

泳池过滤阀 产品手册

SWIMMING POOL FILTER VALVE
PRODUCT MANUAL

专利号 Patent No.: ZL202120625248.2

陶瓷硬密封
CERAMIC HARD SEALING



温州市润新机械制造有限公司

WENZHOU RUNXIN MANUFACTURING MACHINE CO.,LTD.

COMPANY PROFILE

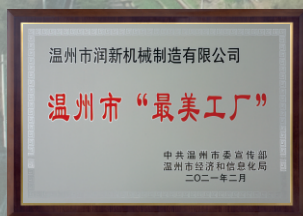
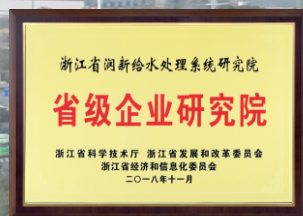
企业简介

在游泳运动日益风靡全球的背景下，泳池过滤行业迎来前所未有的发展机遇。作为泳池过滤系统的核心部件，泳池阀过滤阀的技术不断革新，市场规模不断扩大。

传统泳池过滤控制主要有两种方式，一种是采用橡胶与塑料件密封的手动泳池过滤阀，它为软密封结构，不耐磨损、容易泄漏，为防止切换工位过程中橡胶件脱落，冲洗时需先关闭水泵，再按下手柄转动切换工位，操作很麻烦；另一种是采用多个手动蝶阀或球阀，由控制器控制自动阀来实现所需功能，管路安装复杂，售后维护不方便。

润新公司位于游泳之乡——温州，厂区坐落于鹿城区山福镇，占地64亩，建筑面积12万多平方米。润新公司掌握特种陶瓷加工、成型、烧结到产品流道、结构设计等技术，并形成一套自有风格。2003年，润新公司自主开发特种陶瓷端面密封结构的水处理系统用控制阀（称“润新阀”），打破国外产品的长期垄断，出口全球159个国家和地区，产品适应性和质量可靠性得到广泛的市场验证。

2021年，润新公司利用特种陶瓷密封技术开发出特泳池过滤阀F138、F139系列（专利号：202120625248.2），流量为12-24m³/h，可选侧装连接、顶装法兰或顶装卡箍连接，其定片采用高硬度、高平面度的特种陶瓷密封片，动片采用高强度合成材料，动片和定片相互贴合旋转实现工位切换，可直接带压操作，无需关闭进水，操作方便；特种陶瓷耐杂质磨损，使用寿命长，利于泳池过滤设备稳定运行，降低维护成本。更大流量的型号正在开发中……



Amid the growing global popularity of swimming, the pool filtration industry is experiencing unprecedented development opportunities. As the core component of pool filtration systems, the technology of swimming pool filter valves is continuously being innovated, and the market size is expanding.

There are mainly two traditional methods for swimming pool filtration control. One is the manual swimming pool filter valve that uses rubber and plastic components for sealing. It features a soft sealing structure, which is less wear resistant and prone to leakage. To prevent the rubber components from falling off during the switching process, the water pump must be turned off first, and then the handle must be pressed down to rotate and switch positions. This makes the operation quite cumbersome. The other method involves using multiple manual butterfly valves or ball valves, with automatic valves controlled by a controller to achieve the desired functions. This approach has complex piping installation and inconvenient after-sales maintenance.

Runxin is located in Shanfu Town, Lucheng District, Wenzhou, known as the Hometown of Swimming, covering an area of 42666 square meters with a construction area of over 0.12 million square meters. Runxin has mastered technologies ranging from the processing, forming, and sintering of special ceramics to the design of product flow channels and structures, and has developed its own unique style. In 2003, Runxin independently developed a control valve with a special ceramic hermetic sealing structure for water treatment systems, known as the Runxin Valve. This innovation broke the long-term monopoly of foreign products and has been exported to 159 countries and regions worldwide. The adaptability and reliability of the product have been widely verified by the market.

In 2021, Runxin developed the F138 and F139 series of swimming pool filter valves using special ceramic sealing technology (Patent No.: 202120625248.2). These valves have a flow rate of 12-24 m³/h and offer optional side-mounted connections, top-mounted flanges, or top-mounted clamp connections. The fixed disk of the valve uses a special ceramic sealing disk with high hardness and high planarity, while the moving disk is made of high-strength synthetic material. The rotation of the moving disk against the fixed disk enables position switching, allowing direct operation under pressure without the need to shut off the water supply, making the operation more convenient. The special ceramic material is highly resistant to wear from impurities, ensuring a long service life, stable operation of the pool filtration equipment, and reduced maintenance costs. Larger flow rate models are currently under development.



