



China Patent No.: ZL02220153.X,  
ZL02257746.7

## Multi-functional Flow Control Valve for Water Treatment Systems

53502 (Old Model No.:F71B1)  
53502B (Old Model No.:F71G1)  
53504 (Old Model No.:F67C1)  
53504B (Old Model No.:F67G1)  
53510 (Old Model No.:F75A1)  
53510B (Old Model No.:F75B1)

## Instruction Manual



**Please read this manual in details  
before using this valve and keep it properly  
in order to consult in the future**

0WRX.466.508

MODEL: F71B/F71G/F67C/F67G/F75A/F75B

Before the valve put into use, please fill in the below content so as to help us to refer in the future.

**Filter System Configuration**

Tank size: Dia. \_\_\_\_\_ mm, Height \_\_\_\_\_ mm;  
Refilled filter materials \_\_\_\_\_ Kg; Granularity of filter materials \_\_\_\_\_ mm;  
Control valve model \_\_\_\_\_; Number \_\_\_\_\_;  
Pressure of inlet water \_\_\_\_\_ Mpa; Turbidity of inlet water \_\_\_\_\_ FTU.  
Water source: Ground-water ; Filtered ground-water ;  
Tap water ; Other \_\_\_\_\_.

**Parameter Set**

| Parameter                                | Unit | Factory Default | Actual Value |
|--|------|-----------------|--------------|
| Service Days(Time clock type, by days)   | D.   | 03              |              |
| Service Hours(Time clock type, by hours) | H.   | 20              |              |
| Rinsing Time                             | /    | 02:00           |              |
| Rinsing Frequence                        | /    | F-00            |              |
| Backwash Time                            | Min. | 10              |              |
| Fast Rinse Time                          | Min. | 10              |              |
| Output Mode b-01(02)                     | /    | b-01            |              |

## Catalogue

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## Notice

- To ensure normal operation of the valve, please consult with professional installation or repairing personnel before use it.
- If there are any of pipeline engineering and electric works, there must be finished by professional at the time of installation.
- Do not use the control valve with the water that is unsafe or unknown quality.
- Depending on the changing of working environment and water requirement, each parameter of filter should be adjusted accordingly.
- Test water periodically to verify that system is performing satisfactorily.
- Do not put the valve near the hot resource, high humidity, corrosive, intense magnetic field or intense vibrations environment. And do not leave it outside.
- Forbidden to use the drain pipeline or other connectors as support to carry the system.
- Please use this product under the water temperature between 5~50°C, water pressure 0.15~0.6MPa. Failure to use this product under such conditions voids the warranty.
- If the water pressure exceeds 0.6Mpa, a pressure reducing valve must be installed before the water inlet. While, if the water pressure under 0.15MPa, a booster pump must be installed before the water inlet.
- Do not let children touch or play, because carelessness operations may cause the procedure changed.
- When the attached cables of this product and transformer are changed, they must be changed to the one that is from our factory.
- For 53510(F75A) and 53510B(F75B1) product, in order to dismantle easily, it is suggested to install the strainer with M88 × 2 male thread.

## 1. Product Overview

### 1.1. Main Application & Applicability

Used for filtering water treatment systems

Be suitable for Residential filtering system

Swimming pool filtering equipment (F75A1/53510、 F75B1/53510B)

Carbon filter or sand filter in RO pretreatment filtering system


### 1.2. Product Characteristics

#### ➤ Simple structure and reliable sealing


It adopts hermetic head faces with high degree pottery and corrosion resistance for opening and closing. It combines with Service, Backwash, and Fast Rinse.

#### ➤ No water pass the valve in rinsing in single tank type

#### ➤ Manual function

Realize rinsing immediately by pressing  at any time.



#### ➤ Long outage indicator

If outage overrides 3days, the time of day indicator  will flash to remind people to reset new time of day. The other set parameters do not need to reset. The process will continue to work after power on.

#### ➤ LED dynamic screen display

The stripe on dynamic screen flash, it indicates the control valve is in service; otherwise, it is in rinsing cycle.

#### ➤ Buttons lock

No operations to buttons on the controller within 1 minute, button lock indicator light on which represent buttons are locked. Before operation, press and hold the  and  buttons for 5 seconds to unlock. This function can avoid incorrect operation.

#### ➤ Rinsing frequency

It could set up multiple risings, which means several times of backwash and fast rinse but one time of service. It is much better for cleaning the filter materials.(Refer to P25 for more details.)

#### ➤ There are two kinds of time clock types

Time clock type valve can be chosen to be service by hours ,by dialing the red switch on main control board to “1” (Refer to the Figure 3-1). Pointing to “ON” mean the time clock type service by days; “1” means the time clock type service by hours.

(Attention: after dialing the switch, please restart the power)

## MODEL: F71B/F71G/F67C/F67G/F75A/F75B

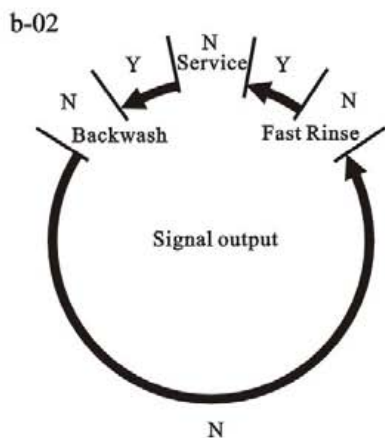
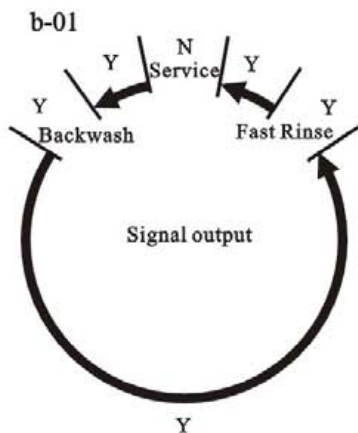
### ➤ **Interlock function**

It has a function of interlock to realize only one valve in rinsing, but the other valves are in service while there are several valves parallel in system. In multi-steps treatment systems such as RO pre-treatment, when several valves are in series, there is only one valve in rinsing to ensure pass water all the times while different valves in rinsing. (Application refer to Figure 3-10)

### ➤ **Signal output**

There is a signal output connector on main control board. It is for controlling external wiring (Refer to Figure, from Figure3-2 to Figure 3-9).

There are two kinds of output modes. b-01 Mode: Turn on start of regeneration and shut off end of regeneration; b-02 Mode: Signal available only intervals of rinsing cycles and in service.



### ➤ **Remote handling input**

This connector can receive external signal, used together with PLC, and computer etc. to control the valve. (Application refer to Figure3-12)

### ➤ **Pressure relief output**

The valve will cut off feeding water to drain line when it switches in rinsing cycles (Same as signal output b-02). Thus in some water treatment system, e.g. Deep Well, one booster pump was installed on the inlet to increase the system water feeding pressure, this cut-off will cause pressure on inlet rising too fast to damage the valve. Pressure Relief Output can be used to avoid this problem. (Application refer to Figure3-11).

### ➤ **All parameters can be modified**

According to the water quality and usage, the parameters in the process can be adjusted.



## MODEL: F71B/F71G/F67C/F67G/F75A/F75B

### 1.3. Service Condition

Filter Valve should be used under the below conditions:

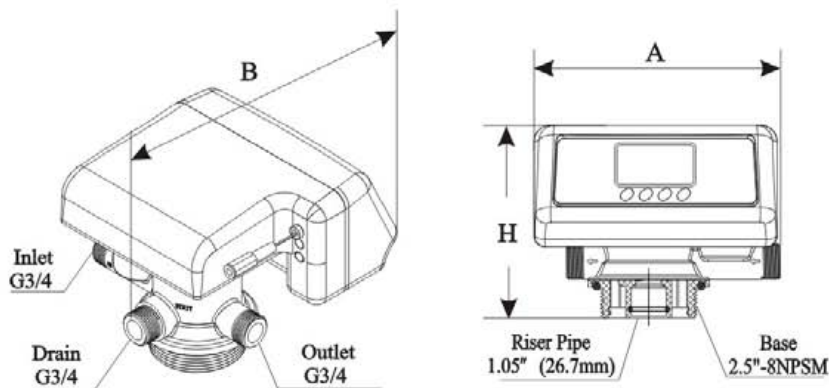
| Items               |                         | Requirement            |
|---------------------|-------------------------|------------------------|
| Working conditions  | Water pressure          | 0.15MPa ~ 0.6MPa       |
|                     | Water temperature       | 5°C ~ 50°C             |
| Working environment | Environment temperature | 5°C ~ 50°C             |
|                     | Relative humidity       | ≤95% ( 25°C )          |
|                     | Electrical Facility     | AC100 ~ 240V/50 ~ 60Hz |
| Inlet water quality | Water turbidity         | <20FTU                 |

**Note:** The parameter in the above chart is only suitable for the filter matched with our filter valves.

When the water turbidity exceeds the conditions, the impurity in the inlet water should be coagulated and precipitated firstly.

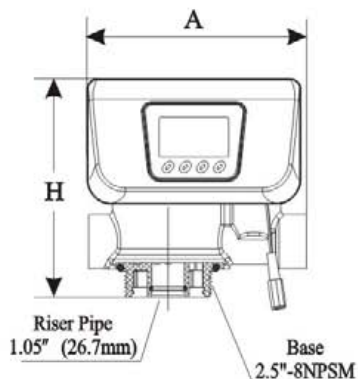
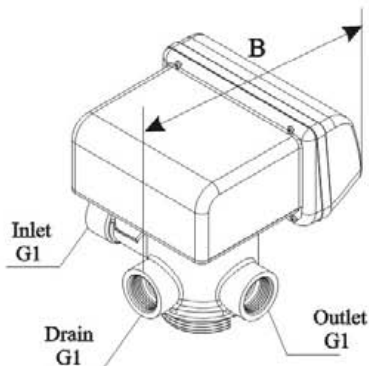
### 1.4. Product Structure and Technical Parameters

Dimension(The appearance is just for reference. It is subjected to the real product)

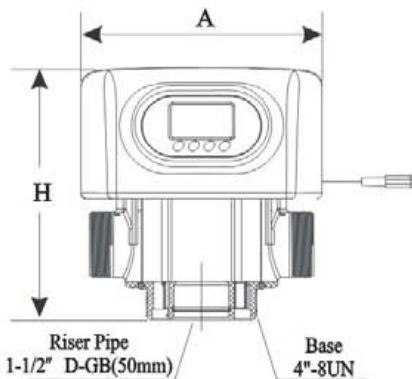
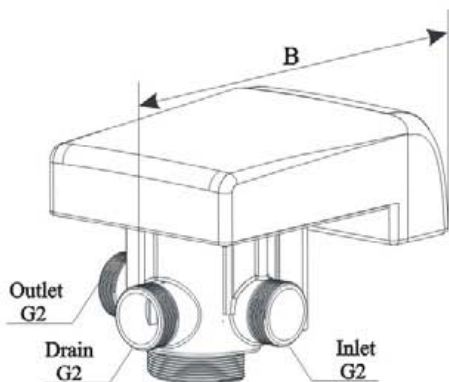


| Model           | A(mm)<br>max | B(mm)<br>max | H(mm)<br>max | Transformer<br>Output | Flow Rate<br>m <sup>3</sup> /h<br>@0.3MPa |
|-----------------|--------------|--------------|--------------|-----------------------|---|
| F71B ( 53502 )  | 182.5        | 195.5        | 143          | DC12V、1.5A            | 2.0                                       |
| F71G ( 53502B ) | 199          | 180          | 167          |                       |   |

**MODEL: F71B/F71G/F67C/F67G/F75A/F75B**



| Model         | A(mm)<br>max | B(mm)<br>max | H(mm)<br>max | Transformer<br>Output | Flow Rate<br>m <sup>3</sup> /h<br>@0.3MPa |
|---------------|--------------|--------------|--------------|-----------------------|---|
| F67B (53504)  | 180          | 194          | 178.5        | DC12V、1.5A            | 4.0                                       |
| F67G (53504B) | 242          | 204          | 198          |                       |   |



| Model         | A(mm)<br>max | B(mm)<br>max | H(mm)<br>max | Transformer<br>Output | Flow Rate<br>m <sup>3</sup> /h<br>@0.3MPa |
|---------------|--------------|--------------|--------------|-----------------------|---|
| F75A (53510)  | 220          | 346.5        | 230.5        | DC24V、1.5A            | 10.0                                      |
| F75B (53510B) | 216.5        | 346.5        | 247          |                       |   |



## MODEL: F71B/F71G/F67C/F67G/F75A/F75B

### 1.5. Installation

#### A. Installation notice

Before installation, read all those instructions completely. Then obtain all materials and tools needed for installation.

