

双球球阀Double ball-valve

双球球阀的描述

双球球阀是一种先进的球阀，主要用于截断和接通介质，也可以实现流体介质的调节和控制。和其它阀门比较有下列特点：

- 1.具有流体阻力小，相比较别的阀门，具有流体阻力小。
- 2.开关迅速，方便。只要阀杆旋转90度，球阀就可以全开或者全闭，容易实现快速启闭。
- 3.密封性能好，球阀阀座一般采用聚四氟乙烯等弹性材料制造，易于密封，并且密封性能随着介质压力增加而增大。
- 4.阀杆密封可靠，球阀的阀杆在阀门启闭时只做旋转运动，因此阀门填料部分不容易损伤，并且阀杆是倒装配的，阀杆倒密封随着压力的增加而加大。
- 5.球阀的启闭只做90度的回转，故容易实现自动化控制和远距离的操作，故球阀可实现气动控制，电动控制，液动控制，气液联动控制和电液联动控制的。
- 6.球阀通道平整光滑，不易沉积介质，可以进行管线通清管球。
- 7.双球球阀在安装使用过程中是在前面的球阀常开，后面的球阀在启闭工作的。如这后面的启闭工作的阀门损坏，那前面常开的球阀可以开始工作，来实现整个阀门的工作，也可以关闭这个阀门来修理后面的球阀，而不用停修整条管线的。这样就可以节省修理的成本，安全的保护整条管线。

Description

(DBB is a kind of advanced ball valve,mainly used for cut off and connected to medium ;also it can achieve the adjustment and control for the flow medium.)
(Comparing with other valves,DBB has advantages as below:)
1.Comparing with other valves,DBB has small resistance of fluid.
2.Switch quickly and convenient.As long as the valve stem rotate 90 degree,DBB can be fully open or closed,easy to achieve rapid opening and closing.
3.Good seal performance .DBB generally uses PTFE etc elastic material.Easy to seal and the ,and the sealing performance will better with pressure increased
4.Reliable valve stem sealing .The valve stem only does rotation when the valves open or close so the valve packing can not be damaged easily .Moreover, the stem is designed by anti blow-out so that the stem seal will be better with preasure increase
5.Only open and close valve 90-degree rotation, it is easy to achieve automatic control and remote operation, so the ball Valve pneumatic control can be achieved, electric control, hydraulic control, Pneumatic and electro-hydraulic control linkage control.
6.It's not easy to have deposition with smooth channel and it has pigging function.
7.The ball valve in front of the DBB is offen open with the other ball valve is closed in the installed and working process.If the behind of the ball valve can't not work ,the front of the ball valve still can work or shut off to repair the behind of the ball valve . It shall be repaired in the field withou removing the

双道密封O形圈防止
阀杆处泄漏
(To avoid the stem
leakage with double
O-ring sealing)

防吹出阀杆从阀体内部装入，
起到上密封座的作用
(Anti-blow out stem, which
installed from inferior
body acts as
the upper
sealing
seat.)