润新公司山福镇厂区
Factory District of Runxin Company in Shanfu Town

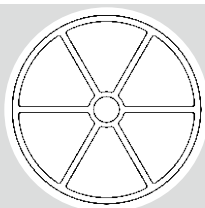
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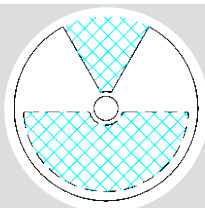
产品结构特点

Structural Characteristics

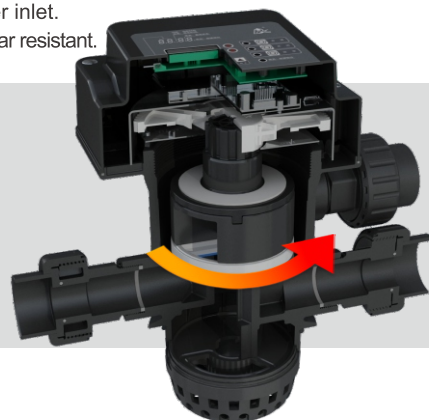
- 定片采用高硬度、高平面度的特种陶瓷材料，经1680℃超高温烧结而成
- 动片采用高强度合成材料
- 动定片相互贴合旋转实现工位启闭，可直接带压操作，无需关闭进水
- 特种陶瓷洛氏硬度HRA \geq 85，耐磨损
- Fixed disk is made from high-hardness and high-flatness special ceramic materials, which are sintered at 1680℃.
- Moving disk is made from high-strength synthetic materials
- The moving disk and fixed disk are high-precision fitting and relative rotation to achieve positions opening and closing, which can be directly operated under pressure without turning off the water inlet.
- The Rockwell hardness of special ceramic reaches HRA85 or above, and it is wear resistant.