The installation of product, pipes and circuits, should be accomplished by professional to ensure the product can operate normally.

Perform installation according to the relative pipeline regulations and the specification of Water Inlet, Water Outlet, and Drain Outlet.

#### B. Device location

- ① The filter should be located closely to drain.
- ② Ensure the unit is installed in enough space for operating and maintenance.
- ③ The unit should be kept away the heater, and exposed outdoor. Sunshine or rain will cause the system damage.
- ④ Please avoid to install the system in one Acid/Alkaline, Magnetic or strong vibration circumstance, because above factors will cause the system disorder.
- ⑤ Do not install the filter, drain pipeline in circumstance which temperature may drop below 5°C, or above 50°C.
- ⑥ One place is recommended to install the system which causes the minimum loss in case of water leaking.

#### C. Pipeline connection (Taking F71B for example)

##### ① Install control valve

a. As the Figure 1-1 shows, select the relevant riser pipe, glue the riser pipe to the bottom strainer and put it into the mineral tank, cut off the exceeding tube out of tank top opening. Plug the riser tube in case of mineral entering.

b. Fill the mineral to the tank, and the height is accordance with the design code.

c. Remove the tap covering on the central tube and check if the riser tube is on the central of tank.

d. Install the top distributor to the valve and insert the riser tube into control valve and screw tight control valve.

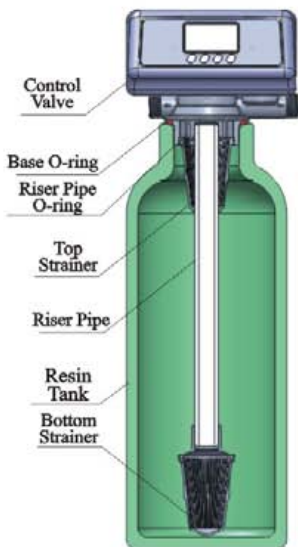


Figure 1-1

## MODEL: F71B/F71G/F67C/F67G/F75A/F75B

### Note:

- The length of riser tube should be neither higher 1mm nor lower 5mm tank top opening height, and its top end should be rounded to avoid damage of O-ring inside the valve.
- Avoid floccules substance together with filter materials fill in the tank.
- Avoid O-ring inside control valve falling out while rotating it on the tank.

### ② Pipeline connection

a. As figure 1-2 shows, install a pressure gauge in water inlet.

b. Install valve A, valve B, valve C and valve D in the inlet and outlet pipeline. The valve D is sampling valve.

c. Install the check valve in the outlet pipeline.

d. Inlet pipeline should be in parallel with outlet pipeline. Support inlet and outlet pipeline with fixed holder.

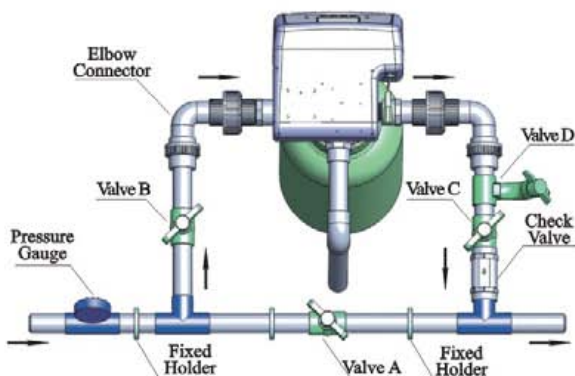


Figure1-2

### Note:

- If making a soldered copper installation, do all sweat soldering before connecting pipes to the valve. Torch heat will damage plastic parts.
- When turning threaded pipe fittings onto plastic fitting, use care not to cross thread or broken valve.

## MODEL: F71B/F71G/F67C/F67G/F75A/F75B

### ③ Install drain pipeline

Directly connect the outlet with the rigid pipeline, such as UPVC, etc.



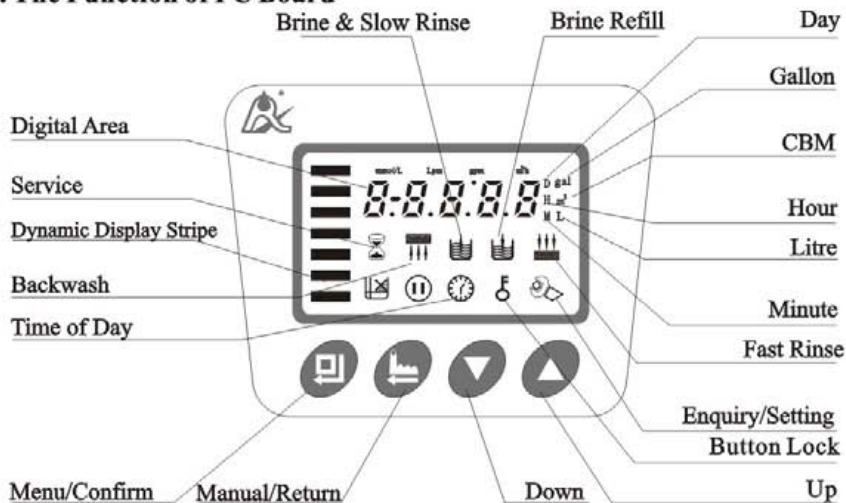
Figure 1-3

#### Note:

- Control valve should be higher than drain outlet, and be better not far from the drain hose.
- Be sure not connect drain with sewer, and leave a certain space between them (As the figure 1-3 shows), avoid wastewater be absorbing to the water treatment equipment.
- If wastewater is used for other purpose. Please use another container for loading. And also keep a certain space between drain and container.


## 2. Basic Setting & Usage

### 2.1. The Function of PC Board








## MODEL: F71B/F71G/F67C/F67G/F75A/F75B







### A. Time of day indicator

-  Light on, display the time of day.










### B. Button lock indicator

-  Light on, indicate the buttons are locked. At this moment, press any single button will not work (No operation in one minute,  will light on and lock the buttons.)
- Solution: Press and hold both  and  for 5 seconds until the  light off.







### C. Program mode indicator

-  Light on, enter program display mode. Use  or  to view all values.
-  Flash and enter program set mode. Press  or  to adjust values.







### D. Manu/Confirm button

- Press ,  light on, enter program display mode and use  or  to view all values.
- In program display mode, press ,  flash, enter program set mode, press  or  and adjust values.
- Press  after all program are set, and then the voice “Di” means all setting are success and return program display mode.

### E. Manual/Return button

- Press  in working conditions, it can proceed to next step. (Example: when the outlet water fails to reach the requirement, you can press  to end the service and start an immediate rising. During the process of rising, pressing the  button can end one step in advance and proceed to the next step.)
- Press  in program display mode, and it will return in Service. Press  in program set mode, and it will return program display mode.
- Press  while adjusting the value, then it will return program display mode directly without saving value.






### F. Down and Up

- In program display mode, press  or  to view all values.
- In program set mode, press  or  to adjust values.
- Press and hold both  and  for 5 seconds to lift the Button Lock status.

## MODEL: F71B/F71G/F67C/F67G/F75A/F75B

### 2.2. Basic Setting & Usage

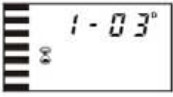
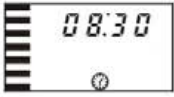
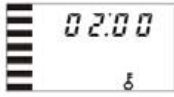


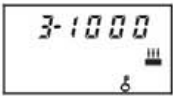
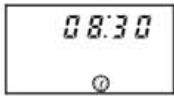
#### A. Parameter specification

| Function            | Indicator   | Factory Default | Parameter Set Range | Instruction   |
|---------------------|---|-----------------|---------------------|---|
| Time of Day         |  | Random          | 00: 00~23:59        | Set the time of day when use, “: ” flash  |
| Service Days        |  | 1-03D.          | 0~99Days            | Only for Time Clock Type, by days   |
| Service Hours       |  | 1-20H.          | 0~99 Hours          | Only for Time Clock Type, by hours  |
| Rinsing Time        | 02:00   | 02:00           | 00: 00 ~ 23:59      | Rinsing time; “: ” light on   |
| Rising Frequency    | F-00  | 00              | 0 ~ 20              | Rising frequency. For example, F-01: indicate service 1 time, backwash and fast rinse 2 time;   |
| Backwash Time       |  | 10Min.          | 0 ~ 99:59           | Backwash time(Minute), correct to second;   |
| Fast Rinse Time     |  | 10Min.          | 0 ~ 99:59           | Fast Rinse Time(Minute), correct to second;   |
| Output Control Mode | b-01  | 01              | 01 or 02            | Mode 01: Signal turn on start of rinsing and shut off end of rinsing. (Refer to the figure on P5)<br>Mode 02: Signal available only intervals of rinsing cycles and in service. (Refer to the figure on P5) |




## MODEL: F71B/F71G/F67C/F67G/F75A/F75B

### B.Process Display (Time Clock Type, by days)

| Working status | The circular interface displays in turn   |   |   |
|----------------|---|---|---|
| Service        |  |  |  |
| Backwash       |  |  |   |
| Fast Rinse     |  |  |   |

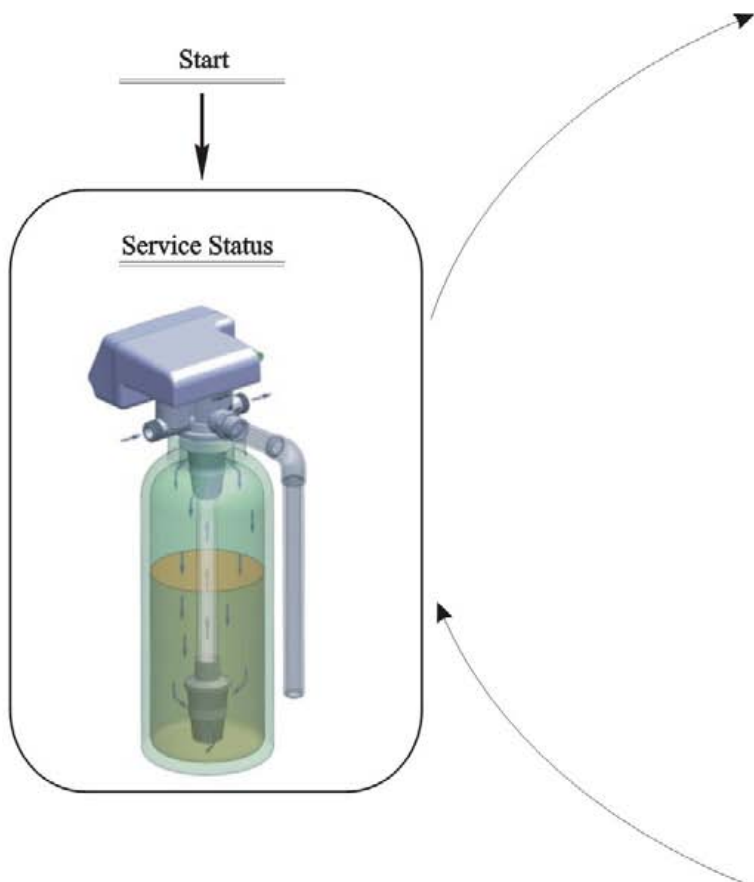
#### Illustration:

