



温州市润新机械制造有限公司

WENZHOU RUNXIN MANUFACTURING MACHINE CO.,LTD.

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润景灌溉阀

陶瓷硬密封

Runjing Irrigation Valve
with Ceramic Hard Sealing



底阀
Foot valve
G3001系列



水力控制阀
Hydraulic valve
G2X01系列



出水桩阀
Water outlet pile valve
G13X42/G13X32/G15X62系列

- 叠片式过滤器专利号(Patent No.): ZL201620552465.2 ZL202223080527.9
- 底阀专利号(PatentNo.): ZL202422824530X
- 出水桩阀发明专利号(Patent No.): ZL202411137556.5
- 水力控制阀专利号(Patent No.): ZL202422969314.4



叠片式过滤器 Disk prefilter
RJ-DF2/F3系列

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2026 · 03





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、首届中国节水奖先进集体、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170多项专利授权，产品出口全球161个国家和地区。

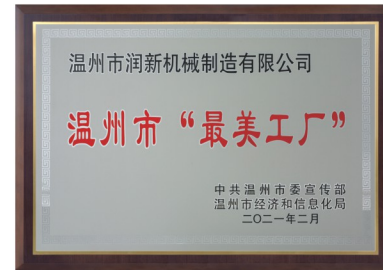
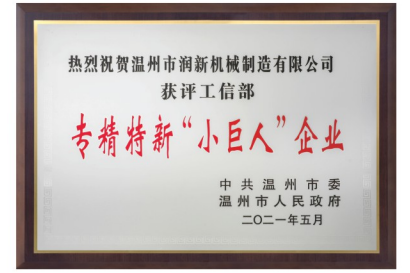
农业灌溉的尾梢系统，即**终端出水机具的耐用性、节水性、操控的先进性**同样具有战略意义。润景陶瓷硬密封智能灌溉用阀可以满足上述要求。

润新公司利用特种陶瓷密封技术开发润景水泵用底阀、水力控制阀、叠片式过滤器、水肥一体机、出水桩阀（三通/五通）系列产品，其阀芯采用高硬度特种陶瓷材料，经1680℃超高温烧结、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，获得中国节水产品认证，可提高灌溉效率和水资源利用率，降低种植成本。

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, First China Water Conservation Award Advanced Collective, 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 170 patent authorizations, and products exported to 161 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, certified as a china water-saving product, it boosts irrigation efficiency and water-use rates while cutting growing costs.



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
Hydraulic control valve



●水肥一体机
Water and fertilizer integrated machine



●叠片式过滤器
Disc filter



产品特点
Product features

平面阀结构特点

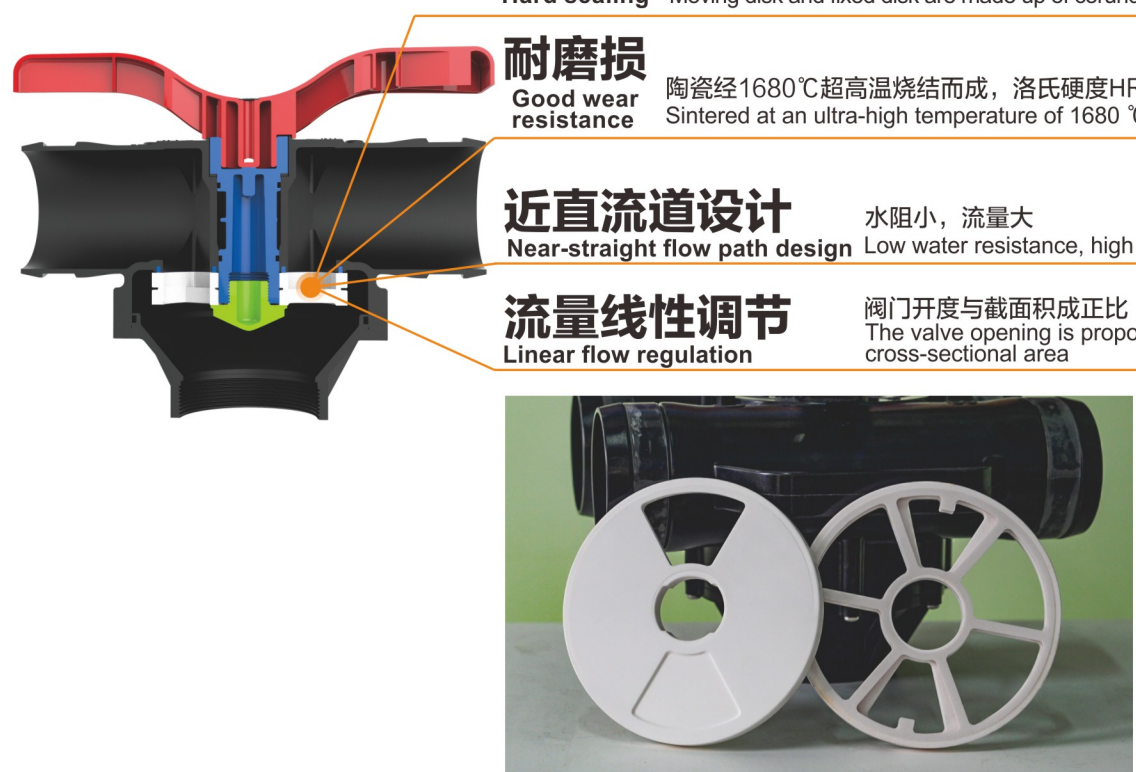
Structural characteristics of hermetic head faces sealing structure valve