定片
Fixed disk

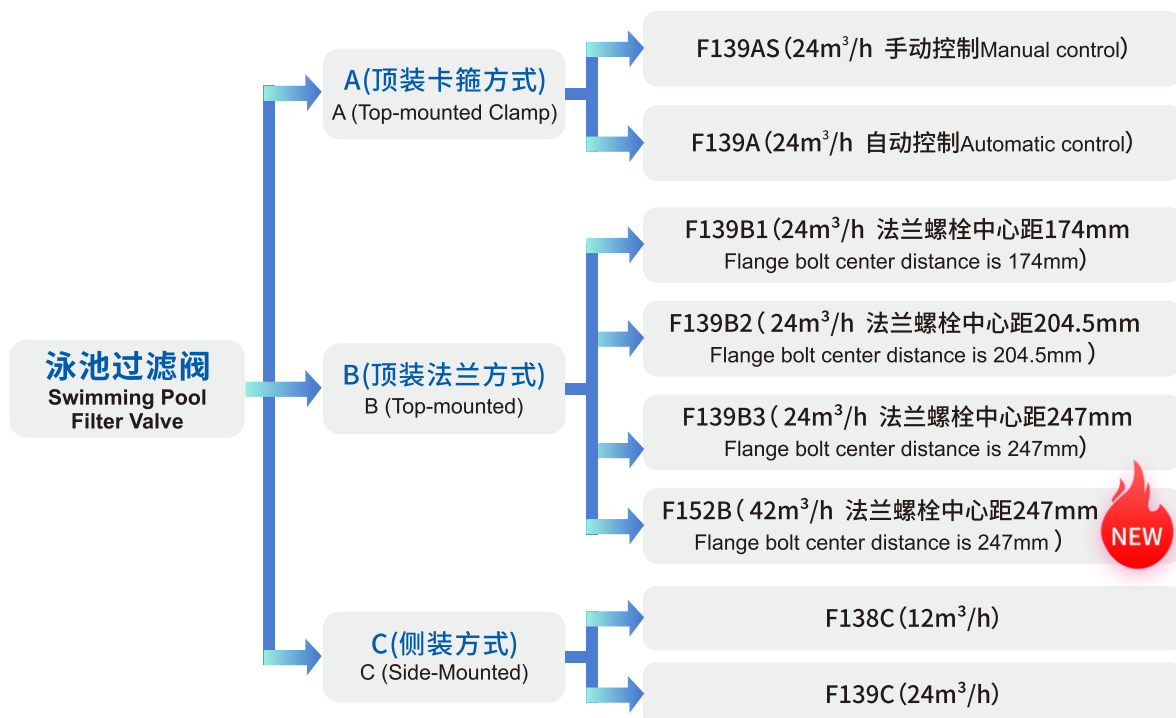


动片
Moving disk



产品分类

Classification of Swimming Pool Valves



润新手动泳池过滤阀

Runxin Manual Swimming Pool Filter Valves

VS 同类产品

Similar Products

产品
Products



润新手动泳池过滤阀

Runxin Manual Swimming
Pool Filter Valve

密封结构
Sealing
Structure

特种陶瓷端面密封

Special Ceramic Hermetic Head
Faces Sealing Structure

操作方式
Operation
Method

无需停泵
旋转手柄即可切换工位

No need to stop pump
Rotate the handle to switch position

带压操作
Operation
with Pressure

可以
Yes

使用寿命
Lifetime

长
耐磨损, 不易泄漏

Long
Wear resistant and not prone
to leakage

管路连接
Tube
Connection

简单
Simple

安装方式
Installation
Method

顶装或侧装
Top-mounted or side-mounted



某品牌手动泳池过滤阀

Certain Brand Manual Swimming
Pool Filter Valve



某品牌手动阀组

Certain Brand Manual
Valve Group

橡胶/塑料密封
Rubber/Plastic Sealing

橡胶/塑料密封
Rubber/Plastic Sealing

建议先关闭水
再压住手柄提起阀芯方可
旋转切换工位

It is advised to close water before
suppressing the handle to lift
valve core and switch the position

需要单独操作一个个阀门,
才能完成工位转换, 较繁琐

Requires operate each valve
individually to complete the
change of position

不建议
Not Recommended

不建议
Not Recommended

短
切换过程橡胶件密封易脱落
损坏, 不耐磨损, 易泄漏

Short
During the switching process, the rubber
seals are prone to shedding or damage,
not wear-resistant and easy to leak

短
不耐磨损, 易泄漏

Short
Not wear-resistant and
easy to leak

简单
Simple

复杂
Complex

顶装或侧装
Top-mounted or side-mounted

侧装
Side-mounted

润新自动泳池过滤阀

Runxin Automatic Swimming Pool Valve



同类产品

Similar Products

产品
Product



润新自动泳池过滤阀

Runxin Automatic Swimming Pool Valve

密封材质
Sealing Material

特种陶瓷

Special ceramic

产品结构
Product Structure

一体式
上下紧密连接
Integrated
Tightly bound

使用寿命
Lifespan

长
耐磨损, 不易泄漏

Long
Wear-resistant and not prone to leakage

管路连接
Tube Connection

简单
Simple

远程控制
Remote Control

是
带RS-485通信端口
Yes
With RS-485 communication port

安装方式
Installation Method

顶装或侧装
Top-mounted or side-mounted

电压安全
Voltage Safety

安全性好
DC24V直流电
Good safety
DC24V direct current



某公司自动泳池阀

Certain Company's Automatic Swimming Pool

橡胶/塑料

Rubber/plastic

分体式
加装执行器
Separated
Addition of actuators

短

切换过程橡胶件密封易脱落
损坏, 不耐磨损, 易泄漏
Short
During the switching process, the rubber seals are prone to shedding or damage, not wear-resistant and easy to leak