- The display screen will only show “-00-” when the electrical motor is running.
- The time of day figure  flash continuously, such as “12: 12” flash, indicates long outage of power. It reminds to reset the time of day.
- The display will show the error code, such as “-E1-” when the system is in error.
- Working process: Service→ Backwash→ Fast Rinse



### 3. Applications

#### 3.1. Filter Flow Chart



MODEL: F71B/F71G/F67C/F67G/F75A/F75B

Backwash Status



Fast Rinse Status



## MODEL: F71B/F71G/F67C/F67G/F75A/F75B

### 3.2. The Function and Connection of PC Board

Opening the front cover of control valve, you will see the main control board and connection port as Figure 3-1A shows (For F71、F67)

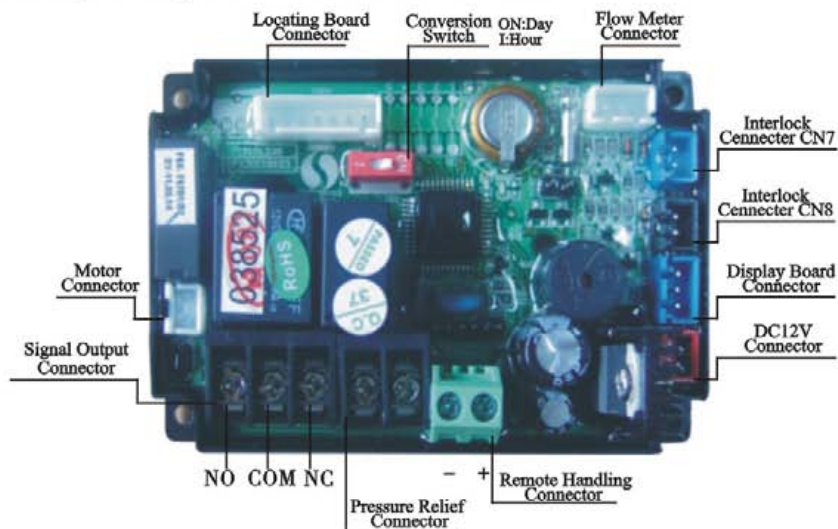


Figure 3-1A

F75 main control board and connection port as Figure3-1B shows

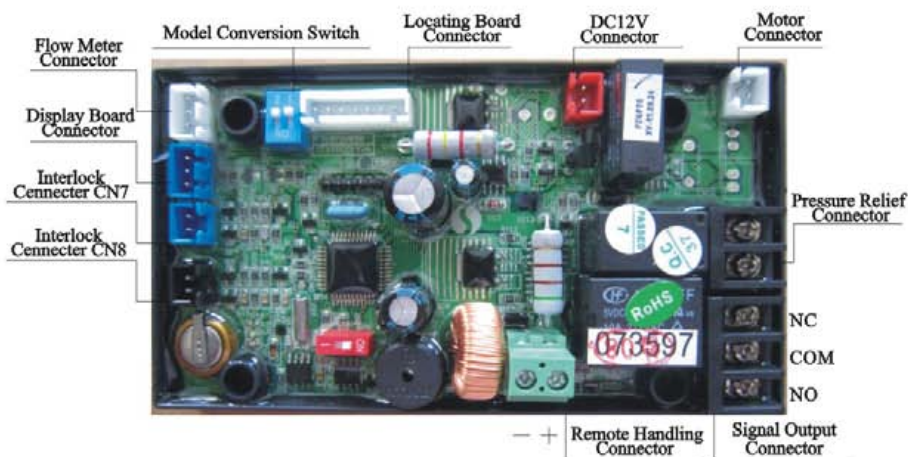


Figure 3-1B

## MODEL: F71B/F71G/F67C/F67G/F75A/F75B

The main functions on main control board:

| Function                     | Application   | Explanation  |
|------------------------------|---|--|
| Signal output connector b-01 | Outlet solenoid valve   | If system strictly require no hard water flow from outlet or controlling the liquid level in water tank.                               |
|                              | Inlet pump  | Increase pressure for regeneration or rinsing. Use the liquid level controller to control inlet pump to ensure there is water in tank. |
| Signal output connector b-02 | Inlet solenoid valve or inlet pump                                  | When inlet pressure is high, it needs to close water inlet when valve is rotating to protect motor.                                    |
| Pressure relief connector    | Control the inlet by-pass to release pressure                       | When valve is rotating, pressure relief connector opened to prevent pressure increasing rapidly.                                       |
| Interlock connector          | To ensure only one control valve regeneration or rinsing in system. | Use in RO Pre-treatment, water supply together but regeneration in turn, second grade ion exchange equipment, etc.                     |
| Remote handling connector    | Receipt signal to make the control rotate to next circle            | It is used for on-line inspection system, PC connection, and realize automatically or remote controlling valve.                        |

### A. Signal Output Connector

#### 1) Control Solenoid Valve (Set b-01)

① Solenoid valve on outlet controls water level in brine tank.

Instruction: If system strictly requires no unfiltered water flow from outlet in rinsing cycle (Mainly for no unfiltered water flow out when valve is switching. When valve in backwash positions, there is no unfiltered water flow from outlet), a solenoid valve could be installed on outlet, the wiring refer to Figure 3-2.

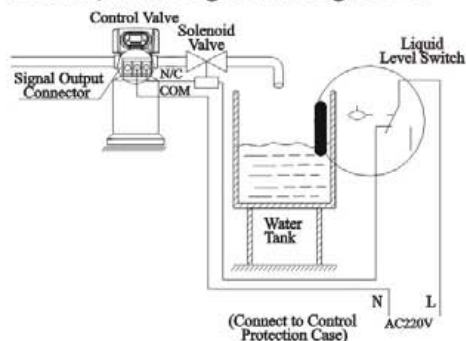


Figure 3-2 Wring of Solenoid Valve on Outlet

## MODEL: F71B/F71G/F67C/F67G/F75A/F75B

### Function:

In service status, if water tank is short of water, solenoid valve is open to supply filtered water. But if water tank has enough water, solenoid valve is closed, so no filtered water supplied.

When the valve is in backwash status, there is no signal output. So, solenoid valve is closed, and no unfiltered water flow into the tank.

### ②Solenoid valve on inlet( Set b-02)

Instruction: When inlet pressure exceeds 0.6MPa, connect a solenoid valve on inlet in series. Control mode is b-02. Solenoid valve closed when valve switching, the wiring refer to Figure 3-3. As Figure 3-4 shows, it also can use the pressure relief port to connect a solenoid valve on inlet in series.

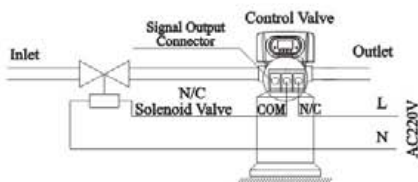


Figure 3-3 Wiring of Solenoid Valve on Inlet

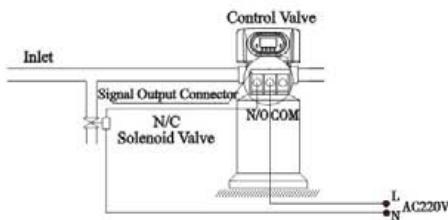


Figure 3-4 Wiring of Pressure Relief Port

### Function:

When inlet pressure is high, install a solenoid valve on inlet to ensure valve switching properly. When valve is exactly at position of Service, Backwash, and Fast Rinse, solenoid valve is open. When valve is switching, solenoid valve is closed, no water flow into valve to ensure valve switching properly. It could prevent the problem of mix water and water hammer.

Use interlock cable to realize valves in parallel and series in same system which is suited for RO pretreatment system or second grade  $\text{Na}^+$  system. The Wiring refer to Figure 3-5:

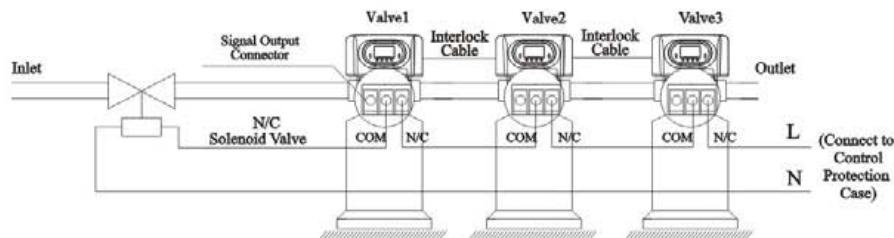


Figure 3-5 Wiring of Solenoid Valve on Inlet for Valve in Parallel and Series



## MODEL: F71B/F71G/F67C/F67G/F75A/F75B

### 2 ) Liquid Level Controller controls Inlet Pump( Two-phase motor)( Set b-01)

Instruction: For the system using well or middle-tank supplying water, use switch of liquid level controller and valve together to control pump opening or closing. The wiring refer to Figure 3-6

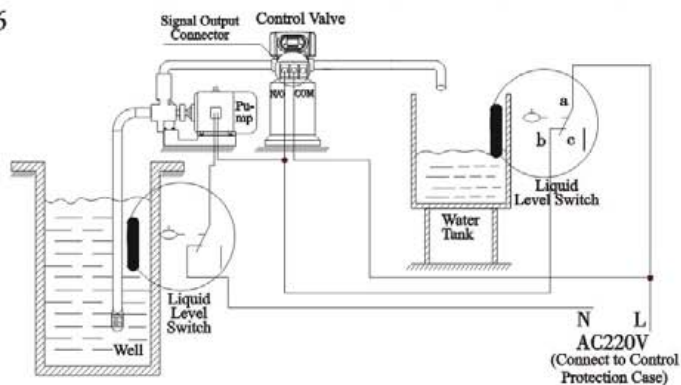


Figure 3-6 Wiring of Liquid Level Controller Controlling 220V Inlet Pump

Function:

When valve in service status, if water tank is short of water, start up pump, but if water tank has enough water, the switch of liquid level controller is closed, so pump doesn't work.

When valve in generation status like backwash, inlet always has water no matter what is water condition in water tank. As Runxin valve no water pass outlet in regeneration cycle, it ensures no water fill into brine tank.

A liquid level switch at well mouth or in middle water tank in RO system protects pump from working without water in case of out of raw water.

