

3P+

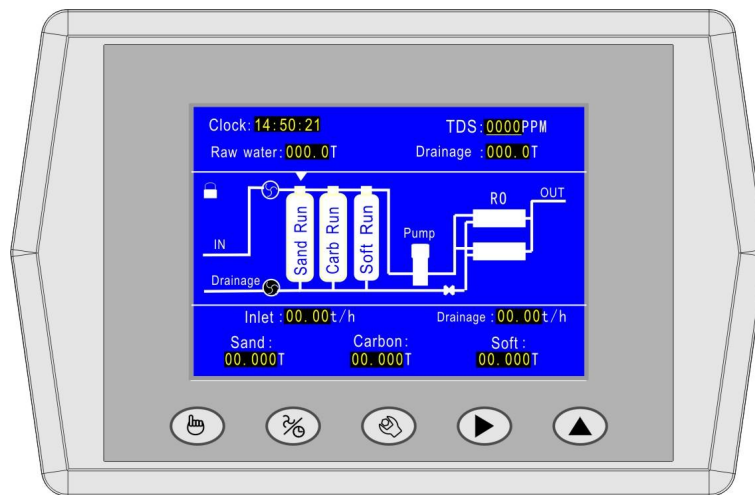
WATER PURIFIER CONTROL SYSTEM



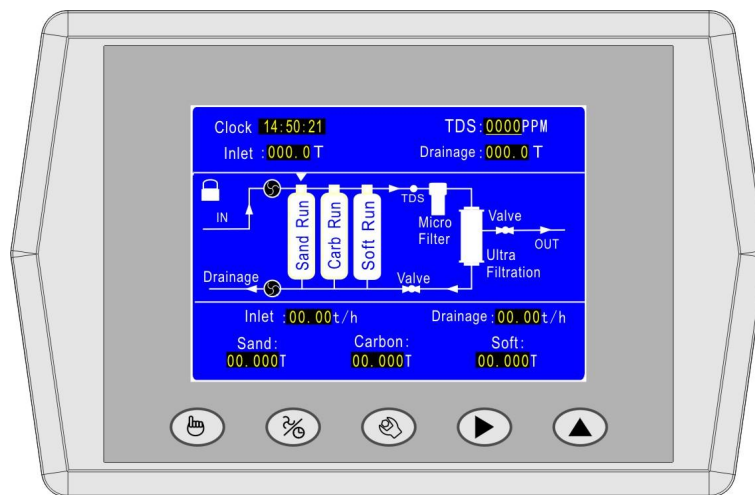
Scan Qr code for the latest



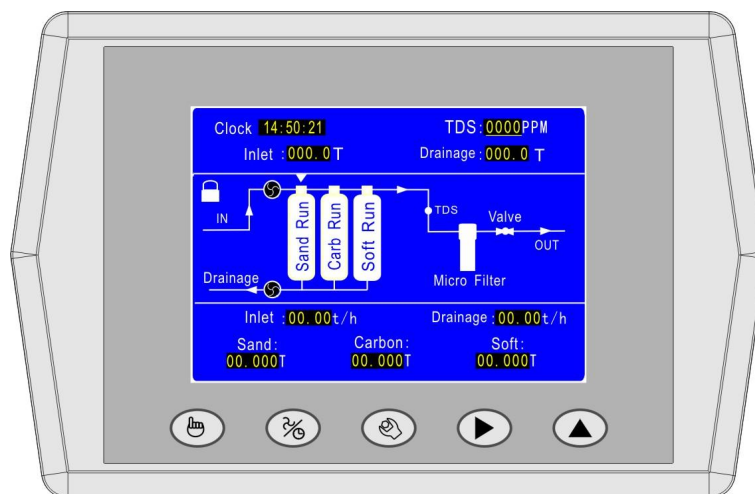
I、System display and operation



Pic1 : 3P+RO System display



Pic2 : 3P+Ultra System display



Pic3 : 3P+Pre-Filtration System display

(1) The operation button:

: Manual switch; : Parameter setting; : Mode switch; : Move to the next digit;

: Plus 1

A、Unlock: Press ""&"" buttons at the same time, The key is unlocked, Displaying "" disappear

B、Lock: Automatic lock after 3 minutes without any operation.

C、"" Mode switch: Unlock state, the operation button in time mode "" and meter Mode "" display to switch between.

D、""

Manual switch: Unlock state, when pushing the button the valve (below) switch to next station. As shown in the figure, the **Sand Run** (sand filter valve) enters the **Sand B.wash** → **Sand Wash**. Press the "" button, "" move to the **Carbon Run**, Press the "" , switch the carbon filter valve to enter the **Carbon B.wash** and **Carbon B.wash** . Cycle in turn.