简单
Simple

否

No

顶装或侧装

Top-mounted or side-mounted

安全性较差
AC220V交流电

Poor safety
AC220V alternating current



某公司阀组控制

Certain Company's Valve Group Control

橡胶/塑料

Rubber/plastic

多阀组合控制
线路复杂
Multiple valves group control
Complex wiring

短

不耐磨损, 易泄漏
Short
Not wear-resistant and easy to leak

复杂
Complex

否

No

侧装

Side-mounted

安全性较差
AC220V交流电
Poor safety
AC220V alternating current



手动泳池过滤阀

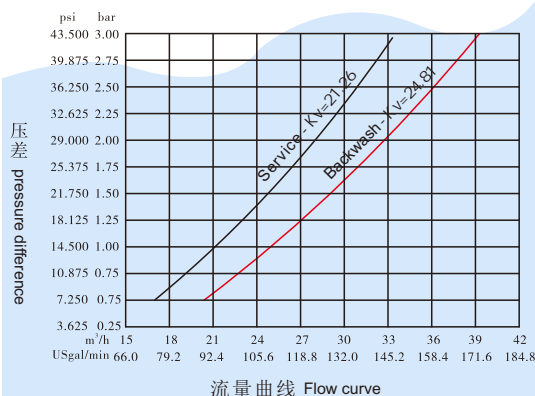
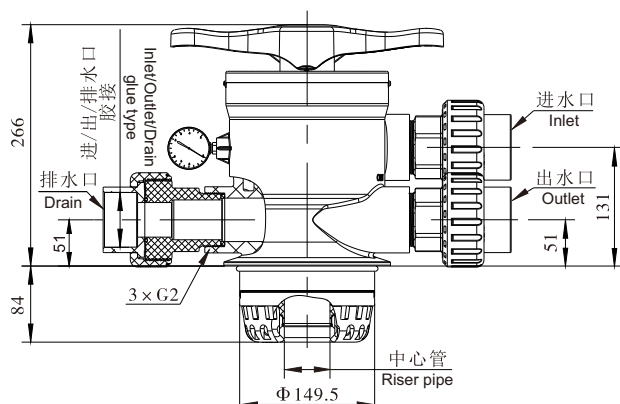
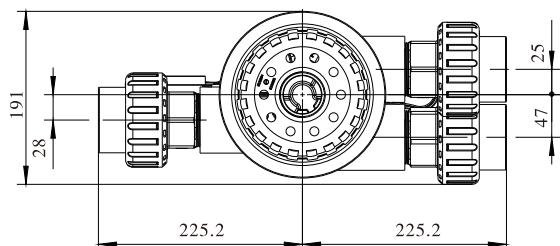
Manual Swimming Pool Filter Valves

顶装卡箍连接

Top-mounted Clamp Connection

F139AS

24m³/h



型号 Model	接口尺寸Connector size			反洗流量m³/h @0.1MPa Backwash flow rate@0.1MPa	备注 Remark
	进/出/排水口胶接 Inlet/outlet/drain	基座 Base	中心管 Riser pipe		
F139AS	2"D-GB(外径63.3 mm UPVC管)或 2.375"OD (外径60.3mmUPVC管) 2"D-GB(63.3mmOD UPVC pipe)Or 2.375"OD (60.3mmOD UPVC pipe)	卡箍方式 (适用罐口内直径150mm) Clamp connection(suitable for tank open with inner diameter 150mm)	1.5"D-GB(外径50mm) 或1.9"OD(外径48.3mm) 1.5"D-GB(50mm OD) Or 1.9"OD(48.3mm OD)	24	手动 Manual

注:F139AS中心管有国标1.5"D-GB和美标1.9"OD两种,进/出/排水口胶接有国际2"D-GB和美标2.375"OD两种,请根据需要订货。

Remark:The riser pipe of F139AS has two kinds of Chinese standard 1.5"D-GB and American standard 1.9"OD, and the inlet/outlet/drain has two kinds of Chinese standard 2"D-GB and American standard 2.375"OD. Please order according to your needs.

自动泳池过滤阀



Automatic Swimming Pool Filter Valve

顶装卡箍连接

Top-mounted Clamp Connection

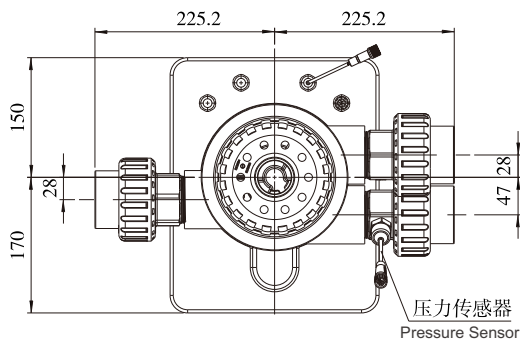
F139A

24m³/h

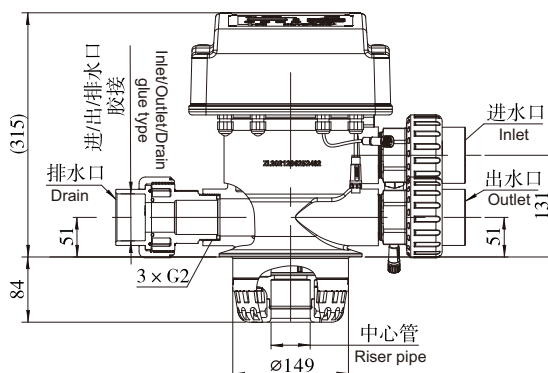
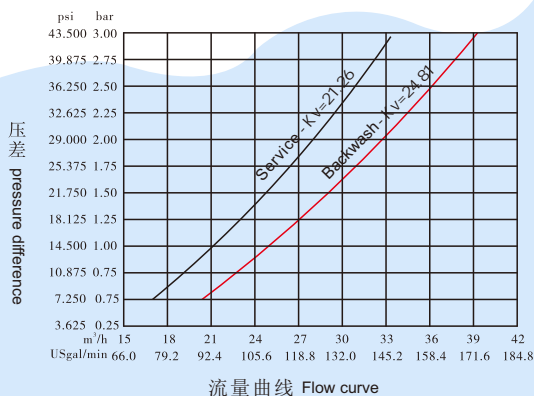