硬密封
Hard sealing
动片、定片采用刚玉陶瓷
Moving disk and fixed disk are made up of corundum ceramic

耐磨损
Good wear resistance
陶瓷经1680℃超高温烧结而成，洛氏硬度HRA≥85
Sintered at an ultra-high temperature of 1680 °C, HRA≥85

近直流道设计
Near-straight flow path design
水阻小，流量大
Low water resistance, high flow rate

流量线性调节
Linear flow regulation
阀门开度与截面积成正比
The valve opening is proportional to the cross-sectional area



球阀结构特点

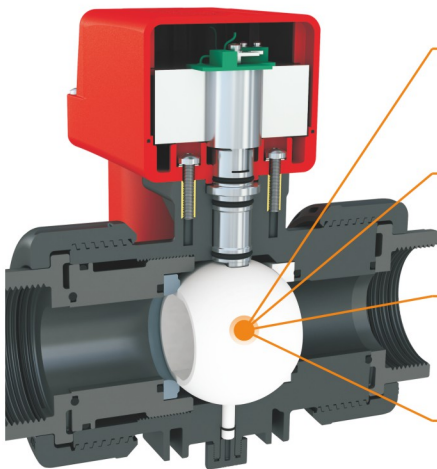
Structure and Features of Ceramic Hard Sealing Ball Valve

硬密封
Hard sealing
阀芯与阀座采用工程陶瓷
The valve core and valve seat adopt engineering ceramic

轻扭矩
Low torque
专利设计、扭矩约为传统球阀的1/4
Torque only a quarter of the traditional ball valve

耐腐蚀
Corrosion resistance
塑料阀体/不锈钢阀体、陶瓷密封副
Plastic or SS valve body, ceramic sealing

耐磨损
Good wear resistance
阀芯与阀座精密配对研磨
Ball core and valve seat are ground precisely to ensure no leakage



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

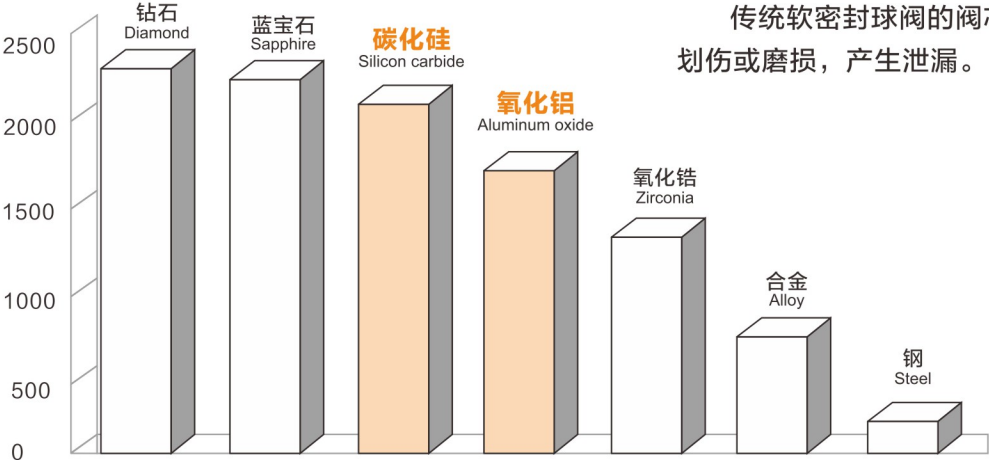
介质 Media	温度 Temperature	ZrO ₂	95Al ₂ O ₃	SiC	Si ₃ N ₄	SS304	SS316
20%HCL	60℃	A	A	A	B	C	C
20%HCL	95℃	A	A	A	C	--	--
90%H ₂ SO ₄	60℃	A	A	A	A	C	C
90%H ₂ SO ₄	95℃	A	A	A	B	C	C
60%H ₃ PO ₄	60℃	A	A	A	C	C	C
60%H ₃ PO ₄	95℃	A	A	A	C	C	C
10%HF	60℃	C	B	A	A	C	C
46%HF	95℃	C	C	A	C	--	--
60%HNO ₃	60℃	A	B	A	C	A	A
60%HNO 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



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0.6MPa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!



Table with 2 columns: Item, Value. It lists various technical specifications and test results for the valve.

