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温州市润新机械制造有限公司
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专利技术

Patented technology

硬密封

Hard sealing

轻扭矩

Low torque

耐腐蚀

Good corrosion resistance

耐久用

Durability



陶瓷硬密封球阀

— Ceramic Ball Valve —

启闭很轻松



温州市润新机械制造有限公司
WENZHOU RUNXIN MANUFACTURING MACHINE CO.,LTD



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企业简介

Company Profile

温州市润新机械制造有限公司成立于2000年，位于浙江省温州市，是国家高新技术企业、浙江省专利示范企业、温州市百佳诚信企业。主营产品包括水处理系统用多功能控制阀、家用软水机、陶瓷芯球阀、太阳能热水器用控制阀等系列产品，获评浙江省名牌产品、浙江省优秀工业产品。

由公司自主研发，拥有完全自主知识产权“水处理系统用多功能控制阀”系列产品已获美国、欧盟、俄罗斯、韩国、墨西哥、澳大利亚、韩国等十几个国家和地区的发明专利，连续9年获美国国家卫生基金会（NSF）的认证、欧盟CE认证，产品畅销全球124个国家和地区，在国内外市场上享有盛誉。

同样基于“陶瓷硬密封技术”原理推出的润新陶瓷芯球阀系列产品，以其专利硬密封技术、轻扭矩、耐磨损、耐腐蚀等广泛应用于水处理、能源、化工、污水、流体管道控制等行业，获国内外用户一致好评。

润新公司始终秉承“超越自我、奉献社会”的价值理念，以“技术创新、专注制造”为主要发展方向，致力于“国际性水处理控制阀专业制造商”和“民用(商用)水处理专业制造商”，让更多人分享这一创新成果带来的美好生活。



Founded in 2000, Wenzhou Runxin Manufacturing Machine CO., Ltd. is located in Wenzhou, Zhejiang. Runxin is the national new high-tech enterprise titled with "Patent Demonstration Enterprise", "Wenzhou High Integrity Enterprise". Its main products include multi-functional flow control valve for water treatment systems, residential softener, ceramic ball valve, valve for solar energy heating and so on, which are reward of Zhejiang famous brand product and excellent industrial product.

Self-researched and developed with intellectual property right, the core product "Multi-functional flow valve for water treatment systems" is not only authorized with many patents from 18 countries and regions, like America, Russia, South Korea, Mexico, Australia etc, but also recognized by the National Sanitary Foundation (NSF), the European Union CE and RoHS Certificate for nine years, our products are widely spread in 124 countries and regions, thus gaining good reputation both at home and abroad.

Similarly, based on the theory "ceramic hard sealing technology", we launched Runxin ceramic ball valve series products. With the hard sealing patented technology, low torque, and good corrosion resistance, it is widely used in many industries, like water treatment, energy resource, chemical industry, fluid pipeline control etc. It is praised by users at home and abroad.

With the value of "surpass myself, dedicate to society" and development direction of "technology innovation and focus on manufacturing", Runxin is devoted to shaping herself as a "global professional manufacturer of control valve for water treatment systems" and "professional manufacturer of water treatment systems for residential (commercial) application", making more people benefit from our innovation and enjoy a better life.

企业荣誉 Company Honor

资质 专利 认证 Qualification, patent and certification

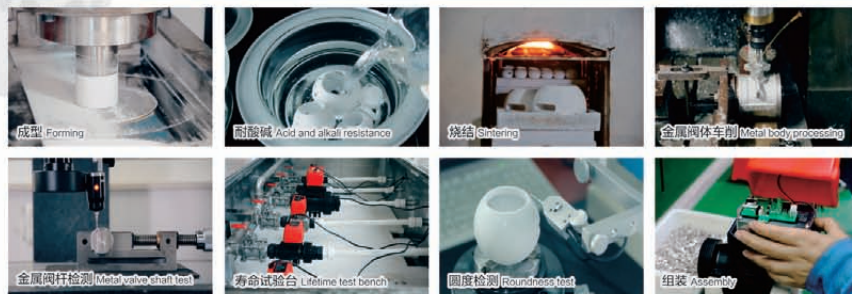


生产工艺 The Production Process

陶瓷硬密封球阀是润新公司将炉火纯青的陶瓷平面密封制造技术延伸到陶瓷球面密封的成果，其核心部件阀芯与阀座采用性能优良的刚玉陶瓷或碳化硅陶瓷，经1680℃或2200℃超高温烧结而成，洛氏硬度HRA高达85°以上，经平面磨、外圆磨、快速球磨、球面对研等工序精密加工，确保球芯圆度达到6μm以下，阀芯与几乎完全贴合的阀座相对旋转实现启闭，轻扭矩得以精妙展现。具有硬密封、轻扭矩、耐腐蚀、耐磨损、耐久用等特点，具有普通塑料或金属软/硬密封球阀无可比拟的优势。

Ceramic ball valve is the result of Runxin extending the hermetic head face technology to the spherical sealing. The core components ball core and valve seat are made of corundum ceramic or silicon carbide material with excellent performance, sintered at 1680℃ or 2200℃ ultra-high temperature, Rockwell hardness HRA is above 85°. Surface grinding, cylindrical grinding, fast sphere grinding, paired sphere grinding and other processes are precisely processed to ensure that the ball core roundness is accurate to less than 6μm. Opening and closing will be realized by the relative rotation between the ball core and the almost completely fitted valve seat.

It has the characteristics of hard sealing, low torque, good corrosion resistance, good wear resistance and durability, and has unparalleled advantages compared with ordinary plastic or metal ball valves.



氧化铝陶瓷芯特点

Alumina ceramic core features

- 陶瓷球芯经1680℃超高温烧结而成；
- 采用刚玉陶瓷， Al_2O_3 含量 $\geq 95\%$ ；
- 陶瓷球硬度HRA $\geq 85^\circ$ ；
- 耐酸碱性：常温下对各种无机酸、碱稳定。

- The ceramic ball core is sintered at 1680°C
- Adopt corundum ceramics, Al_2O_3 content $\geq 95\%$;
- Ceramic ball hardness HRA $\geq 85^\circ$
- Acid and alkali resistance: stable to various inorganic acids and alkalis at room temperature.

球芯使用工程陶瓷

The ball core adopt engineering ceramic



碳化硅阀芯特点

Silicon carbide core features

- **质量轻、高硬度、耐磨损**
碳化硅球芯经2200℃以上超高温烧结而成，硬度 \geq HRA90。
- **耐高温**
在1500℃的高温环境下也不会反应
- **化学稳定性好，耐酸碱腐蚀性优良**
在HF酸或5mol/L HNO_3 中依然保持稳定
- **具有优异的导热性，热膨胀性低**
在急冷急热的环境下不易崩裂
- **低摩擦系数**
具有优良的干润滑性，启闭更轻松。

- **Light weight, high hardness, good wear resistance**

The silicon carbide core is sintered at an ultra-high temperature above 2200°C, and its hardness is \geq HRA90.

- **High temperature resistance**

It will not react under the high temperature of 1500°C

- **Good chemical stability, excellent acid and alkali resistance**

Stable in HF acid or 5mol/L HNO_3 ,

- **Has excellent thermal conductivity**

low thermal expansion. It is not easy to crack in the environment of rapid cold and hot

- **Low friction coefficient**

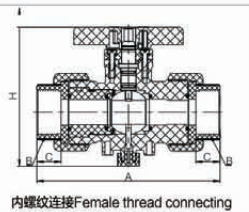
With excellent dry lubricity, easier opening and closing



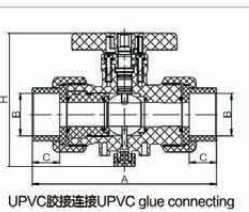
手动球阀

Manual Ball Valve

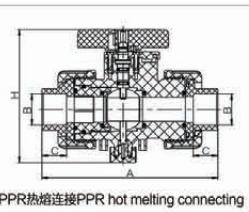
手动控制:通过手柄或手轮来控制球阀启闭
Manual Control:Open and close the valve through the handle or hand wheel



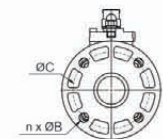
内螺纹连接Female thread connecting



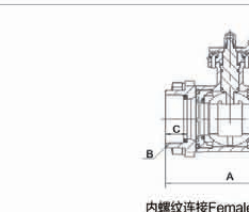
UPVC胶接连接UPVC glue connecting



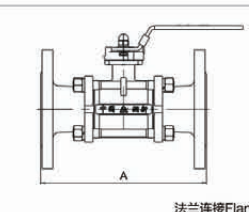
PPR热熔连接PPR hot melting connecting



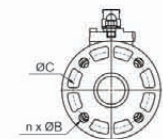
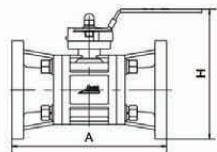
UPVC法兰连接 UPVC Flange connecting