压力传感器

Pressure Sensor



压力传感器
Pressure Sensor



- 自动冲洗 (压力或时间触发) Automatic start backwash by pressure or time
- 带停/断电防排空电磁阀端口 Has the port to connect the NC solenoid valve which can prevent water be discharged when power off
- 带RS-485通信端口 With RS-485 communication port

型号 Model	接口尺寸Connector size			反洗流量m ³ /h @0.1MPa Backwash flow rate@0.1MPa	备注 Remark
	进/出/排水口胶接 Glued inlet/outlet/drain	基座 Base	中心管 Riser pipe		
F139A	2"D-GB(外径63.3 mm UPVC管)或 2.375"OD (外径60.3mm UPVC管) 2"D-GB(63.3mmOD UPVC pipe)Or 2.375"OD (60.3mmOD UPVC pipe)	卡箍方式 (适用罐口内直径150mm) Clamp connection(suitable for tank open with inner diameter 150mm)	1.5"D-GB(外径50mm) 或1.9"OD(外径48.3mm) 1.5"D-GB(50mm OD) Or 1.9"OD(48.3mm OD)	24	自动 (压力或时间 启动反冲洗) Automatic (pressure or time to control backwash)

注:F139A适用的电源适配器输出为:DC24V、1.5A。

F139A中心管有国标1.5"D-GB和美标1.9"OD两种,进/出/排水口胶接有国际2"D-GB和美标2.375"OD两种,请根据需要订货。

Remark: The output of F139A transformer is DC24V,1.5A.

The riser pipe of F139A has two kinds of Chinese standard 1.5"D-GB and American standard 1.9"OD, and the inlet/outlet/drain has two kinds of Chinese standard 2"D-GB and American standard 2.375"OD. Please order according to your needs.

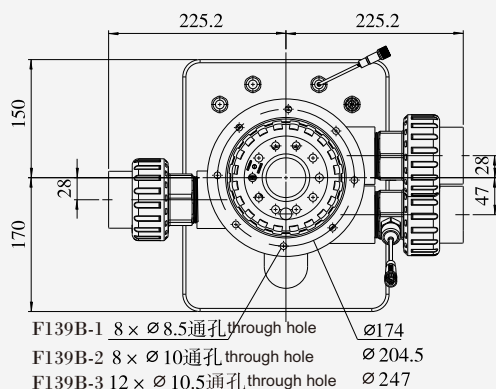


自动泳池过滤阀

Automatic Swimming Pool Filter Valve

顶装法兰连接

Top-mounted Flange Connection



F139B-1 8 x Ø8.5通孔 through hole Ø174
F139B-2 8 x Ø10通孔 through hole Ø204.5
F139B-3 12 x Ø10.5通孔 through hole Ø247

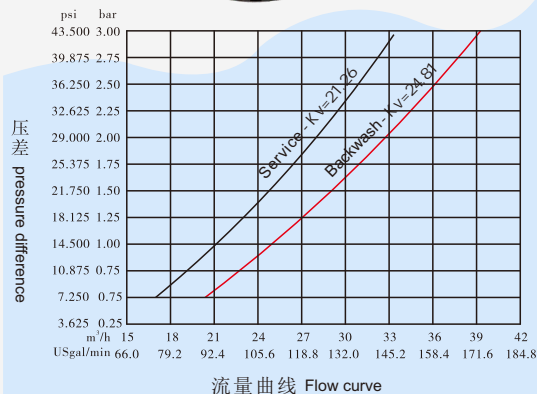
F139B

24m³/h



压力传感器

Pressure Sensor



流量曲线 Flow curve

- 自动冲洗（压力或时间触发） Automatic start backwash by pressure or time
- 带停/断电防排水电磁阀端口 Has the port to connect the NC solenoid valve which can prevent water be discharged when power off
- 带RS-485通信端口 With RS-485 communication port

型号 Model	进/出/排水口(UPVC胶接) Inlet/outlet/drain(UPVC glue)	基座(法兰连接) Base (flange connecting)			中心管 Riser pipe	反洗流量 Backwash flow rate
		中心圆 Center circle	螺栓孔 Bolt hole	罐口内直径 Internal diameter of tank		
F139B-1	2"D-GB(外径63.3 mm UPVC管) 或 2.375"OD (外径60.3mmUPVC管)	φ174	8xφ8.5	150mm	1.5"D-GB(外径50mm) 或1.9"OD (外径48.3mm)	24 m³/h @0.1MPa
F139B-2		φ204.5	8xφ10	171.5mm		
F139B-3	2"D-GB(63.3mmOD UPVC pipe) Or 2.375"OD (60.3mmOD UPVC pipe)	φ247	12xφ10.5	209mm	1.5"D-GB (OD 50mm) or 1.9"OD (OD 48.3mm)	

