

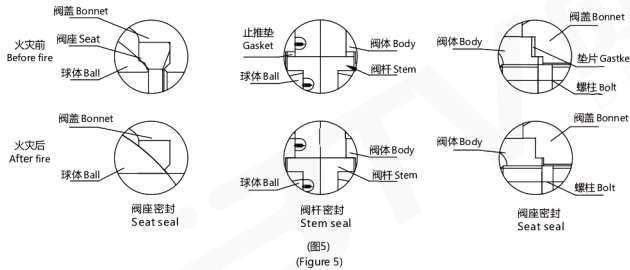
浮动球阀
Floating ball valve



防火安全设计
Fire safe design

防火安全设计是通用浮动球阀的标准设计,均符合API 607要求。当发生火灾时,当非金属密封材料被高温破坏或分解后,球体在介质压力下失去与阀体防火结构接触,实现金属与金属的密封。从而最大限度的切断了介质,减少介质的内漏(如图5)。

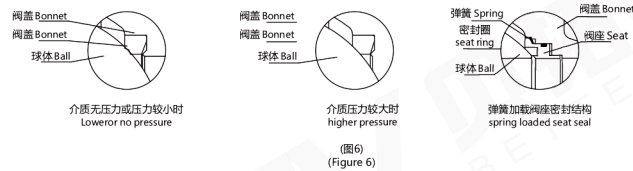
Fire safe design is our floating ball valves' standard design, all conforms to the requirements of API 607. When there is a fire, and the nonmetal sealing, material have been damaged by the high temperature or decomposition, the sphere under medium pressure lose contact with the body of fire safe structure, implementation of metal to metal seal. To cut off the medium to the greatest extent, reduce the leakage of the medium(Figure 5).



可靠的阀座密封设计
Reliable seating design

公司根据多年的生产经验和国外先进技术交流基于PTFE的“冷流”和热膨胀特性。我公司软密封浮动球阀的阀座被设计为挠性唇式阀座,装配前后唇缘的形状发生变化,储存材料弹性变形能,当温度升高或压力升高时,进一步吸收弹性变形能;当温度或压力下降时,泄放弹性变形能来获得记忆特性。对中、高温阀门密封副,采用对位聚苯(PPL)作为阀座可用于300℃温度(如图6)。

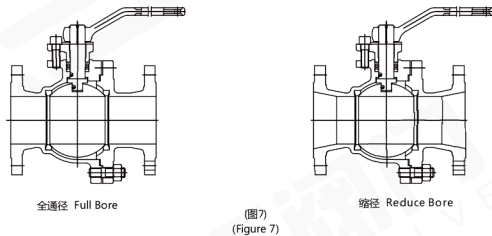
Based on years of production experience and advanced foreign technology company communication based on the cold flow and thermal expansion properties of PTFE. Our company's soft seat floating ball valve seat is designed to be flexible lip type seat, lip edge shape change before and after the assembly, elastic storage materials deformation energy, when the temperature or pressure increase, further elastic deformation energy absorption; When the temperature or pressure drop, the discharge of flexibility deformation energy for memory characteristics. For medium and high temperature valve seal, use the counterpoint polystyrene (PPL) as the seat can be used to 300 °C The temperature(Figure 6).



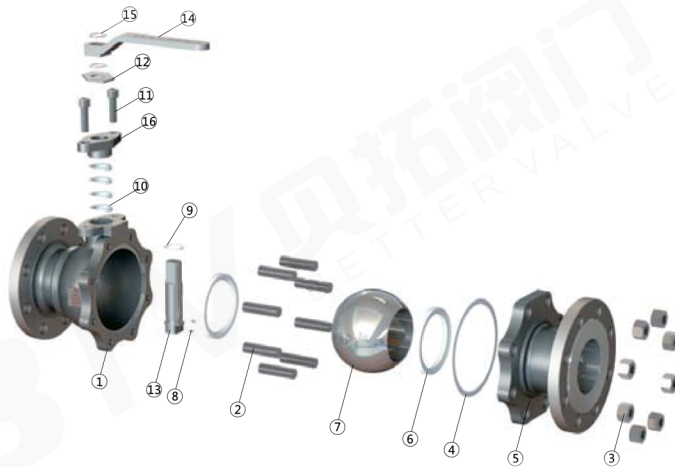
全通径和缩径设计
Full bore and reduce bore design

通用浮动的球阀有全通径和缩径两个系列,以满足客户的不同需要。全通径阀门的通道内径与管径一致,便于管道清扫。而缩径球阀的重量只有相同口径球阀的70%左右,能有效采购成本,同时阻力系数也只有相同口径截止阀的1/7,故得到广泛的应用(如图7)。

Our floating ball valve are full bore and reduce bore structure, to meet different needs of customers. Full bore valves' channel inner diameter and pipe diameter are consistent, which is easy to clean. And reduce bore ball valves' weight is only about 70% of the same caliber ball valve, effectively reduce procurement cost, at the same time, resistance coefficient and only 1/7 of the same caliber cut-off valve, so they are widely used (Figure 7).