内螺纹连接Female thread connecting



法兰连接Flange connecting



手动球阀 Manual Ball Valve

公称通径DN	连接方式 Connecting Type	型号 Model	尺寸 Size				启闭方式 Open/Close Way
			A	B	C	H	
DN15	PPO内螺纹	Q1101-15	111	G1/2	14	87	手柄 Handle
	UPVC胶接	Q3101-15	123	φ20.2	20	87	手柄
	PPR热熔	Q5101-15	121	φ19.2	19	87	手柄
DN20	PPO内螺纹	Q1101-20	119	G3/4	16	87	手柄
	UPVC胶接	Q3101-20	123	φ25.2	20	87	手柄
	PPR热熔	Q5101-20	121	φ24	19	87	手柄
	不锈钢内螺纹	Q1141-20	89	G3/4	18	84	手柄
	不锈钢法兰	Q4141-20	150	4×φ14	φ75	113	手柄
DN25	PPO内螺纹	Q1101-25	138	G1	20	102	手柄
	UPVC胶接	Q3101-25	142	φ32.2	22	102	手柄
	PPR热熔	Q5101-25	146	φ31	24	102	手柄
	不锈钢内螺纹	Q1141-25	99	G1	20	99	手柄
DN32	不锈钢法兰	Q4141-25	160	4×φ14	φ85	128	手柄
	PPO内螺纹	Q1101-32	167	G1 1/4	22	127	手柄
	UPVC胶接	Q3101-32	174	φ40.2	26	127	手柄
DN40	不锈钢内螺纹	Q1141-32	120	G1 1/4	20	127	手柄
	不锈钢法兰	Q4141-32	180	4×φ18	φ100	162	手柄
	PPO内螺纹	Q1101-40	182	G1 1/2	24	141	手柄
	UPVC胶接	Q3101-40	196	φ50.2	31	141	手柄
DN50	不锈钢内螺纹	Q1141-40	128	G1 1/2	23	137	手柄
	不锈钢法兰	Q4141-40	200	4×φ18	φ110	172	手柄
	PPO内螺纹	Q1101-50	212	G2	25	173	手柄
	UPVC胶接	Q3101-50	237	φ63.2	38	173	手柄
DN65	不锈钢内螺纹	Q1141-50	155	G2	26	162	手柄
	不锈钢法兰	Q4141-50	230	4×φ18	φ125	119	手柄
	UPVC胶接	Q3151-65	202	φ75.4	44	216	手柄
	UPVC法兰	Q4151-65	285	4×φ18	φ145	243.5	手柄
DN80	不锈钢内螺纹	Q1141-65	196	G2 1/2	29	203	手柄
	不锈钢法兰	Q4141-65	290	4×φ18	φ145	234	手柄
	UPVC胶接	Q3151-80	232	φ90.5	51	246	手柄
	UPVC法兰	Q4151-80	305	8×φ18	φ160	264.5	手柄
DN80	不锈钢内螺纹	Q1141-80	216	G3	32	219	手柄
	不锈钢法兰	Q4141-80	310	8×φ18	φ160	249	手柄

备注:手动塑料球阀阀体为PPO或“UPVC”材料,手动金属球阀阀体为不锈钢316L材质,采用浮动球直通结构;

塑料阀体:工作温度0~60℃,工作压力0~1MPa,EPDM和FKM橡胶密封材料可选;

金属阀体:工作温度0~120℃,工作压力0~1.6MPa,EPDM和FKM橡胶密封材料可选,其中FKM橡胶密封材料工作温度0~200℃。

Remark: Plastic manual ball valve, the valve body material is PPO or UPVC; Metal manual ball valve, the valve body material is 316L stainless steel;

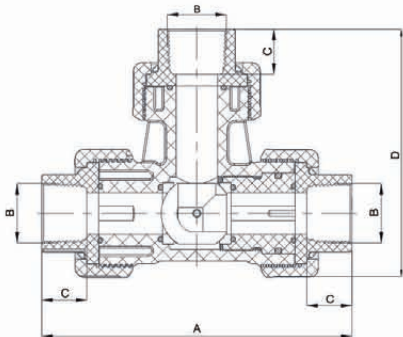
Ball valve adopt the floating ball straight passway structure.

Plastic ball valve :Working temperature: 0~60°C;Working pressure: 0~1MPa; Sealing rubber material: EPDM, FKM optional.

Metal ball valve :Working temperature: 0~120°C;Working pressure: 0~1.6MPa; Sealing rubber material: EPDM, FKM optional (FKM working temperature can reach 0-200°C).

手动三通球阀

Manual Three-way Ball Valve



手动三通球阀 Manual Three-way Ball Valve

公称通径DN	连接方式 Connecting Type	型号 Model	尺寸 Size				启闭方式 Open/Close Way
			A	B	C	D	
DN25	PPO内螺纹	Q1401-25	172	G1	22	138	手柄
	UPVC胶接	Q3401-25	174	φ32.2	26	139	手柄
DN32	PPO内螺纹	Q1401-32	166	G1 1/4	22	134.5	手柄
	UPVC胶接	Q3401-32	174	φ40.2	26	139	手柄
DN40	PPO内螺纹	Q1401-40	182	G1 1/2	24	159	手柄
	UPVC胶接	Q3401-40	196	φ50.2	31	166	手柄
DN50	PPO内螺纹	Q1401-50	212	G2	25	182.5	手柄
	UPVC胶接	Q3401-50	237	φ63.2	38	198.5	手柄

备注：阀体为PPO材料，采用浮动球“L”形三通结构；工作温度0-60℃，工作压力0-1MPa，EPDM和FKM橡胶密封材质可选。

Q1401-25球阀另有“NPT1”接头可选。

Remark: The valve body material is PPO; it adopts the floating ball with L shape three-way structure. Working temperature: 0-60°C; Working pressure: 0-1MPa;

Sealing rubber material: EPDM, FKM optional

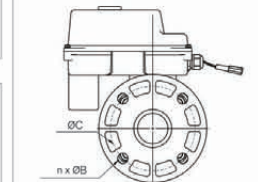
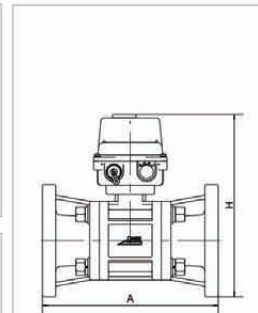
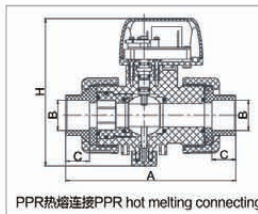
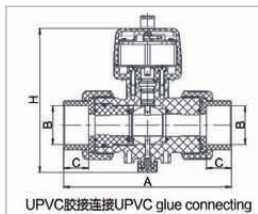
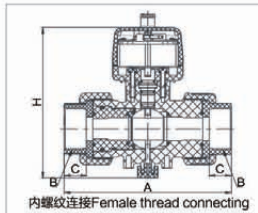
For Q1401-25 ball valve, there is NPT1 connector for optional.

二线控制电动球阀

Two Wires Controlling Ball Valve

两线控制：电源控制线为两芯线，通过电源换向来控制球阀启闭。

Two Wires Controlling: Open and close the valve through switching the polarity of motor.



二线控制电动球阀 Two Wires Controlling Ball Valve

公称口径DN	连接方式 Connecting Type	型号 Model	尺寸 Size				启闭时间(秒) open-close time (s)	输入电压 Input voltage
			A	B	C	H/D(三通)		
DN15	PPO内螺纹	Q911011-15	111	G1/2	14	113	3(12.5)	6V (12V、24V)
	UPVC胶接	Q931011-15	123	φ20.2	20	113		
	PPR热熔	Q951011-15	121	φ19.2	19	113		
DN20	PPO内螺纹	Q911011-20	119	G3/4	16	113	3(12.5)	6V (12V、24V)
	UPVC胶接	Q931011-20	123	φ25.2	20	113		
	PPR热熔	Q951011-20	121	φ24	19	113		
	不锈钢内螺纹	Q911411-20	89	G3/4	18	101		
	不锈钢法兰	Q941411-20	150	4×φ14	φ75	130.5		
DN25	PPO内螺纹	Q911011-25	138	G1	20	128	3(12.5)	6V (12V、24V)
	UPVC胶接	Q931011-25	142	φ32.2	22	128		
	PPR热熔	Q951011-25	146	φ31	24	128		
	不锈钢内螺纹	Q911411-25	99	G1	20	115		
	不锈钢法兰	Q941411-25	160	4×φ14	φ85	143		
DN32	PPO内螺纹	Q911012-32	167	G1 1/4	22	149	7.5	12V(24V)
	UPVC胶接	Q931012-32	174	φ40.2	26	149		
	不锈钢内螺纹	Q911412-32	120	G1 1/4	20	136		
	不锈钢法兰	Q941412-32	180	4×φ18	φ100	170		
DN40	PPO内螺纹	Q911012-40	182	G1 1/2	24	163	7.5	12V(24V)
	UPVC胶接	Q931012-40	196	φ50.2	31	163		
	不锈钢内螺纹	Q911412-40	128	G1 1/2	23	146		
	不锈钢法兰	Q941412-40	200	4×φ18	φ110	180		
DN50	PPO内螺纹	Q911013-50	212	G2	25	200	7.5	24V
	UPVC胶接	Q931013-50	237	φ63.2	38	200		
	不锈钢内螺纹	Q911413-50	155	G2	26	181		
	不锈钢法兰	Q941413-50	230	4×φ18	φ125	217		
DN65	UPVC胶接	Q931513D-65	202	φ75.4	44	273.5	15	24V
	UPVC法兰	Q941513D-65	285	4×φ18	φ145	301		
	不锈钢内螺纹	Q911413D-65	196	G2 1/2	29	260		
	不锈钢法兰	Q941413D-65	290	4×φ18	φ145	291		
DN80	UPVC胶接	Q931513D-80	232	φ90.5	51	303.5	15	24V
	UPVC法兰	Q941513D-80	305	8×φ18	φ160	321		
	不锈钢内螺纹	Q911413D-80	216	G3	32	275.5		
	不锈钢法兰	Q941413D-80	310	8×φ18	φ160	305.5		

备注:塑料球阀阀体为PPO或UPVC材料,手动金属球阀阀体为不锈钢316L材质,采用浮动球直通结构;

塑料阀体:工作温度0~60℃,工作压力0~1MPa, EPDM和FKM橡胶密封材质可选;

金属阀体:工作温度0~120℃,工作压力0~1.6MPa, EPDM和FKM橡胶密封材质可选,其中FKM橡胶密封材质工作温度0~200℃;

括号内的参数为可选型,订货前请说明, DN15~DN25球阀有3秒快速电机可选。

Remark: Plastic manual ball valve, the valve body material is PPO or UPVC; Metal manual ball valve, the valve body material is 316L stainless steel;

Ball valve adopt the floating ball straight passway structure.

