

润景灌溉阀

陶瓷 **硬** **密** **封**

Runjing Irrigation Valve with Ceramic Hard Sealing

保险单号: 14801223902872127783



底阀
G3001系列



出水桩阀
G1101系列



水力控制阀
G2101系列

- 叠片式过滤器专利号(Patent No.): ZL201620552465.2 ZL202223080527.9
- 陶瓷硬密封球阀专利号(Patent No.): ZL202222814101.5 ZL202420084891.2
- 底阀专利申请号(PatentNo.): ZL202422824530X
- 出水桩阀发明专利号(Patent No.): ZL202411137556.5
- 水力控制阀专利申请号(Patent No.): ZL202411761252.6 ZL202422969314.4



叠片过滤器
RJ-DF2/F3系列



企业简介 Company Profile

温州市润新机械制造有限公司创建于2000年，在温州市鹿城区山福镇和丽水市经济开发区建有生产基地，占地130亩、建筑面积20多万平方米，旗下拥有润新、润莱和润景三大品牌，主营水处理系统用控制阀(润新阀)、润莱民用(商用)水处理器、润景陶瓷硬密封球阀和润景智能灌溉产品，是国家高新技术企业、工信部专精特新重点“小巨人”企业、国家级绿色工厂、浙江省“隐形冠军”企业、温州市“最美工厂”，入选省级数字化车间，荣获“浙江出口名牌”、温州市慈善奖·机构捐赠奖、灌溉强农卓越品牌等称号，累计取得160多项专利授权，产品出口全球159个国家和地区。

农业灌溉的尾梢系统，即**终端出水机具的耐用性、节水性、操控的先进性**同样具有战略意义。润景陶瓷硬密封智能灌溉用阀可以满足上述要求。

润新公司利用特种陶瓷密封技术开发润景水泵底阀、水力控制阀、叠片过滤器、水肥一体机、出水桩阀（三通/五通）、陶瓷硬密封球阀系列产品，其阀芯采用高硬度特种陶瓷材料，经1680℃超高温烧、精密加工而成，具有硬度高、抗杂质、耐泥沙磨损、耐肥液腐蚀、密封性好、使用寿命长、扭矩轻、功耗低等优点，大幅降低农业种植成本，为农业现代化发展提供助力。

Founded in 2000, Wenzhou Runxin Manufacturing Machine Co., Ltd. There are production bases located in Shanfu Town, Lucheng District, Wenzhou City and Lishui Economic Development Zone, covering an area of 86,667 square meters and a construction area of over 200,000 square meters. The company owns three major brands: Runxin, Runlucky, and Runjing. Our main products include control valves (Runxin valves) for water treatment systems, Runlucky residential (commercial) water treatment systems, Runjing ceramic hard sealing ball valves, and Runjing intelligent irrigation products. Runxin was titled with National New High-tech Enterprise, National Specialized, Fined, Peculiar and Innovative "Little Giant" Enterprise, National Green Factory, Zhejiang Hidden Champion Enterprise, Wenzhou First Batch of "The Most Beautiful Factories, Selected as a provincial-level digital workshop, awarded titles such as "Zhejiang Export Famous Brand", Wenzhou Charity Award&Institution Donation Award and Excellent Brand for Irrigation and Strong Agriculture, etc., with a total of more than 160 patent authorizations, and products exported to 159 countries and regions worldwide.

The tail-end system of agricultural irrigation, as the terminal water outlet equipment, its durability, water-saving performance and advanced operability also have strategic significance. Runjing ceramic hard sealing intelligent irrigation valve can meet the above requirements.

Runxin company utilizes special ceramic sealing technology to develop a series of products including Runjing bottom valves of water pumps, hydraulic control valve, disk filter, water and fertilizer integrated machine, water outlet pile valve (three-way/five way), and ceramic hard sealing ball valve. The valve core is made of high hardness special ceramic material, which is fired at an ultra-high temperature of 1680 °C and precision processed. It has the advantages of high hardness, impurity resistance, mud and sand wear resistance, fertilizer and liquid corrosion resistance, good sealing performance, long service life, low torque, and low power consumption, greatly reducing agricultural planting costs and providing assistance for the modernization of agriculture.



中国节水产品认证 Water-saving Product Certification



●出水桩阀
Water outlet pile valve



●水力控制阀
Irrigation hydraulic control valve



●水肥一体机
Water and fertilizer integrated machine



●陶瓷硬密封球阀
Ceramic hard sealing ball valve



●叠片式过滤器
Disc filter



产品特点

Product features

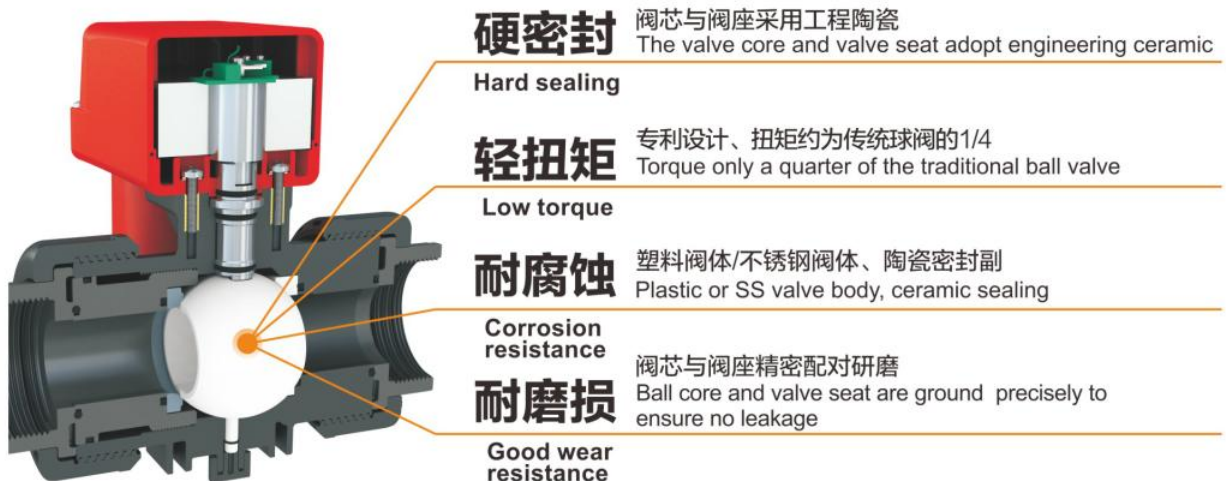
平面阀结构特点

Structural characteristics of hermetic head faces sealing structure valve



球阀结构特点

Structure and Features of Ceramic Hard Sealing Ball Valve



耐腐蚀

Good Corrosion Resistance

硬密封球阀阀芯常用材料的耐腐蚀性能表

Corrosion resistance table of commonly used materials of ball core of Runxin ceramic hard sealing ball valve