### 3 ) Liquid Level Switch in Water Tank Controls Inlet pump (Three-phase) (Set b-01)

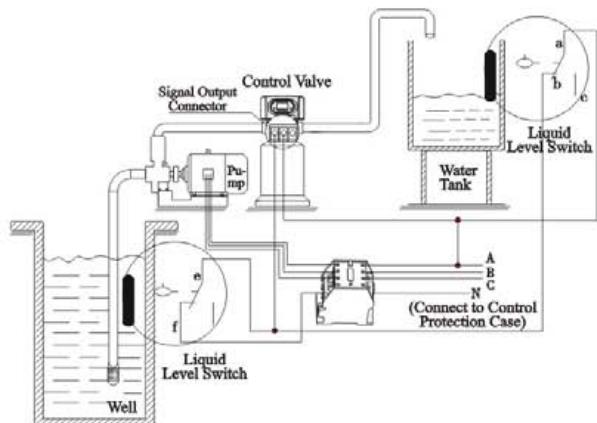


Figure 3-7 Wiring of Liquid Level Switch in Water Tank Controls 380V Inlet Pump



## MODEL: F71B/F71G/F67C/F67G/F75A/F75B

The principle is the same as for two-phase's, only change single-phase pump into three-phase motor, and use an AC contactor( Refer to Figure 3-7)

### 4) Control Inlet Booster Pump( Set b-01 )

Instruction: If inlet water pressure is less than 0.15MPa, which makes backwashing and drawing difficult, a booster pump is suggested to be installed on inlet. Control mode b-01. When system in regeneration cycle, booster pump is open, the wiring refer to Figure 3-8.If the booster pump current is bigger than 5A, system need to install an contactor, the wiring refer to Figure3-9

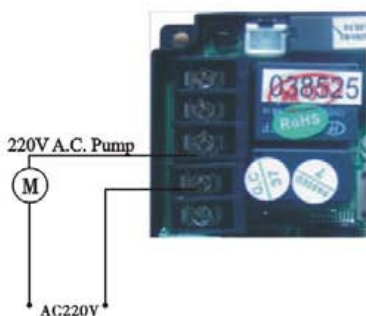


Figure 3-8 Wiring of Booster Pump on Inlet

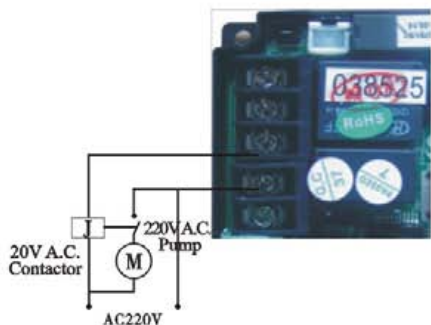


Figure 3-9 Wiring of Booster Pump on Inlet

## **B. Interlock**

Instruction: In the parallel water treatment system, it ensures only one valve in regeneration or rising cycle and (n-1) valves in service, that is, realizing the function of supplying water simultaneously and regenerating individually.

In the series water treatment system(Second grade Na<sup>+</sup> exchanger or RO pre-treatment system), it ensures only one valve in regeneration or washing cycle and there is/are water(s) in service. The wiring refer to Figure 3-10

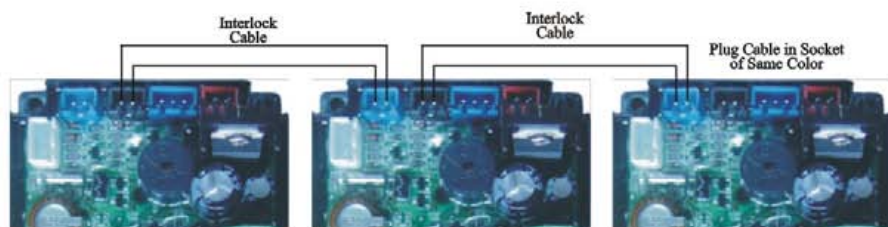


Figure 3-10 Network System Wiring with Interlock Cable

## MODEL: F71B/F71G/F67C/F67G/F75A/F75B

Use interlock cable to connect CN8 to CN7 on next valve in the loop.

One system with several valves, if interlock cable is disconnected, the system is divided into two individual systems.

### **C. Pressure Relief Output Port**

Runxin valve will cut off feeding water to drain line when it switches in rinsing cycles. Thus in some water treatment system, e.g. deep well, one booster pump is installed on the inlet to increase the system water feeding pressure, this cut-off will cause pressure on inlet rising too fast to damage the valve. Pressure Relief Output Port can be used to avoid this problem. The wiring refer to Figure3-11

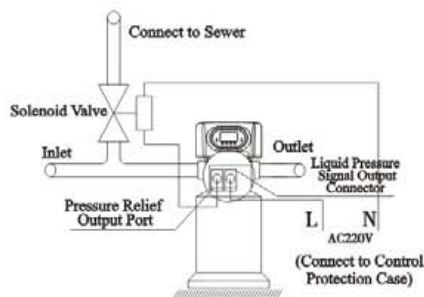


Figure 3-11 Wiring of Pressure Relief Output

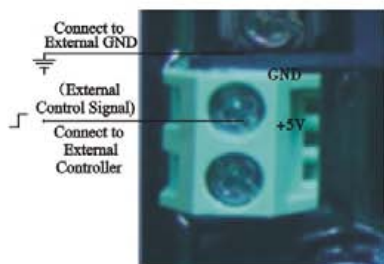


Figure 3-12 Wiring of Remote Input

### **D. Remote Handling Connector**

Online TDS meter monitors treated water other than a flow meter, or PLC controls the rinsing time. When the controller receives a contact closure from above instruments, rinsing begins. The wiring refers to Figure3-12.

## MODEL: F71B/F71G/F67C/F67G/F75A/F75B

### 3.3. System Configuration and Flow Rate Curve

#### A. Product Configuration

Product configuration with tank, filter materials volume

| Tank Size    | Volume of Filter Material | Carbon Filter       |                    | Sand Filter         |                    |
|--------------|---------------------------|---------------------|--------------------|---------------------|--------------------|
|              |                           | Filtering Flow Rate | Backwash Flow Rate | Filtering Flow Rate | Backwash Flow Rate |
| mm           | L                         | m <sup>3</sup> /h   | m <sup>3</sup> /h  | m <sup>3</sup> /h   | m <sup>3</sup> /h  |
| φ 180 × 1130 | 16                        | 0.3                 | 0.9                | 0.6                 | 1.3                |
| φ 205 × 1300 | 25                        | 0.4                 | 1.1                | 0.8                 | 1.7                |
| φ 255 × 1390 | 40                        | 0.6                 | 1.7                | 1.2                 | 2.6                |
| φ 300 × 1390 | 60                        | 0.8                 | 2.5                | 1.7                 | 3.8                |
| φ 355 × 1670 | 100                       | 1.2                 | 3.4                | 2.4                 | 5.2                |
| φ 400 × 1670 | 120                       | 1.5                 | 4.5                | 3.1                 | 6.8                |
| φ 450 × 1670 | 150                       | 2                   | 5.9                | 4.1                 | 8.8                |
| φ 500 × 1800 | 200                       | 2.4                 | 7                  | 4.9                 | 10.6               |
| φ 600 × 1800 | 300                       | 3.4                 | 10                 | 7                   | 15.2               |

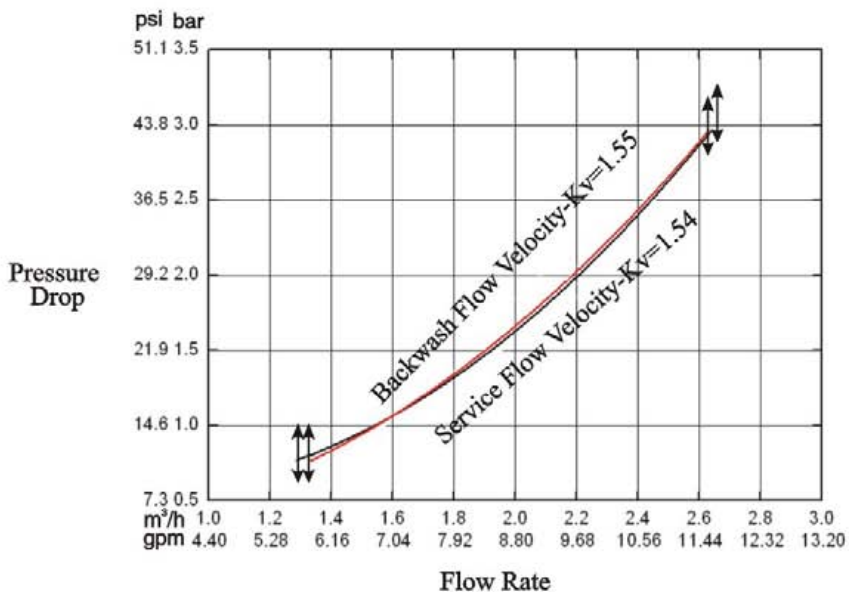
Attention: the filtering flow rate of carbon filter is calculated based on the 12m/h operation rate; the backwash flow rate is calculated based on the 10L/(m<sup>2</sup>\*s) backwash intensity; the filtering flow rate of sand filter is calculated based on the 25m/h operation rate; the backwash flow rate is calculated based on the 15L/(m<sup>2</sup>\*s) backwash intensity.

#### B. Flow Rate Characteristic

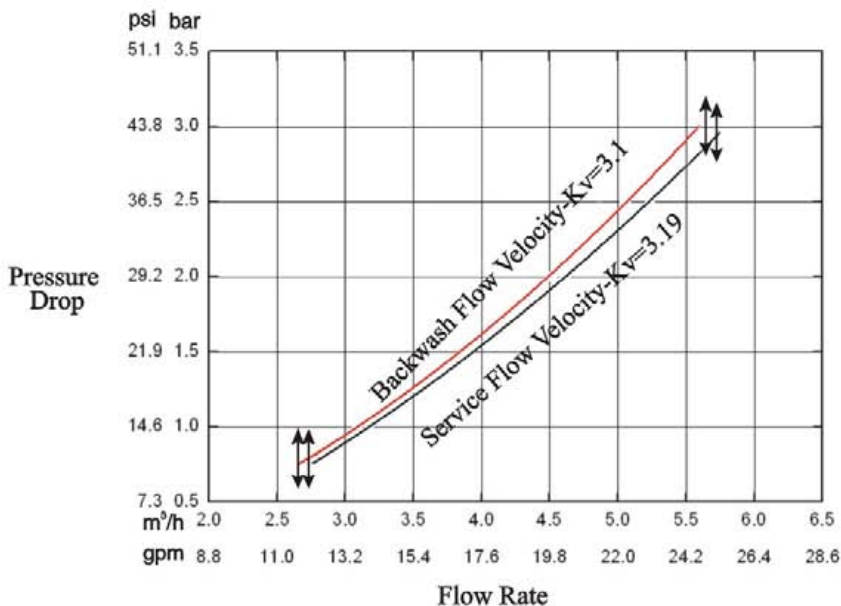
##### 1) .Pressure-flow rate curve

**MODEL: F71B/F71G/F67C/F67G/F75A/F75B**

F71

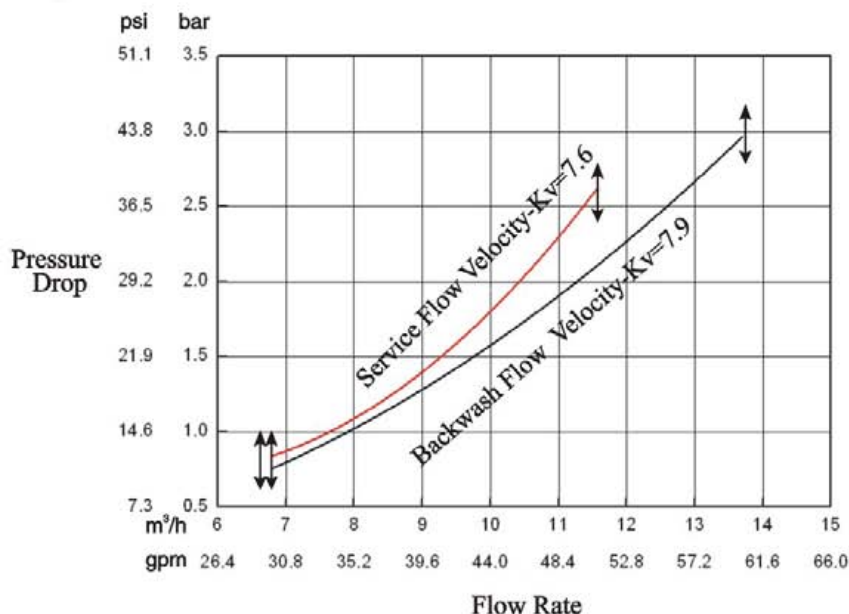


F67



## MODEL: F71B/F71G/F67C/F67G/F75A/F75B

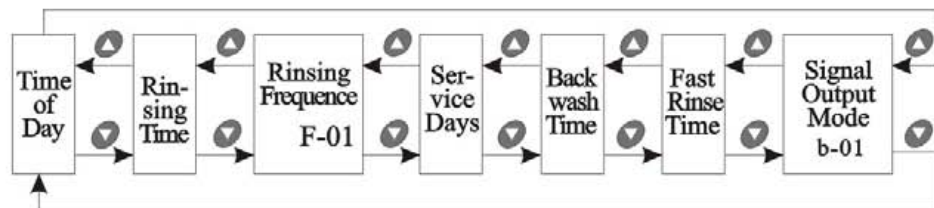
F75



### 3.4. Parameter Enquiry and Setting

#### 3.4.1. Parameter Enquiry

When light on, press and hold both and for 5 seconds to lift the button lock status; then press and light on, enter to program display mode; press or to view each value according to below process. (Press exit and turn back to service status)


























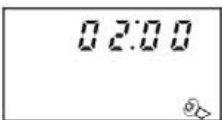






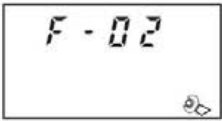


















#### 3.4.2 Parameter Setting

In program enquiry mode, press and enter into program set mode. Press or to adjust the value.