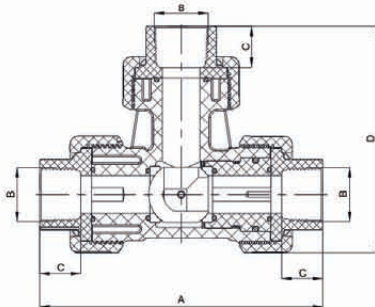
Plastic ball valve: Working temperature: 0~60°C; Working pressure: 0~1MPa; Sealing rubber material: EPDM, FKM optional

Metal ball valve: Working temperature: 0~120°C; Working pressure: 0~1.6MPa; Sealing rubber material: EPDM, FKM optional (FKM working temperature can reach 0~200°C)

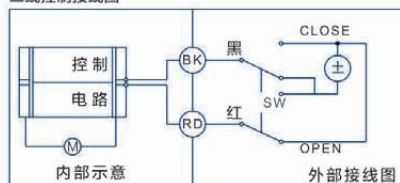
The parameter outside of brace is for the standard matching, the inside is for optional. Please describe your requested parameter in your order.

DN15~DN25 ball valve has fast motor (3 seconds open-close for optional)

二线控制电动三通球阀 Two Wires Three-way Ball Valve

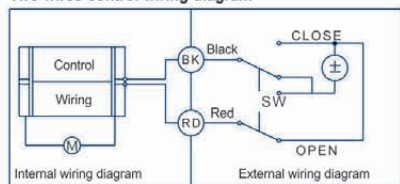


二线控制接线图



- 1、SW与OPEN短接,电动球阀打开,到位后并保持;
 - 2、SW与CLOSE短接,电动球阀关闭,到位后并保持;
- 适用于DC6V、DC12V、DC24V、DC36V球阀。SW为双联开关。

Two wires control wiring diagram



- 1、SW and OPEN connected, electric ball valve open, after putting in place and keep the same position.
 - 2、SW and CLOSE connected, electric ball valve close, after putting in place and keep the same position.
- Suitable for DC6V, DC12V, DC24V, DC36V ball valve. SW is two wire switch.

二线控制电动三通球阀 Two Wires Three-way Ball Valve

公称口径DN	连接方式 Connecting Type	型号 Model	尺寸 Size				启闭时间(秒) open-close time (s)	输入电压 Input voltage
			A	B	C	D		
DN25	PPO内螺纹	Q914012-25	172	G1	22	138	7.5	12V(24V)
	UPVC胶接	Q934012-25	174	φ32.2	26	139		
DN32	PPO内螺纹	Q914012-32	166	G1 1/4	22	134.5		
	UPVC胶接	Q934012-32	174	φ40.2	26	139		
DN40	PPO内螺纹	Q914012-40	182	G1 1/2	24	159		
	UPVC胶接	Q934012-40	196	φ50.2	31	166		
DN50	PPO内螺纹	Q914013-50	212	G2	25	182.5		
	UPVC胶接	Q934013-50	237	φ63.2	38	198.5		

备注:阀体为PPO材料,采用浮动球“L”形三通结构;工作温度0~60℃,工作压力0~1MPa, EPDM和FKM橡胶密封材质可选;Q140~25球阀另有“NPT1”接头可选。

Remark: The valve body material is PPO. It adopts the floating ball with L shape three-way structure. Working temperature: 0~60°C; Working pressure: 0~1MPa;

Sealing rubber material: EPDM, FKM optional

For Q140-25 ball valve, there is NPT1 connector for optional

带手动功能的陶瓷芯电动球阀

Electronic Ball Valve with Manual Function



- DC24V 直流电控制
- 三线控制带位置反馈功能
- 防护等级 IP65
- 断电时可手动操作

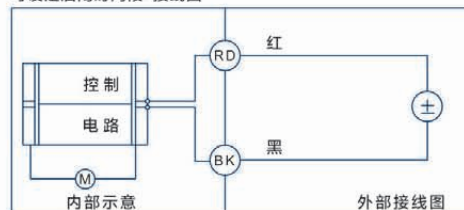
- DC24V
- 3 wires control with position feedback
- IP65 protection level
- It can be opened and closed manually when power off

带手动功能球阀 Duration Time Control Ball Valve							
公称口径 DN	连接方式 Connecting Type	型号 Model	尺寸 Size				输入电压 Input voltage
			A	B	C	H/D(三通)	
DN15	PPO内螺纹	SQ911013E-15	111	G1/2	14	138.5	DC24V
	UPVC胶接	SQ931013E-15	123	φ20.2	20	138.5	
	PPR热熔	SQ951013E-15	121	φ19.2	19	138.5	
DN20	PPO内螺纹	SQ911013E-20	119	G3/4	16	138.5	DC24V
	UPVC胶接	SQ931013E-20	123	φ25.2	20	138.5	
	PPR热熔	SQ951013E-20	121	φ24	19	138.5	
	不锈钢内螺纹	SQ911413E-20	89	G3/4	18	126.7	
	不锈钢法兰	SQ941413E-20	150	4×φ14	φ75	155.5	
DN25	PPO内螺纹	SQ911013E-25	138	G1	20	153.5	DC24V
	UPVC胶接	SQ931013E-25	142	φ32.2	22	153.5	
	PPR热熔	SQ951013E-25	146	φ31	24	153.5	
	不锈钢内螺纹	SQ911413E-25	99	G1	20	141.6	
	不锈钢法兰	SQ941413E-25	160	4×φ14	φ85	170.8	

可设定启闭时间段球阀

Duration Time Control Ball Valve

可设定启闭时间段-接线图

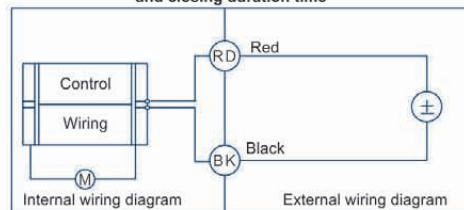


- 1、在设定开的时间段，电动球阀打开；
- 2、在设定关的时间段，电动球阀关闭；

适用于DC12V或DC24V球阀。

时间段控制可设定范围：1分钟~999小时59分和15秒~999分钟59秒
两种时间范围，球阀按照设定的时长周期循环执行开和关。

Control wiring diagram-ball valve that can set opening and closing duration time

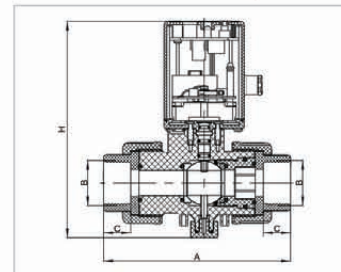


1. At opening duration time, electric ball valve open.
2. At closing duration time, electric ball valve close

Suitable for DC12V or DC24V ball valve.

Two modes of time range: 000:01 ~ 999:59 (hour: minute) and 000:15 ~ 999:59 (minute: second).

可设定启闭时间段球阀 Duration Time Control Ball Valve								
公称口径 DN	连接方式 Connecting Type	型号 Model	尺寸 Size				启闭时间(秒) Open-close time (s)	输入电压 Input voltage
			A	B	C	H/D(三通)		
DN15	PPO内螺纹	Q911012A-15	111	G1/2	14	144	12.5	12V (24V)
		QQ911012A-15					3	
	UPVC胶接	Q931012A-15	123	φ20.2	20	144	12.5	
		QQ931012A-15					3	
	PPR热熔	Q951012A-15	121	φ19.2	19	144	12.5	
		QQ951012A-15					3	



DN20	PPO内螺纹	Q911012A-20	119	G3/4	16	144	12.5	12V (24V)
		QQ911012A-20					3	
	UPVC胶接	Q931012A-20	123	φ25.2	20	144	12.5	
		QQ931012A-20					3	
	PPR热熔	Q951012A-20	121	φ24	19	144	12.5	
QQ951012A-20		3						
金属内螺纹	Q911412A-20	89	G3/4	18	132.5	12.5		
	QQ911412A-20					3		
金属法兰	Q941412A-20	150	4×φ14	φ75	161.5	12.5		
	QQ941412A-20					3		
DN25	PPO内螺纹	Q911012A-25	138	G1	20	159.5	12.5	12V (24V)
		QQ911012A-25					3	
	UPVC胶接	Q931012A-25	142	φ32.2	22	159.5	12.5	
		QQ931012A-25					3	
	PPR热熔	Q951012A-25	146	φ31	24	159.5	12.5	
QQ951012A-25		3						
金属内螺纹	Q911412A-25	99	G1	20	147	12.5		
	QQ911412A-25					3		
金属法兰	Q941412A-25	160	4×φ14	φ85	176.5	12.5		
	QQ941412A-25					3		
DN32	PPO内螺纹	Q911012A-32	167	G1 1/4	22	184.5	7.5	12V (24V)
	UPVC胶接	Q931012A-32	174	φ40.2	26	184.5		
	金属内螺纹	Q911412A-32	120	G1 1/4	20	171.5		
	金属法兰	Q941412A-32	180	4×φ18	φ100	205.5		
DN40	PPO内螺纹	Q911012A-40	182	G1 1/2	24	198.5	7.5	12V (24V)
	UPVC胶接	Q931012A-40	196	φ50.2	31	198.5		
	金属内螺纹	Q911412A-40	128	G1 1/2	23	181.5		
	金属法兰	Q941412A-40	200	4×φ18	φ110	215.5		
DN50	PPO内螺纹	Q911013A-50	212	G2	25	235	7.5	24V
	UPVC胶接	Q931013A-50	237	φ63.2	38	235		
	金属内螺纹	Q911413A-50	155	G2	26	216.5		
	金属法兰	Q941413A-50	230	4×φ18	φ125	252.5		
DN25三通	PPO内螺纹	Q914012A-25	172	G1	22	184.5	7.5	12V (24V)
	UPVC胶接	Q934012A-25	174	φ32.2	26	184.5		
DN32三通	PPO内螺纹	Q914012A-32	166	G1 1/4	22	184.5	7.5	12V (24V)
	UPVC胶接	Q934012A-32	174	φ40.2	26	184.5		
DN40三通	PPO内螺纹	Q914012A-40	182	G1 1/2	24	198.5	7.5	12V (24V)
	UPVC胶接	Q934012A-40	196	φ50.2	31	198.5		
DN50三通	PPO内螺纹	Q914013A-50	212	G2	25	235	7.5	24V
	UPVC胶接	Q934013A-50	237	φ63.2	38	235		

备注:A代表可设定启闭时长的独立控制球阀;

塑料球阀阀体为PPO或UPVC材料,金属阀体为不锈钢316L材质,采用浮动球直通结构;工作温度0~60℃,工作压力0~1MPa,EPDM和FKM橡胶密封材质可选;

金属阀体为不锈钢316材质,工作温度0~120℃,工作压力0~1.6MPa,EPDM和FKM橡胶密封材质可选,其中FKM橡胶密封材质工作温度0~200℃;

括号内的参数为可选型,订货提前说明。

三通球阀为塑料阀体,采用浮动球“L”形三通结构;

Remark: A means the duration time control ball valve;

Plastic manual ball valve, the valve body material is PPO or UPVC; Metal manual ball valve, the valve body material is 316L stainless steel;

Ball valve adopt the floating ball straight passway structure.