介 质 Media	温 度 Temperature	ZrO ₂	95AL ₂ O ₃	SiC	Si ₃ N ₄	SS304	SS316
20%HCL	60℃	A	A	A	B	C	C
20%HCL	95℃	A	A	A	C	--	--
90%H ₂ SO ₄	60℃	A	A	A	A	C	C
90%H ₂ SO ₄	95℃	A	A	A	B	C	C
60%H ₃ PO ₄	60℃	A	A	A	C	C	C
60%H ₃ PO ₄	95℃	A	A	A	C	C	C
10%HF	60℃	C	B	A	A	C	C
46%HF	95℃	C	C	A	C	--	--
60%HNO ₃	60℃	A	B	A	C	A	A
60%HNO ₃	95℃	A	C	A	C	B	B
30%NaOH	60℃	A	C	A	B	A	A
30%NaOH	95℃	B	C	A	C	A	B

A:表示材料在介质中，无腐蚀或可以忽略，推荐使用；
B:表示材料在介质中，轻微腐蚀或较少腐蚀，适合使用；
C:表示材料在介质中，腐蚀中等或较大腐蚀，不推荐使用。

A: Indicates that the material is non-corrosive or negligible in the medium, and is recommended for use;
B: Indicates that the material is slightly or minimally corroded in the medium and is suitable for use;
C: Indicates that the material has moderate or significant corrosion in the medium and is not recommended for use.

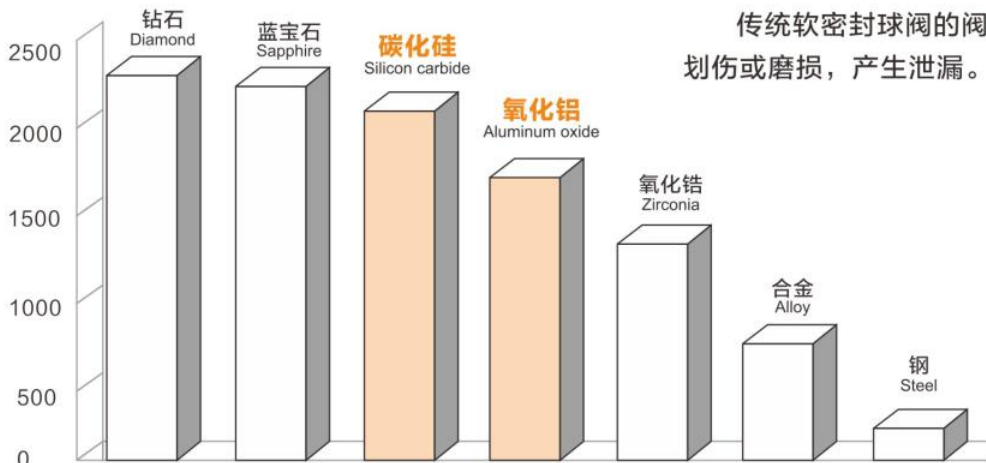
高硬度

High hardness

常见物质硬度对比表

Comparison table of hardness of common substances

单位: kg/mm²



润景陶瓷硬密封球阀的阀芯与阀座采用刚玉陶瓷或碳化硅，经1680℃或2200℃超高温烧结而成，其硬度仅次于蓝宝石和钻石，能够适应各种高磨损、高冲刷工况。

传统软密封球阀的阀芯容易受硬颗粒杂质划伤或磨损，产生泄漏。

RunJing ceramic hard sealing ball valve core is made of alumina or silicon carbide and sintered at 1680℃ or 2200℃. Its hardness is second only to sapphire and diamond, and it can adapt to various high wear and high erosion conditions.

The valve core of the traditional soft sealing ball valve is easily scratched or worn by hard particles and impurities, resulting in leakage.

耐久用

Durable

2021年12月，浙江省泵阀产品质量检测中心、国家阀门质量监督检测中心（浙江）出具检测报告——润景DN32陶瓷硬密封球阀，6公斤压力下，开启1秒，关闭3秒，**100万次启闭**后持续1分钟无泄漏。

In December of 2021, Zhejiang Pump and Valve Product Quality Inspection Center and National Valve Quality Supervision and Inspection Center (Zhejiang) issued a test report-Runjing ceramic hard sealing ball valve passed the action life test, 6 bar pressure, opening and closing 1,000,000 times without leakage!



浙江产品质量检测中心		浙江产品质量检测中心	
检测项目	检测结果	检测项目	检测结果
1. 外观检查	符合设计要求	1. 外观检查	符合设计要求
2. 尺寸检查	符合设计要求	2. 尺寸检查	符合设计要求
3. 重量检查	符合设计要求	3. 重量检查	符合设计要求
4. 硬度检查	符合设计要求	4. 硬度检查	符合设计要求
5. 密封性能检查	符合设计要求	5. 密封性能检查	符合设计要求
6. 耐压性能检查	符合设计要求	6. 耐压性能检查	符合设计要求
7. 启闭寿命检查	符合设计要求	7. 启闭寿命检查	符合设计要求
8. 耐腐蚀性能检查	符合设计要求	8. 耐腐蚀性能检查	符合设计要求
9. 抗冲击性能检查	符合设计要求	9. 抗冲击性能检查	符合设计要求
10. 疲劳性能检查	符合设计要求	10. 疲劳性能检查	符合设计要求