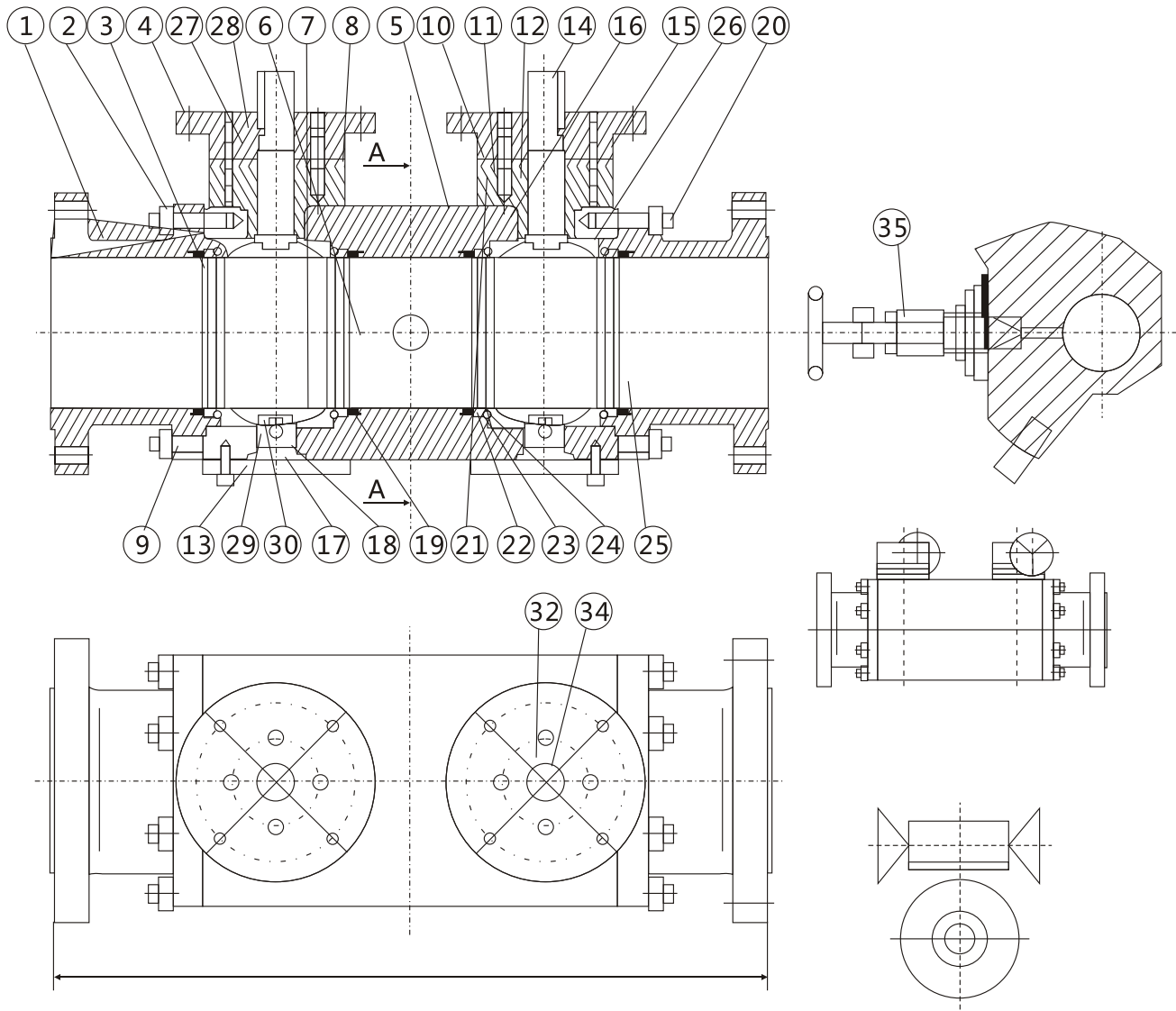
装有预紧弹簧的
浮动座圈即使在低压时
也可确保密封。
(The float seat with
installed preloaded
spring could ensure
the the no leakage in
the low pressure.

采用双球阀是为了减少系统中的泄漏点，
实现安全快速实现排放
(To reduce the rate of leakage,the valve
installs the 2-ball chamber which plays
the function of quick &safe in-out.

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序号	零件	Part.Name
1	缓闭	
2	螺栓螺母	bolt / nut
3	阀座环	seat slug
4	法兰	flange
5	阀体	body
6	封闭垫片环	Closed ring gasket
7	球	ball
8	压盖法兰	gland flange
9	耳轴	trunnion
10	压盖法兰垫片	gland flange gasket
11	压盖法兰的后端环	rear slug of gland flange
12	压盖法兰O形圈	O ring of gland flange

