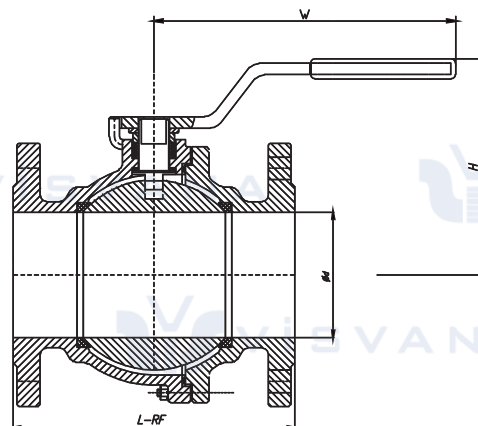
Noted: the chart above only lists out some common composition of steel ball valve parts, we may provide other different parts material composition according to the customer's request or the actual valve working condition.

API FLOATING BALL VALVE

VFTBV-C150 / VFTBV-C300
VFTBV-C600 / VFTBV-C900
VFTBV-C1500



Gear operation



Main size and weight

Class	Size		Dimensions (mm)								Weight (Kg)	
	DN	NPS	L			Hand wheel	Gear box	Hand wheel	Gear box	Hand wheel	Gear box	
			d	RF	RTJ							
150 10K	15	½	13	108	119	140		85		3		
	20	¾	19	117	130	140		90		3,2		
	25	1	25	127	140	150		99		3,5		
	32	1 1/4	32	140	153	180		105		5		
	40	1 1/2	38	165	178	300		165		6		
	50	2	49	178	191	350		140		11		
	65	2 1/2	62	190	203	350		180		13,5		
	80	3	75	203	216	500		235		19		
	100	4	100	229	242	500	305	250	380	29	53	
	125	5	127	356	369	800	305	280	405	49	79	
	150	6	150	394	407	800	305	310	460	65	102	
300 20K	200	8	201	457	470	1000	305	350	550	115	185	
	250	10	252	533	546	400		706		280		
	15	½	13	140	151	140		85		3		
	20	¾	19	152	165	140		90		5		
	25	1	25	165	178	150		99		6		
	32	1 1/4	32	178	191	180		105		8		
	40	1 1/2	38	190	203	200		126		11		
	50	2	49	216	232	250		142		16		
	65	2 1/2	62	241	257	300		165		23		
	80	3	74	283	299	350		178		30	52	
	100	4	100	305	321	500	305	230	330	47	76	
600	125	5	127	381	397	800	305	280	380	74	124	
	150	6	150	403	419	800	305	310	420	107	163	
	200	8	201	502	518	1000	305	350	480	153	267	
	15	½	13	165	164	140		79	560	5		
	20	¾	19	190	190	140		83		7		
	25	1	25	216	216	200		114		9		
	32	1 1/4	32	229	229	200		120		13		
	40	1 1/2	38	241	241	250		125		17		
	50	2	49	292	295	300		156		25		
	65	2 1/2	62	330	333	350		172		42		
	80	3	74	356	359	500	305	220	370	56	76	
900	100	4	100	432	435	650	305	250	400	85	123	
	15	½	13	216	216	150		98		9		
	20	¾	19	229	229	150		105		13		
	25	1	25	254	254	200		110		16		
	32	1 1/4	32	279	279	250		120		24		
	40	1 1/2	38	305	305	250		125		31		
	50	2	49	368	371	350		160		45		
	15	½	13	216	216	182		98		10		
	20	¾	19	229	229	250		125		14		
	25	1	25	254	254	250		130		17		
	32	1 1/4	32	279	279	300		155		25		
1500	40	1 1/2	38	305	305	350		180		33		
	50	2	49	368	371	450		225		48		

Noted: We may provide other different actuators according to the customer's request, such as pneumatisch, electric, hydraulic actuators, the details of them according to the actual valve working condition.