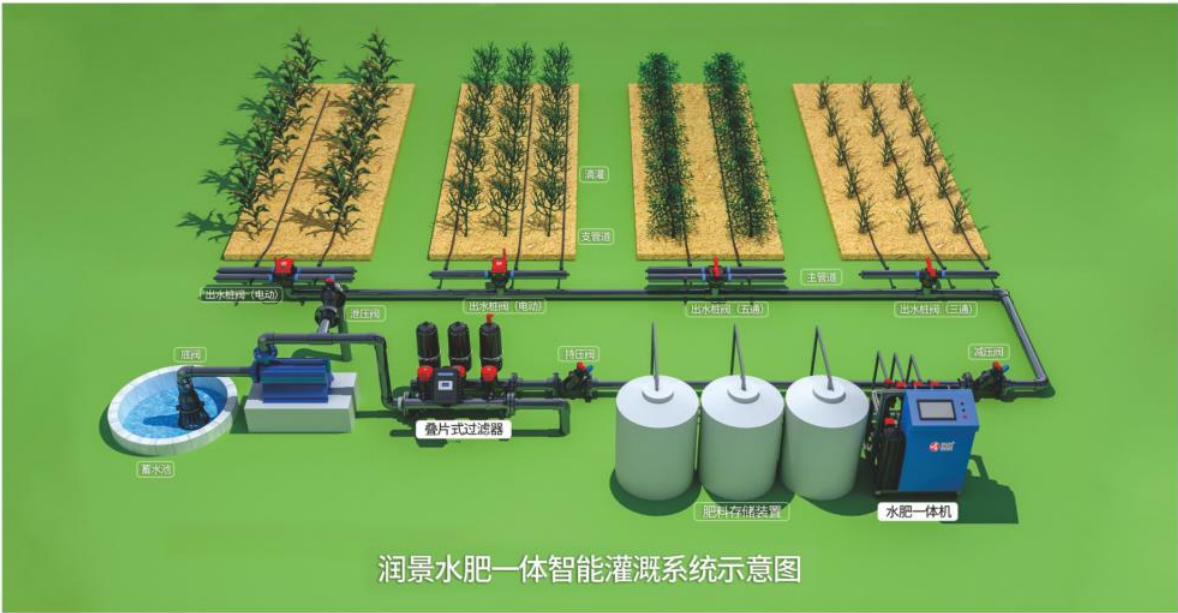


灌溉系统

Control Valve for irrigation system

农业灌溉的尾梢系统，即终端出水机具的**耐用性**、**节水性**、**操控的先进性**同样具有战略意义。
润景陶瓷硬密封**智能灌溉用阀**可以满足上述要求。

The tail-end system of agricultural irrigation, that is the terminal water outlet equipment, its durability, water-saving performance and advanced operability also have strategic significance.
Runjing ceramic hard sealing intelligent irrigation valve can meet the above requirements.



陶瓷硬密封底阀(水泵用)

Ceramic Hard Sealing Bottom Valve (for water pumps) 专利申请号(Patent No.): [ZL202422824530X](#)



- 特种陶瓷端面密封结构
- 微压差启闭
- 轴流式通道，低流阻、大通量

- Special ceramic hermetic head face structure
- Micro-pressure differential actuation
- Axial flow channel, low flow resistance, high flow rate

耐磨损
Good wear resistance

耐腐蚀
Good corrosion resistance

密封可靠
Reliable sealing

型 号 Model	G3001-80	G3001-100
口 径 Size	DN80	DN100

水力控制阀G2101/G2201/G2301/G2401

Irrigation hydraulic control valve

专利申请号(Patent No.): ZL202411761252.6 202422969314.4

● 特种陶瓷硬密封结构

● 可实现减压、稳压、持压、泄压功能

● 管路少，连接方便

● 低压差启闭

● Special ceramic hard sealing structure

● Integrated pressure reduction, stabilization, maintenance, and relief functions

● Fewer pipelines, easier to connect

● Low pressure differential actuation

耐磨损
Good wear
resistance

耐腐蚀
Good
corrosion
resistance



减压阀G2101 Pressure reducing valve

无论阀前压力和流量如何变化，阀门自动调节开度，维持后端用水设备和管路水压稳定。

No matter how inlet pressure and flow change, the valve will automatically adjust its open degree, maintain back-end water equipment and pipe pressure stable.



手动款

Manual



电动款

Automatic

持压阀G2201 Pressure holding valve

阀前压力低于设定值，保证前端用水设备的压力稳定；常装于叠片过滤器后，后端设备用水量增大，阀门缩小开度，使过滤器有足够的压力进行反冲洗。

Inlet pressure is lower than set value to ensure front-end water equipment pressure stable. It is often installed behind disk filter. When back-end equipment increase water use, the valve will decrease open degree to make filter have enough pressure to backwash.



手动款

Manual



电动款

Automatic

泄压阀G2301 Pressure relief valve

安装在主管道上，当阀前压力大幅升高时，阀门自动开启泄压，避免爆管，保护管路安全。

Installed on main pipes, when inlet pressure increase significantly, the valve will automatically open and release pressure to prevent pipe bursting and ensure the safety of the pipeline.



手动款

Manual



电动款

Automatic

开关阀G2401 On-off valve

安装于灌溉主管或者分支管路中，用于灌溉水路的开关控制。

Installed in irrigation main pipe or branch pipes, used for on-off control of irrigation waterway.



手动款

Manual



电动款

Automatic

减压持压阀G2501系列 Pressure reducing and sustaining valve

同时具有减压和持压功能，根据实时压力变化，阀门自动在两种模式间切换。

Simultaneously equipped with pressure reducing and sustaining functions, the valve automatically switches between two modes based on real-time pressure changes.