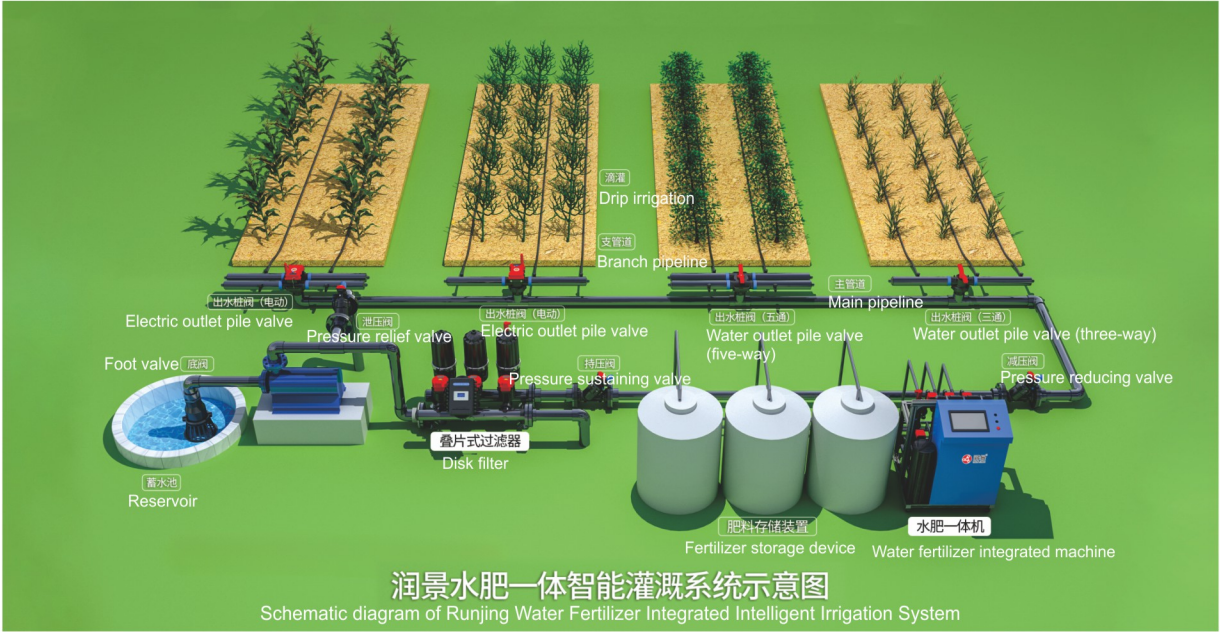


润景陶瓷硬密封球阀的阀芯与阀座采用刚玉陶瓷或碳化硅，经1680℃或2200℃超高温烧结而成，其硬度仅次于蓝宝石和钻石，能够适应各种高磨损、高冲刷工况。传统软密封球阀的阀芯容易受硬颗粒杂质划伤或磨损，产生泄漏。

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。

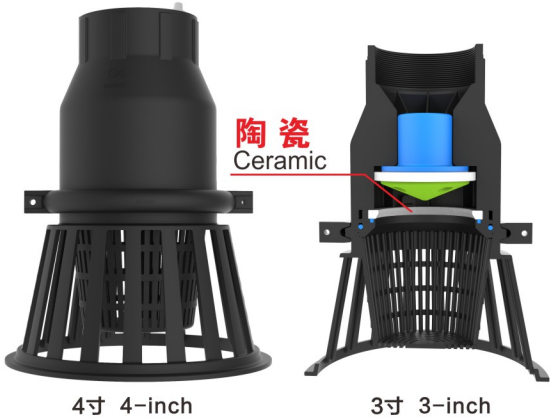
The tail-end system of agricultural irrigation, that is the terminal water outlet equipment, its durability, water-saving performance and advanced operability also have strategic significance. Runjing ceramic hard sealing intelligent irrigation valve can meet the above requirements.



底阀(水泵用) RJ-G3001系列series
Foot valve (for water pumps)

专利号(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

底阀型号规格表
Foot Valve Model and Specification Table

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

陶瓷硬密封三通阀F146系列
Ceramic hard sealing three-way valve F146 series

- 特种陶瓷端面密封结构，密封可靠
- 耐杂质磨损、耐用用，使用寿命更长
- 手动或电动控制切换工位，低水压也可切换

- Special ceramic hermetic head faces structure, reliable sealing
- Resistant to impurities and wear, durable, with a longer service life
- Manual or electronic control can switch working positions, and switching is also possible under low water pressure.

更适用于泥沙杂质、腐蚀介质等应用场合
More suitable for applications involving sediment, impurities, corrosive media, etc.