Forced backwash: "" button 6 times under the locked state, **Sand, Carbon, Soft**, enter backwash、Wash、Run → backwash、Wash、Run → Regen、Wash、Run.

E、"" Parameter setting: Unlock state, press the button and the screen will show the interface of setting parameters.

(2) Service display:

A, **Clock:** 14:50:21: Delay backwash function must be set.

B, **TDS: 0000 PPM** :Shows the salt content of pure water, unit PPM (the mass concentration of total salt content of pure water per million)

C, **Inlet: 0000.0T** Measured by the water inlet flow meter, including all the softening water flowing out of purifier, **B.wash** and **wash** drainage, subsequent RO membrane purified water and RO drainage. Inlet flow meter symbol "" rotates when water flows through it.

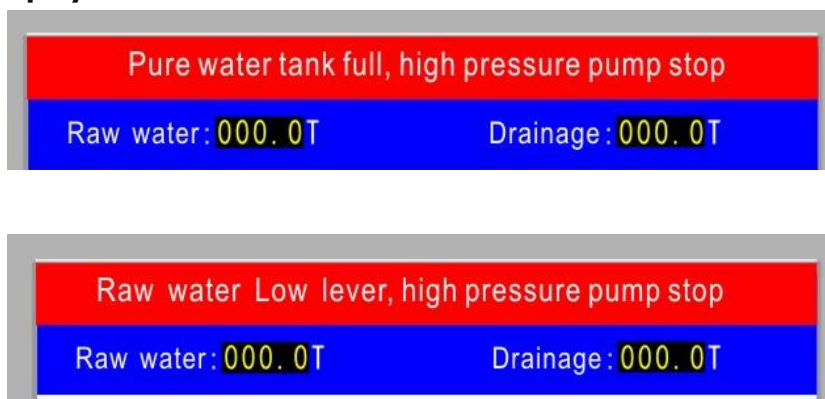
D, **Drainage: 0000.0T**: Total production of system drainage, the unit is tons, by the drainage flow meter measurement, drainage flow meter symbol "" rotates when water flows through it.

E, **Inlet : 00.00t/h** Flow rate of inlet water.

F. **Drainage: 00.00t/h** , All drainage water flow rate, it is adjusted by the drainage valve.

G, **Sand: 00.000T; Carbon: 00.000T; Soft: 00.000T** Respectively display the sand filter valve, carbon filter valve, soften valve current station parameters, decline state, to "0" automatic to shift next station.

H. **Sand Run, Carbon Run、Soft Run** Respectively show that the sand filter valve, carbon filter valve and soften valve are in the "**Run**" state. If one of these position is blank, it indicates that the position is missing one valve, or the connection of the valve is fault. When one of the valve is shifting station, the place display "**Translocation**" , when one of the valve is locating error, the place display "**Anomaly**"

(3) Red band display**Pic4 : Red band display**

The red band at the top of the screen shows the working state of the purifier at intervals, such as "pure water tank is full, high pressure pump stop", "low water pressure, high pressure pump stop."

(4) parameter setting

Push "▶ & ▲" To unlock (🔒 disappear)

Push ⏸ to Setting interface

Parameter setting

Station	Sand	Carbon	Resin
B. wash (L)	010	0010	0035
Wash (L)	0020	0025	0035
Run (T)	02.10	02.10	01.40
Wash. num	1	1	1

Push "⏸" To next page

Delay backwash setting

Clock:	14H	50M	21S
Delay:	03H	00M	01D

Push "⏸" To conform and exit

Pic5 : "⏸" parameter setting

Push "▶ & ▲" To unlock (🔒 disappear)

Push ⏸ to Setting interface

Parameter setting

Station	Sand	Carbon	Resin
B. wash (M)	010	0015	0030
Wash (M)	0008	0025	0040
Run (M)	0120	0150	0250
Wash. num	1	1	1