手动款

Manual



电动款

Automatic

水力控制阀型号规格表

Hydraulic Control Valve Model and Specification Table

控制方式 Control method	口 径 Size	减压阀 Pressure reducing valve	持压阀 Pressure holding valve	泄压阀 Pressure relief valve	开关阀 On-off valve	减压持压阀 Pressure reducing and sustaining valve
手动控制 Manual control	DN65	G2101S-65	G2201S-65	G2301S-65	G2401S-65	G2501S-65
	DN80	G2101S-80	G2201S-80	G2301S-80	G2401S-80	G2501S-80
	DN100	G2101S-100	G2201S-100	G2301S-100	G2401S-100	G2501S-100
	DN150	G2101S-150	G2201S-150	G2301S-150	G2401S-150	G2501S-150
电动控制 Electric control	DN65	G2101D-65	G2201D-65	G2301D-65	G2401D-65	G2501D-65
	DN80	G2101D-80	G2201D-80	G2301D-80	G2401D-80	G2501D-80
	DN100	G2101D-100	G2201D-100	G2301D-100	G2401D-100	G2501D-100
	DN150	G2101D-150	G2201D-150	G2301D-150	G2401D-150	G2501D-150
LORA控制 LORA control	DN65	G2101L-65	G2201S-65	G2301L-65	G2401L-65	G2501L-65
	DN80	G2101L-80	G2201L-80	G2301L-80	G2401L-80	G2501L-80
	DN100	G2101L-100	G2201L-100	G2301L-100	G2401L-100	G2501L-100
	DN150	G2101L-150	G2201L-150	G2301L-150	G2401L-150	G2501L-150

叠片过滤器RJ-DF系列

Disk Filter System

专利号(Patent No.): ZL201620552465.2 ZL202223080527.9

- 特种陶瓷硬密封三通阀控制
 - 耐杂质磨损、耐久用
 - LCD液晶显示
 - 自动反冲洗（通过时间或压差触发）
 - 微电脑控制系统
 - 密封可靠
 - 数据保护功能
 - 可即时操作实现强制反冲洗
- Special ceramic hard sealing three-way valve control
 - Resistant to impurities and wear, durable for use
 - LCD display
 - Automatic backwash (triggered by time or pressure difference)
 - Microcomputer control system
 - Reliable sealing
 - Equipped with data protection function
 - Can be operated to achieve forced backwashing even if necessary

过滤精度 130/100/50μm

Filtration accuracy:
130/100/50 microns

流量

Flow rate

7-700 m³/h



叠片过滤器流量表

Disk Filter System Flow Meter Chart

型号	叠片类型	过滤器个数	进出水口	排污口	过滤精度130微米(红色叠片) 流量(m³/h) Filter accuracy 130 microns (red disk) flow rate			过滤精度100微米(黄色叠片) 流量(m³/h) Filtering accuracy of 100 microns (yellow disk) flow rate			过滤精度50微米(蓝色叠片) 流量(m³/h) Filtering accuracy of 50 microns (blue disk) flow rate		
					优良水质 Excellent water quality	一般水质 General water quality	较差水质 Poor water quality	优良水质 Excellent water quality	一般水质 General water quality	较差水质 Poor water quality	优良水质 Excellent water quality	一般水质 General water quality	较差水质 Poor water quality
Model	Disk type	Number of filters	Inlet and outlet	Drain	优良水质 Excellent water quality	一般水质 General water quality	较差水质 Poor water quality	优良水质 Excellent water quality	一般水质 General water quality	较差水质 Poor water quality	优良水质 Excellent water quality	一般水质 General water quality	较差水质 Poor water quality
RJ-DF203	单头叠片 Single head disk	2"×3	DN100	DN80	55	37	19	40	25	10	31	19	7
RJ-DF204		2"×4			77	53	29	57	37	17	45	29	13
RJ-DF205		2"×5			99	69	39	74	49	24	59	39	19
RJ-DF303	双头叠片 Double head disk	3"×3	DN150	DN100	110	74	38	80	50	20	62	38	14
RJ-DF304		3"×4			154	106	58	114	74	34	90	58	26
RJ-DF305		3"×5			/	138	78	148	98	48	118	78	38
RJ-DF305		3"×5			198	/	/	/	/	/	/	/	/
RJ-DF306		3"×6			242	170	98	182	122	62	146	98	50
RJ-DF307		3"×7			286	202	118	216	146	76	174	118	62

a. 优良水质:城市自来水;从稳定的含水层抽取的净水, 浊度<3度。
b. 一般水质:循环冷却水、经有效沉淀处理过的地面水, 一般井水, 经过有效沉淀和完全生物处理过的排水, 一般悬浮物<30mg/L。
c. 较差水质:从水质很差的含水层抽取的地下水, 经过有效沉淀, 但未经或经很少的生物处理的排水;比较好的地表水, 一般悬浮物<75mg/L。
d. 很差水质:很差的井水, 地表水;未经沉淀及生物处理的排水。不能作为叠片过滤器的进水源, 应进行预处理提高一个水质等级。

a. Excellent water quality: urban tap water; Purified water extracted from a stable aquifer with a turbidity of less than 3 degrees.
b. General water quality: circulating cooling water, surface water treated with effective sedimentation, general well water, drainage treated with effective sedimentation and complete biological treatment, generally with suspended solids less than 30mg/L.
c. Poor water quality: groundwater extracted from aquifers with poor water quality, which has undergone effective sedimentation but has not undergone or has undergone minimal biological treatment; Good surface water generally has suspended solids less than 75mg/L.
d. Poor water quality: poor well water, surface water; drainage without sedimentation and biological treatment. It cannot be used as the inlet water source for disk filter system, and pre-treatment should be carried out to improve the water quality level.

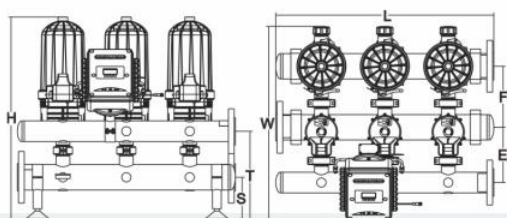
叠片过滤器尺寸表

Disk Filter Size Chart

型号 Model		规格 Specifications			尺寸 Size						
		过滤器个数 Number of filters	管道 Pipe	最大流量(m³/h) Maximum Flow Rate	L	H	T	S	W	E	F
2寸连接 2" Connection	RJ-DF203	2"×3	4"-100	55	985	885	387	187	845	240	265
	RJ-DF204	2"×4	4"-100	77	1260	885	387	187	845	240	265
	RJ-DF205	2"×5	4"-100	99	1535	885	387	187	845	240	265
3寸连接 3" Connection	RJ-DF303	3"×3	6"-150	110	985	1170	170	845	950	325	310
	RJ-DF304	3"×4	6"-150	154	1260	1170	170	845	950	325	310
	RJ-DF305	3"×5	6"-150	198	1535	1170	170	845	950	325	310
	RJ-DF306	3"×6	8"-200	242	1810	1170	170	845	950	325	310
	RJ-DF307	3"×7	8"-200	286	2085	1170	170	845	950	325	310

