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上海科科阀门有限公司

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Integral Orbit Metal To Metal Seal Structure Ball Valve

一体式轨道硬密封结构球阀



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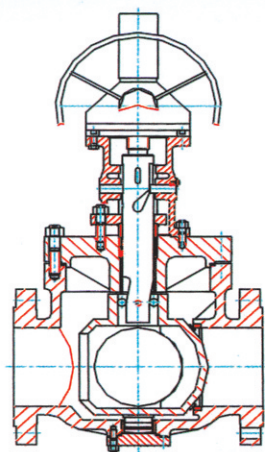
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工作原理

此球阀是采用偏离摆动及转动的原理，实现开关动作。其特点是消除了阀门损坏的最基本因素—密封面的擦伤。当阀门关闭时，球芯是靠机械的力量压楔到密封阀座上，无需依靠管线压差的帮助就可确保严密的密封；当阀门开启时，球芯摆动偏离阀座，管线的流体沿球芯表面360° 均匀通过阀门，这样可消除高速液体对阀座的局部冲刷腐蚀。在阀门开或关时没有摩擦，意味着阀门操作容易，低扭矩和长期可靠的性能。

Working Principle

This valve used the principle of departure swing and turning, to achieve on-off control action. The characteristic is eliminate the most basic element of valve damage—scrape on sealing face. When the valve is closed, the ball fixed to the sealing seat by mechanical forces, don't need the help of the differential pressure of pipeline to insure the strict sealing; When the valve is open, the ball swing and deviate the seat, the fluid of the pipeline pass through equality along the ball face 360° , it can eliminate the erosion-corrosion on partial valve by high speed liquid. When there is no friction when the valve is open or closed, it means the easier operation, lower torque, and more reliable performance.

阀门开关过程

轨道金属硬密封球阀的工作原理是利用斜面楔块及轨道旋转槽使得球阀在旋转过程中与阀座密封面脱离，旋转到位后再将球阀推向阀座实现密封。

Valve On-off Process:

The working principle of the orbit metal to metal sealing ball valve is to use the bevel wedge and orbit rotary slot to make the ball separate from the seat sealing face in the turning process, when in the right position, achieve sealing by pushing the ball to the seat.

开启过程

- 当阀门处于全关位置时，逆时针转动手轮，在阀杆螺母与止推轴承配合下，阀杆开始上升并摆动球体脱离密封面；
- 继续转动手轮，阀杆会在上升的同时带动球体开始旋转；
- 继续转动手轮，阀杆的精密螺旋曲线槽轨道，与嵌于其内的导向销相互作用继续转动手轮，阀杆的精密密封面完全无摩擦的情况下不停按逆时针方向转动；
- 继续转动手轮，当阀杆升到极限位置时，此时球也随阀杆倒转了90°，阀已处于全开位置；

关闭过程：以上过程的反向运动。

Open Process

- When the valve is on the Close position, counter clock-wise to rotate the handwheel, In collaboration with the stemnut and thrust shaft, stem begin to rise and swing the ball to slip-off the sealing face;
- Keep rotating the handwheel, the stem is rising, driving the ball turning too;
- Keep rotating the handwheel, the stem precise screw curve slot orbit, interact with the guide pin which inlay it, and keep rotating the handwheel, the stem precise sealing face keep counter clock-wise to turning under the condition of no friction;
- Keep rotating the handwheel, when the stem rise to the limit position, the ball turning to 90° by the stem, the valve is fully-open now;

Close process: reverse the above action of the process above.

性能特点

- A. 整体式：坚固安全，维修方便
- B. 防爆：适用于易燃、易爆工况
- C. 防火：火灾环境中保证密封
- D. 耐高压：高压工况下操作方便
- E. 密封好：密封性能可靠

Performance characteristic:

- A. Integral type: firmer and safer, easier to repair
- B. Anti-explosive: used under the working condition of flammable
- C. Fireproof design: insure sealing in when flaming.
- D. High-pressure resistance: easy operation on high working pressure working condition.
- E. Sealing Capacity: reliable sealing performance.