Push "⏸" To next page

Delay backwash setting

Clock:	14H	50M	21S
Delay:	03H	00M	01D

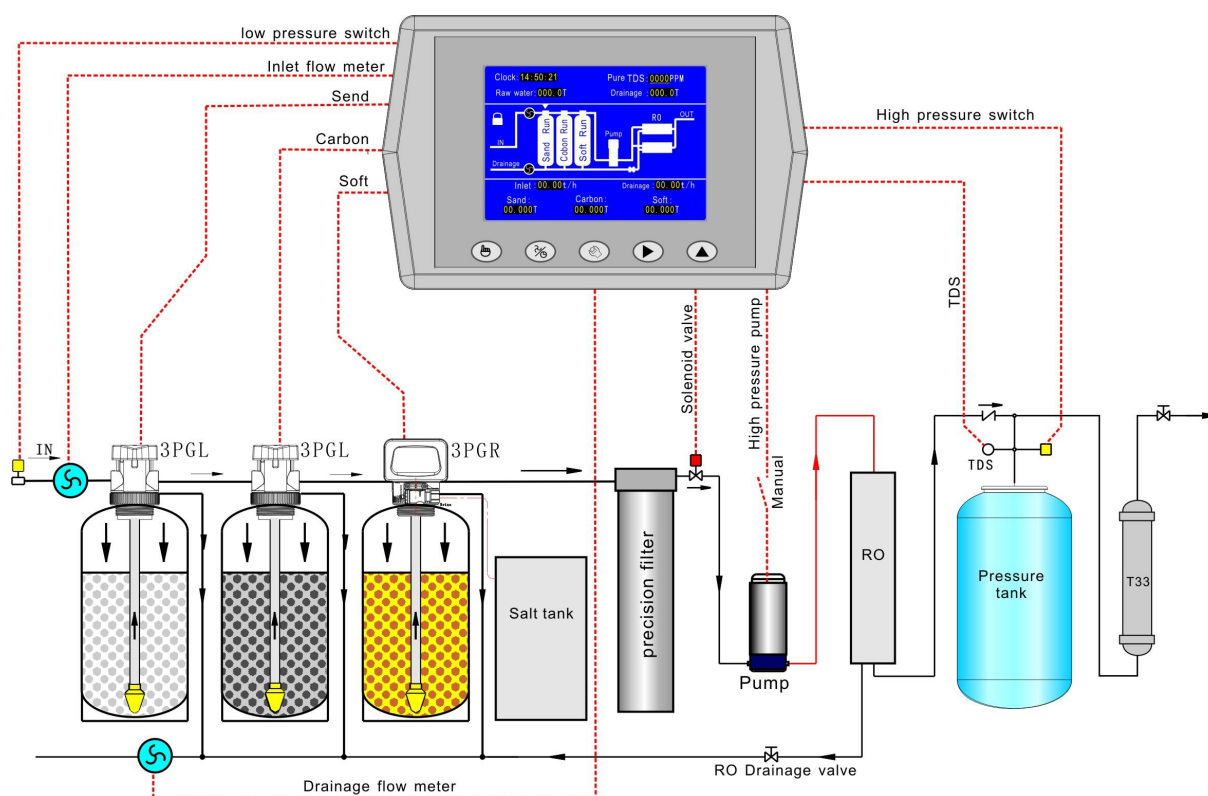
Push "⏸" To conform and exit

Pic6 : "⏸" Parameter setting

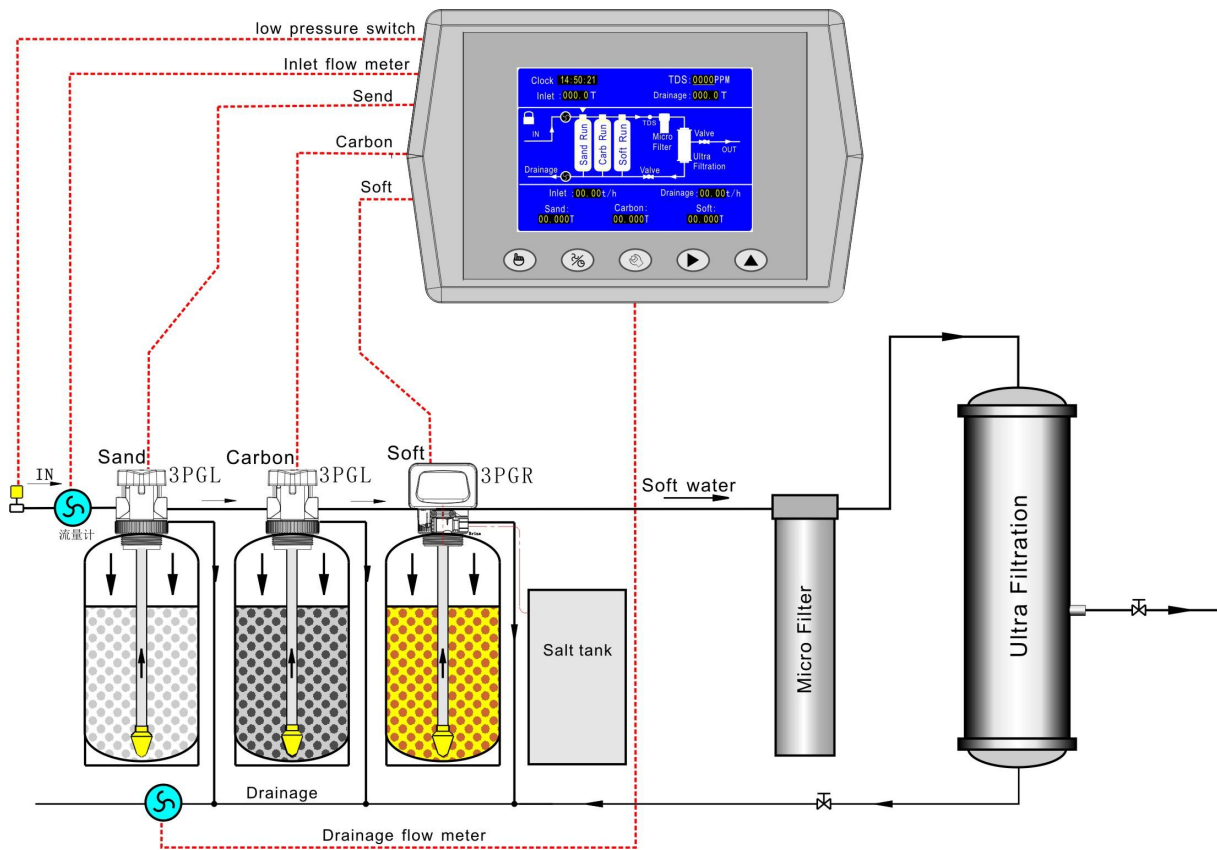
Parameter setting description:

In order to ensure constant water use, the default setting is "delay backwash". 03:00 is the time when water is least commonly used. When any of the sand filter, carbon filter and softening valves, the "Run" parameter decreases to "0", wait until 3am to switch to backwash.

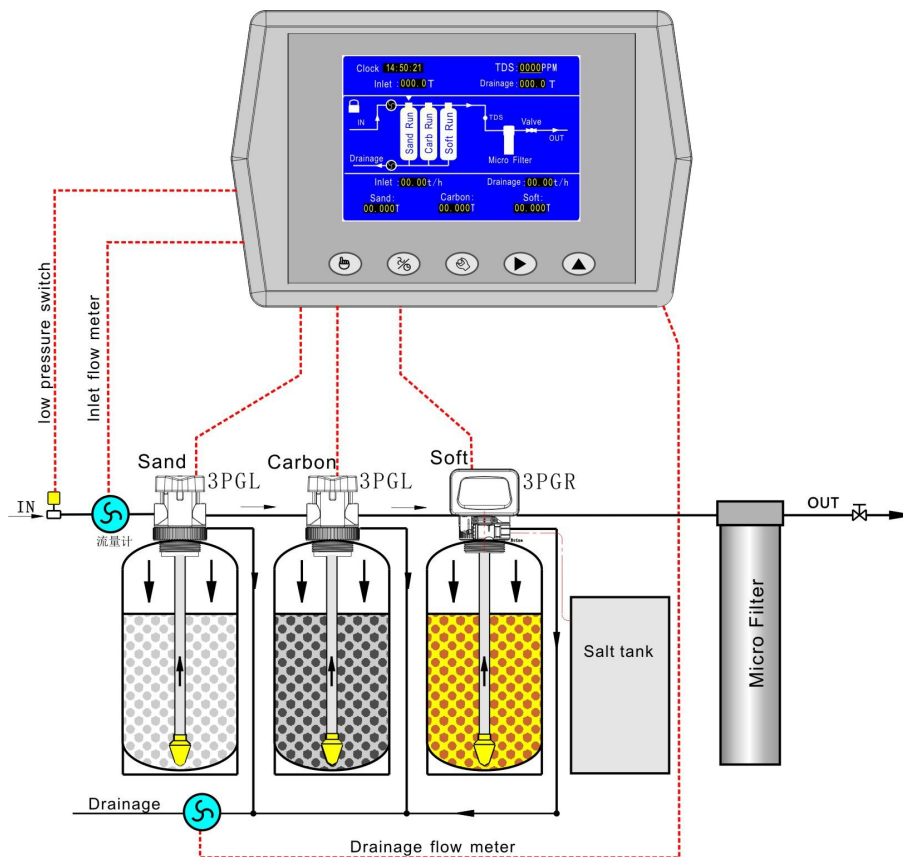
Parameters of sand filter, carbon filter and softening valves are in the form of lists.. **B.wash**, **Wash** and **Run** of the soften valve row correspond to **Regen**(salt absorption → Slow wash), **Wash** (Wash + water refill) and **Soft** respectively. For details about the rules for setting parameters of the softening valve, see **GR-2 manual**.