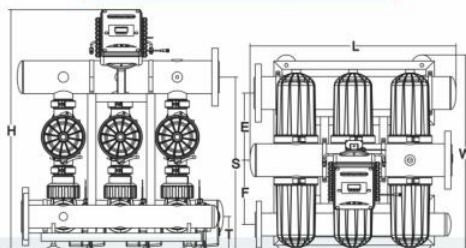
单头叠片

Single-sided disks



双头叠片

Double-sided disks



水肥一体机RJ-SF301

Integrated water and fertilizer intelligent irrigation system

- 配套陶瓷硬密封球阀
- 集浇灌、施肥于一体
- 定时、定量浇灌和施肥
- 本地和远程启动、监测
- 灌区自动控制
- PH、EC值监测
- 肥桶自动上水、液位监测

陶瓷硬密封球阀

Ceramic Hard Sealing Bottom Valve



- Integrate irrigation and fertilization
- Regular and quantitative watering and fertilization
- Local and remote initiation, monitoring
- Automatic control of irrigation areas
- PH and EC value monitoring
- Automatic water filling and liquid level monitoring of fertilizer bucket



出水桩阀G1101/G1201/G1301系列

Water outlet pile valve G1101/G1201/G1301

发明专利
ZL202411137556.5



特种陶瓷密封结构

Special ceramic hard sealing structure



耐磨损

Wearing resistance



耐腐蚀

Corrosion resistance



耐久用

Durable

- 一阀多通道设计
- 远程手机/电脑控制(电动款)
- 可增配减压装置(电动款)
- Single valve multi-channel design
- Remote phone/PC control(electric model)
- Optional pressure relief device (electric model)

自动款出水桩阀

新

功能

New Features of the Automatic Water Outlet Pile Valve

- 标配低功耗压力传感器，灌溉压力自动调节、实时监测
- 待机低功耗，带智能唤醒功能
- 深度睡眠超低功耗待机功能(灌溉季用完回收入库)
- 3.7V 15000mAh大容量锂电池，太阳能板补能
- 双按键功能，配网、现场操作便捷
- 可选配低功率流量计，实时监测灌溉流量
- 控制板采用灌胶工艺，防潮防水
- Standard low-power pressure sensor for automatic irrigation-pressure adjustment and real-time monitoring.
- Low standby power with intelligent wake-up.
- Deep-sleep ultra-low-power standby—ideal for off-season storage.
- 3.7V 15000mAh high-capacity lithium battery with solar-panel recharging.
- Dual push-buttons for quick pairing and on-site operation.
- Optional low-power flow meter for real-time irrigation-flow monitoring.
- Control board fully potted for moisture- and water-resistance.



带压力传感器
Pressure Sensor



可选带流量计接头
Optional flow meter connector



侧进水型
Side inlet type



可选太阳能板天线外挂
Optional external solar panel antenna



卡箍快接头
Clamp quick connector

可选卡箍快接

Optional clamp quick connection

A:三通阀

G1301D/L系列 自动三通阀
Automatic three-way valve



G1301S系列 手动三通阀
Manual three-way valve



• 可同时多路浇灌 •
Can irrigate multiple channels simultaneously

● 进水口可选3寸或4寸（内螺纹）

● 出水口可选De90/De110

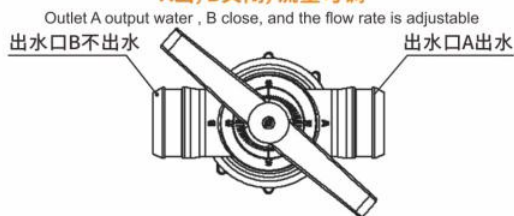
● 可选手动或LORA自动控制

● The inlet diameter can be selected three or four inch (internal thread)

● The outlet diameter can be selected De90/De110

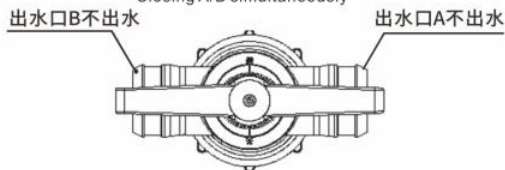
● Manual or LORA automatic control are available

A出, B关闭, 流量可调

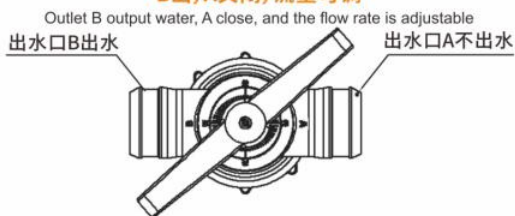


A/B同时关闭

Closing A/B simultaneously



B出, A关闭, 流量可调



B:五通阀

● 进水口径可选3寸或4寸（内螺纹）

● 出口口径可选De75/De90

● 可选手动或LORA自动控制

● 可选单路或双路调节出水

● The inlet diameter can be selected three or four inch (internal thread)

● The outlet diameter can be selected De90/De110

● Manual or LORA automatic control are available

● Single or dual-path water regulation for optional



自动五通阀

Automatic five-way valve

G1201D/L系列

LORA或4G控制
LORA/4G control



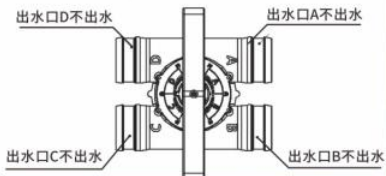
手动五通阀

Manual five-way valve

G1201S系列

A/B/C/D同时关闭

Closing A/B /C/D simultaneously



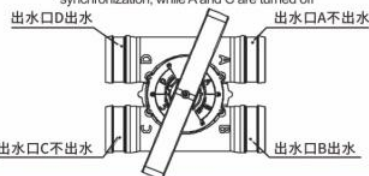
A、C开启, 流量同步可调, B、D关闭

A and C are turned on, with adjustable flow rate synchronization, while B and D are turned off



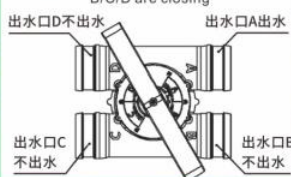
B、D开启, 流量同步可调, A、C关闭

B and D are turned on, with adjustable flow rate synchronization, while A and C are turned off