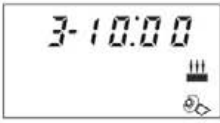









### 3.4.3 The steps of parameter setting

| Items               | Process steps  | Symbol  |
|---------------------|--|---|
| Time of Day         | <p>When the clock symbol  continuously flash, it reminds to reset;</p> <ol style="list-style-type: none"> <li>1. Press  to enter into program enquiry mode; both  and  symbol light on, “:” flash;</li> <li>2. Press , both  and hour value flash, through  or  to adjust the hour value;</li> <li>3. Press  again, both  and minute value flash, through  or  to adjust the minute value;</li> <li>4. Press  and hear a sound “Di”, then finish adjustment, press  to turn back.</li> </ol> |    |
| Rin-sing Time       | <ol style="list-style-type: none"> <li>1. In the Rinsing Time program display mode, press  and enter into program set mode,  and 02 value flash; through  or  to adjust the hour value</li> <li>2. Press  again, both  and “00” flash, through  or  to adjust the minute value;</li> <li>3. Press  and hear a sound “Di”, then finish adjustment, press  to turn back.</li> </ol>  |    |
| Rinsing Freq- uence | <ol style="list-style-type: none"> <li>1. In the Rinsing Frequency display mode, it shows “F-02”; press  and enter into program set mode.  and 02 flash;</li> <li>2. Press  or  to adjust the value;</li> <li>3. Press  and hear a sound “Di” then finish adjustment, press  to turn back.</li> </ol>  |   |
| Serv- ice Days      | <ol style="list-style-type: none"> <li>1. In the Service Days display mode, it shows  and “1-03”; press  and enter into program set mode.  and 03 flash;</li> <li>2. Press  or  to adjust the value;</li> <li>3. Press  and hear a sound “Di” then finish adjustment, press  to turn back.</li> </ol>   |  |
| Back- wash Time     | <ol style="list-style-type: none"> <li>1. In the Backwash Time display mode, it shows  and “2-10:00”; press  and enter into program set mode.  and 10:00 flash;</li> <li>2. Press  or  to adjust the value;</li> <li>3. Press  and hear a sound “Di”, then finish adjustment, press  to turn back.</li> </ol>   |  |





## MODEL: F71B/F71G/F67C/F67G/F75A/F75B



|                    |   |   |
|--------------------|---|---|
| Fast Rinse Time    | <ol style="list-style-type: none"><li>1. In the Fast Rinse Time display mode, it shows  and "3-10:00"; press  and enter into program set mode.  and 10:00 flash;</li><li>2. Press  or  to adjust the value;</li><li>3. Press  and hear a sound "Di" then finish adjustment, press to  turn back.</li></ol> |  |
| Signal Output Mode | <ol style="list-style-type: none"><li>1. In Signal Output Mode display mode, it shows b-01. Press  and enter into program set mode.  and 01 flash;</li><li>2. Press  or  to adjust to b-02;</li><li>3. Press  and hear a sound "Di", then finish adjustment, press  to turn back.</li></ol>   |  |

### 3.5. Trial Running

After installing the multi-functional flow control valve on the tank with the connected pipes, as well as setting up the relevant parameter, please conduct the trial running as follows:

A. Close the inlet valve B & outlet valve C, and open the bypass valve A. After cleaning the foreign materials in the pipe, close the by-pass valve A. (As Figure 1-2 shows)

B. Press  and enter into the Backwash position; when  light on, slowly open the inlet valve B to 1/4 position, making the water flow into the resin tank; you can hear the sound of air-out from the drain pipeline. After all air is out of pipeline, then open inlet valve B completely and clean the foreign materials in the tank until water from drain is clean. It will take 8~10 minutes to finish the whole process.

C. Press , turning the position from Backwash to Fast Rinse;  light on and start to fast rinse. It will take 10~15 minutes to finish the whole process.




D. After finishing fast rinse, take some outlet water for testing; if the water reaches the requirement, press  to finish the fast rinse; Then the control valve return to Service Status;  light on and start to running.

Illustration:

In the process of rinsing, the program will be finished automatically in accordance with the setting time; pressing the  button can end one step in advance and proceed to the next step.

**Note:**

● If water inflow too fast, the media in tank will be damaged. When water inflow slowly, there is a sound of air-out from drain pipeline.

● After changing the filter materials, please empty air in the materials according to the above Step B.

## MODEL: F71B/F71G/F67C/F67G/F75A/F75B

- In the process of trial running, please check the water situation in all position, ensuring there is no filter materials leakage.
- The time for Backwash and Fast Rinse position can be set and executed according to the suggestions from the control valve suppliers.

### 3.6. Trouble-Shooting

#### A. Control Valve Fault

| Problem  | Cause  | Correction   |
|--|--|--|
| 1. Filter fails to rinse                       | A. Electrical service to unit has been interrupted.<br>B. Rinse time is set incorrect.<br>C. Valve is defective. | A. Assure permanent electrical service (check fuse, plug or switch).<br>B. Reset the time<br>C. Check or replace the valve                 |
| 2. Filter supply raw water                     | A. Bypass valve is open<br>B. Riser pipe leak<br>C. Interval valve leak  | A. Close the bypass valve<br>B. Make sure riser pipe and O-ring are not cracked.<br>C. Check or change valve body.                         |
| 3. Water pressure lost                         | A. Iron is in the water supply pipe.<br>B. Iron mass is in the filter.   | A. Clean the water supply pipe.<br>B. Clean valve and add filter materials cleaning chemical, increase frequency of rinsing.               |
| 4. Loss of filter materials through drain line | A. Air in the water system.<br>B. The strength of backwash is too high.<br>C. Strainer is broken.                | A. Assure that the system is dry and has proper air eliminator control.<br>B. Reduce the strength of backwash.<br>C. Replace the strainer. |
| 5. Control valve cycle continuously.           | A. Locating signal wiring break-down.<br>B. Valve is faulty.<br>C. Foreign material stuck the driving gear.      | A. Check and connect locating signal wiring.<br>B. Replace valve.<br>C. Take out foreign material.   |
| 6. Drain flows continuously.                   | A. Internal valve leak.<br>B. When electricity fails to supply, the valve is in backwash or fast rinse position. | A. Check and repair valve body or replace it.<br>B. Turn off bypass valve and restart when power on.                                       |

MODEL: F71B/F71G/F67C/F67G/F75A/F75B

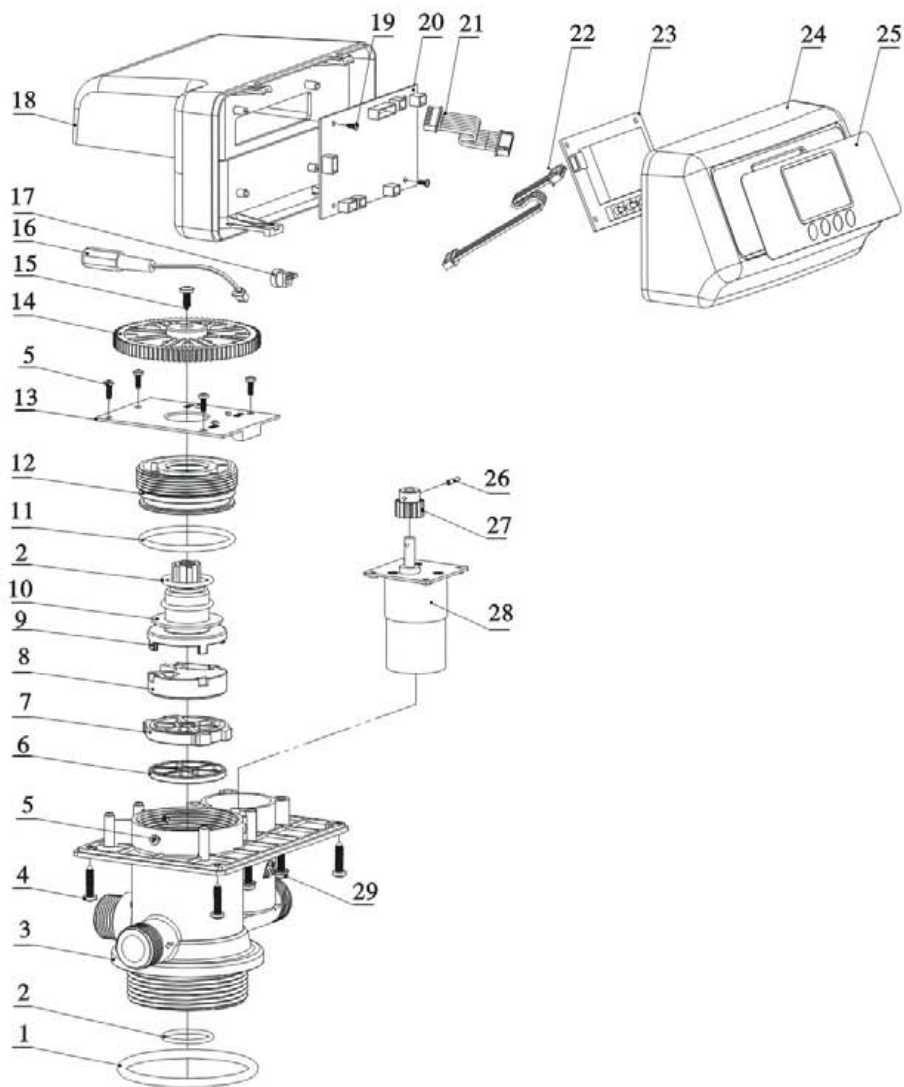
B.Controller Fault

| Problem                                   | Cause  | Correction   |
|---|--|--|
| 1. All indicators display on front panel. | A. Wiring of display board with control board fails to work.<br>B. Control board is faulty.<br>C. Transformer damaged.<br>D. Voltage is not stable.  | A. Check and replace the wiring.<br>B. Replace control board.<br>C. Check and replace transformer.<br>D. Check and adjust electrical service.                    |
| 2. No display on front panel.             | A. Wiring of display board with control board fails to work.<br>B. Display board damaged.<br>C. Control board damaged.<br>D. Electricity is interrupted.   | A. Check and replace wiring.<br>B. Replace display board.<br>C. Replace control board.<br>D. Check electricity.  |
| 3. E1 Flash                               | A. Wiring of locating board with control board fails to work.<br>B. Locating board damaged.<br>C. Mechanical driver fails.<br>D. Faulty control board.<br>E. Wiring of motor with control board is fault.<br>F. Motor damaged. | A. Replace wiring.<br>B. Replace locating board.<br>C. Check and repair mechanical part.<br>D. Replace control board.<br>E. Replace wiring.<br>F. Replace motor. |
| 4. E2 Flash                               | A. Hall component on locating board damaged.<br>B. Wiring of locating board with control board fails to work.<br>C. Control board is faulty.   | A. Replace locating board.<br>B. Replace wiring.<br>C. Replace control board.  |
| 5. E3 or E4 Flash                         | A. Control board is faulty.  | A. Replace control board.  |