Plastic ball valve :Working temperature: 0~60℃;Working pressure:0~1MPa; Sealing rubber material: EPDM, FKM optional

Metal ball valve :Working temperature: 0~120℃;Working pressure:0~1.6MPa; Sealing rubber material: EPDM, FKM optional (FKM working temperature can reach 0~200℃)

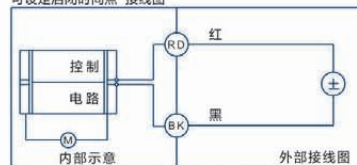
The parameter outside of brace is for the standard matching, the inside is for optional. Please describe your requested parameter in your order.

The three-way ball valve material is PPO, and it adopts the floating ball with L shape three-way structure.

可设定启闭时间点球阀

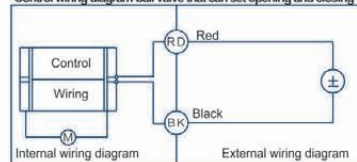
Point in Time Control Ball Valve

可设定启闭时间点-接线图



- 1、可对星期一至星期日的每一天在不同时间点设置球阀的开关,每天最多可设置5组开和关时间点。当天开关次数设为“0”时,当天全天的开关状态保持前一天最后一次开关的状态。
- 2、适用于DC12V或DC24V球阀。

Control wiring diagram-ball valve that can set opening and closing time



1. Can be controlled individually by setting open-close point-in-time from Monday to Sunday. If the number of switch is set to 0, then switch state will keep the same as last time the day before.
2. Suitable for DC12V or DC24V ball valve.



可设定启闭时间点球阀 Point in Time Control Ball Valve								
公称口径DN	连接方式 Connecting Type	型号 Model	尺寸 Size				启闭时间(秒) Open-close time (s)	输入电压 Input voltage
			A	B	C	H		
DN15	内螺纹	QQ911012A1-15	111	G1/2	14	144	3	12V (24V)
	UPVC胶接	QQ931012A1-15	123	φ20.2	20	144		
	PPR热熔	QQ951012A1-15	121	φ19.2	19	144		
DN20	内螺纹	QQ911012A1-20	119	G3/4	16	144	3	12V (24V)
	UPVC胶接	QQ931012A1-20	123	φ25.2	20	144		
	PPR热熔	QQ951012A1-20	121	φ24	19	144		
	金属内螺纹	QQ911412A1-20	89	G3/4	18	132.5		
	金属法兰	QQ941412A1-20	150	4×φ14	φ75	161.5		
DN25	内螺纹	QQ911012A1-25	138	G1	20	159.5	3	12V (24V)
	UPVC胶接	QQ931012A1-25	142	φ32.2	22	159.5		
	PPR热熔	QQ951012A1-25	146	φ31	24	159.5		
	金属内螺纹	QQ911412A1-25	99	G1	20	147		
	金属法兰	QQ941412A1-25	160	4×φ14	φ85	176.5		

备注:A1代表可设定启闭时长的独立控制;

塑料球阀阀体为PPO或UPVC材料,金属球阀阀体为316L不锈钢材质,采用浮动球直通结构;

金属阀体:工作温度0~60℃,工作压力0~1MPa,EPDM和FKM橡胶密封材质可选;

金属阀体:工作温度0~120℃,工作压力0~1.6MPa,EPDM和FKM橡胶密封材质可选,其中FKM橡胶密封材质工作温度0~200℃。

Remark: A1 means the point in time control ball valve;

Plastic manual ball valve, the valve body material is PPO or UPVC; Metal manual ball valve, the valve body material is 316L stainless steel;

Ball valve adopt the floating ball straight passway structure.

Plastic ball valve :Working temperature: 0~60℃;Working pressure:0~1MPa; Sealing rubber material: EPDM, FKM optional

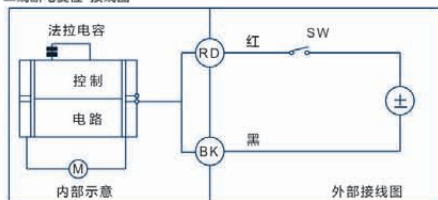
Metal ball valve :Working temperature: 0~120℃;Working pressure:0~1.6MPa; Sealing rubber material: EPDM, FKM optional (FKM working

temperature can reach 0~200℃

二线断电复位球阀

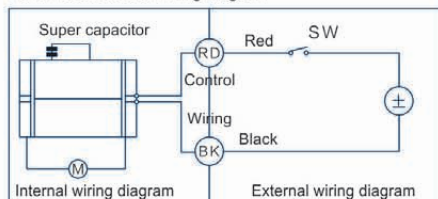
Two Wires Power Reset Ball Valve

二线断电复位—接线图



- 1、SW闭合，电动球阀打开，到位后并保持；
 - 2、SW断开，电动球阀关闭，到位后并保持；
- 适用于DC9~24V球阀。
 二线断电复位:采用法拉电容原理，功能相当于电磁阀，常开或常闭，断电自动复位。
 断电复位后再次通电时间不少于15分钟，不宜频繁启闭。

Power reset control wiring diagram



- 1、SW connected, electric ball valve open, after putting in place and keep the same position.
 - 2、SW disconnected, electric ball valve close, after putting in place and keep the same position.
- Suitable for DC9~24V ball valve.



二线断电复位球阀 Two Wires Power Reset Ball Valve

公称口径DN	连接方式 Connecting Type	型号 Model	尺寸 Size				启闭时间(秒) Open-close time (s)	输入电压 Input voltage	
			A	B	C	H			
DN15	PPO内螺纹	Q911012B-15	111	G1/2	14	144	12.5	9-24V	
		QQ911012B-15					3		
	UPVC胶接	Q931012B-15	123	φ20.2	20	144	12.5		
		QQ931012B-15					3		
PPR热熔	Q951012B-15	121	φ19.2	19	144	12.5			
	QQ951012B-15					3			
DN20	PPO内螺纹	Q911012B-20	119	G3/4	16	144	12.5		9-24V
		QQ911012B-20					3		
	UPVC胶接	Q931012B-20	123	φ25.2	20	144	12.5		
		QQ931012B-20					3		
	PPR热熔	Q951012B-20	121	φ24	19	144	12.5		
		QQ951012B-20					3		
	金属内螺纹	Q911412B-20	89	G3/4	18	132.5	12.5		
		QQ911412B-20					3		
金属法兰	Q941412B-20	150	4×φ14	φ75	161.5	12.5			
	QQ941412B-20					3			
DN25	PPO内螺纹	Q911012B-25	138	G1	20	159.5	12.5	9-24V	
		QQ911012B-25					3		
	UPVC胶接	Q931012B-25	142	φ32.2	22	159.5	12.5		
		QQ931012B-25					3		
	PPR热熔	Q951012B-25	146	φ31	24	159.5	12.5		
		QQ951012B-25					3		
	金属内螺纹	Q911412B-25	99	G1	20	147	12.5		
		QQ911412B-25					3		
金属法兰	Q941412B-25	160	4×φ14	φ85	176.5	12.5			
	QQ941412B-25					3			

备注:B代表断电复位;

启闭时间为3秒的断电复位球阀，工作压力不大于0.8MPa

塑料球阀阀体为PPO或“UPVC”材料，金属球阀阀体为316L不锈钢材质，采用浮动球直通结构；

塑料阀体：工作温度0~60℃，工作压力0~1MPa，EPDM和FKM橡胶密封材质可选；

金属阀体：工作温度0~120℃，工作压力0~1.6MPa，EPDM和FKM橡胶密封材质可选，其中FKM橡胶密封材质工作温度0~200℃。

Remark: B means the power rest ball valve;

The power rest ball valve with 3 seconds open-close, the working pressure should less than 0.8Mpa

Plastic manual ball valve, the valve body material is PPO or UPVC; Metal manual ball valve, the valve body material is 316L stainless steel;

Ball valve adopt the floating ball straight passway structure.