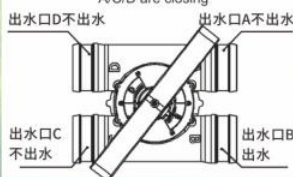
A出水, 流量可调, B/C/D关闭

A effluent water, adjustable flow rate, B/C/D are closing



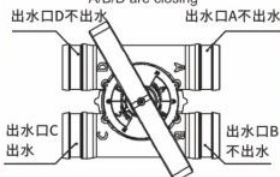
B出水, 流量可调, A/C/D关闭

B effluent water, adjustable flow rate, A/C/D are closing



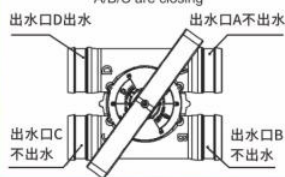
C出水, 流量可调, A/B/D关闭

C effluent water, adjustable flow rate, A/B/D are closing



D出水, 流量可调, A/B/C关闭

D effluent water, adjustable flow rate, A/B/C are closing



三通阀技术参数

Technical specification of three-way valve

型号 Model	进水端 Inlet	出水端 Outlet	控制方式 Control method	调节路数 Regulating channels	@0.1MPa流量 Flow rate	最大工作压力 Maximum working pressure	公称压力 Nominal pressure
G1301S-80/90	3寸	90滴灌管 DN80口径 90 drip irrigation pipe DN80	手动 Manual	1路	75m³/h	0.2 MPa	0.6 MPa
G1301D-80/90			电动 Electric				
G1301L-80/90			LORA				
G1301S-100/90	4寸	90滴灌管 DN80口径 90 drip irrigation pipe DN80	手动 Manual				
G1301D-100/90			电动 Electric				
G1301L-100/90			LORA				

五通阀技术参数

Technical specification of five way valve

型号 Model	进水端 Inlet	出水端 Outlet	控制方式 Control method	调节路数 Regulating channels	@0.1MPa流量 Flow rate	最大工作压力 Maximum working pressure	公称压力 Nominal pressure
G1201S-80/90	3寸	90滴灌管 DN80口径 90 drip irrigation pipe DN80	手动 Manual	2路	120m³/h	0.2 MPa	0.6 MPa
G1101D-80/90			电动 Electric	1路	67m³/h		
G1101D-80/90				2路	120m³/h		
G1101L-80/90			LORA	1路	67m³/h		
G1201L-80/90				2路	120m³/h		
G1201S-80/75		75滴灌管 DN65口径 75 drip irrigation pipe DN75	手动 Manual	2路	120m³/h		
G1101D-80/75			电动 Electric	1路	67m³/h		
G1201D-80/75				2路	120m³/h		
G1101L-80/75			LORA	1路	67m³/h		
G1201L-80/75				2路	120m³/h		
G1201S-100/90	4寸	90滴灌管 DN80口径 90 drip irrigation pipe DN80	手动 Manual	2路	120m³/h		
G1101D-100/90			电动 Electric	1路	67m³/h		
G1201D-100/90				2路	120m³/h		
G1101L-100/90			LORA	1路	67m³/h		
G1201L-100/90				2路	120m³/h		

比例减压阀G4001系列

G4001 Series Fixed Ratio Pressure Reducing Valve

- 固定比例减压、稳压
- 性价比高
- 可配套润景出水桩阀使用

- Fixed-ratio pressure reducing and pressure sustaining
- High cost-performance ratio
- Compatible with Runjing water outlet pile valves



DN80



配套润景出水桩阀

Designed for use with Runjing water outlet pile valves

智能灌溉控制器

Intelligent irrigation controller

● 智能灌溉
Intelligent irrigation

● 定时浇灌
Timely irrigation

● 手机远程控制
Remote control by mobile phone



◀ 光伏启闭
Open and Close
with Solar Power

耐腐蚀

Good Corrosion
Resistance

耐磨损

Good Wear
Resistance

DN20-DN200



润景智灌阀型号规格表

Runjing Intelligent Irrigation Valve Model and Specification Table

型 号 Model	浇灌方式 Irrigation methods	口 径 Size	@0.1MPa流量 Flow Rate	适用场合 Applicable occasions
RJ-ZG01	定时浇灌，每天可设 五组时间浇灌 Time irrigation, five groups of time-point can be set for irrigation each day	DN20-DN50	6-30m ³ /h	/
RJ-ZG02	单路浇灌，无压、无电浇灌 Single way for irrigation, no pressure and electricity for irrigation	DN20-DN200	6-140m ³ /h	适用带压水源的浇灌控制 (自来水、山水等) Suitable for the irrigation control of pressurized water sources (tap water, mountain water, etc.)
RJ-ZG03	2-5路浇灌，带压水源、 无市电浇灌 2-5 ways for irrigation, with pressure source and no municipal electricity for irrigation	DN20-DN200	6-140m ³ /h	适用自来水及不带水源的 浇灌控制(河水、湖水等) Suitable for the irrigation control of tap water and waterwithout source (riverwater, lakewater, etc.)
RJ-ZG04	光伏启闭，带压水源、 无市电浇灌 Solar for switching, with pressure source and no municipal electricity for irrigation	DN20-DN200	6-140m ³ /h	适用无电或缺电、带压水源 (自来水、山水等)的浇灌 控制 Suitable for irrigation control without electricity or lack of electricity, or water source is pressurized (tap water, mountain water, etc.)
RJ-ZG05	光伏启闭，无压、无电浇灌 Solar for switching, no pressure and no electricity for irrigation	DN20-DN200	6-140m ³ /h	适用无电或缺电、无压水 (自来水、山水等)的浇灌 控制 Suitable for irrigation control without electricity or lack of electricity, unpressurized water (tap water, mountain water, etc.)