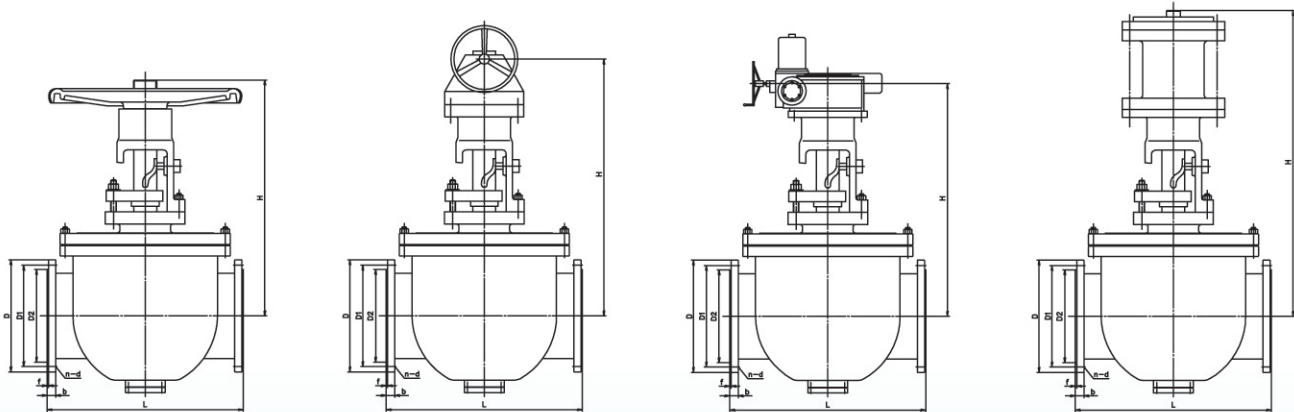


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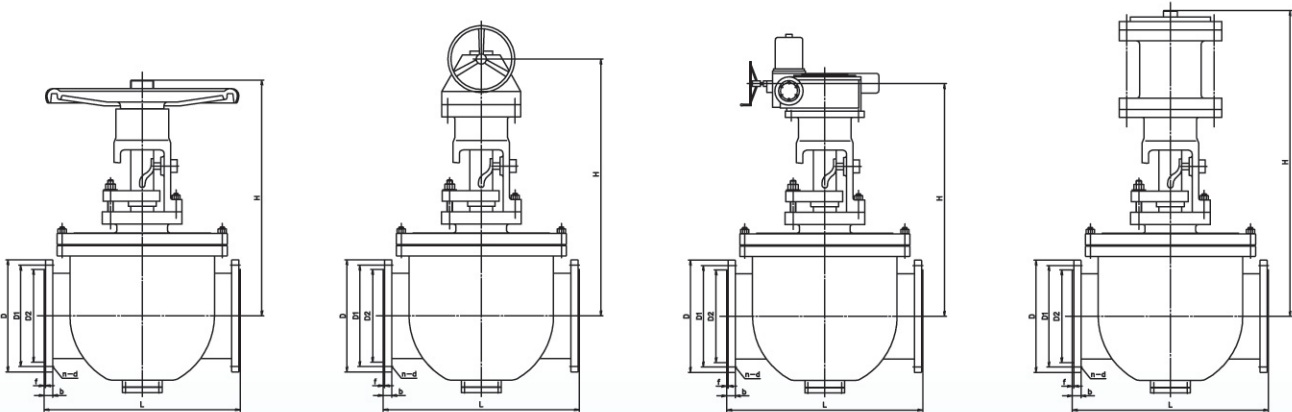
连接尺寸 Connecting Size:

QJ47Y-150Lb

DN	D	D1	D2	n	d	b	f	L	H
3/4"	98	70	43	4	15	12	2	150	250
1"	108	79.5	51	4	15	14	2	160	300
1 1/4"	117	89	64	4	15	16	2	180	320
1 1/2"	127	98.5	73	4	15	18	2	200	350
2"	152	120.5	92	4	19	19	2	230	380
2 1/2"	178	139.5	105	4	19	23	2	290	400
3"	190	152.5	127	4	19	24	2	310	450
4"	229	190.5	157	8	19	24	2	350	500
5"	254	216	186	8	22	24	2	400	550
6"	279	241.5	216	8	22	26	2	480	600
8"	343	298.5	270	8	22	29	2	600	650