Plastic ball valve :Working temperature:0~60℃;Working pressure:0~1MPa; Sealing rubber material: EPDM, FKM optiona

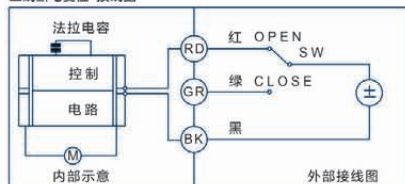
Metal ball valve :Working temperature:0~120℃;Working pressure:0~1.6MPa; Sealing rubber material: EPDM, FKM optiona (FKM working temperature can reach 0-200℃)

三线断电复位球阀

Three Wires Power Reset Ball Valve

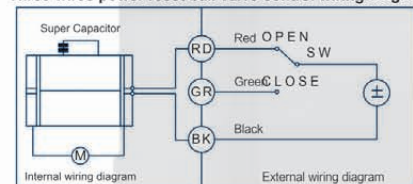


三线断电复位-接线图



- 1、SW与红线相连，电动球阀打开，到位后并保持；
 - 2、SW与绿线相连，电动球阀关闭，到位后并保持；
- 适用于DC12V、DC24V球阀。
三线断电复位：控制线为三芯线，同三线控制。正常工作时，法拉电容充电待用，外部发生停/断电时，电容放电使球阀自动复位。

Three wires power reset ball valve control wiring diagram



- 1、SW and the red wire connected, electric ball valve open, after putting in place and keep the same position.
 - 2、SW and the green wire connected, electric ball valve close, after putting in place and keep the same position.
- Suitable for DC9-24V ball valve.
Three wires power reset ball valve: three wires controlling, the same as three wires controlling ball valve. In the normal situation, the super capacitor is charged and standby. When power off, the super capacitor provide the power to ball valve to reset.

三线断电复位球阀 Three Wires Power Reset Ball Valve

公称口径DN	连接方式 Connecting Type	型号 Model	尺寸 Size				启闭时间(秒) Open-close time (s)	输入电压 Input voltage
			A	B	C	H		
DN15	PPO内螺纹	Q9110112B1-15	111	G1/2	14	144	12.5	12-24V
		QQ9110112B1-15					3	
	UPVC胶接	Q9310112B1-15	123	φ20.2	20	144	12.5	
		QQ9310112B1-15					3	
	PPR热熔	Q9510112B1-15	121	φ19.2	19	144	12.5	
		QQ9510112B1-15					3	
DN20	PPO内螺纹	Q9110112B1-20	119	G3/4	16	144	12.5	12-24V
		QQ9110112B1-20					3	
	UPVC胶接	Q9310112B1-20	123	φ25.2	20	144	12.5	
		QQ9310112B1-20					3	
	PPR热熔	Q9510112B1-20	121	φ24	19	144	12.5	
		QQ9510112B1-20					3	
	金属内螺纹	Q911412B1-20	89	G3/4	18	132.5	12.5	
		QQ911412B1-20					3	
	金属法兰	Q941412B1-20	150	4×φ14	φ75	161.5	12.5	
		QQ941412B1-20					3	
DN25	PPO内螺纹	Q911012B1-25	138	G1	20	159.5	12.5	12-24V
		QQ911012B1-25					3	
	UPVC胶接	Q931012B1-25	142	φ32.2	22	159.5	12.5	
		QQ931012B1-25					3	
	PPR热熔	Q951012B1-25	146	φ31	24	159.5	12.5	
		QQ951012B1-25					3	
	金属内螺纹	Q911412B1-25	99	G1	20	147	12.5	
		QQ911412B1-25					3	
	金属法兰	Q941412B1-25	160	4×φ14	φ85	176.5	12.5	
		QQ941412B1-25					3	

备注:B1代表三线断电复位,启闭时间为3秒的断电复位球阀,工作压力不大于0.8MPa

手动塑料球阀阀体为PPO或UPVC材料,采用浮动球直通结构;

手动金属球阀阀体为316L不锈钢材质,塑料阀体:工作压力0-1MPa, EPDM和FKM橡胶密封材质可选;金属阀件:工作温度0-120℃,工作压力0-1.6MPa, EPDM和FKM橡胶密封材质可选,其中FKM橡胶密封材质工作温度0-200℃。

Remark: B1 means the three wires power reset ball valve;The power reset ball valve with 3 seconds open-close, the working pressure should less than 0.8MPa

Plastic manual ball valve, the valve body material is PPO or UPVC; Metal manual ball valve, the valve body material is 316L stainless steel;

Ball valve adopt the floating ball straight passway structure.

Plastic ball valve :Working temperature: 0-60℃;Working pressure:0-1MPa; Sealing rubber material: EPDM, FKM optional

Metal ball valve :Working temperature: 0-120℃;Working pressure:0-1.6MPa; Sealing rubber material: EPDM, FKM optional (FKM working temperature can reach 0-200℃)

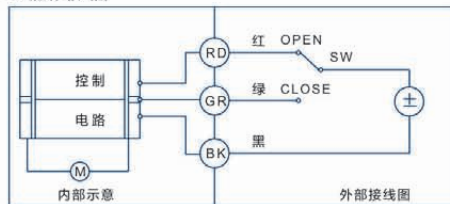
三线控制球阀(DC)

Three Wires Controlling Ball Valve (DC)

电源线为三芯线，其中一芯线与公共线通时为开，另一芯线与公共线通时为关

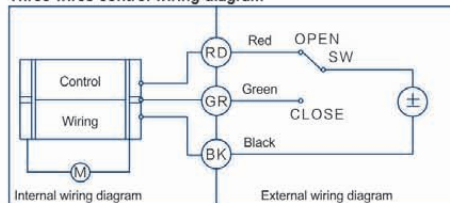
Three wires as controlling wire. When one wire connect with public wire, the ball valve open; when another wire connect with public wire, the ball valve close.

三线控制—接线图



- 1、SW与红线相连，电动球阀打开，到位后并保持；
 - 2、SW与绿线相连，电动球阀关闭，到位后并保持；
- 适用于DC12V、DC24V球阀。

Three wires control wiring diagram



- 1、SW and the red wire connected, electric ball valve open, after putting in place and keep the same position.
 - 2、SW and the green wire connected, electric ball valve close, after putting in place and keep the same position.
- Suitable for DC12V, DC24V ball valve.



三线控制(DC)球阀 Three Wires Controlling Ball Valve (DC)								
公称通径DN	连接方式 Connecting Type	型号 Model	尺寸 Size				启闭时间 Open-close time (s)	输入电压 Input voltage
			A	B	C	H/D(三通)		
DN15	PPO内螺纹	Q911011C-15	111	G1/2	14	144	12.5	6V (12V、24V)
		QQ911011C-15					3	
	UPVC胶接	Q931011C-15	123	φ20.2	20	144	12.5	
		QQ931011C-15					3	
	PPR热熔	Q951011C-15	121	φ19.2	19	144	12.5	
		QQ951011C-15					3	

DN20	PPO内螺纹	Q911011C-20	119	G3/4	16	144	12.5	6V (12V、24V)
		QQ911011C-20					3	
	UPVC胶接	Q931011C-20	123	φ25.2	20	144	12.5	
		QQ931011C-20					3	
	PPR热熔	Q951011C-20	121	φ24	19	144	12.5	
		QQ951011C-20					3	
金属内螺纹	Q941411C-20	89	G3/4	18	132.5	12.5		
	QQ941411C-20					3		
金属法兰	Q941411C-20	150	4×φ14	φ75	161.5	12.5		
	QQ941411C-20					3		
DN25	PPO内螺纹	Q911011C-25	138	G1	20	159.5	12.5	6V (12V、24V)
		QQ911011C-25					3	
	UPVC胶接	Q931011C-25	142	φ32.2	22	159.5	12.5	
		QQ931011C-25					3	
	PPR热熔	Q951011C-25	146	φ31	24	159.5	12.5	
		QQ951011C-25					3	
金属内螺纹	Q911411C-25	99	G1	20	147	12.5		
	QQ911411C-25					3		
金属法兰	Q941411C-25	160	4×φ14	φ85	176.5	12.5		
	QQ941411C-25					3		
DN32	PPO内螺纹	Q911012C-32	167	G1 1/4	22	184.5	7.5	12V (24V)
	UPVC胶接	Q931012C-32	174	φ40.2	26	184.5		
	金属内螺纹	Q911412C-32	120	G1 1/4	20	171.5		
	金属法兰	Q941412C-32	180	4×φ18	φ100	205.5		
DN40	PPO内螺纹	Q911012C-40	182	G1 1/2	24	198.5	7.5	12V (24V)
	UPVC胶接	Q931012C-40	196	φ50.2	31	198.5		
	金属内螺纹	Q911412C-40	125	G1 1/2	23	181.5		
	金属法兰	Q941412C-40	200	4×φ18	φ110	215.5		
DN50	PPO内螺纹	Q911013C-50	212	G2	25	235	7.5	24V
	UPVC胶接	Q931013C-50	237	φ63.2	38	235		
	金属内螺纹	Q911413C-50	155	G2	26	216.5		
	金属法兰	Q941413C-50	230	4×φ18	φ125	252.5		
DN25三通	PPO内螺纹	Q914012C-25	172	G1	22	138	7.5	12V (24V)
	UPVC胶接	Q934012C-25	174	φ32.2	26	139		
DN32三通	PPO内螺纹	Q914012C-32	166	G1 1/4	22	134.5	7.5	12V (24V)
	UPVC胶接	Q934012C-32	174	φ40.2	26	139		
DN40三通	PPO内螺纹	Q914012C-40	182	G1 1/2	24	159	7.5	12V (24V)
	UPVC胶接	Q934012C-40	196	φ50.5	31	138.5		
DN50三通	PPO内螺纹	Q914013C-50	212	G2	25	182.5	7.5	24V
	UPVC胶接	Q934013C-50	237	φ63.2	38	198.5		

备注:塑料球阀阀体为PPO或“UPVC”材料,金属球阀阀体为316L不锈钢材质,采用浮动球直通结构;

塑料阀体:工作温度0-60℃,工作压力0-1MPa, EPDM/FKM橡胶密封材质可选;

金属阀体:工作温度0-120℃,工作压力0-1.6MPa, EPDM/FKM橡胶密封材质可选,其中FKM橡胶密封材质工作温度0-200℃;

三通球阀阀体为PPO材料,采用浮动球“L”形三通结构;

Remark: Plastic manual ball valve, the valve body material is PPO or UPVC; Metal manual ball valve, the valve body material is 316L stainless steel;

Ball valve adopt the floating ball straight passage structure.