陶瓷硬密封脉冲电动球阀

Ceramic hard sealing pulse electronic ball valve

- 收到正向脉冲信号，球阀打开；收到反向脉冲信号，球阀关闭
- 待机电流： $\leq 10\mu A$
- LORA无线组网
- 远距离通讯
- 可通过PC/手机APP远程监控

- The ball valve will be opened when receiving the positive pulse signal and will be closed when receiving the negative pulse signal
- Power consumption in standby mode: $\leq 10\mu A$
- LORA wireless networking
- Long-distance communication
- It can be remotely monitored by PC / mobile APP



DN15-DN80

润景脉冲式球阀型号规格表

Runjing Pulse Ball Valve Model and Specification Table

型号 Model	连接方式 Connecting type	流道结构 Flow channel structure	阀体材质 Valve body	阀芯材料 Valve core material	控制方式 Control method	口径 Size
Q911512S-15/50	PPO内螺纹 Femalethread	直通 Straight way	UPVC	氧化铝 碳化硅 Alumina Silicon carbide	脉冲电动控制 (DC12V) Pulse electric control	DN15-DN50
Q931512S-15/80	UPVC胶接 Glue					DN15-DN80
Q951512S-15/25	PPR热熔 Hot melting					DN15-DN25
Q941512S-65/80	UPVC法兰 Flange					DN65-DN80
Q911412S-15/80	316L内螺纹 Femalethread		316L			DN15-DN80
Q941412S-20/80	316L法兰 Flange					DN20-DN80
Q981412S-20/50	316L卡箍 Clamp					DN20-DN50
Q934512S-20/25	UPVC胶接 Glue	L型三通 L type three-way	UPVC	氧化铝 Alumina		DN20-DN25
Q954512S-20/25	PPR热熔 Hot melting					
Q914512S-25/50	PPO内螺纹 Femalethread		PPO			DN25-DN50
Q934512S-25/50	UPVC胶接 Glue					
Q934512S-65/80	UPVC胶接 Glue		UPVC			DN65-DN80

LORA终端控制器 Lora terminal controller

- 内置锂电池
- Built-in Lithium Battery
- 太阳能供电
- Solar powered
- 安装免布线
- Wire-free Installation
- 无线传输 (3km)
- Wireless Transmission (3km range)



LORA终端控制器型号规格表

Specification Table of LORA Terminal Controllers

型号 Model	名称 Name	配套产品 Supporting Products	备注 Remark
RJ-ZD01	球阀LORA终端 Ball valve LORA terminal	DN20-DN50口径 DC12V两线控制球阀 Diameter from DN20 to Dn50 DC12V two wires controlling ball valve	5V/1.25W太阳能板 5000mAh/11.1V电池 5V/1.25W solar panel 5000mAh/11.1V battery
RJ-ZD02	球阀LORA终端 Ball valve LORA terminal	DN65-DN80口径 DC12V两线控制球阀 Diameter from DN65 to Dn80 DC12V two wires controlling ball valve	5V/2.5W太阳能板 10000mAh/11.1V电池 5V/2.5W solar panel 10000mAh/11.1V battery
RJ-ZD03	传感器LORA终端 Sensor LORA terminal	温湿度传感器 Temperature and humidity sensor	5V/1.25W太阳能板 7500mAh/3.7V电池 5V/1.25W solar panel 7500mAh/3.7V battery
RJ-ZD04	流量计LORA终端 Flow meter LORA terminal	3/4"或1"或2"流量计 Flow meter of 3/4", 1" or 2"	5V/1.25W太阳能板 7500mAh/11.1V电池 5V/1.25W solar panel 7500mAh/11.1V battery

智能灌溉控制器RJ-ZG10

Runjing Intelligent Irrigation Controller RJ-ZG10

- 4G物联网控制
- APP/网页端远程控制
- LORA无线组网
- 适配ZD01-ZD04终端传感器、球阀及出水桩阀

- 4G IoT controlling
- LORA wireless networking
- Remote control by mobile APP or PC
- Compatible with ZD01-ZD04 terminal sensors, ball valves and outlet pile valves



测控一体阀 RJ-ZG13系列 专利号(Patent No.): ZL202320969180.9

Ceramic hard sealing integrated valve combined with metering and controlling

- 陶瓷硬密封
- 精准计量
- 远程控制
- Ceramic hard sealing
- Metering function
- Remote control



RJ-ZG13W



RJ-ZG13L

家用定时智灌阀 RJ-ZG06

Residential timing intelligent irrigation valve

专利号(Patent No.): ZL202320911911.4

- 陶瓷硬密封结构
 - 可设定浇灌时长，手动即时/自动定时
 - 雨水感应，雨天停止浇灌
 - 电量提示、待机熄屏，可续航一年
-
- Ceramic hard sealing structure
 - Can set the irrigation duration, manual instant irrigation / automatic timed irrigation
 - Rain sensing, it could achieve stop irrigation in rainy day
 - The screen is locked in standby mode, battery could run for one year



2m³/h

0.1MPa压差

IP67

RJ-ZG06

防水 防尘
water proof dust proof

家用4G物联网智灌阀 RJ-ZG07

Residential 4G IoT intelligent irrigation valve

专利号(Patent No.): ZL202320911911.4

- 陶瓷硬密封结构
- 手机APP远程控制，浇灌历史数据可查
- 可设定浇灌时长，手动浇灌/自动浇灌
- 雨水感应，雨天停止浇灌
- 带流量计端口、带三合一温湿度电导率传感器端口

- Ceramic hard sealing structure
- Remotely handled by phone APP, users could check irrigation records on APP
- Can set the irrigation duration, manual instant irrigation / automatic timed irrigation
- Rain sensing, it could achieve stop irrigation in rainy day
- Designed with flow meter connector and three-in-one conductive temperature/ humidity transducer connector



4G

2m³/h

0.1MPa压差

IP67

RJ-ZG07

防水 防尘
water proof dust proof

智灌阀性能实况测试

Intelligent Irrigation Valve Performance Field Test

润新公司与国家农业灌排农业标准化区域服务与推广平台合作，先后在陕西东雷抽黄灌溉工程、新疆吐鲁番市水利所灌溉试验站、黑龙江庆安灌溉试验站和山东聊城市位山灌区阳谷县排灌中心七级泵站开展的润景陶瓷硬密封球阀实况性能测试结果表明：

A. 在高温、高风沙、高寒环境下，陶瓷硬密封球阀的扭力扭矩无明显变化，证明陶瓷硬密封球阀在这些极端环境条件下仍然可以保持稳定的性能；

B. 润景球阀的密封性在高泥沙、高温、高风沙、高寒条件下表现良好，无渗漏现象，证明润景球阀在这些恶劣条件下依然能够有效地防止渗漏；

C. 球阀的外部尺寸及球芯无明显变化，证明润景球阀的结构及材料在极端环境条件下具有稳定性和耐久性。

Runxin collaborates with National Platform for Standardized Regional Service and Promotion of Agricultural Irrigation and Drainage, carries out the performance field tests of Runjing ceramic hard sealing ball valve in the Donglei Yellow River Irrigation Project in Shaanxi Province, the Irrigation Test Station of Turpan Water Science Institute in Xinjiang, the Qing'an Irrigation Test Station in Heilongjiang Province, and the Seventh Level Pumping Station of Yanggu County Drainage and Irrigation Center in Weishan Irrigation District, Liaocheng City, Shandong Province. The test results indicate that:

A. Under high temperature, high sandstorm, and high cold environments, there is no significant change in the torque of ceramic hard sealing ball valve, proving that ceramic hard sealing ball valve can still maintain stable performance under these extreme environmental conditions.