QJ47Y-150Lb

DN	D	D1	D2	n	d	b	f	L	H
10"	406	362	324	12	25	31	2	730	700
12"	483	432	381	12	25	32	2	850	850
14"	533	476	413	12	29	35	2	980	980
16"	597	540	470	16	29	37	2	1100	1300
18"	635	578	533	16	32	40	2	1200	1450
20"	699	635	584	20	32	43	2	1250	1600
24"	813	749.5	692	20	35	48	2	1450	1900
28"	837	795.3	762	40	22	45	2	1700	2100



连接尺寸 Connecting Size:

QJ47Y-300Lb

DN	D	D1	D2	n	d	b	f	L	H
3/4"	117	82.5	43	4	19	16	2	150	320
1"	124	89	51	4	19	18	2	160	350
1 1/4"	133	98.5	64	4	19	19	2	180	380
1 1/2"	156	114.5	73	4	22	21	2	200	400
2"	165	127	92	8	19	23	2	230	450
2 1/2"	190	149	105	8	22	26	2	290	500
3"	210	168.5	127	8	22	29	2	310	550
4"	254	200	157	8	22	32	2	350	600
5"	279	235	186	8	22	35	2	400	650
6"	318	270	216	12	22	37	2	480	700
8"	381	330	270	12	25	42	2	600	750

QJ5(6、9)47Y-300Lb

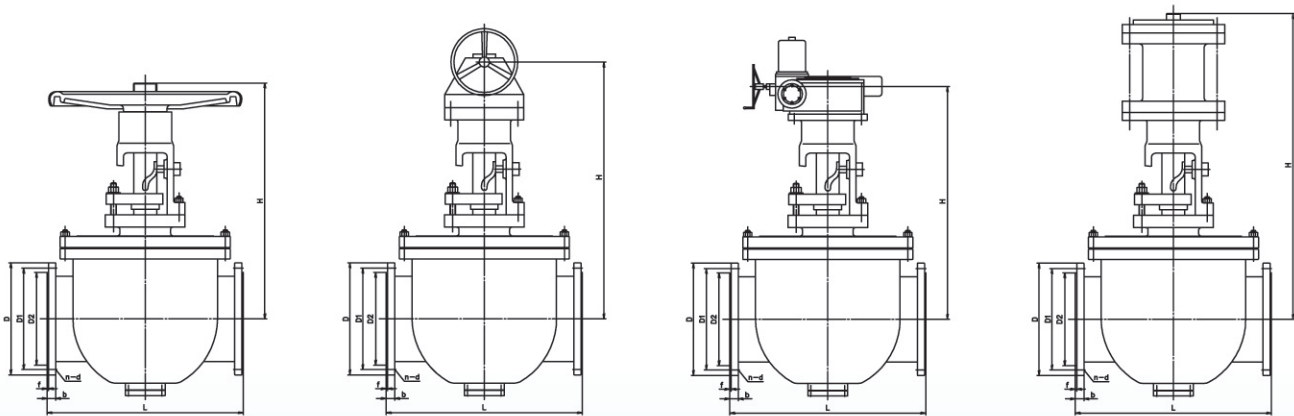
DN	D	D1	D2	n	d	b	f	L	H
10"	445	387.5	324	16	29	48	2	730	800
12"	521	451	381	16	32	51	2	850	1000
14"	584	514.5	413	20	32	54	2	980	1200
16"	648	571.5	470	20	35	58	2	1100	1400
18"	711	628.5	533	24	35	61	2	1200	1550
20"	775	686	584	24	35	64	2	1250	1700
24"	914	813	692	24	41	70	2	1450	2000
28"	921	857.2	787.4	36	35	90	7	1700	2200