可配套叠片式过滤器、砂石过滤器使用
It can be used with sand filters and disk filters

型 号 Model	接 口 Connector	连接方式 Connecting way	0.02MPa压差流量 (m³/h) Flow rate	驱动方式 Driving mode	防护等级 IP
F146AS	2"	沟槽卡箍连接 Grooved Clamp Connection	32	手动 Manual	/
F146A	2"			电动 Electric	IP67
F146BS	3"	沟槽卡箍连接 Grooved Clamp Connection	70	手动 Manual	/
F146B	3"			电动 Electric	IP67

叠片式过滤器RJ-DF系列
Disk Filter System RJ-DF Series 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、耐用用
- 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

叠片式过滤器流量表
Disk Filter System Flow Rate Chart

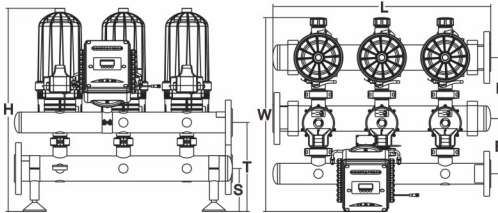
型号 Model	叠片 类型 Disk type	过滤器 个数 Number of filters	进出 口水口 Inlet and outlet	排污口 Drain	过滤精度130微米(红色叠片) 流量 (m³/h) Filter accuracy 130 microns (red disk) flow rate			过滤精度100微米(黄色叠片) 流量 (m³/h) Filtering accuracy of 100 microns (yellow disk) flow rate			过滤精度50微米(蓝色叠片) 流量 (m³/h) Filtering accuracy of 50 microns (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
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.

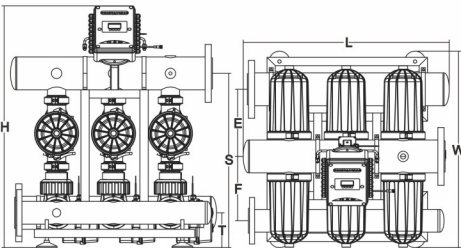
叠片式过滤器尺寸表
Disk Filter Size Chart

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



水力控制阀G2X01系列

Hydraulic valve G2X01 series

专利号(Patent No.):ZL202422969314.4

- 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, sustaining, and relief functions

● Fewer pipelines, easier to connect

● Low pressure differential actuation

减压
Pressure reducing

持压
Pressure sustaining

减压持压一体
Integrated pressure reducing and sustaining

泄压
Pressure relief

开关
On/off



减压阀G2101 Pressure reducing valve

将较高的进口压力降低并稳定在一个较低的、所需的出口压力上。无论进口压力如何波动,都能将出口压力维持在一个设定的恒定值。

Reduce and stabilize the higher inlet pressure at a lower, desired outlet pressure. No matter how the import pressure fluctuates, the export pressure can be maintained at a set constant value.



持压阀G2201 Pressure sustaining valve

用于维持阀前压力不低于设定值。常安装于并联供水的水处理设备出水口(如叠片过滤器系统),确保水处理设备的反冲洗或再生有足够的水压。

Used to maintain the pressure before the valve not lower than the set value. Often installed at the outlet of water treatment equipment with parallel water supply (such as laminated filter systems), to ensure sufficient water pressure for backwashing or regeneration of the water treatment equipment.



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 burstingand ensure the safety of the pipeline.



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.



减压持压阀G2501 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.



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 holdingvalve	泄压阀 Pressure relief valve	减压持压阀 Pressure reducing and sustaining valve	开关阀 On-off valve
手动控制 Manual control	DN50	G2101S-50	G2201S-50	G2301S-50	G2501S-50	G2401S-50
	DN65	G2101S-65	G2201S-65	G2301S-65	G2501S-65	G2401S-65
	DN80	G2101S-80	G2201S-80	G2301S-80	G2501S-80	G2401S-80
	DN100	G2101S-100	G2201S-100	G2301S-100	G2501S-100	G2401S-100
	DN150	G2101S-150	G2201S-150	G2301S-150	G2501S-150	G2401S-150
解码器 Decoder	DN50	G2101J-50	G2201J-50	G2301J-50	G2501J-50	G2401J-50
	DN65	G2101J-65	G2201J-65	G2301J-65	G2501J-65	G2401J-65
	DN80	G2101J-80	G2201J-80	G2301J-80	G2501J-80	G2401J-80
	DN100	G2101J-100	G2201J-100	G2301J-100	G2501J-100	G2401J-100
	DN150	G2101J-150	G2201J-150	G2301J-150	G2501J-150	G2401J-150
4G	DN50	G2101W-50	G2201W-50	G2301W-50	G2501W-50	G2401W-50
	DN65	G2101W-65	G2201W-65	G2301W-65	G2501W-65	G2401W-65
	DN80	G2101W-80	G2201W-80	G2301W-80	G2501W-80	G2401W-80
	DN100	G2101W-100	G2201W-100	G2301W-100	G2501W-100	G2401W-100
	DN150	G2101W-150	G2201W-150	G2301W-150	G2501W-150	G2401W-150
LORA	DN50	G2101L-50	G2201L-50	G2301L-50	G2501L-50	G2401L-50
	DN65	G2101L-65	G2201L-65	G2301L-65	G2501L-65	G2401L-65
	DN80	G2101L-80	G2201L-80	G2301L-80	G2501L-80	G2401L-80
	DN100	G2101L-100	G2201L-100	G2301L-100	G2501L-100	G2401L-100
	DN150	G2101L-150	G2201L-150	G2301L-150	G2501L-150	G2401L-150