II Schematic diagram of operating principle

Pic7 : 3P+RO Schematic diagram of operation principle



Pic8 : 3P+Ultra filtration Schematic diagram of operation principle



Pic9 : 3P+Pre-Purify Schematic diagram of operation principle

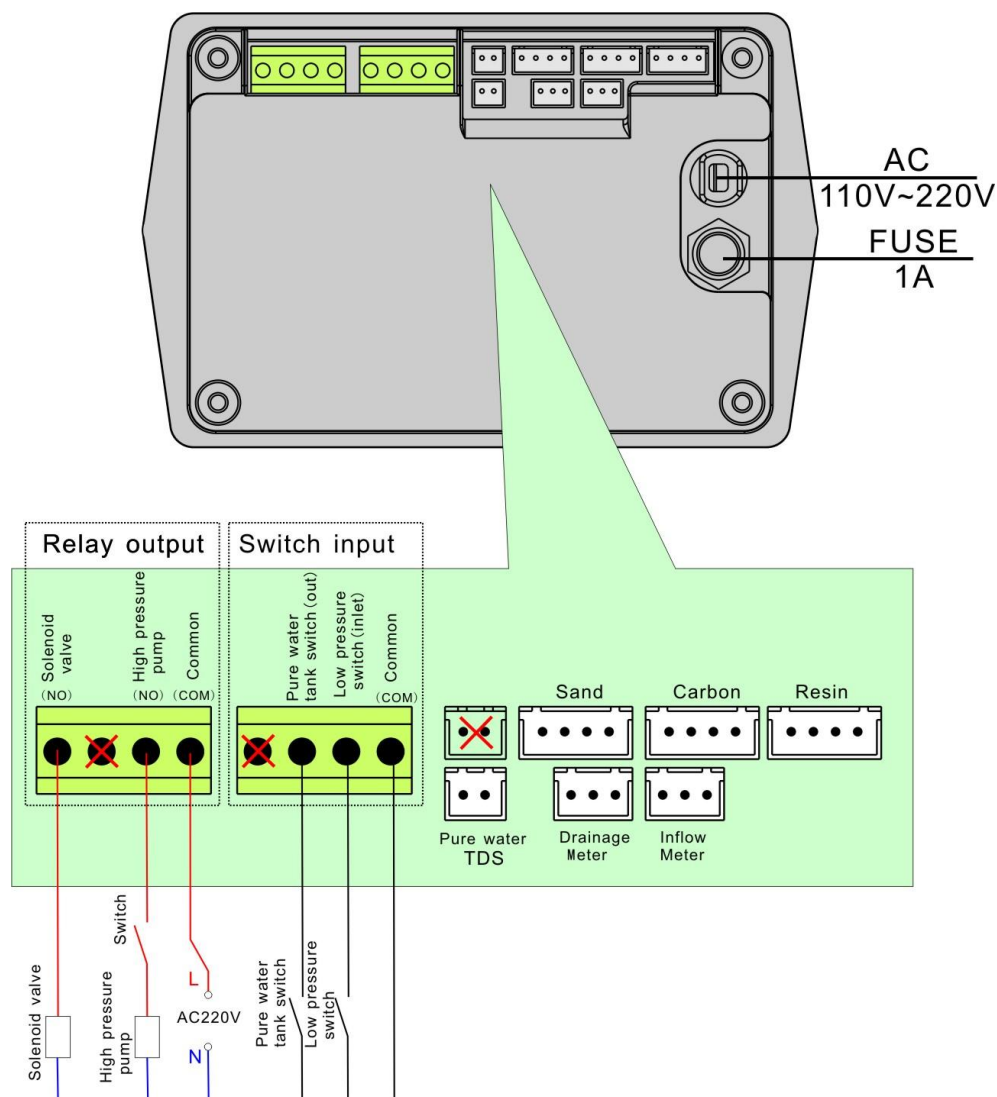
III. Debugging

(One-click operation)