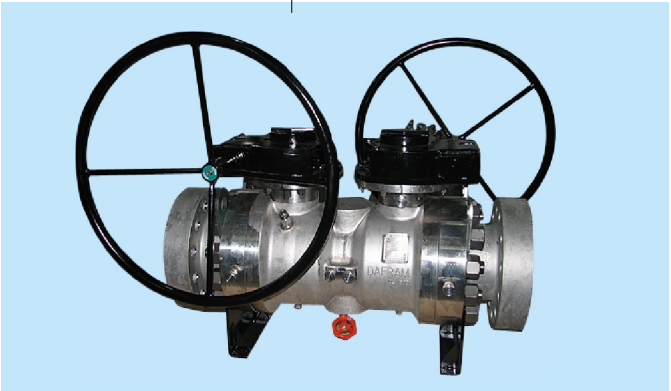
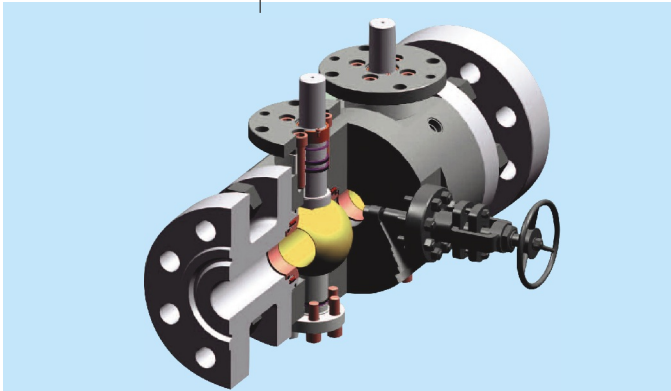
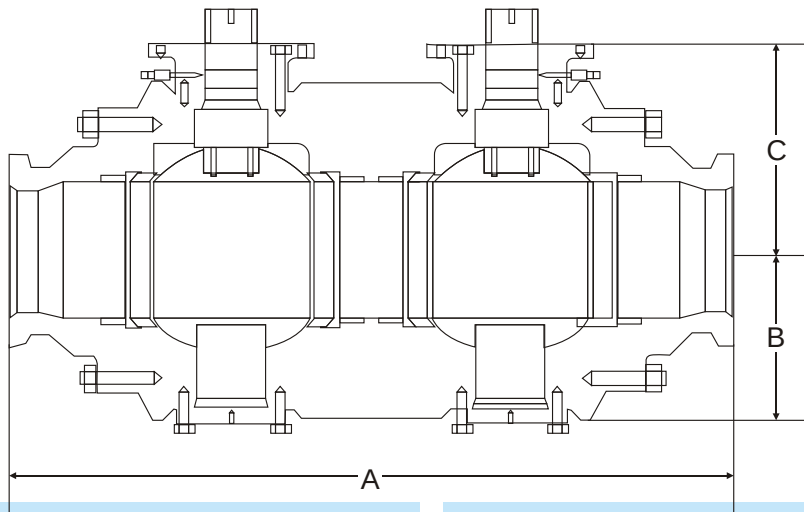
序号	零件	Part.Name
13	耳轴螺栓	trunnion bolt
14	暗杆	non-rising stem
15	压盖法兰螺栓	gland flange bolt
16	干推力垫圈	thrust washer
17	耳轴垫片	trunnion gasket
18	珠芯衬套	neck bush of spherical core
19	弹簧密封圈	spring sealing seat
20	阀座	seat
21	阀杆O型圈	o-ring of stem
22	座椅垫	Seat Cushion
23	座椅靠背式环	Seat Cushion slug
24	座椅O型圈	O-ring of Seat Cushion

序号	零件	Part.Name
25	身体垫片	body gasket
26	封闭O型圈	O-ring closure
27	干垫片	Dry gasket
28	干的Back - Up环	Dry the Back - Up Ring
29	耳轴的Back - Up环	Trunnion Back - Up Ring
30	耳轴O型圈	O-ring of trunnion
31	压盖法兰螺栓	gland flange bolt
32	适配器法兰衬套	adapter flange bush
33	洗衣机	Washing machine
34	螺丝帽	Screw cap
35	排气针阀	Exhaust valve
36	干关键	Dry the key

双球球阀主要零件材料
Double ball valve main parts:

阀体	Body	ASTM A105	A352-LCB	A217-WC6	A351-CF8	A351-CF8M
球体	Ball	A105+ENP	A182-F304	A182-F316	A182-F304	A182-F316
阀杆	Stem	A182 F6a	A276-304	A276-316	A276-304	A276-316
阀座	Seat	A105+ENP	A350-LF2+ENP	A182-F316	A182-F304	A182-F316
密封圈	Ring	PTFE	PTFE	RPTFE	Glsaa Fillde PTFE	Glsaa Fillde PTFE

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ASME 150

SIZE (in.)	A			B	C	W.T (lbs)
	RF	BWE	RTJ			
2"	312	378	334	98	105	81
3"	355	495	378	127	130	165
4"	401	534	422	165	130	330
6"	690	800	711	235	288	455
8"	800	912	823	239	288	660
10"	933	978	956	277	326	1056
12"	1068	1111	1089	316	364	1518
14"	1201	1334	1223	341	395	2031
16"	1334	1467	1356	383	437	2886
18"	1512	1600	1533	417	471	3480
20"	1600	1734	1622	454	508	4473
24"	1867	2000	1890	529	590	6961

ASME 300

SIZE (in.)	A			B	C	W.T (lbs)
	RF	BWE	RTJ			
2"	378	378	406	102	120	92
3"	495	495	522	148	164	176
4"	534	534	562	165	130	374
6"	705	800	733	206	237	583
8"	879	912	907	239	288	770
10"	994	978	1022	277	326	1166
12"	1134	1111	1162	316	364	1681
14"	1334	1334	1362	341	395	2321
16"	1467	1467	1495	383	437	3247
18"	1600	1600	1628	432	486	4490
20"	1734	1734	1768	478	532	5925
24"	2000	2000	2039	578	640	6961

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ASME 600

SIZE (in.)	A			B	C	W.T (lbs)
	RF	BWE	RTJ			
2"	511	511	516	105	129	99
3"	623	623	628	147	164	176
4"	756	756	761	165	184	462
6"	978	978	984	212	237	693
8"	1155	1155	1162	254	304	1100
10"	1377	1377	1384	303	359	1980
12"	1467	1467	1472	330	378	2347
14"	1556	1556	1561	360	414	2974
16"	1734	1734	1740	401	455	4385
18"	1911	1911	1916	449	503	5775
20"	2090	2090	2100	485	543	7445
24"	2445	2445	2462	584	646	12269

ASME 900

SIZE (in.)	A			B	C	W.T (lbs)
	RF	BWE	RTJ			
2"	644	644	649	108	129	128
3"	667	667	672	147	164	187
4"	800	800	805	165	184	568
6"	1068	1068	1073	212	237	792
8"	1290	1290	1295	254	304	1276
10"	1467	1467	1472	303	359	2178
12"	1689	1689	1694	345	398	2963
14"	1801	1801	1817	358	410	3263
16"	1878	1878	1995	407	458	4556
18"	2133	2133	2156	452	502	6259
20"	2312	2312	2335	498	553	8182
24"	2711	2711	2744	597	664	14236

ASME 1500

SIZE (in.)	A			B	C	W.T (lbs)
	RF	BWE	RTJ			
2"	644	644	649	105	129	128
3"	823	823	828	147	164	264
4"	956	956	961	165	184	440
6"	1234	1234	1244	260	280	1089
8"	1456	1456	1472	283	332	1738
10"	1734	1734	1750	349	399	2970
12"	1978	1978	2006	387	431	4310
14"	2200	2200	2233	421	482	5760
16"	2422	2422	2462	274	540	7995
18"	2690	2690	2728	570	628	12602
20"	2912	2912	2951	690	725	18885
24"	3400	3400	3451	733	780	30006

ASME 2500

SIZE (in.)	A			B	C	W.T (lbs)
	RF	BWE	RTJ			
2"	789	789	795	144	177	363
3"	1012	1012	1022	187	203	616
4"	1178	1178	1195	250	271	783
6"	1600	1600	1622	280	300	1760
8"	1789	1789	1817	475	485	6754
10"	2223	2223	2261	502	505	7885
12"	2489	2489	2529	514	547	9900