电动水力控制阀关闭时间

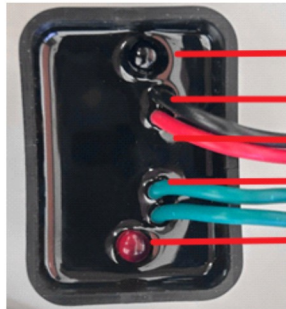
Closing time of electric hydraulic valve

口径 Size	DN50	DN65	DN80	DN100	DN150
关闭动作总时长(s) Total duration of closing action (s)	3~5	3~5	4~6	6~8	8~12

两线控制解码器

Two-wire control decoder

- 电动水力控制阀专用
 - 支持远程有线控制
 - 精准控制阀门启闭
 - 信号稳定、响应迅速
 - 总线供电，无需额外电源
- Designed for electronic hydraulic control valves
 - Support remote wired control
 - Precise valve open/close operation
 - Stable signal, fast response
 - Bus-powered—no additional power supply Required



黑灯:红外线遥控接收
Black light: infrared remote control receive,
黑线:驱动电机负极
Black line: negative pole of the drive motor,
红线:驱动电机正极
Red line: positive pole of the drive motor
绿线:接总线,不分正负
Green line: connected to the bus, regardless of positive or negative
红灯:电源功能指示灯
Red light: power function indicator light



通信协议
Communication Protocol

操作功能 Operating function	地址 Address	功能码 Function code	寄存器地址 Register address	数据 Data	指令示例 Instruction example	回复内容说明 Reply content description
地址 01 打开 Address 01 open	01	05	00	FF 00	01 05 00 00 FF 00 8C 3A	与发送指令内容完全一致 (表示指令执行成功) Completely consistent with the content of the instruction sent (indicating successful execution of the instruction)
地址 01 关闭 Address 01 close	01	05	00	00 00	01 05 00 00 00 00 CD CA	与发送指令内容完全一致 (表示指令执行成功) Completely consistent with the content of the instruction sent (indicating successful execution of the instruction)
地址 02 打开 Address 02 open	02	05	00	FF 00	02 05 00 00 FF 00 8C 09	与发送指令内容完全一致 (表示指令执行成功) Completely consistent with the content of the instruction sent (indicating successful execution of the instruction)
地址 02 关闭 Address 02 close	02	05	00	00 00	02 05 00 00 00 00 CD F9	与发送指令内容完全一致 (表示指令执行成功) Completely consistent with the content of the instruction sent (indicating successful execution of the instruction)
修改设备地址为 2 Change the device address to 2	FF (广播地址) Set the baud rate for address 01	06	06	00 02	FF 06 00 06 00 02 FD D4	与发送指令内容完全一致 (表示地址修改成功) Completely consistent with the content of the instruction sent (indicating successful address modification)
读取当前设备地址 Read the current device address	FF (广播地址) Set the baud rate for address 01	03	06	00 01	FF 03 00 06 00 01 71 D5	回复数据部分为当前设备实际地址 The reply data section contains the actual address of the current device
读取地址 01 状态 Read the status of address 01	01	03	03	00 01	01 03 00 03 00 01 74 0A	数据显示 "1" 表示打开, "0" 表示关闭 The data shows that "1" indicates open and "0" indicates closed
读取地址 02 状态 Read the status of address 02	02	03	03	00 01	02 03 00 03 00 01 74 39	数据显示 "1" 表示打开, "0" 表示关闭 The data shows that "1" indicates open and "0" indicates closed
设置地址 01 波特率 Set the baud rate for address 01	01	06	27	00 01	01 06 00 27 00 01 F8 01	数据 "1" 对应波特率 9600, "0" 对应 2400 The date shows that "1" indicates Baud Rate 9600, "0" indicates Baud Rate 2400.

- 协议类型: POWERBUS
Protocol Type: POWERBUS
 - 支持功能码: 03 (读寄存器)、06 (写单寄存器)
Support Function Code: 03 (Read Register), 06 (Write Single Register)
- 数据格式: Modbus RTU 兼容
Data Format: Modbus RTU compatible
- 波特率: 9600 bps
Baud Rate: 9600bps

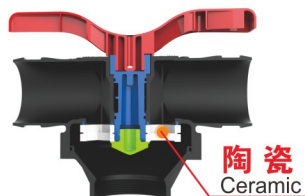
出水桩阀G1324X/G1526X系列
Water outlet pile valve G1324X/G1526X series



特种陶瓷密封结构
Special ceramic hard sealing structure

- 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 with multi-channel design
 - Remote phone/PC control(electric model)
 - Optional pressure relief device (electric model)

发明专利
ZL202411137556.5



手动三通出水桩阀
Manual three-way water outlet pile valve



自动五通出水桩阀
Automatic five-way water outlet pile valve

电动款出水桩阀 新功能
New Features of the Electric 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
 - 可选配低功耗流量计, 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.