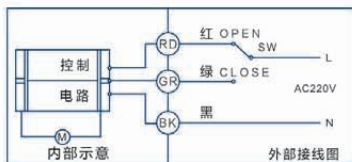
Plastic ball valve :Working temperature: 0-60℃;Working pressure:0-1MPa; Sealing rubber material: EPDM, FKM optional

Metal ball valve :Working temperature: 0-120℃;Working pressure:0-1.6MPa; Sealing rubber material: EPDM, FKM optional (FKM working temperature can reach 0-200℃)

The three-way ball valve material is PPO, and it adopts the floating ball with L shape three-way structure.

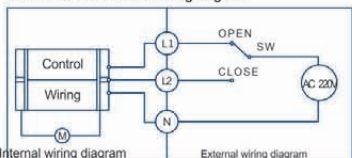
三线控制球阀(AC)

Three Wires Controlling Ball Valve (AC)



- 1、SW与红线相连，阀门打开，到位后并保持；
 - 2、SW与绿线相连，阀门关闭，到位后并保持；
- 适用于AC220V阀门。

220V Three wires control wiring diagram



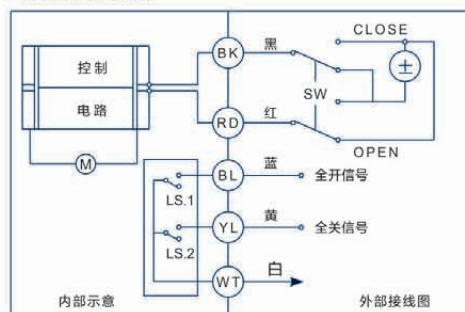
- 1、When N and L1 connect with 220V voltage, the electrical ball valve will open. After putting in place and keep the same position.
 - 2、When N and L2 connect with 220V voltage, the electrical ball valve will close. After putting in place and keep the same position.
- Suitable for AC220V ball valve.



二线带位置反馈球阀

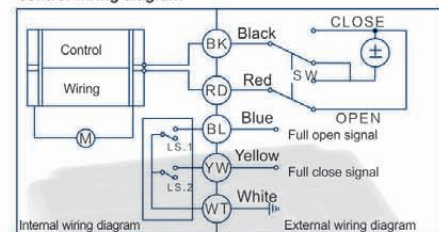
Two Wires Ball Valve with Position Feedback

二线带位置反馈-接线图



接线为五芯线(直流电源):电源控制线为二芯线,反馈信号线为三芯线。
电源控制线接正向电压为开,并提供“开”信号;
电源控制线接反向电压为关,并提供“关”信号;
1、SW与OPEN短接,电动球阀打开,到位后并保持。
同时LS.1接通并给出开到位置信号,即BL与WT相通;
2、SW与CLOSE短接,电动球阀关闭,到位后并保持。
同时LS.2接通并给出关到位置信号,即YL与WT相通;
适用于DC24V球阀。

Two wires ball valve with position feedback control wiring diagram



- 1、SW and OPEN connected, electric ball valve open, after putting in place and keep the same position. At the same time the LS. 1 connected and send out the full open signal, which is BL and WT connected.
- 2、SW and CLOSE connected, electric ball valve close, after putting in place and keep the same position. At the same time the LS. 2 connected and send out the full close signal, which is YW and WT connected.

Suitable for DC12V, DC24V, DC36V ball valve.



三线控制(AC220V)球阀系列 Three Wires Controlling Ball Valve (AC)								
公称口径DN	连接方式 Connecting Type	型号 Model	尺寸 Size				启闭时间(秒) Open-close time (s)	输入电压 Input voltage
			A	B	C	H		
DN15	内螺纹	Q911015C-15	111	G1/2	14	141	7.5	220V
	UPVC胶接	Q931015C-15	123	φ20.2	20			
	PPR热熔	Q951015C-15	121	φ19.2	19			
DN20	内螺纹	Q911015C-20	119	G3/4	16	129	7.5	220V
	UPVC胶接	Q931015C-20	123	φ25.2	20			
	PPR热熔	Q951015C-20	121	φ24	19			
DN25	金属内螺纹	Q911415C-20	89	G3/4	18	158	7.5	220V
	金属法兰	Q941415C-20	150	4×φ14	φ75			
	内螺纹	Q911015C-25	138	G1	20			
DN25	UPVC胶接	Q931015C-25	142	φ32.2	22	144	7.5	220V
	PPR热熔	Q951015C-25	146	φ31	24			
	金属内螺纹	Q911415C-25	99	G1	20			
	金属法兰	Q941415C-25	160	4×φ14	φ85	173		

备注:控制电压为220V, C代表三线控制

塑料球阀阀体为PPO或“UPVC”材料,金属球阀阀体为316L不锈钢材质,采用浮动球直通结构;

塑料阀体:工作温度0~60°C,工作压力0~1MPa, EPDM和FKM橡胶密封材质可选;

金属阀体:工作温度0~120°C,工作压力0~1.6MPa, EPDM和FKM橡胶密封材质可选,其中FKM橡胶密封材质工作温度0~200°C。

Remark: Input voltage is 220AC, C means three wires controlling ball valve;

Plastic manual ball valve, the valve body material is PPO or UPVC; Metal manual ball valve, the valve body material is 316L stainless steel;

Ball valve adopt the floating ball straight passway structure.

Plastic ball valve :Working temperature: 0~60°C;Working pressure:0~1MPa; Sealing rubber material: EPDM, FKM optional

Metal ball valve :Working temperature: 0~120°C;Working pressure:0~1.6MPa; Sealing rubber material: EPDM, FKM optional (FKM working temperature can reach 0~200°C)

二线带位置反馈球阀 Two Wires Ball Valve with Position Feedback								
公称口径DN	连接方式 Connecting Type	型号 Model	尺寸 Size				启闭时间(秒) Open-close time (s)	输入电压 Input voltage
			A	B	C	H/D(三通)		
DN15	PPO内螺纹	QQ911013D-15	111	G1/2	14	144	3	24V
	UPVC胶接	QQ931013D-15	123	φ20.2	20	144		
	PPR热熔	QQ951013D-15	121	φ19.2	19	144		

DN20	PPO内螺纹	QQ911013D-20	119	G3/4	16	144	3	24V
	UPVC胶接	QQ931013D-20	123	φ25.2	20	144		
	PPR热熔	QQ951013D-20	121	φ24	19	144		
	金属内螺纹	QQ911413D-20	89	G3/4	18	132.5		
金属法兰	QQ941413D-20	150	4×φ14	φ75	161.5			
DN25	PPO内螺纹	QQ911013D-25	138	G1	20	159.5		
	UPVC胶接	QQ931013D-25	142	φ32.2	22	159.5		
	PPR热熔	QQ951013D-25	146	φ31	24	159.5		
	金属内螺纹	QQ911413D-25	99	G1	20	147		
金属法兰	QQ941413D-25	160	4×φ14	φ85	176.5			
DN32	PPO内螺纹	Q911013D-32	167	G1 1/4	22	149		
	UPVC胶接	Q931013D-32	174	φ40.2	26	149		
	金属内螺纹	Q911413D-32	120	G1 1/4	20	136		
	金属法兰	Q941413D-32	180	4×φ18	φ100	170		
DN40	PPO内螺纹	Q911013D-40	182	G1 1/2	24	163		
	UPVC胶接	Q931013D-40	196	φ50.2	31	163		
	金属内螺纹	Q911413D-40	128	G1 1/2	23	146		
	金属法兰	Q941413D-40	200	4×φ18	φ110	180		
DN50	PPO内螺纹	Q911013D-50	212	G2	25	200		
	UPVC胶接	Q931013D-50	237	φ63.2	38	200		
	金属内螺纹	Q911413D-50	155	G2	26	181		
	金属法兰	Q941413D-50	230	4×φ18	φ125	217		
DN65	UPVC胶接	Q931513D-65	202	φ75.4	44	273.5		
	UPVC法兰	Q941513D-65	285	4×φ18	φ145	301		
	不锈钢内螺纹	Q911413D-65	196	G2 1/2	29	260		
	不锈钢法兰	Q941413D-65	290	4×φ18	φ145	291		
DN80	UPVC胶接	Q931513D-80	232	φ90.5	51	303.5		
	UPVC法兰	Q941513D-80	305	8×φ18	φ160	321		
	不锈钢内螺纹	Q911413D-80	216	G3	32	275.5		
	不锈钢法兰	Q941413D-80	310	8×φ18	φ160	305.5		
DN25三通	PPO内螺纹	Q914013D-25	172	G1	22	149		
	UPVC胶接	Q934013D-25	174	φ32.2	26	149		
DN32三通	PPO内螺纹	Q914013D-32	166	G1 1/4	22	149		
	UPVC胶接	Q934013D-32	174	φ40.2	26	149		
DN40三通	PPO内螺纹	Q914013D-40	182	G1 1/2	24	163		
	UPVC胶接	Q934013D-40	196	φ50.2	31	163		
DN50三通	PPO内螺纹	Q914013D-50	212	G2	25	200		
	UPVC胶接	Q934013D-50	237	φ63.2	38	200		
DN65三通	UPVC胶接	Q934513D-65	283	φ75.4	43	237.5		
	UPVC胶接	Q934513D-80	330.5	φ90.5	51	271		

备注:塑料球阀阀体为PPO或UPVC材料,金属球阀阀体为316L不锈钢材质,采用浮动球直通结构;

塑料阀体:工作温度0~60℃,工作压力0~1MPa,EPDM或FKM橡胶密封材质可选;

金属阀体:工作温度0~120℃,工作压力0~1.6MPa,EPDM或FKM橡胶密封材质可选,其中FKM橡胶密封材质工作温度0~200℃;

三通球阀阀体为PPO材料,采用浮动球“L”形三通结构;

Remark: Plastic manual ball valve, the valve body material is PPO or UPVC; Metal manual ball valve, the valve body material is 316L stainless steel;

Ball valve adopt the floating ball straight passway structure.