# MODEL: F71B/F71G/F67C/F67G/F75A/F75B

## 3.7. Assembly & Parts

### F71B (53502) Valve Body Assembly



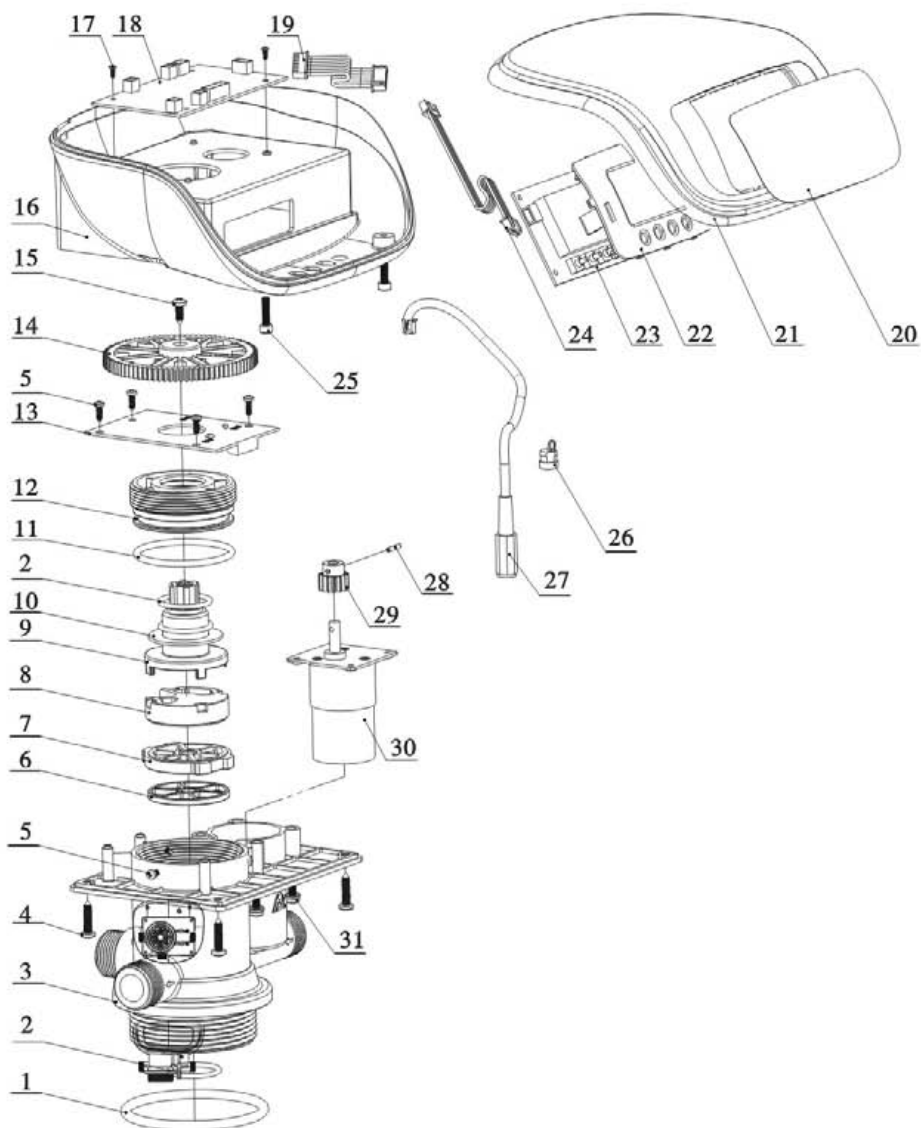
**MODEL: F71B/F71G/F67C/F67G/F75A/F75B****F71B ( 53502 ) Valve Body Components**

| Item No. | Description              | Part Number | Quantity | Item No. | Description              | Part Number | Quantity |
|----------|--------------------------|-------------|----------|----------|--------------------------|-------------|----------|
| 1        | O-ring 73 × 5.3          | 8378143     | 1        | 15       | Screw, Cross ST3.9 × 13  | 8909013     | 1        |
| 2        | O-ring 25.8 × 2.65       | 8378078     | 1        | 16       | Wire for Power           | 5513001     | 1        |
| 3        | Valve Body (ABS+GF10)    | 8022048     | 1        | 17       | Cable Clip               | 8126004     | 1        |
|          | Valve Body (PPO+GF20)    | 8022049     |          | 18       | Dust Cover               | 8005005     | 1        |
| 4        | Screw, Cross ST3.9 × 16  | 8909016     | 4        | 19       | Screw, Cross ST2.2 × 6.5 | 8909004     | 2        |
| 5        | Screw, Cross ST2.9 × 9.5 | 8909008     | 7        | 20       | Control Board            | 6382003     | 1        |
| 6        | Sealing Ring             | 8370038     | 1        | 21       | Wire for Locating Board  | 5511001     | 1        |
| 7        | Moving Disk              | 8469018     | 1        | 22       | Wire for Display Board   | 5512001     | 1        |
| 8        | Fixed Disk               | 8459019     | 1        | 23       | Display Board            | 6381003     | 1        |
| 9        | Shaft                    | 8258009     | 1        | 24       | Front Cover              | 8300004     | 1        |
| 10       | Anti-friction Washer     | 8216010     | 1        | 25       | Label                    | 8865004     | 1        |
| 11       | O-ring 50.39 × 3.53      | 8378107     | 1        | 26       | Pin Φ2.5 × 12            | 8993003     | 1        |
| 12       | Fitting Nut              | 8092007     | 1        | 27       | Small Gear, Motor        | 8241010     | 1        |
| 13       | Locating Board           | 6380009     | 1        | 28       | Motor                    | 6158006     | 1        |
| 14       | Big Gear, Driven         | 5241005     | 1        | 29       | Screw, Cross M4 × 25     | 8902008     | 4        |



**MODEL: F71B/F71G/F67C/F67G/F75A/F75B**

**F71G (53502B) Valve Body Assembly**



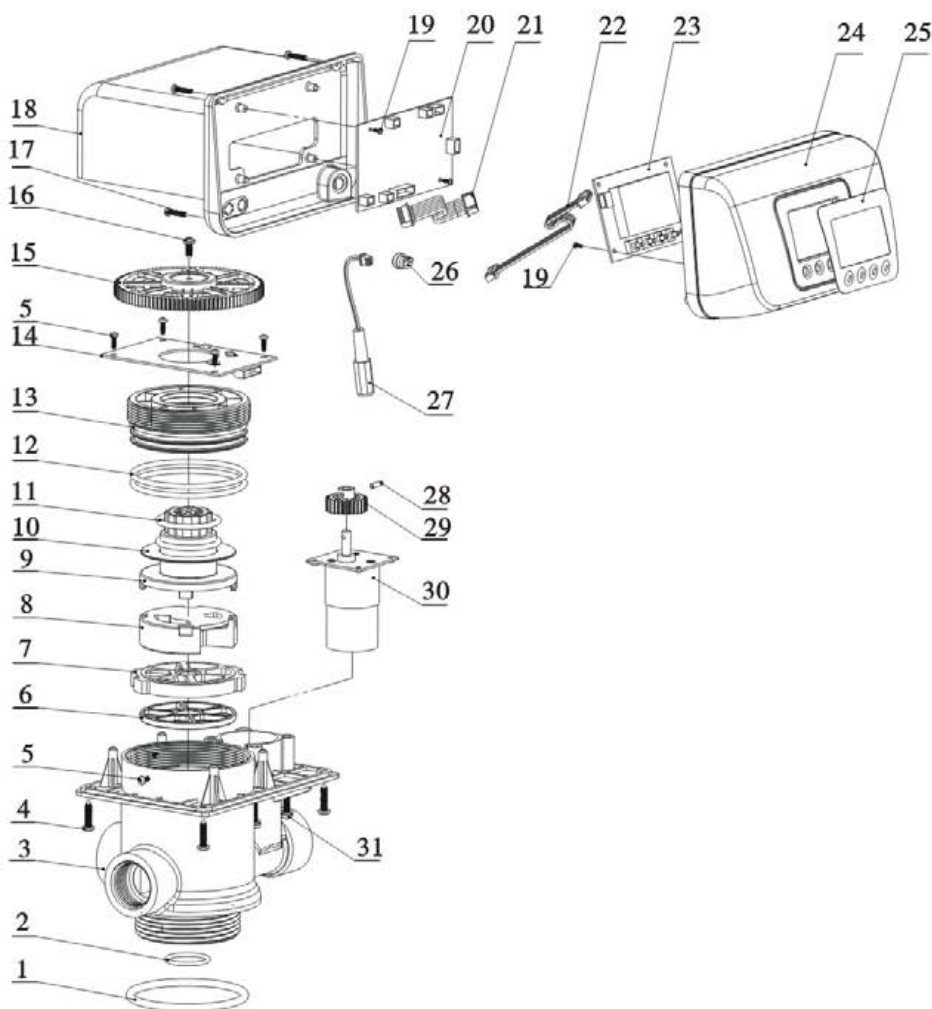
MODEL: F71B/F71G/F67C/F67G/F75A/F75B

## F71G (53502B) Valve Body Components

| Item No. | Description                 | Part Number | Quantity | Item No. | Description                 | Part Number | Quantity |
|----------|-----------------------------|-------------|----------|----------|-----------------------------|-------------|----------|
| 1        | O-ring 73 × 5.3             | 8378143     | 1        | 16       | Dust Cover                  | 8005020     | 1        |
| 2        | O-ring 25.8 × 2.65          | 8378078     | 1        | 17       | Screw, Cross<br>ST2.2 × 6.5 | 8909004     | 2        |
| 3        | Valve Body<br>(ABS+GF10)    | 8022048     | 1        | 18       | Control Board               | 6382003     | 1        |
|          | Valve Body<br>(PPO+GF20)    | 8022049     |          | 19       | Wire for<br>Locating Board  | 5511001     | 1        |
| 4        | Screw, Cross<br>ST3.9 × 16  | 8909016     | 4        | 20       | Label                       | 8865021     | 1        |
| 5        | Screw, Cross<br>ST2.9 × 9.5 | 8909008     | 7        | 21       | Front Cover                 | 8300702     | 1        |
| 6        | Sealing Ring                | 8370038     | 1        | 22       | Toggle                      | 8109028     | 1        |
| 7        | Moving Disk                 | 8469018     | 1        | 23       | Display Board               | 6381003     | 1        |
| 8        | Fixed Disk                  | 8459019     | 1        | 24       | Wire for Display<br>Board   | 5512001     | 1        |
| 9        | Shaft                       | 8258009     | 1        | 25       | UBK M4 × 16                 | 8902016     | 2        |
| 10       | Anti-friction Washer        | 8216010     | 1        | 26       | Cable Clip                  | 8126004     | 1        |
| 11       | O-ring<br>50.39 × 3.53      | 8378107     | 1        | 27       | Wire for Power              | 5513001     | 1        |
| 12       | Fitting Nut                 | 8092007     | 1        | 28       | Pin Φ2.5 × 12               | 8993003     | 1        |
| 13       | Locating Board              | 6380009     | 1        | 29       | Small Gear, Motor           | 8241010     | 1        |
| 14       | Big Gear, Driven            | 5241005     | 1        | 30       | Motor                       | 6158006     | 1        |
| 15       | Screw, Cross<br>ST3.9 × 13  | 8909013     | 1        | 31       | Screw, Cross<br>M4 × 25     | 8902008     | 4        |