低功耗实时监测出水压力

Low power consumption with real-time monitoring of outlet water pressure

带压力传感器
Pressure Sensor



低功耗实时监控灌溉水量, 实现精准灌溉

Low power consumption with real-time monitoring of irrigation water volume, achieving precise irrigation

可选带流量计接头
Optional flow meter connector



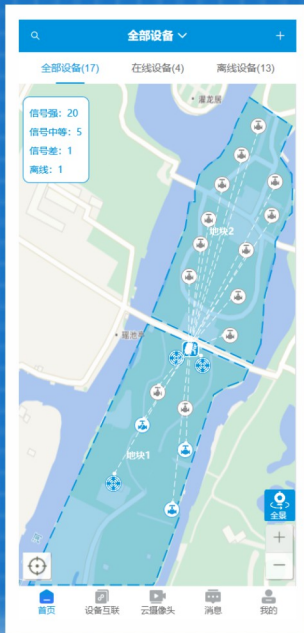
解决地形起伏不便挖沟埋管场合使用的问题

Suitable for scenarios with undulating terrain where trench digging and pipe burying are inconvenient

明管安装型
Directly exposed pipeline installation type

润景智灌APP

Runjing Intelligent Irrigation APP



- 可进行阀门定位与地块编辑
Can perform valves positioning and plot editing
- 可在手机上查看地块图形
Can view the plot graphics on your mobile phone
- 可进行灌溉分组和自动轮灌
Irrigation grouping and automatic rotation irrigation can be carried out
- 可手机APP一键调压
Can one click pressure adjustment through mobile app
- 带低压自动提醒功能
Equipped with low pressure automatic reminder function
- 可远程休眠设备
Remote sleep device
- 可远程一键排空阀门
Remote one click emptying valve

外挂太阳能板与天线实现无遮挡稳定通信
External solar panel and antenna enable unobstructed and stable communication



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

安装拆卸方便，闷盖可防停用拆阀后沙土进入管道
Easy installation and disassembly; the cap can prevent sand and soil from entering the pipeline after the valve is removed



卡箍快接头
Clamp quick connector

可选卡箍快接
Optional clamp quick connection

比例减压阀G4001系列

G4001 Series Fixed Ratio Pressure Reducing Valve

- 可配套润景出水桩阀使用
- 固定比例减压阀 (出水压力0.06、0.08、0.11、0.14、0.16、0.19MPa可选)
- 性价比高
- Can be used with Runjing water outlet pile valve
- Fixed ratio pressure reducing valve
Water outlet pressures of 0.06, 0.08, 0.11, 0.14, 0.16, and 0.19MPa are optional
- High cost-effectiveness



DN80



配套润景出水桩阀

Supporting Runjing water outlet pile valve

三通阀型号规格表 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	0.04MPa压差流量 Flow rate(m ³ /h)	最大工作压力MPa Maximum working puresure
G13142S-80/75	3寸 3 Inch	75滴灌管 75 drip irrigation pipe	手动 Manual	1路	39	0.2
G13242S-80/75				2路	76	
G13142W-80/75			4G	1路	39	
G13242W-80/75				2路	76	
G13142L-80/75			LORA	1路	39	
G13242L-80/75				2路	76	
G13142S-80/90	3寸 3 Inch	90滴灌管 90 drip irrigation pipe	手动 Manual	1路	49	
G13242S-80/90				2路	96	
G13142W-80/90			4G	1路	49	
G13242W-80/90				2路	96	
G13142L-80/90			LORA	1路	49	
G13242L-80/90				2路	96	
G13142S-100/90	4寸 4 Inch	90滴灌管 90 drip irrigation pipe	手动 Manual	1路	49	
G13242S-100/90				2路	96	
G13142W-100/90			4G	1路	49	
G13242W-100/90				2路	96	
G13142L-100/90			LORA	1路	49	
G13242L-100/90				2路	96	
G13132S-80/90	3寸 3 Inch	90滴灌管 90 drip irrigation pipe	手动 Manual	1路	61	
G13132W-80/90			4G			
G13132L-80/90			LORA			
G13132S-100/90	4寸 4 Inch	90滴灌管 90 drip irrigation pipe	手动 Manual	1路		
G13132W-100/90			4G			
G13132L-100/90			LORA			
G13132S-100/110	4寸 4 Inch	110滴灌管 110 drip irrigation pipe	手动 Manual	1路	75	
G13132W-100/110			4G	1路		
G13132L-100/110			LORA	1路		

备注：可选单陶瓷G13X41/G13X31系列 Remark: the G13X41/G13X31 series with a single ceramic disk is optional.