Plastic ball valve :Working temperature: 0~60℃;Working pressure:0~1MPa; Sealing rubber material: EPDM, FKM optional

Metal ball valve :Working temperature: 0~120℃;Working pressure:0~1.6MPa; Sealing rubber material: EPDM, FKM optional (FKM working temperature can reach 0~200℃)

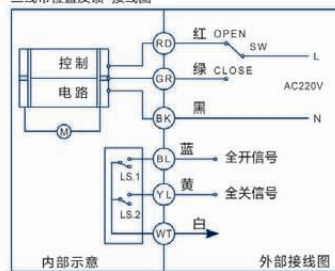
The three-way ball valve material is PPO, and it adopts the floating ball with L shape three-way structure.

三线带位置反馈

Three Wires Ball Valve with Position feedback

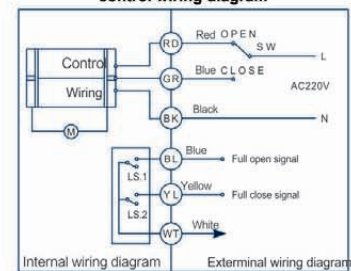


三线带位置反馈—接线图



- 1、SW与红线相连,阀门打开,到位后并保持。
同时LS.1接通并给出开到位置信号,即蓝线与白线相通;
- 2、SW与绿线相连,阀门关闭,到位后并保持。
同时LS.2接通并给出关到位置信号,即黄线与白线相通;
- 3、适用于AC220V阀门。

Three wires ball valve with position feedback control wiring diagram



- 1、SW and the red wire connected, electric ball valve open, after putting in place and keep the same position. At the same time the LS.1 connected and send out the full open signal, which is BL and BR connected.
- 2、SW and the green wire connected, electric ball valve close, after putting in place and keep the same position. At the same time the LS.2 connected and send out the full close signal, which is YL and WT connected.
- 3、Suitable for AC220V ball valve.

三线带位置反馈 Three Wires Ball Valve with Position feedback

公称通径DN	连接方式 Connecting Type	型号 Model	尺寸 Size				启闭时间(秒) Open-close time (s)	输入电压 Input voltage		
			A	B	C	H/D(三通)				
DN32	PPO内螺纹	Q911015E-32	167	G1 1/4	22	200	12	220V		
	UPVC胶接	Q931015E-32	174	φ40.2	26	200				
	金属内螺纹	Q911415E-32	120	G1 1/4	20	187				
DN40	金属法兰	Q941415E-32	180	4×φ18	φ100	221				
	PPO内螺纹	Q911015E-40	182	G1 1/2	24	214				
	UPVC胶接	Q931015E-40	196	φ50.2	31	214				
DN50	金属内螺纹	Q911415E-40	128	G1 1/2	23	197	15	220V		
	金属法兰	Q941415E-40	200	4×φ18	φ110	231				
	PPO内螺纹	Q911015E-50	212	G2	25	262				
DN65	UPVC胶接	Q931015E-50	237	φ63.2	38	262			7.5	220V
	金属内螺纹	Q911415E-50	155	G2	26	243				
	金属法兰	Q941415E-50	230	4×φ18	φ125	279				
DN80	UPVC胶接	Q931515E-65	202	φ75.4	44	273.5	12	220V		
	法兰连接	Q941515E-65	285	4×φ18	φ145	301				
	金属内螺纹	Q911415E-65	196	G2 1/2	29	260				
DN100	金属法兰	Q941415E-65	290	4×φ18	φ145	291			15	220V
	UPVC胶接	Q931515E-80	232	φ90.5	51	303.5				
	法兰连接	Q941515E-80	305	8×φ18	φ160	321				
DN125	金属内螺纹	Q911415E-80	216	G3	32	275.5	12	220V		
	金属法兰	Q941415E-80	310	8×φ18	φ160	305.5				
	不锈钢法兰	Q941415E-100	305	8×φ18	φ180	403				
DN25三通	PPO内螺纹	Q914015E-25	172	G1	22	200			12	220V
	UPVC胶接	Q934015E-25	174	φ32.2	26	200				
	PPO内螺纹	Q914015E-32	166	G1 1/4	22	200				
DN32三通	UPVC胶接	Q934015E-32	174	φ40.2	26	200	12	220V		
	PPO内螺纹	Q914015E-40	182	G1 1/2	24	214				
	UPVC胶接	Q934015E-40	196	φ50.2	31	214				
DN40三通	PPO内螺纹	Q914015E-50	212	G2	25	262			15	220V
	UPVC胶接	Q934015E-50	237	φ63.2	38	262				
	PPO内螺纹	Q914015E-50	212	G2	25	262				

备注: D代表带位置反馈;

塑料球阀阀体为PPO或“UPVC”材料, 金属球阀阀体为316L不锈钢材质, 采用浮动球直通结构;

塑料阀体: 工作温度0~60℃, 工作压力0~1MPa, EPDM和FKM橡胶密封材质可选;

金属阀体: 工作温度0~120℃, 工作压力0~1.6MPa, EPDM和FKM橡胶密封材质可选, 其中FKM橡胶密封材质工作温度0~200℃。

三通球阀阀体为PPO材料, 采用浮动球“L”形三通结构;

Remark: D means the ball valve with position feedback

Plastic manual ball valve, the valve body material is PPO or UPVC; Metal manual ball valve, the valve body material is 316L stainless steel;

Ball valve adopt the floating ball straight passway structure;

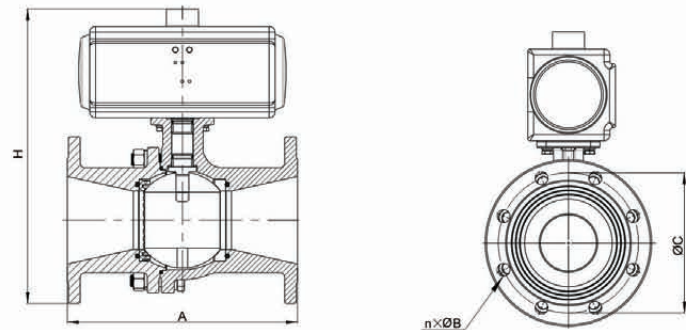
Plastic ball valve: Working temperature: 0~60°C; Working pressure: 0~1MPa; Sealing rubber material: EPDM, FKM optional

Metal ball valve: Working temperature: 0~120°C; Working pressure: 0~1.6MPa; Sealing rubber material: EPDM, FKM optional (FKM working temperature can reach 0~200°C)

The three-way ball valve material is PPO, and it adopts the floating ball with L shape three-way structure.

气动陶瓷硬密封球阀

Pneumatic Ball Valve with Metal Valve Body



气动陶瓷芯金属球阀 Pneumatic Ball Valve with Metal Valve Body

公称通径DN	连接方式 Connecting Type	型号 Model	尺寸 Size				启闭时间(秒) Open-close time (s)
			A	B	C	H	
DN20	不锈钢内螺纹	Q61141-20	89	G3/4	18	112	1-2
	不锈钢法兰	Q64141-20	150	4×φ14	φ75	112	
DN25	不锈钢内螺纹	Q61141-25	99	G1	20	122	
	不锈钢法兰	Q64141-25	160	4×φ14	φ85	122	
DN32	不锈钢内螺纹	Q61141-32	120	G1 1/4	20	147	
	不锈钢法兰	Q64141-32	180	4×φ18	φ100	147	
DN40	不锈钢内螺纹	Q61141-40	128	G1 1/2	23	168	
	不锈钢法兰	Q64141-40	200	4×φ18	φ110	168	
DN50	不锈钢内螺纹	Q61141-50	155	G2	26	202	
	不锈钢法兰	Q64141-50	230	4×φ18	φ125	202	
DN65	不锈钢内螺纹	Q61141-65	196	G2 1/2	29	248	
	不锈钢法兰	Q64141-65	290	4×φ18	φ145	248	
DN80	不锈钢内螺纹	Q61141-80	216	G3	32	278	
	不锈钢法兰	Q64141-80	310	8×φ18	φ160	278	
DN100	不锈钢法兰	Q64141-100	305	8×φ18	φ180	400.5	

备注：阀体材料为316L，工作温度0-120℃，工作压力0-1.6MPa，EPDM和FKM橡胶密封材质可选，其中FKM橡胶密封材质工作温度0-200℃；
通过压缩空气驱动球阀的启闭，启闭速度快；
可配调速器来调节启闭速度。

Remark: Valve body material is 316L, working temperature: 0-120℃; Working pressure: 0-1.6MPa; Sealing rubber material: EPDM, FKM optional (FKM working temperature can reach 0-200℃)
Can control ball valve open and close by compresses air, rapid opening;
Can match the speed controller to adjust opening and closing speed.

Wi-Fi球阀控制器

Wi-Fi ball valve controller

- 手机远程控制
- 自动定时启闭
- 可控制两路球阀
- Cell phone remote control
- Automatically open and close based on set point in time
- It could control two ball valves.



过滤&软化/混床球阀控制器

Ball Valve Controller for Filter & Softener and Mixed Bed Water Treatment Systems



型号: 46030(F109)
Model: 46040(F109B)

过滤
控制系统
Filter
control system



软化
控制系统
Softener
control system



混床
控制系统
Mixed bed
control system



产品特点 Product Characteristics

- 可与本公司DN20 - DN80的电动球阀配套使用; It can be used together with Runxin electronic ball valve from DN20 to DN80.
- 配套用的陶瓷芯电动球阀, 流阻小、耐腐蚀、抗水垢抗杂质、耐用; The matched ceramic ball valve has the advantage of small flow resistance, good corrosion resistance, good wear resistance and long lifetime.
- LCD显示界面。 LCD display.