注: F139B适用的电源适配器输出为: DC24V, 1.5A。F139B中心管有国标1.5"D-GB和美标1.9"OD两种, 进/出/排水口胶接有国标2"D-GB和美标2.375"OD两种, 请根据需要订货。

Remark: The output of F139B transformer is DC24V, 1.5A. The riser pipe of F139B has two kinds of Chinese standard 1.5"D-GB and American standard 1.9"OD, and the inlet/outlet/drain has two kinds of Chinese standard 2"D-GB and American standard 2.375"OD. Please order according to your needs.



自动泳池过滤阀



Automatic Swimming Pool Filter Valve

顶装法兰连接

Top-mounted Flange Connection

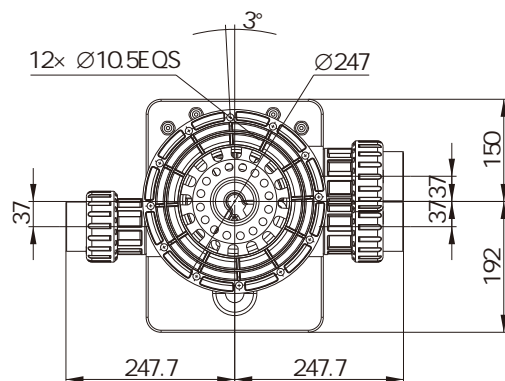
F152B

42m³/h

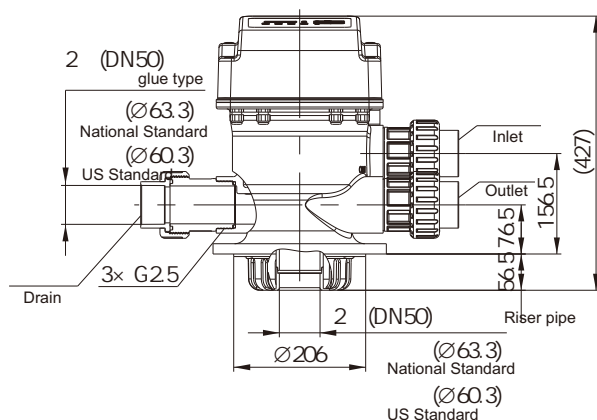


压力传感器

Pressure Sensor



- 自动冲洗(压力或时间触发)
Automatic start backwash by pressure or time
- 带停/断电防排空电磁阀端口
Has the port to connect the NC solenoid valve which can prevent water be discharged when power off
- 带RS-485通信端口
With RS-485 communication port



型号 Model	进/出/排水口(UPVC胶接) Inlet/outlet/drain(UPVC glue)	基座(法兰连接) Base (flange connecting)			中心管 Riser pipe	反洗流量 Backwash flow rate
		中心圆 Center circle	螺栓孔 Bolt hole	罐口内直径 Internal diameter of tank		
F152B	2"D-GB(外径63.3 mm UPVC管)或 2.375"OD (外径60.3mmUPVC管) 2"D-GB(63.3mmOD UPVC pipe)Or 2.375"OD (60.3mmOD UPVC pipe)	φ247	12xφ10.5	209mm	2"D-GB(外径63.3mm UPVC管)或 2.375"OD (外径60.3mmUPVC管) 2"D-GB(63.3mmOD UPVC pipe)Or 2.375"OD (60.3mmOD UPVC pipe)	42 m ³ /h @0.1MPa

注:适用的电源适配器输出为: DC24V、1.5A。

Remark:Power adapter output: DC24V, 1.5 A



自动泳池过滤阀

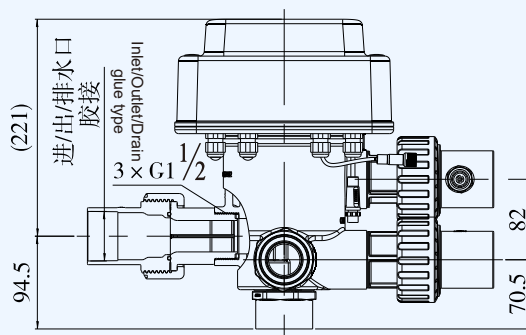
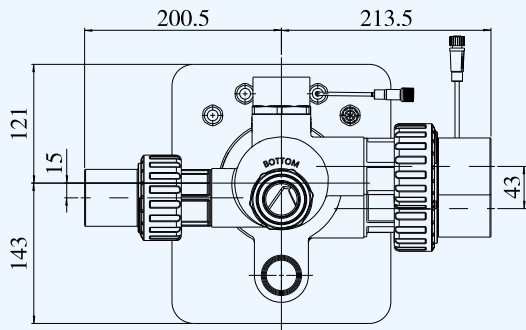
Automatic Swimming Pool Filter Valve