五通阀型号规格表 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	0.04MPa压差流量 Flow rate (m³/h)	最大工作压力MPa Maximum working pressure
G15262S-80/75	3寸 3 Inch	75滴灌管 75 drip irrigation pipe	手动 Manual	2路	76	0.2
G15162W-80/75			4G	1路	45	
G15262W-80/75				2路	76	
G15162L-80/75			LORA	1路	45	
G15262L-80/75				2路	76	
G15262S-80/90		90滴灌管 90 drip irrigation pipe	手动 Manual	2路	76	
G15162W-80/90			4G	1路	45	
G15262W-80/90				2路	76	
G15162L-80/90			LORA	1路	45	
G15262L-80/90				2路	76	
G15262S-100/90	4寸 4 Inch	90滴灌管 90 drip irrigation pipe	手动 Manual	2路	76	
G15162W-100/90			4G	1路	45	
G15262W-100/90				2路	76	
G15162L-100/90			LORA	1路	45	
G15262L-100/90				2路	76	

备注：可选单陶瓷G15X61系列 Remark: the G15X61 series with a single ceramic disk is optional.

智能灌溉控制器
Intelligent irrigation controller

●智能灌溉
Intelligent irrigation



◀光伏启闭
Open and Close
with Solar Power



耐腐蚀
Good Corrosion
Resistance

耐磨损
Good Wear
Resistance

●手机远程控制
Remote control by mobile phone



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	6-30m³/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	6-140m³/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	6-140m³/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	6-140m³/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	6-140m³/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.)

LORA终端控制器
Lora terminal controller

- 内置锂电池
 - 太阳能供电
 - 安装免布线
 - 无线传输(3km)
- Built-in Lithium Battery
 - Solar powered
 - Wire-free Installation
 - 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
 - LORA无线组网
 - 手机APP/电脑端远程控制
 - 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



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



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 sensor connector



常用的农业灌溉首部过滤系统

Common Head Filtration System for Agriculture Irrigation

叠片过滤器RJ-DF系列

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

Disk Filter System RJ-DF Series

- 特种陶瓷硬密封三通阀控制
- 耐杂质磨损、耐久用
- 自动反冲洗（通过时间或压差触发）
- 微电脑控制系统
- 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
- Automatic backwash (triggered by time or pressure difference)
- Microcomputer control system
- 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



浅层砂石过滤器

Shallow sand filter

- 一种广泛应用于水处理领域的过滤设备
- 可去除水中的悬浮物、胶体颗粒、有机物等杂质
- 滤料包括石英砂、无烟煤、活性炭等多层介质
- 由多个砂缸单元并联组成
- 过时间或压差传感器触发过滤单元逐一反冲洗，反洗时其他单元可持续供水
- 反冲洗水源来自其他单元的滤后出水

- It is a filtration device widely used in the water treatment field
- It can filter impurities such as suspended solids, colloidal particles, and organic matter in water
- The filter media include multiple layers of media such as quartz sand, anthracite, and activated carbon
- It is composed of multiple sand tank units connected in parallel
- The filtration units are triggered one by one for backwashing by time or differential pressure sensors, and other units can continue to supply water during backwashing
- The water for backwashing comes from the filtered water of other units.



12-35m³/h泳池砂缸过滤器

Swimming Pool Filter Valve

专利号(Patent No.):ZL202120625248.2



F138C 12 m³/h

- 特种陶瓷端面密封结构
- 定片为刚玉陶瓷，动片为高强度合成材料，耐磨损，耐腐蚀
- 切换工位直接带压操作，无需停泵
- 可选手动或自动控制
- 带RS-485远程通信端口（自动）
- 主要型号有F138、F139和F152系列



F139B 24 m³/h

- Special ceramic hermetic head faces sealing structure
- Corundum ceramic fixed disk, high-strength synthetic material moving disk. Good performance in wear and corrosion resistance
- Can switch position under pressure without stopping the pump
- Manual control or automatic control is optional.
- With RS-485 communication port (Automatic control type)
- The main models are F138, F139 and F152 series



F152B 35 m³/h

F109球阀多阀过滤/软化系统

F109 and Ball Valves Applied in Filtration/Softening Systems

- 可与润景DN65-DN200电动球阀配套使用
- 景陶瓷芯电动球阀流阻小、耐腐蚀、抗水垢抗杂质、耐久用

- It can be used together with Runjing electronic ball valve from DN65 to DN200
- Runjing ceramic ball valve has the advantage of small flow resistance, good corrosion resistance, good wear resistance and long lifetime



型号Model: 46030(F109)



过滤控制系统
Filter Control System

F109水力控制阀过滤/软化系统

F109 and Hydraulic Control Valve Applied in Filtration/Softening Systems

- 可配套润景DN65-DN150水力控制阀使用
- 性价比高
- 用于灌溉用水、工业水处理、农村饮用水改造等大流量过滤系统。

- Can be used with Runjing DN65-DN150 hydraulic control valves
- High cost-performance ratio
- Suitable for large-flow filtration systems in irrigation water, industrial water treatment, rural drinking water renovation, etc.