应用范围 Range of Application

球阀控制器用于配套本公司二线控制电动陶瓷芯球阀构成过滤或软化或混床除盐水处理系统。

Ball valve controller is matched with Runxin two wires electronic ball valve to be filter & softener or mixed bed demineralized water treatment systems

型号 Model	电源适配器输入 Transformer input	电源适配器输出 Transformer Output	环境温度 (°C) Environment Temperature(°C)	用途 Application
46030(F109)	AC100-240V 50-60Hz	DC24V.1.5A	5-50°C	过滤&软化 Filter& Softener
46040(F109B)				混床 Mixed Bed

系统配置 System Configuration

1. 过滤系统配置参考表 Filter System Configuration Table

RXF-65 0.1MPa压差流量80m³/h RXF-65 0.1MPa Pressure Drop Flow Rate 80m³/h		
配置 Configuration	型号 Model	数量 Quantity
球阀控制器 Ball Valve Controller	F109	1
DN65球阀 DN65 Ball Valve	Q931513-65	5
主管路配管 Main Pipeline	建议采用DN80以上 Suggest to use size bigger than DN80	

2. 软化系统配置参考表 Softener System Configuration Table

RXS-65 0.1MPa压差流量80m³/h RXS-65 0.1MPa Pressure Drop Flow Rate 80m³/h		
配置 Configuration	型号 Model	数量 Quantity
球阀控制器 Ball Valve Controller	F109	1
DN65球阀 DN65 Ball Valve	Q931513-65	5
DN32球阀 DN32 Ball Valve	Q931012-32	2
主管路配管 Main Pipeline	建议采用DN80以上 Suggest to use size bigger than DN80	

3. 混床系统配置参考表 Mixed Bed System Configuration Table

RXH-10 0.1MPa压差流量10m³/h RXH-10 0.1MPa Pressure Drop Flow Rate 10m³/h		
配置 Configuration	型号 Model	数量 Quantity
球阀控制器 Ball Valve Controller	F109B	1
DN25球阀 DN25 Ball Valve	Q931012-25	5
DN20球阀 DN20 Ball Valve	Q931012-20	8
电阻率仪 Resistivity Meter	2976073	1
射流器 Injector		2
主管路配管 Main Pipeline	建议采用DN32以上 Suggest to use size bigger than DN32	

RXH-30 0.1MPa压差流量30m³/h RXH-30 0.1MPa Pressure Drop Flow Rate 30m³/h		
配置 Configuration	型号 Model	数量 Quantity
球阀控制器 Ball Valve Controller	F109B	1
DN40球阀 DN40 Ball Valve	Q931012-40	5
DN32球阀 DN32 Ball Valve	Q931012-32	8
电阻率仪 Resistivity Meter	2976073	1
射流器 Injector		2
主管路配管 Main Pipeline	建议采用DN50以上 Suggest to use size bigger than DN50	

RXF-80 0.1MPa压差流量150m³/h RXF-80 0.1MPa Pressure Drop Flow Rate 150m³/h		
配置 Configuration	型号 Model	数量 Quantity
球阀控制器 Ball Valve Controller	F109	1
DN80球阀 DN80 Ball Valve	Q931513-80	5
主管路配管 Main Pipeline	建议采用DN100以上 Suggest to use size bigger than DN100	

RXS-80 0.1MPa压差流量150m³/h RXS-80 0.1MPa Pressure Drop Flow Rate 150m³/h		
配置 Configuration	型号 Model	数量 Quantity
球阀控制器 Ball Valve Controller	F109	1
DN80球阀 DN80 Ball Valve	Q931513-80	5
DN40球阀 DN40 Ball Valve	Q931012-40	2
主管路配管 Main Pipeline	建议采用DN100以上 Suggest to use size bigger than DN100	

RXH-20 0.1MPa压差流量20m³/h RXH-20 0.1MPa Pressure Drop Flow Rate 20m³/h		
配置 Configuration	型号 Model	数量 Quantity
球阀控制器 Ball Valve Controller	F109B	1
DN32球阀 DN32 Ball Valve	Q931012-32	5
DN25球阀 DN25 Ball Valve	Q931012-25	8
电阻率仪 Resistivity Meter	2976073	1
射流器 Injector		2
主管路配管 Main Pipeline	建议采用DN40以上 Suggest to use size bigger than DN40	

RXH-45 0.1MPa压差流量45m³/h RXH-45 0.1MPa Pressure Drop Flow Rate 45m³/h		
配置 Configuration	型号 Model	数量 Quantity
球阀控制器 Ball Valve Controller	F109B	1
DN50球阀 DN50 Ball Valve	Q931012-50	5
DN32球阀 DN32 Ball Valve	Q931012-32	8
电阻率仪 Resistivity Meter	2976073	1
射流器 Injector		2
主管路配管 Main Pipeline	建议采用DN65以上 Suggest to use size bigger than DN65	

陶瓷平面密封电控截止阀 (DN50)

Ceramic Disks with Hermetic Head Faces Sealing
Automatic Shut-off Valve (DN50)

- 陶瓷平面密封，耐磨、耐腐蚀、抗杂质
- 0.1MPa压差下，流量45 m³/h
- 可用于水、部分酸、碱等流体
- 最大工作压力0.8MPa
- DC24V二线控制，带位置指示灯，带位置反馈
- 可应用于温度、湿度等多种方式控制

- Ceramic disks with hermetic head faces sealing, wear and corrosion resistance, anti-impurities things.
- Flow rate 45 m³/h under 1 bar pressure drop.
- Be suitable with liquid of water, part of acid, alkaline, etc.
- Maximal working pressure 8 bar.
- 24DC two wires control, with position light indicator, feedback function etc.
- Could be controlled by temperature, humidity, etc.



应用领域

Range Of Application

广泛应用于水处理、能源、化工、食品等行业

Be used in water treatment system, Water meter IC Card, chemical industry, food industry and etc.

○ 学校、浴场等卡式节水系统、预付费冷热热水表场所。
Water-saving system in school, bath center and prepayable water meter for cold and hot water situation.

○ 工业自控、自动排污。
Industrial automatic control system and automatic sewage system.

○ 环保、给排水、食品工程、水处理工程。
Project for environment protection, water supply and drainage, food and water treatment.



○ 80 m³/h过滤设备
80m³/h Filter device



○ 医疗用水设备
Medical Water Equipment



○ 电镀液重金属提取设备
Heavy metal extraction equipment for electroplating solution



○ 造纸厂75吨锅炉用水
75 tons boiler water system in paper mill



○ 有色金属冶炼
Non-ferrous metal smelting



○ 阴阳床设备
Anion and cation system



○ 硅片清洗设备
Silicon wafer cleaning equipment



○ 智能电镀过滤器
Intelligent plating filter equipment



○ 超纯水处理系统
Ultrapure water treatment system



○ 50 m³/h除铁锰设备
50m³/h Iron and manganese removal device



○ 精密过滤器
Precision filter



○ 海水淡化设备
Seawater desalination equipment



○ 50吨除铁锰球阀
50 tons iron and manganese removal device



○ 次氯酸钠发生器系统
Sodium hypochlorite generator system



○ 反渗透设备
Reverse osmosis equipment



○ 医疗用水设备
Medical water treatment equipment

关于球阀的编号

Ball Valve Part Number

型号表示方法 Nomenclature



表1驱动方式代号 Table 1 Ceramic ball valve driven type code

驱动方式 Driven Type	电动驱动 Solenoil Driven	蜗轮 Worm Gear Driven	锥齿轮 Bevel Gear Driven	气动 Gas Driven	电动 Electric Driven
代号 Code	0	2	5	6	9

手动驱动时省略; 对于气动球阀: 常开式用0K, 常闭式用0B表示; 对于断电复位球阀: 常开式用0K, 常闭式用0B表示。
There is no this code for manual ball valve. For gas driven ball valves, "0K" represents normal open, "0B" represents normal close. For the power reset ball valve, "0K" represents normal open, "0B" represents normal close.

表2连接形式代号 Table 2 Ceramic ball valve connecting type code

连接形式 Connecting Type	代号 Code	连接形式 Connecting Type	代号 Code
内螺纹 Female Thread	1	焊接式 Weld	6
外螺纹 Male Thread	2	对夹 Butt Clamp	7
胶接 Glue	3	卡箍 Clamp	8
法兰式 Flange	4	卡套 Clip	9
热熔 Hot Melling	5		

表3结构形式代号 Table 3 Ceramic ball valve structure type code

结构形式 Structure Type	代号 Code	结构形式 Structure Type	代号 Code
浮动球 Straight Passway	1	四通流道 Four-way Passway	6
Y形三通流道 Y Shape Three-way Passway	2	固定球 Straight Passway	7
L形三通流道 L Shape Three-way Passway	4	T形三通流道 T Shape Three-way Passway	8
T形三通流道 T Shape Three-way Passway	5	L形三通流道 L Shape Three-way Passway	9

表4阀体材料代号 Table 4 Ceramic ball valve body material code

阀体材料 Valve Body Material	PP0	HPb59-1	304	316	316L	UPVC	CPVC	PPH
代号 Code	0	1	2	3	4	5	6	7

表5陶瓷材料代号 Table 5 Ceramic materials

密封面材料 Sealing part material	90瓷 90% Al ₂ O ₃	SiC	ZrO ₂	Si ₃ N ₄	99瓷 99% Al ₂ O ₃
代号 Code	1	2	3	4	5

表6输入电压代号 Table 6 Ceramic ball valve input voltage code

输入电压 Input Voltage	DC6V	DC12V	DC24V	DC36V	AC220V
代号 Code	1	2	3	4	5

当阀门还具有其它功能作用或有其他特殊结构时, 在阀门类型代号后再加注一个汉语拼音字母表示;
If ball valve has other function or structure, we will add a letter before valve type code.

表7具有其它功能作用或有其他特殊结构的阀门代号
Table 7 Other function or structure ball valve code

功能作用名称 Function	防火型 Fireproof Type	楔闭型 Shut-off Type	排渣型 Slagging Type	快速型 Fast Type	辅助手动型 Auxiliary Manual Type	调节型 Adjustable Type	(两杆密封)波纹管型 (Shaft Seal) Corrugated pipe Type
代号 Code	F	H	P	Q	S	V	W