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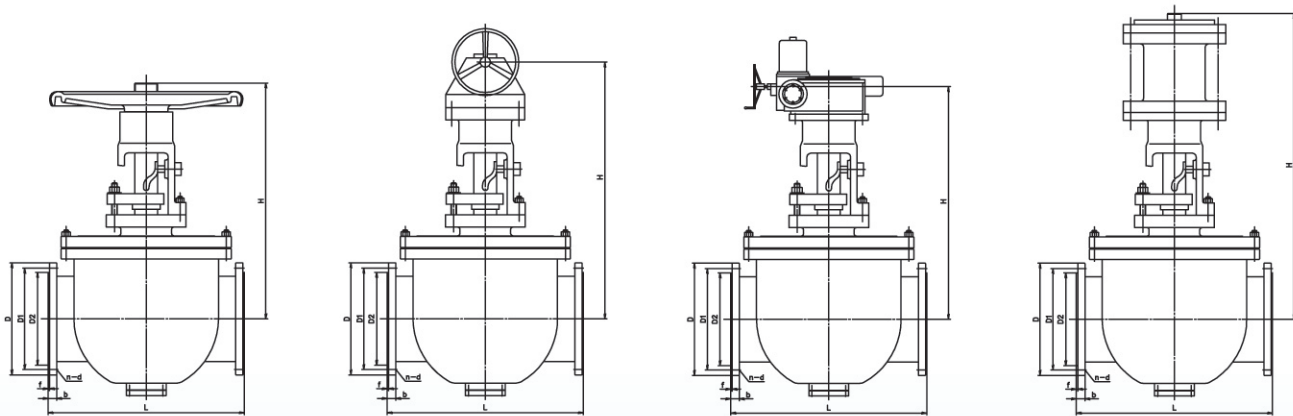
连接尺寸 Connecting Size:

QJ47Y-600Lb

DN	D	D1	D2	n	d	b	f	L	H
3/4"	118	82.5	43	4	19	23	7	190	300
1"	124	89	51	4	19	25	7	216	320
1 1/4"	133	98.5	64	4	19	28	7	229	350
1 1/2"	156	114.5	73	4	22	30	7	241	380
2"	165	127	92	8	19	33	7	292	400
2 1/2"	190	149	100	8	22	36	7	330	450
3"	210	168	127	8	22	39	7	356	500
4"	273	216	157	8	25	45	7	432	550
5"	330	266.5	186	8	29	52	7	508	600
6"	356	292	216	12	29	55	7	559	650
8"	419	349	270	12	32	63	7	660	700

QJ5(6、9)47Y-600Lb

DN	D	D1	D2	n	d	b	f	L	H
8"	419	349	270	12	32	63	7	660	700
10"	508	432	324	16	35	71	7	787	850
12"	559	489	381	20	35	74	7	838	1000
14"	603	527	413	20	38	77	7	889	1200
16"	686	603	470	20	41	84	7	991	1500
20"	813	724	584	24	44	96	7	1194	1800
24"	940	838	692	24	52	109	7	1397	2100
28"	952	863.6	784.1	28	48	123	7	1549	2300



连接尺寸 Connecting Size:

QJ47Y-900Lb

DN	D	D1	D2	n	d	b	f	L	H
3/4"	130	88.9	43	4	23	32.5	7	229	300
1"	149	101.6	51	4	26	36	7	254	320
1 1/4"	159	111.1	64	4	26	36	7	279	350
1 1/2"	178	123.8	73	4	29	39	7	305	380
2"	216	165.1	92	8	26	45.5	7	368	400
2 1/2"	244	190.5	105	8	29	48.5	7	419	450
3"	241	190.5	127	8	26	45.5	7	381	500
4"	292	234.9	157	8	32	51.5	7	457	550
5"	349	279.4	186	8	35	58	7	559	600
6"	381	317.5	216	12	32	63	7	610	650

QJ5(6、9)47Y-900Lb

DN	D	D1	D2	n	d	b	f	L	H
8"	470	393.5	270	12	39	70.5	7	737	700
10"	546	469.9	324	16	39	77	7	838	850
12"	610	533.4	381	20	39	86.5	7	965	1000
14"	641	558.8	413	20	42	93	7	1029	1200
16"	705	615.9	470	20	45	96	7	1130	1500
20"	857	749.3	584	20	54	115	7	1321	1500