# MODEL: F71B/F71G/F67C/F67G/F75A/F75B

## F67C ( 53504 ) Valve Body Assembly



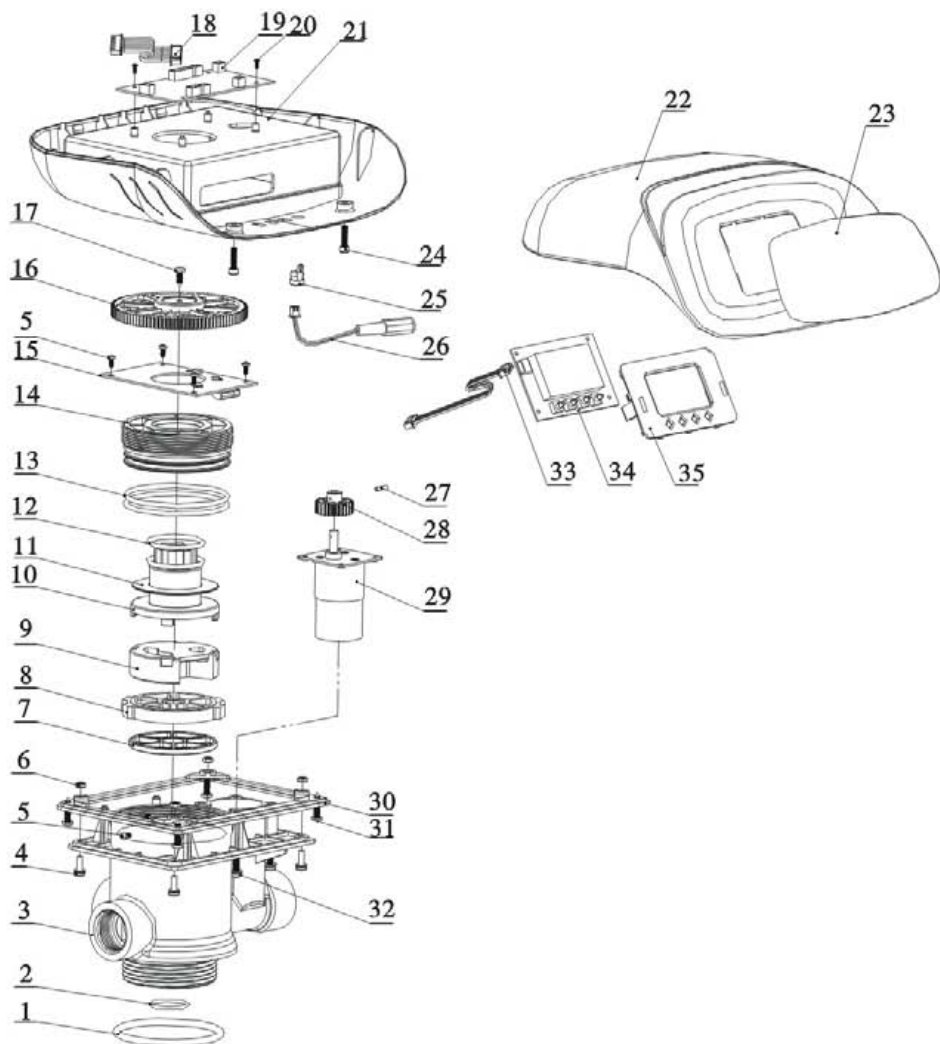
MODEL: F71B/F71G/F67C/F67G/F75A/F75B

F67C (53504) Valve Body Components

| Item No. | Description              | Part Number | Quantity | Item No. | Description              | Part Number | Quantity |
|----------|--------------------------|-------------|----------|----------|--------------------------|-------------|----------|
| 1        | O-ring 73 × 5.3          | 8378143     | 1        | 16       | Screw, Cross ST3.9 × 13  | 8909013     | 1        |
| 2        | O-ring 25.8 × 2.65       | 8378078     | 1        | 17       | Screw, Cross ST2.9 × 16  | 8909010     | 4        |
| 3        | Valve Body (ABS+GF10)    | 8022039     | 1        | 18       | Dust Cover               | 8005006     | 1        |
|          | Valve Body (PPO+GF20)    | 8022040     |          | 19       | Screw, Cross ST2.2 × 6.5 | 8909004     | 4        |
| 4        | Screw, Cross ST3.9 × 16  | 8909016     | 4        | 20       | Control Board            | 6382003     | 1        |
| 5        | Screw, Cross ST2.9 × 9.5 | 8909008     | 7        | 21       | Wire for Locating Board  | 5511001     | 1        |
| 6        | Sealing Ring             | 8370027     | 1        | 22       | Wire for Display Board   | 5512001     | 1        |
| 7        | Moving Disk              | 8469013     | 1        | 23       | Display Board            | 6381003     | 1        |
| 8        | Fixed Disk               | 8459014     | 1        | 24       | Front Cover              | 8300001     | 1        |
| 9        | Shaft                    | 8258004     | 1        | 25       | Label                    | 8865002     | 1        |
| 10       | Anti-friction Washer     | 8216004     | 1        | 26       | Cable Clip               | 8126004     | 1        |
| 11       | O-ring 37.7 × 3.55       | 8378119     | 2        | 27       | Wire for Power           | 5513001     | 1        |
| 12       | O-ring 73 × 3.55         | 8378128     | 2        | 28       | Pin $\Phi$ 2.5 × 12      | 8993003     | 1        |
| 13       | Fitting Nut              | 8092004     | 1        | 29       | Small Gear, Motor        | 8241003     | 1        |
| 14       | Locating Board           | 6380004     | 1        | 30       | Motor                    | 6158021     | 1        |
| 15       | Big Gear, Driven         | 5241002     | 1        | 31       | Screw, Cross M4 × 30     | 8902009     | 4        |

# MODEL: F71B/F71G/F67C/F67G/F75A/F75B

## F67G (53504B) Valve Body Assembly



MODEL: F71B/F71G/F67C/F67G/F75A/F75B

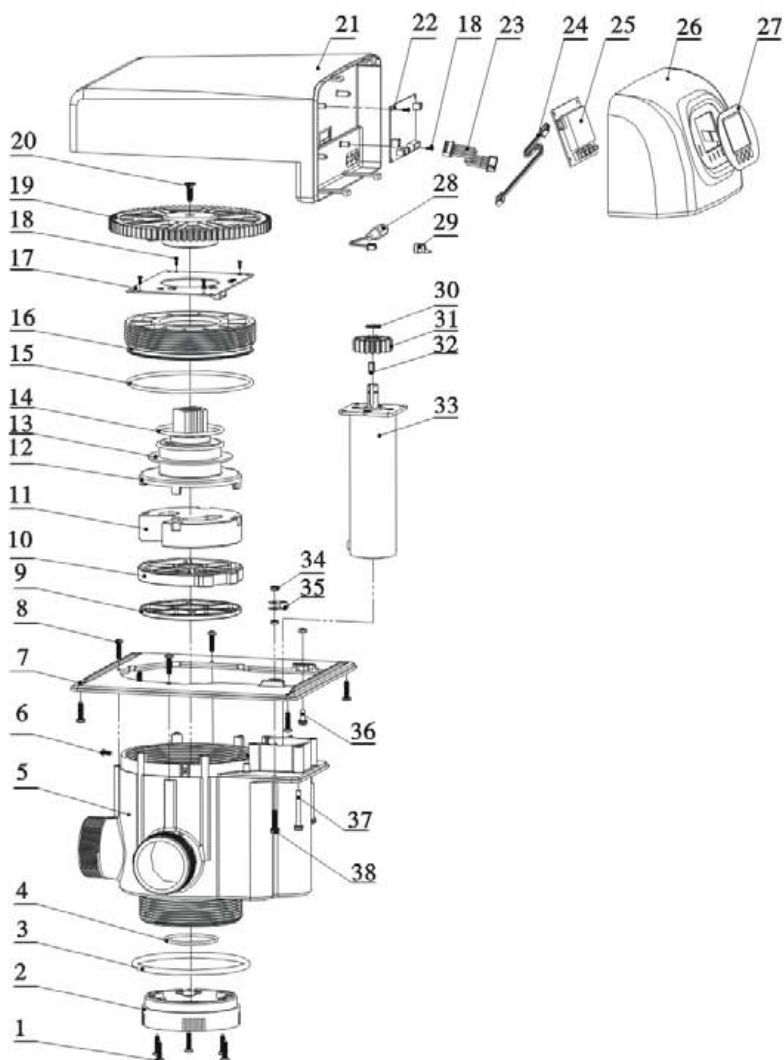
F67G (53504B) Valve Body Components

| Item No. | Description              | Part Number | Quantity | Item No. | Description              | Part Number | Quantity |
|----------|--------------------------|-------------|----------|----------|--------------------------|-------------|----------|
| 1        | O-ring 73 × 5.3          | 8378143     | 1        | 17       | Screw, Cross ST3.9 × 13  | 8909013     | 1        |
| 2        | O-ring 25.8 × 2.65       | 8378078     | 1        | 18       | Wire for Locating Board  | 5511001     | 1        |
| 3        | Valve Body (ABS+GF10)    | 8022039     | 1        | 19       | Control Board            | 6382003     | 1        |
|          | Valve Body (PPO+GF20)    | 8022040     |          | 20       | Screw, Cross ST2.2 × 6.5 | 8909004     | 2        |
| 4        | Screw, Cross M4 × 12     | 8902005     | 4        | 21       | Dust Cover               | 8005019     | 1        |
| 5        | Screw, Cross ST2.9 × 9.5 | 8909008     | 7        | 22       | Front Cover              | 5300001     | 1        |
| 6        | Hexagonal Nut            | 8940002     | 4        | 23       | Label                    | 8865020     | 1        |
| 7        | Sealing Ring             | 8370027     | 1        | 24       | UBK M4 × 16              | 8902016     | 2        |
| 8        | Moving Disk              | 8469013     | 1        | 25       | Cable Clip               | 8126004     | 1        |
| 9        | Fixed Disk               | 8459014     | 1        | 26       | Wire for Power           | 5513001     | 1        |
| 10       | Shaft                    | 8258004     | 1        | 27       | Pin Φ2.5 × 12            | 8993003     | 1        |
| 11       | Anti-friction Washer     | 8216004     | 1        | 28       | Small Gear, Motor        | 8241003     | 1        |
| 12       | O-ring 37.7 × 3.55       | 8378119     | 2        | 29       | Motor                    | 6158021     | 1        |
| 13       | O-ring 73 × 3.55         | 8378128     | 2        | 30       | Connecting Plate         | 8152014     | 1        |
| 14       | Fitting Nut              | 8092004     | 1        | 31       | Screw, Cross ST3.9 × 16  | 8909016     | 4        |
| 15       | Locating Board           | 6380004     | 1        | 32       | Screw, Cross M4 × 30     | 8902009     | 4        |
| 16       | Big Gear, Driven         | 5241002     | 1        |          |                          |             |          |