浮动球阀
Floating ball valve

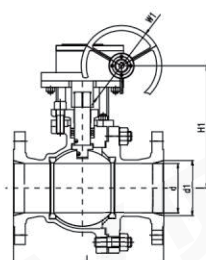
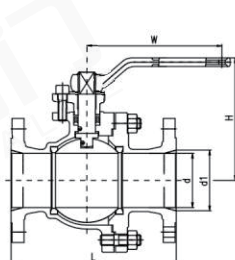


主要零件材料 major parts material

序号 NO.	零件 Part	碳钢材质 Carbon Steel	不锈钢材质 Stainless Steel	酸性工况 Acidic Conditions	低温工况 Low temperature working conditions
1	阀体 Body	ASTM A216 WCB	ASTM A351 CF8	ASTM A216 WCB	ASTM A352 LCB
2	螺栓 Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A193 B7M	ASTM A193 L7M
3	螺母 Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 2HM	ASTM A194 7M
4	垫片 Gasket	304+石墨缠绕垫 Graphite wound Gasket+304			
5	阀盖 Bonnet	ASTM A216 WCB	ASTM A3 51 CF8	ASTM A216 WCB	ASTM A352 LCB
6	阀座 Seat	PTFE/RPTFE/NYLON/PEEK			
7	球体 Ball	A105N+ENP	ASTM A182 F304	A105N+ENP	ASTM A182 F304
8	防静电装置 Antistatic device	组合件 Assembly			
9	止推垫 Stop washer	PTFE	PTFE	PTFE	PTFE
10	填料 Packing	石墨 Graphite			
11	螺钉 Screw	ASTM A193 B7	ASTM A193 B8	ASTM A193 B7M	ASTM A193 L7M
12	定位片 Positioning plate	碳钢 CS	不锈钢 SS	碳钢 CS	不锈钢 SS
13	阀杆 Stem	ASTM A182 F6a	ASTM A182 F304	ASTM A182 F6a	ASTM A182 F304
14	手柄 Level	碳钢 CS	不锈钢 SS	碳钢 CS	不锈钢 SS
15	卡簧 circlip	碳钢 CS	不锈钢 SS	碳钢 CS	不锈钢 SS
16	填料压板 Gland Flange	ASTM A216 WCB	ASTM A351 CF8	ASTM A216 WCB	ASTM A352 LCB

铸钢浮动球阀

Cast steel floating ball valve



ANSI应用规范 ANSI application specification

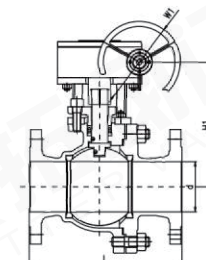
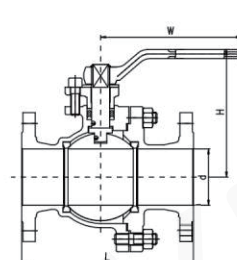
标准 Standard	ANSI系列 ANSI Series	标准 Standard	ANSI系列 ANSI Series
温度-压力额定值 Temperature-pressure ratings	ASME B16.34	试验标准 Inspection & testing	API 6D, API 598
设计标准 Design	API 6D, ISO 14313	防火设计 Fire-safe design	API 607/F6A
结构长度标准 Face to face	API 6D, ASME B16.10	抗硫材料要求 sulfur resistant material	NACE MR 0175/0103, ISO 15156
连接端标准 End	ASME B16.5		