由“润新阀”组成预处理过滤/软化系统

Pretreatment filtration/ softening system composed of "Runxin Valve"

- “润新阀”采用陶瓷端面密封结构，耐磨损、耐久用
- 单阀最大流量可达70m³/h
- 可选手动、自动或手机远程控制
- 安装简单、使用方便
- 少检修、少维护，使用成本低
- Pretreatment filtration/ softening system composed of "Runxin Valve"
- Runxin valve adopts a ceramic hermetic head face structure, featuring wear resistance and long service life
- Max flow rate of single vane can reach 70m³/h
- Control options: manual/automatic/ mobile remote control
- Easy installation and operation
- Low maintenance and operating costs



64604(F63P)
4m³/h



53510(F75A)
10m³/h



53570(F153B)
70m³/h



53520(F95B)
20m³/h



53550(F96B)
50m³/h



应用案例

Application cases

1.“润新阀”在设施农业灌溉首部过滤系统中的应用

Application of “Runxin Valve” in the headfiltration system of protected agricultural Irrigation

- 组装成过滤或软化系统
- Can be assembled into filtration or softening systems
- 管路安装简单，空间节省40%
- Simple pipeline installation, saving 40% of the space
- 全自动控制，降低维护成本
- Full automatic control, reducing maintenance costs



● “润新阀”用于匈牙利某大棚供暖系统软化设备
Runxin Valve Used for Softening Equipment in a Greenhouse Heating System in Hungary



● “润新阀”用于新疆某设施农业产业园灌溉首部过滤设备
Runxin Valve is used for the first filtration equipment of irrigation in a facility agricultural industrial park in Xinjiang



● “润新阀”用于昆明某蓝莓种植园首部预处理设备
Runxin Valve is used for the first pre-treatment equipment of a blueberry plantation in Kunming

2.润景陶瓷硬密封灌溉阀在农业灌溉上的应用

Application of Runjing ceramic hard sealing irrigation valves in agricultural irrigation

润景灌溉阀已在新疆、甘肃、内蒙古、四川、湖北、福建、浙江等地棉花、玉米、葵花、水稻、水果种植灌溉等场合投入使用，有效解决传统软密封灌溉阀门不耐杂质磨损、易泄漏、操作繁琐等问题，获得一致好评。

Runjing irrigation valves are already in service across Xinjing, Inner Mongolia, Gansu, Sichuan, Hubei, Fujian, Zhejiang and other regions, deployed for the irrigation of cotton, sorghum, corn, sunflowers, rice and fruit crops, the valves effectively overcome the drawbacks of conventional plastic valves-poor resistance to abrasive impurities, frequent failures and cumbersome operation.

农业灌溉 Agricultural irrigation



● 温州市七都未来都市农业公园（150多亩）
Wenzhou Qidu Future Urban Agriculture Park (more than 100,000 m2)



● 泉州永春淳湖芦柑种植园
Quanzhou Yongchun Chunhu Orange Plantation



● 温州市农业科学研究院
Wenzhou Agricultural Science Research Institute



● 湖北荆州丰泽园生态农业园
Hubei Jingzhou Fengzeyuan Ecological Agricultural Park



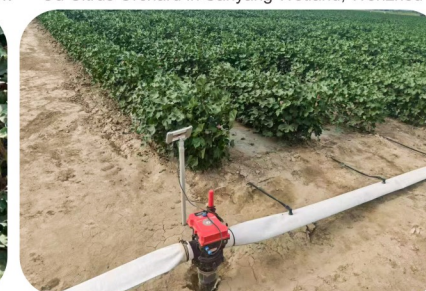
● 温州市三垟湿地精品瓯柑种植园
Ou Citrus Orchard in Sanyang Wetland, Wenzhou



● 新疆库尔勒天塞酒庄葡萄种植园
Tiansei Winery Vineyard in Korla, Xinjiang



● 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



◎温州仰义东方高尔夫球场 (泄压阀)
Wenzhou Yangyi Dongfang Golf Course (pressure relief valve)



◎温州东方高尔夫球场
Wenzhou Dongfang Golf Course

润景智能灌溉小屋 Intelligent Irrigation House



◎温州市三垟湿地精品园
Ou citrus orchard in Sanyang Wetland, Wenzhou



◎温州润新公司
Wenzhou Runxin

园林绿化浇灌 Landscape Irrigation



◎温州市鹿城区府
Lucheng District, Wenzhou



◎温州市马鞍池公园
Ma'anchi Park, Wenzhou



◎河北石家庄天汇碧桂园住宅区
Country Garden Tianhui Residential Area, Shijiazhuang, Hebei province



◎内蒙古赤峰翰林华府
Hanlin Huafu Residential Area, Chifeng, Inner Mongolia