B. The sealing of ceramic hard sealing ball valve performs well under high sediment, high temperature, high sandstorm, and high cold conditions, without leakage, proving that ceramic hard sealing ball valve can still effectively prevent leakage under these harsh conditions.

C. The external dimensions and core of the ball valve show no significant changes, proving that the structure and materials of Runjing ball valve has stability and durability under extreme environmental conditions.



应用案例

Application Example

目前，润景智灌阀已经在新疆、内蒙古、甘肃、湖北、浙江、福建等地棉花、高粱、玉米、葵花、水稻、水果种植灌溉和园林绿化浇灌及高尔夫球场灌溉等场合投入使用，有效解决普通塑料阀门不耐杂质磨损、容易损坏、操作繁琐等问题，大幅降低人工劳作强度和养护种植成本，节约水资源，助力农业智慧化转型发展，获得好评。

Currently, Runjing intelligent irrigation valves are already in service across Xinjiang, Inner Mongolia, Gansu, Hubei, Zhejiang, Fujian and other regions. Deployed for the irrigation of cotton, sorghum, corn, sunflowers, rice and fruit crops, as well as for landscaping and golf-course watering, the valves effectively overcome the drawbacks of conventional plastic valves—poor resistance to abrasive impurities, frequent failures and cumbersome operation. They significantly cut manual labor and cultivation costs, conserve water resources, and accelerate the shift toward smart agriculture, earning widespread praise.

农业灌溉 Agricultural irrigation





◎新疆尉犁县某500亩棉花种植园
Yuli County, Xinjiang – 333,335 m² Cotton Plantation



◎新疆石河子某300亩棉花种植基地
Shihezi, Xinjiang – 200,000 m² Cotton Planting Base



◎新疆库尔勒260亩棉花实验田
Korla, Xinjiang – 173,333 m² Cotton Experimental Field



◎鄂尔多斯某500亩玉米种植园
Ordos – 333,333 m² Corn Plantation



◎伊犁察布查尔锡伯自治县某300亩棉花种植园
Qapqal Xibe Autonomous County, Ili – 200,000 m² Cotton Plantation



◎新疆巴音郭楞博湖县某80亩棉田
Bohe County, Bayingolin, Xinjiang – 53,334 m² Cotton Field



◎新疆巴音郭楞博湖县某160亩棉田
Bohe County, Bayingolin, Xinjiang – 106,667 m² Cotton Field



◎新疆库车市某120亩棉田
Kuqa City, Xinjiang – 80,000 m² Cotton Field



◎浙江温州山福镇某无花果种植园
(DN65减压阀/持压阀)
Wenzhou, Zhejiang – Shanfu Town Fig Orchard
(DN65 pressure reducing/pressure sustaining valve)



◎四川资阳某150亩柑橘种植园
(DN80减压阀)
Ziyang, Sichuan – 100,000 m² Citrus Orchard
(DN80 pressure reducing valve)



◎浙江温州某高尔夫球场
(DN100减压阀)
Wenzhou, Zhejiang – Golf Course
(DN100 pressure reducing valve)

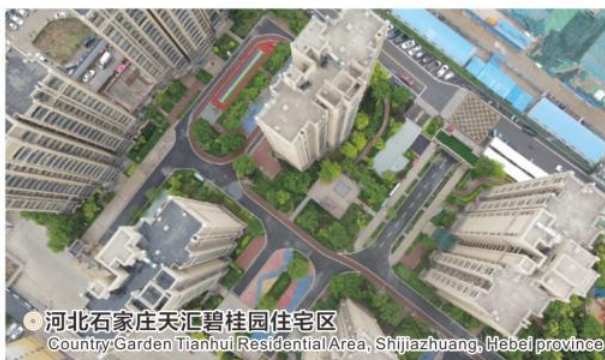
高尔夫球场灌溉 Golf Course Irrigation



润景智能灌溉小屋 Intelligent Irrigation House



园林绿化浇灌 Landscape Irrigation





● 温州市绣山公园
Wenzhou Xiushan Park



● 温州市九山公园
Wenzhou Jiushan Park



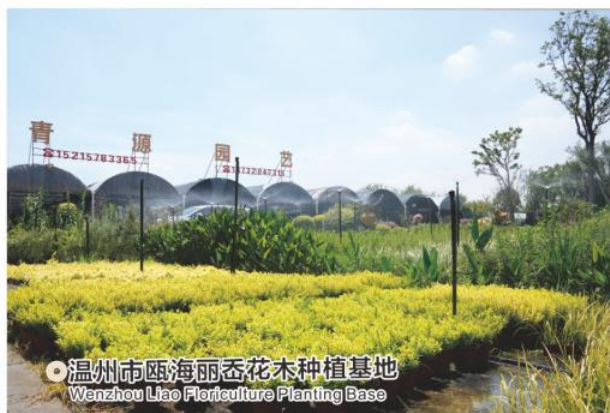
● 温州市马鞍池公园湖心小岛
The island of Ma'anchi Park, Wenzhou



● 浙江丽水市两湖公园
Lianghu Park in Lishui, Zhejiang Province



● 温州市永嘉县某别墅庭院
Maintenance of a villa garden in Yongjia, Wenzhou, Zhejiang



● 温州市瓯海丽岙花木种植基地
Wenzhou Liao Floriculture Planting Base





温州市润新机械制造有限公司

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