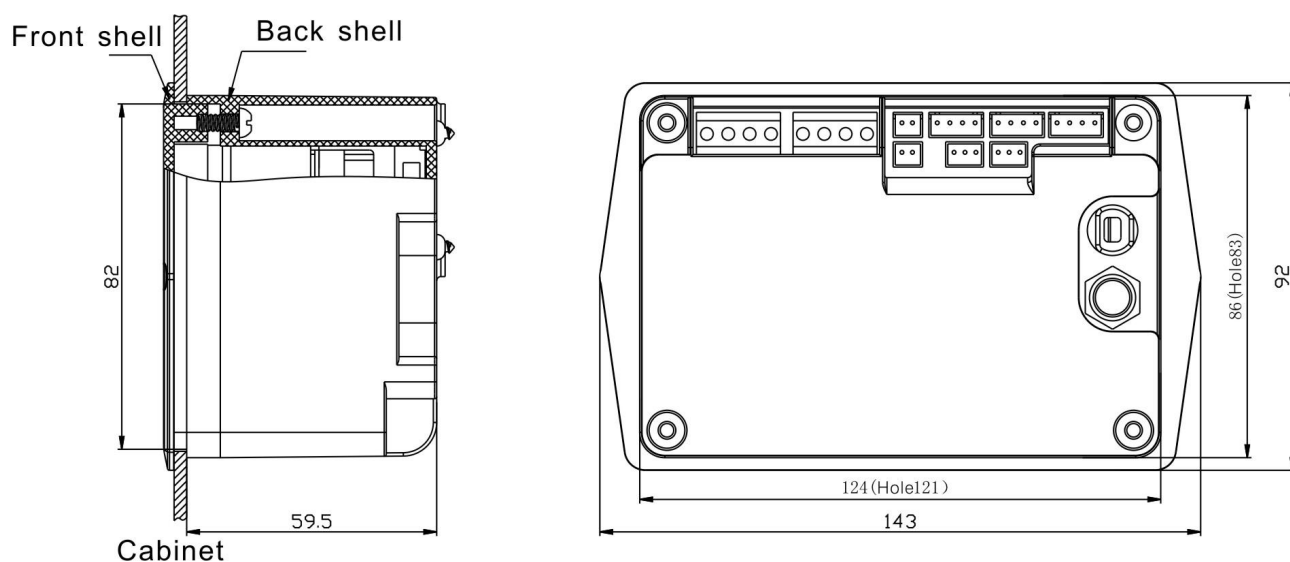
Forced backwash mode:

Press "⏻" button 6 times under the locked state, **Sand, carbon, soft**, and enter *B.wash*, *Wash*, *Run* → *B.wash*, *Wash*, *Run* → *Regen*, *Wash*, *Run*, the purpose is to filter tank water injection and exhaust, resin tank water injection and exhaust, salt tank water injection, filter material cleaning, resin cleaning, after the end of pretreatment, precision filter water injection, water pump and RO membrane system water injection, Until the pressure of the pure water system rises, the low pressure switch is connected, and the high pressure pump is working. Preparation of pure water begins.