侧装连接

Side-mounted Connection

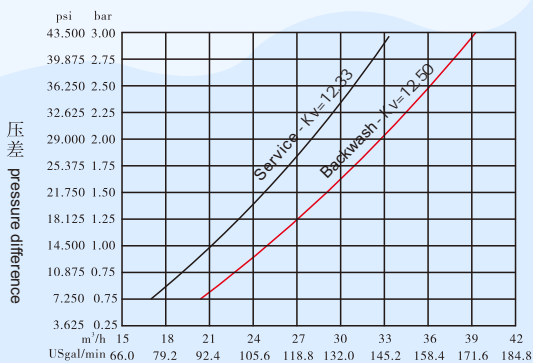
F138C

12m³/h



压力传感器

Pressure Sensor



流量曲线 Flow curve

- 自动冲洗（压力或时间触发） Automatic start backwash by pressure or time
- 带停/断电防排水电磁阀端口 Has the port to connect the NC solenoid valve which can prevent water be discharged when power off
- 带RS-485通信端口 With RS-485 communication port

型号 Model	进/出/排水口(UPVC胶接) Inlet/outlet/drain(UPVC glue)	上下布水口连接 (UPVC胶接) Top and bottom strainer connector(UPVC glue)	反洗流量 Backwash flow rate
F138C	1.5"国标 1.5" Chinese standard	1.5"国标 1.5" Chinese standard	12 m³/h @0.1MPa

注:F138C适用的电源适配器输出为:24V、1.5A

Remark:F138C power adapter output: 24V, 1.5 A

自动泳池过滤阀



Automatic Swimming Pool Filter Valve

侧装连接

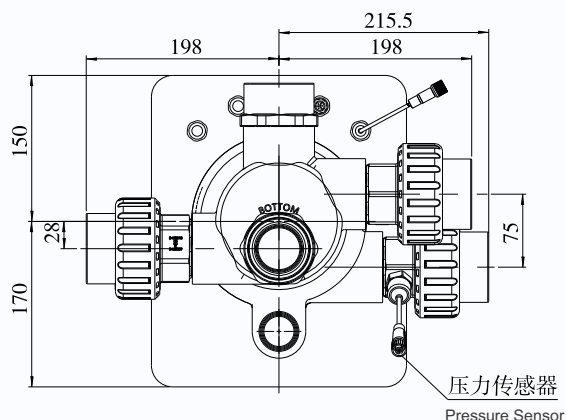
Side-mounted Connection

24m³/h

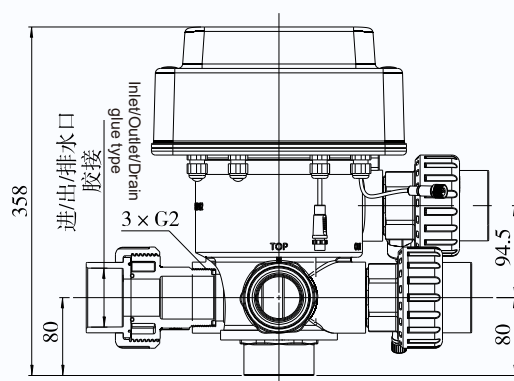
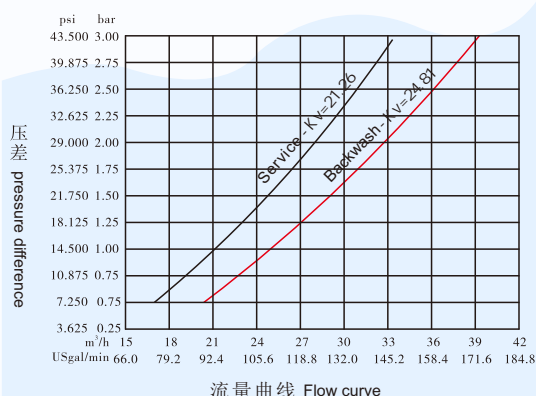
F139C

压力传感器

Pressure Sensor



压力传感器
Pressure Sensor



- 自动冲洗 (压力或时间触发) Automatic start backwash by pressure or time
- 带停/断电防排水电磁阀端口 Has the port to connect the NC solenoid valve which can prevent water be discharged when power off
- 带RS-485通信端口 With RS-485 communication port