# MODEL: F71B/F71G/F67C/F67G/F75A/F75B

## F75A (53510) Valve Body Assembly:



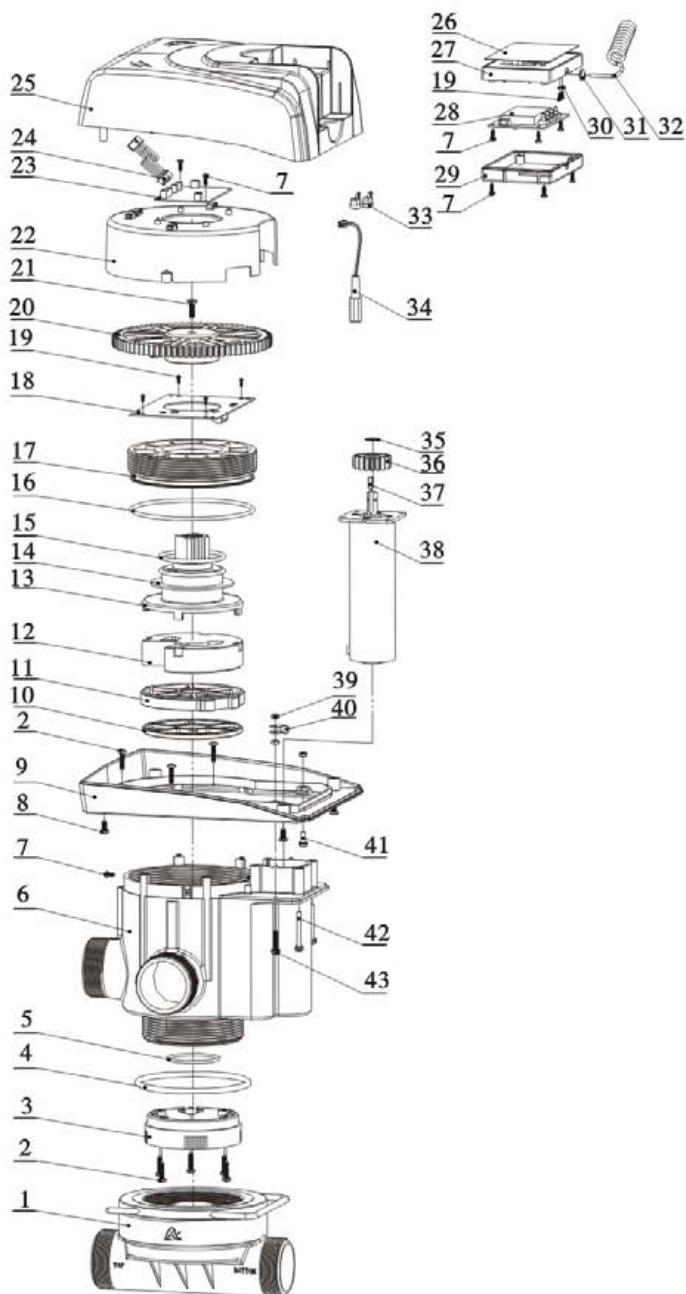
**MODEL: F71B/F71G/F67C/F67G/F75A/F75B**

**F75A ( 53510 ) Valve Body Components**

| Item No. | Description              | Part Number | Quantity | Item No. | Description             | Part Number | Quantity |
|----------|--------------------------|-------------|----------|----------|-------------------------|-------------|----------|
| 1        | Screw, Cross ST3.9 × 19  | 8909003     | 5        | 20       | Screw, Cross ST4.8 × 19 | 8909018     | 1        |
| 2        | Connector                | 8458018     | 1        | 21       | Dust Cover              | 8005010     | 1        |
| 3        | O-ring 104.6 × 5.7       | 8378146     | 1        | 22       | Control Board           | 6382027     | 1        |
| 4        | O-ring 48.9 × 2.62       | 8378071     | 1        | 23       | Wire for Locating Board | 5511002     | 1        |
| 5        | Valve Body (ABS+GF10)    | 8022055     | 1        | 24       | Wire for Display Board  | 5512001     | 1        |
|          | Valve Body (PPO+GF10)    | 8022056     |          |          |                         |             |          |
| 6        | Screw, Cross ST2.9 × 9.5 | 8909008     | 3        | 25       | Display Board           | 6381003     | 1        |
| 7        | Connecting Plate         | 8152007     | 1        | 26       | Front Cover             | 8300017     | 1        |
| 8        | Screw, Cross ST3.9 × 16  | 8909016     | 7        | 27       | Label                   | 8865016     | 1        |
| 9        | Sealing Ring             | 8370014     | 1        | 28       | Wire for Power          | 5513001     | 1        |
| 10       | Moving Disk              | 8469009     | 1        | 29       | Cable Clip              | 8126004     | 1        |
| 11       | Fixed Disk               | 8459022     | 1        | 30       | Circlip                 | 8994009     | 1        |
| 12       | Shaft                    | 8258005     | 1        | 31       | Small Gear, Motor       | 8241008     | 1        |
| 13       | Anti-friction Washer     | 8216006     | 1        | 32       | Bolt C4 × 12            | 8971001     | 1        |
| 14       | O-ring 59.92 × 3.53      | 8378110     | 2        | 33       | Motor                   | 6158037     | 1        |
| 15       | O-ring 117.6 × 3.55      | 8378133     | 1        | 34       | Hexagonal Nut           | 8940002     | 3        |
| 16       | Fitting Nut              | 8092005     | 1        | 35       | Cable Clip              | 8126002     | 1        |
| 17       | Locating Board           | 6380016     | 1        | 36       | Screw, Cross M4 × 12    | 8902005     | 1        |
| 18       | Screw, Cross ST2.2 × 6.5 | 8909004     | 6        | 37       | Screw, Cross M4 × 36.5  | 8902012     | 4        |
| 19       | Big Gear, Driven         | 5241014     | 1        | 38       | Screw, Cross M4 × 20    | 8902007     | 1        |
|          |                          |             |          |          |                         |             |          |

# MODEL: F71B/F71G/F67C/F67G/F75A/F75B

## F75B ( 53510B ) Valve Body Assembly



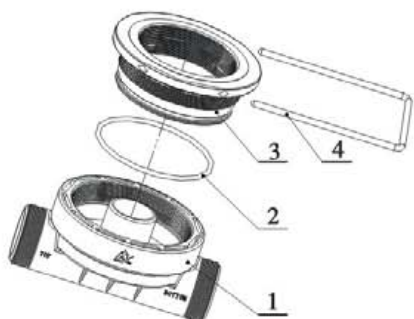
**MODEL: F71B/F71G/F67C/F67G/F75A/F75B**

**F75B ( 53510B ) Valve Body Components**

| Item No. | Description              | Part Number | Quantity | Item No. | Description             | Part Number | Quantity |
|----------|--------------------------|-------------|----------|----------|-------------------------|-------------|----------|
| 1        | Side-mounted Connector   | 5458002     | 1        | 22       | Fixing Seat             | 8109004     | 1        |
| 2        | Screw, Cross ST3.9 × 19  | 8909003     | 8        | 23       | Locating Board          | 6382027     | 1        |
| 3        | Connector                | 8458018     | 1        | 24       | Wire for Locating Board | 5511002     | 1        |
| 4        | O-ring 104.6 × 5.7       | 8378146     | 1        | 25       | Dust Cover              | 8005023     | 1        |
| 5        | O-ring 48.9 × 2.62       | 8378071     | 1        | 26       | Label                   | 8865023     | 1        |
| 6        | Valve Body (ABS+GF10)    | 8022055     | 1        | 27       | Front Cover             | 8300025     | 1        |
|          | Valve Body (PPO+GF10)    | 8022056     |          | 28       | Display Board           | 6381003     | 1        |
| 7        | Screw, Cross ST2.9 × 9.5 | 8909008     | 15       | 29       | Cover                   | 8315016     | 1        |
| 8        | Screw, Cross ST3.9 × 13  | 8909013     | 4        | 30       | Cable Clip              | 8126001     | 1        |
| 9        | Connecting Plate         | 8152012     | 1        | 31       | Bushings                | 8126006     | 1        |
| 10       | Sealing Ring             | 8370014     | 1        | 32       | Spring Wire             | 5517001     | 1        |
| 11       | Fixed Disk               | 8469009     | 1        | 33       | Cable Clip              | 8126004     | 2        |
| 12       | Moving Disk              | 8459022     | 1        | 34       | Wire for Power          | 5513001     | 1        |
| 13       | Shaft                    | 8258005     | 1        | 35       | Circlip                 | 8994009     | 1        |
| 14       | Anti-friction Washer     | 8216006     | 1        | 36       | Small Gear, Motor       | 8241008     | 1        |
| 15       | O-ring 59.92 × 3.53      | 8378110     | 2        | 37       | Bolt C4 × 12            | 8971001     | 1        |
| 16       | O-ring 117.6 × 3.55      | 8378133     | 1        | 38       | Motor                   | 6158037     | 1        |
| 17       | Fitting Nut              | 8092005     | 1        | 39       | Hexagonal Nut           | 8940002     | 3        |
| 18       | Locating Board           | 6380016     | 1        | 40       | Cable Clip              | 8126002     | 1        |
| 19       | Screw, Cross ST2.2 × 6.5 | 8909004     | 6        | 41       | Screw, Cross M4 × 12    | 8902005     | 1        |
| 20       | Big Gear, Driven         | 5241014     | 1        | 42       | Screw, Cross M4 × 36.5  | 8902012     | 4        |
| 21       | Screw, Cross ST4.8 × 19  | 8909018     | 1        | 43       | Screw, Cross M4 × 20    | 8902007     | 1        |

**MODEL: F71B/F71G/F67C/F67G/F75A/F75B**

**5458002 Side-mounted Connector Body Assembly**



**5458002 Side-mounted Connector Body Components**


| Item No. | Description       | Part Number | Quantity | Item No. | Description | Part Number | Quantity |
|----------|-------------------|-------------|----------|----------|-------------|-------------|----------|
| 1        | Connection        | 8458037     | 1        | 3        | Connector   | 8457017     | 1        |
| 2        | O-ring<br>110×4.5 | 8378140     | 1        | 4        | Steel Fork  | 8271003     | 1        |

## 4. Warranty Card

Dear client:

This warranty card is the guarantee proof of RUNXIN brand multi-functional flow control valve. It is kept by client self. You could get the after-sales services from the supplier which is appointed by RUNXIN manufacturer. Please keep it properly. It couldn't be retrieved if lost. It couldn't be repaired free of charge under the below conditions:

1. Guarantee period expired.(One year);
2. Damage resulting from using, maintenance, and keeping that are not in accordance with the instruction;
3. Damage resulting from repairing not by the appointed maintenance personnel;
4. Content in guarantee proof is unconfirmed with the label on the real good or be altered;
5. Damage resulting from force majeure.

|                       |   |  |  |                           |  |
|-----------------------|---|--|--|---------------------------|--|
| Product Name          |  | Multi-functional Flow Control Valve<br>for Water Treatment Systems |  |                           |  |
| Model                 |   | Code of Valve Body   |  |                           |  |
| Purchase Company Name |   | Tel/Cel.   |  |                           |  |
| Problem               |   |  |  |                           |  |
| Solution              |   |  |  |                           |  |
| Date of Repairing     |   | Date of Accomplishment   |  | Maintenance Man Signature |  |

When product need warranty service, please fill in the below content and sent this card together with the product to the appointed suppliers or Runxin company.

|                       |          |                 |     |   |     |  |
|-----------------------|----------|-----------------|-----|---|-----|--|
| End-user Company Name |          |                 |     | Tel/Cel.  |     |  |
| Purchase Company Name |          |                 |     | Tel/Cel.  |     |  |
| Model                 |          |                 |     | Code of Valve Body  |     |  |
| Tank Size $\phi$      | $\times$ | Filter Material | Kg  | Water Source:<br>Ground-water <input type="checkbox"/> Tap Water <input type="checkbox"/> |     |  |
| Service Time          | D or h   | Backwash Time   | min | Fast Rinse Time   | min |  |
| Problem Description   |          |                 |     |   |     |  |





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**WENZHOU RUNXIN MANUFACTURING MACHINE CO.,LTD**

ADD: Jinger Road, Shatou Group, Linjiang, Lucheng District, Wenzhou, Zhejiang, China

Tel: +86-577-88635628 88630038 Fax: +86-0577-88633258

Http://www.run-xin.com Email:sales@run-xin.com