IV. Controller back



Pic10 : 3P+Controller back Instruction

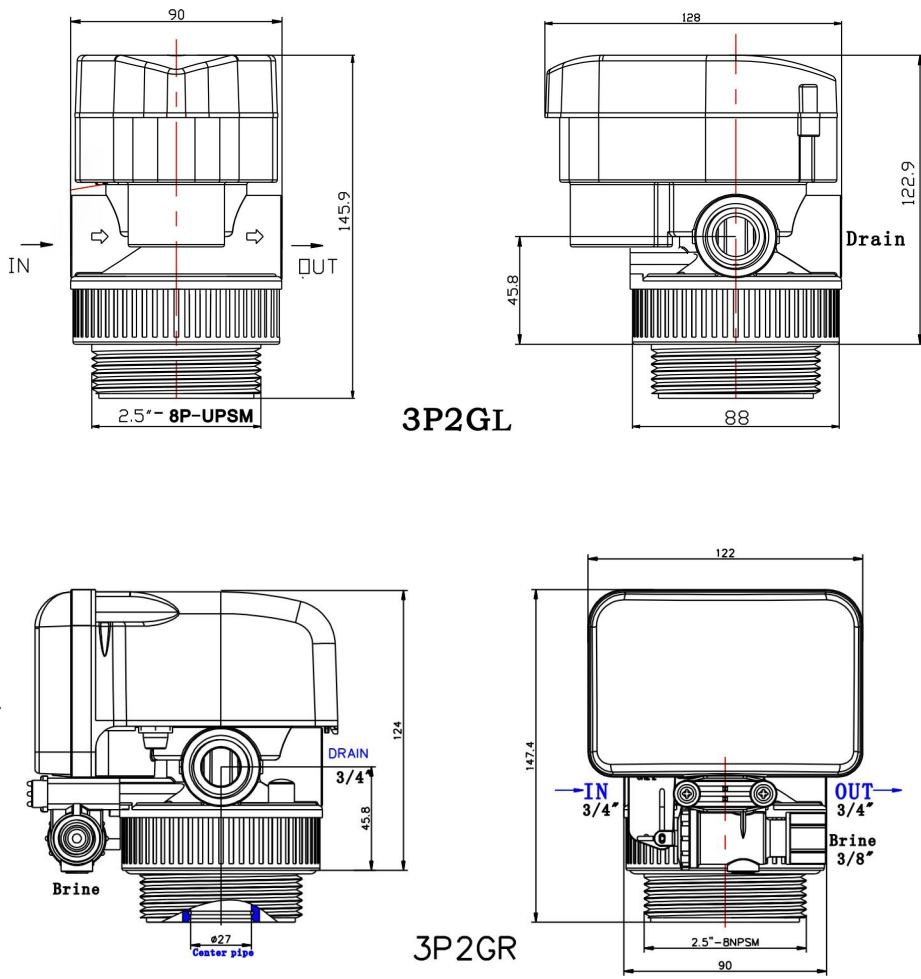


Pic11 : 3P+Controller geometric size and install

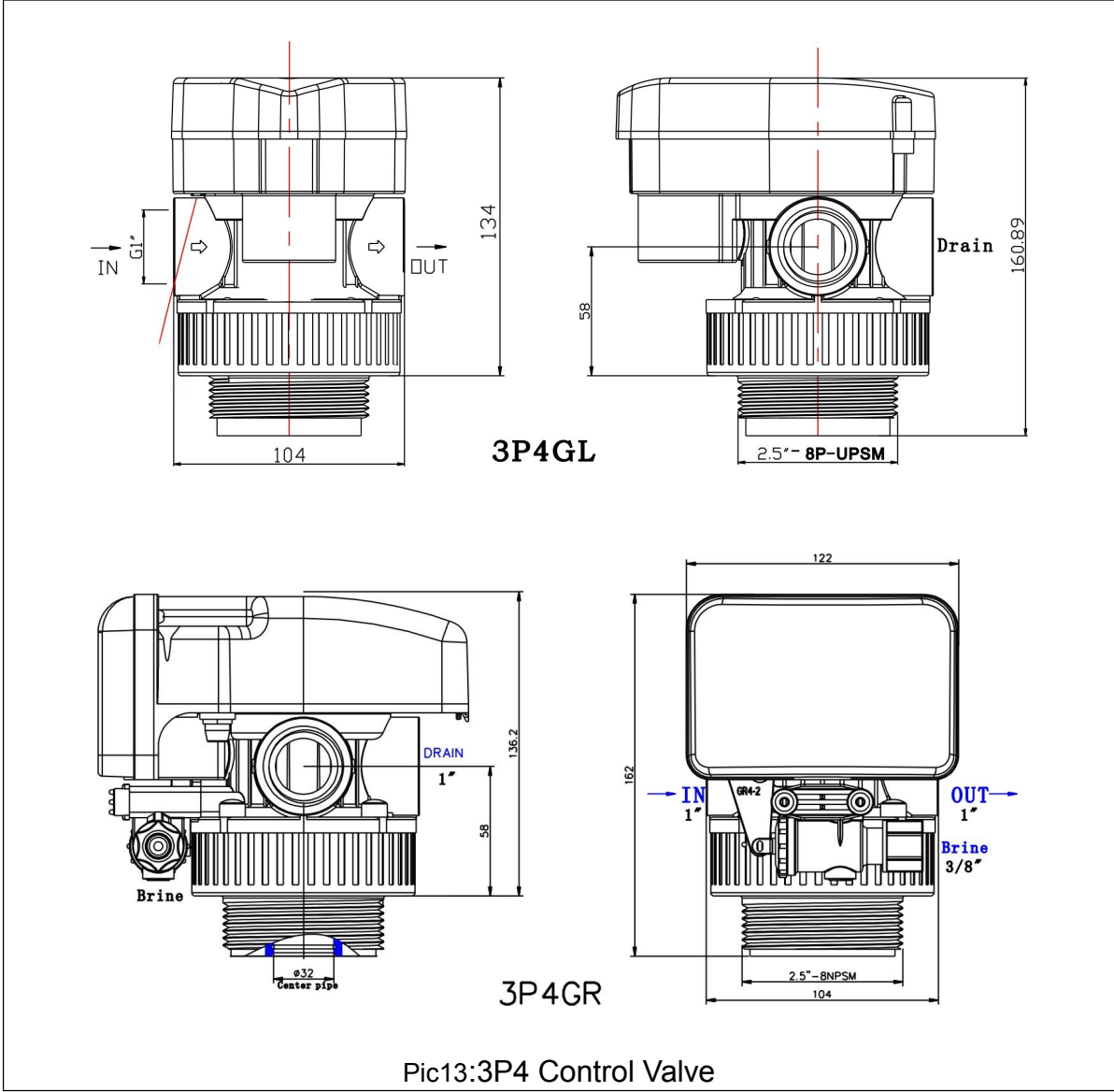
V、3P+ System Configuration,model and connected wire length to be customize :