主要尺寸 Dimensions

CLASS	全通径 Full Bore							缩径 Reduce Bore						
	NPS	d	L	H	H1	W	W1	NPS	d1xd	L	H	H1	W	W1
150Lb	1/2	13	108	85	-	140	-	3/4X1/2	19x13	117	85	-	140	-
	3/4	19	117	90	-	140	-	1X3/4	25x19	127	90	-	140	-
	1	25	127	99	-	150	-	1-1/2X1	38x25	165	99	-	150	-
	1-1/4	32	140	105	-	180	-	2X1-1/2	49x38	178	126	-	200	-
	1-1/2	38	165	126	-	200	-	2-1/2X2	62x49	191	140	-	250	-
	2	49	178	140	-	250	-	3X2	74x62	203	165	-	300	-
	2-1/2	62	191	165	-	300	-	4X3	100x74	229	178	-	350	-
	3	74	203	178	-	350	-	6X4	150x100	394	230	-	500	-
	4	100	229	230	-	500	-	8X6	201x150	457	310	460	800	305
	6	150	394	310	460	800	305	10X8	252x201	533	350	550	1000	305
300Lb	1/2	13	140	85	-	140	-	3/4X1/2	19x13	152	85	-	140	-
	3/4	19	152	90	-	140	-	1X3/4	25x19	165	90	-	140	-
	1	25	165	99	-	150	-	1-1/2X1	38x25	191	99	-	150	-
	1-1/4	32	178	105	-	180	-	2X1-1/2	49x38	216	126	-	200	-
	1-1/2	38	191	126	-	200	-	2-1/2X2	62x49	241	140	-	250	-
	2	49	216	140	-	250	-	3X2	74x62	283	165	-	300	-
	2-1/2	62	241	165	-	300	-	4X3	100x74	305	178	-	350	-
	3	74	283	178	-	350	-	6X4	150x100	403	230	-	500	-
	4	100	305	230	-	500	-	8X6	201x150	502	310	460	800	305
	6	150	403	310	460	800	305	10X8	252x201	568	350	550	1000	305
600Lb	1/2	13	165	79	-	140	-	3/4X1/2	19x13	190	79	-	140	-
	3/4	19	190	83	-	140	-	1X3/4	25x19	216	83	-	140	-
	1	25	216	114	-	200	-	1-1/2X1	38x25	229	114	-	200	-
	1-1/4	32	229	120	-	200	-	2X1-1/2	49x38	292	125	-	250	-
	1-1/2	38	241	125	-	250	-	2-1/2X2	62x49	330	156	-	300	-
	2	49	292	156	-	300	-	3X2	74x62	356	172	-	350	-
	2-1/2	62	330	172	-	350	-	4X3	100x74	432	220	370	500	305
	3	74	356	220	370	500	305							
	4	100	432	250	400	650	305							

铸钢浮动球阀

Cast steel floating ball valve



GB应用规范 GB application specification

标准 Standard	GB系列 GB Series	标准 Standard	GB系列 GB Series
温度-压力额定值 Temperature-pressure ratings	GB/T 12224	试验标准 Inspection & testing	GB/T 13927, JB/T 9092
设计标准 Design	GB/T 12237, JB/T 7745	防火设计 Fire-safe design	JB/T 6899
结构长度标准 Face to face	GB/T 12221	抗硫材料要求 sulfur resistant material	SY/T 0599, GB/T 20972
连接端标准 End	JB/T 79, GB/T 9113, HG/T 20592		

主要尺寸 Dimensions

PN	DN	d	L	H	H1	W	W1	PN	DN	d	L	H	H1	W	W1
1.6MPa	15	13	130	85	-	140	-	2.5MPa	15	13	130	85	-	140	-
	20	19	140	90	-	140	-		20	19	140	90	-	140	-
	25	25	150	99	-	150	-		25	25	150	99	-	150	-
	32	32	165	105	-	180	-		32	32	165	105	-	180	-
	40	38	180	126	-	200	-		40	38	180	126	-	200	-
	50	49	200	140	-	250	-		50	49	200	140	-	250	-
	65	62	220	165	-	300	-		65	62	220	165	-	300	-
	80	74	250	178	-	350	-		80	74	250	178	-	350	-
	100	100	280	230	-	500	-		100	100	320	230	-	500	-
	125	125	320	280	-	800	-		125	125	400	280	-	800	-
4.0MPa	150	150	360	310	460	800	305	6.3MPa	150	150	400	310	460	800	305
	200	201	400	350	550	1000	305		200	201	550	350	550	1000	305
	15	13	130	85	-	140	-		15	13	140	79	-	140	-
	20	19	140	90	-	140	-		20	19	152	83	-	140	-
	25	25	150	99	-	150	-		25	25	165	114	-	200	-
	32	32	180	105	-	180	-		32	32	178	120	-	200	-
	40	38	200	126	-	200	-		40	38	190	125	-	250	-
	50	49	220	142	-	250	-		50	49	216	156	-	300	-
	65	62	250	165	-	300	-		65	62	241	172	-	350	-
	80	74	280	178	-	350	-		80	74	283	220	-	500	-
	100	100	320	230	-	500	-		100	100	305	250	-	650	-
	125	125	400	280	-	800	-								
	150	150	400	310	480	800	305								
	200	201	520	350	560	1000	305								