型号 Model	进/出/排水口(UPVC胶接) Inlet/outlet/drain(UPVC glue)	上下布水口连接 (UPVC胶接) Top and bottom strainer connector(UPVC glue)	反洗流量 Backwash flow rate
F139C	2"国标 2" Chinese standard	2"国标或1.5"国标 2" Chinese standard or 1.5" Chinese standard	24 m ³ /h @0.1MPa

注:F139C适用的电源适配器输出为:24V、1.5A

Remark:F139C power adapter output: 24V, 1.5 A



泳池一体化设备

Integrated Swimming Pool Equipment



特种陶瓷密封

Special ceramic sealing



耐磨损

Wear resistance

管路连接合理

Reasonable pipeline
connection

安装方便

Easy to install

无须专用机房

No need
equipment room

- 该设备由过滤沙缸、水泵、投药器、泳池自动过滤阀组合，满足泳池一机多用的需求
- 适用于泳池、温泉、SPA、海洋馆等
- 结构简单、管路连接合理、安装方便

- The equipment composed of filtering sand tank, water pump, dosing device and swimming pool filter valve. Its complete configuration can meet the requirements of one machine for multiple purposes in the swimming pool.
- Suitable for swimming pool, hot spring, SPA, aquarium and so on.
- The equipment has simpler structure, reasonable pipeline, and convenient installation.

润新泳池过滤阀型号规格表

Swimming Pool Filter Valve Model Specification List

原型号 Old model	新型号 New model	进/出水口 Inlet/Outlet	排水口 Drain	中心管 Riser pipe	流量m³/h Flow rate	基座 Base		备注 Remark
						中心圆 Center circle	螺栓孔距 Bolt hole	
F138C	53512C	1.5"	1.5"	—	12	/		侧装 Side-mounted
F139A	53524	2"	2"	1.5"D-GB	24	适用罐口内直径150mm Suitable for tank with internal diameter of 150mm		卡箍 Clamp
F139AS	51524							卡箍手动 Clamp Manual
F139B1	53524B1	2"	2"	1.5"D-GB	24	φ174	8×φ8.5	法兰 Flange
F139B2	53524B2	2"	2"	1.5"D-GB	24	φ204.5	8×φ10	法兰 Flange
F139B3	53524B3	2"	2"	1.5"D-GB	24	φ247	12×φ10.5	法兰 Flange
F139C	53524C	2"	2"	—	24	/		侧装 Side-mounted
F152B	53542B	2"	2"	2"D-GB	42	φ247	12×φ10.5	法兰 Flange

应用案例

Application Cases



▲广州某用户别墅泳池采用
F139A顶装泳池过滤阀

The F139A top-mounted swimming pool filter valve is used in a villa swimming pool in Guangzhou



▲浙江安吉某精品民宿安装
F139A顶装泳池过滤阀

The F139A top-mounted swimming pool filter valve is used in a boutique homestay in Anji, Zhejiang

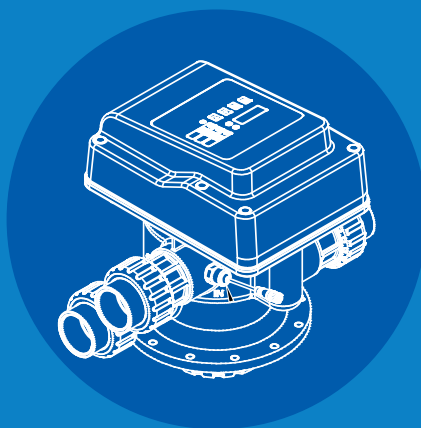


▲浙江安吉某水上乐园安装F139A泳池过滤阀

The F139A swimming pool filter valve is used in a water park in Anji, Zhejiang



润新官方微信公众号
Runxin WeChat
Official Account



温州市润新机械制造有限公司

WENZHOU RUNXIN MANUFACTURING MACHINE CO.,LTD.

地 址: 浙江省温州市鹿城区山福镇润新路169号 邮 编: 325021
电 话: 400-000-2895 传 真: 0577-88633258
邮 箱: sales@run-xin.com 网 址: www.run-xin.com
ETW官网: manufactervvalve.com

ADD.: NO.169, RUNXIN ROAD, SHANFU TOWN, WENZHOU, ZHEJIANG, CHINA

Tel: +86-577-88630038 +86-577-88576512 E-mail: sales@run-xin.com

Fax: +86-577-88633258 Http://www.run-xin.com P.C.: 325021

Http://manufactervvalve.com