System Model	3P2+RO(RO System)			3P4+RO(RO System)			3P10+RO(RO System)		
	3P2+ULTRA (Ultra filtration System)			3P4+ULTRA (Ultra filtration System)			3P10+ULTRA (Ultra filtration System)		
	3P2+(Pre-Purify System)			3P4+(Pre-Purify System)			3P10+(Pre-Purify System)		
Valve Port	G3/4"			G1"			G1½"		
Inlet meter	3/4" ,Wire length : _____ cm			1" ,Wire length : _____ cm			1.5" ,Wire length : _____ cm		
Drainage Meter	3/4" ,Wire length : _____ cm			1" ,Wire length : _____ cm			1.5" ,Wire length : _____ cm		
Valve Name	Sand	Carbon	Soft	Sand	Carbon	Soft	Sand	Carbon	Soft
Valve Model	3P2GL	3P2GL	3P2GR	3P4GL	3P4GL	3P4GR	3P10GL	3P10GL	3P10GR
Data cable length :	_____cm	_____cm	_____cm	_____cm	_____cm	_____cm	_____cm	_____cm	_____cm
Center pipe	26.7mmOD			32mmOD (E=26.7mmOD)			50mmOD		
Production	≤4t/h			3t/h~6t/h			6t/h~15t/h		

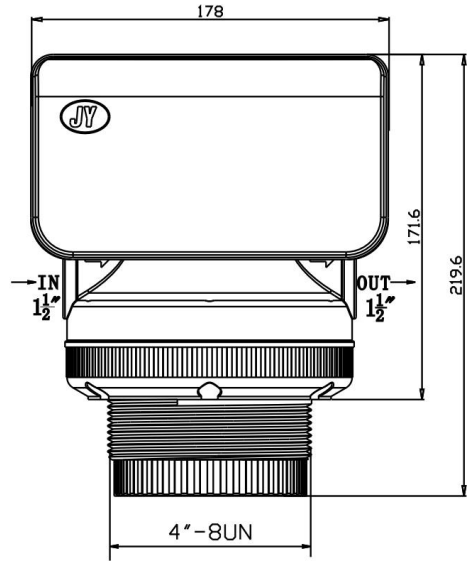
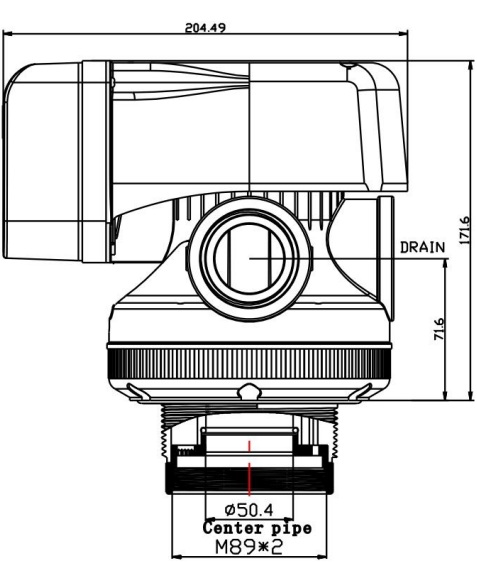
VI、Valve body geometric size



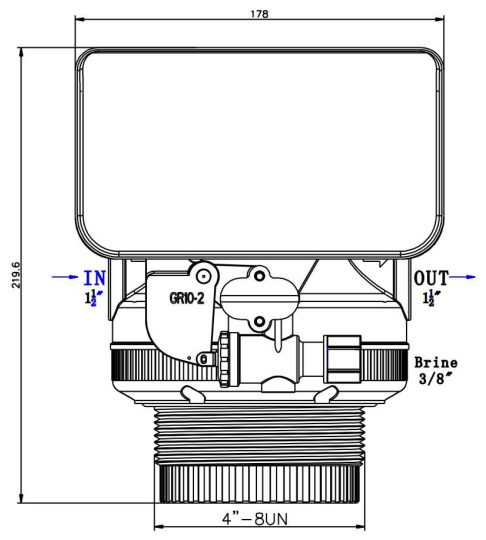
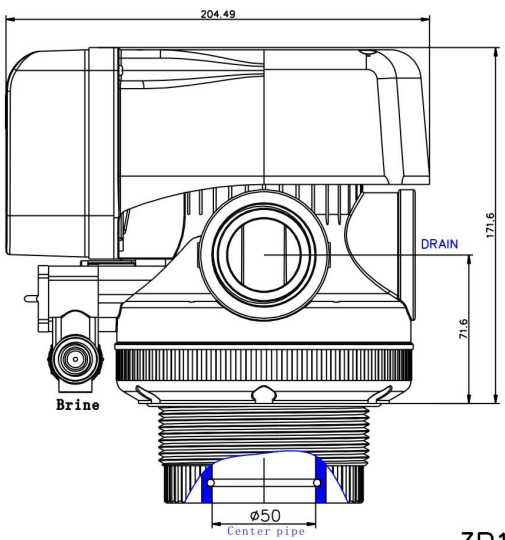
Pic12:3P2 Control Valve



Pic13:3P4 Control Valve



3P10GL



3P10GR

Pic14:3P10 Control Valve