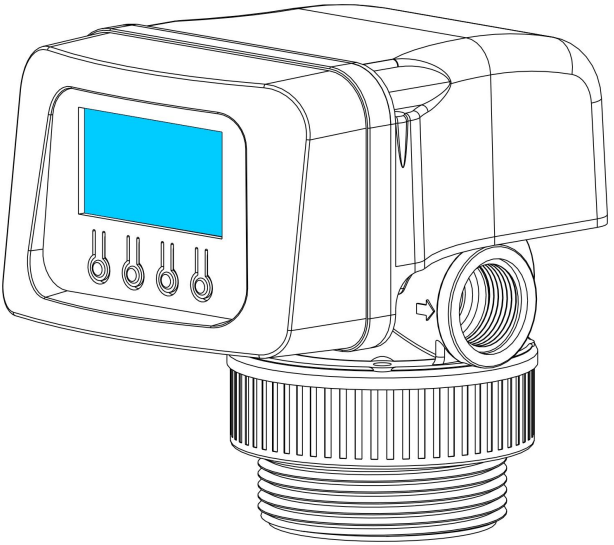
GL-2MLCD

Economical filter valve Installation, Use and Maintenance Manual

(GL2-2MLCD\GL4-2MLCD\GL10-2MLCD)

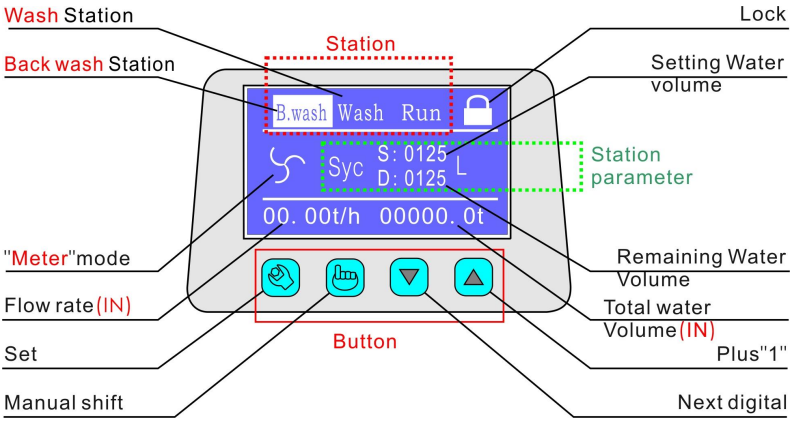
Scan Qr code for the latest



Valve Shifting animation

Ⅰ.The Controller

(1)、Display and button



Pic1: GL-2MLCD Filter valve Controller interface

Explanation

: *Unlock state. push the button to parameter setting.push again back.*

: *Unlock state. push the button the valve rotate to next station.*

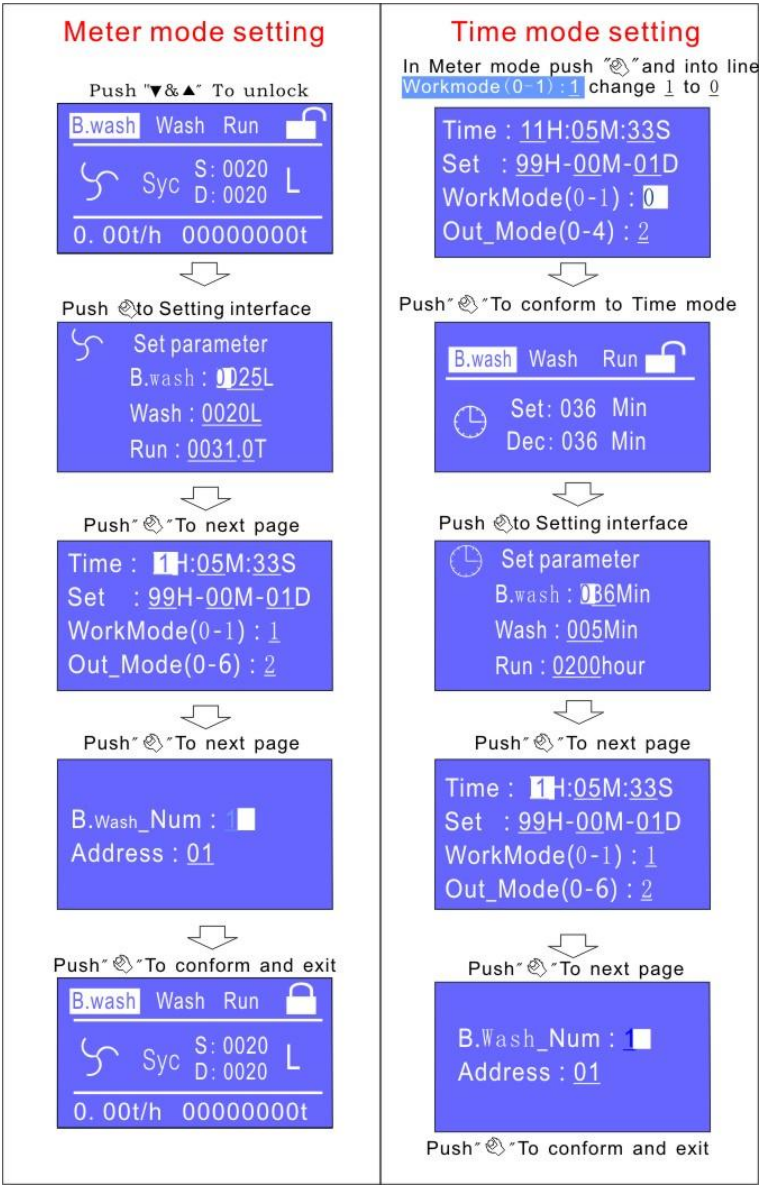
Unlock*::Push "▼" and "▲" same time.*

Lock*:three minute late Automatic lock without any operation*

▼ :*Push the button the cursor to next digital when parameter setting*

▲*:plus 1*

(2)Parameter setting



Pic2: GL-2MLCD Parameter setting

***Explanation for parameter setting**

A、Time:11H:05M:33S， H/Hour;M/Minute;S/Second。

B、Set：99H-00M-01D,delay backwash setting，default 99 is not delay， For example, when the RUN station parameter decreases to 0, backwash is needed and the equipment cannot stop the water supply， It can be delayed until midnight 2:30， Set **02H-30M-01D** is okay.

C、WorkMode:(0-1): Default, 0 is Meter mode and 1 is Time mode

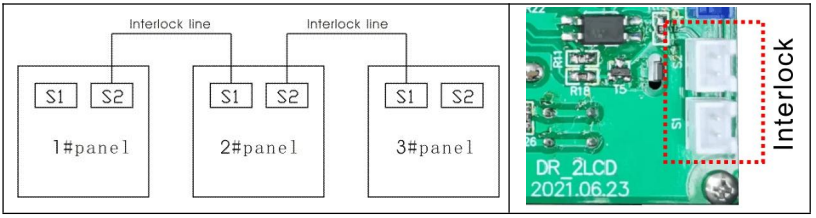
D、Out_Mode:（0-6）： Output relay setting（See 2. Relay output interface）

E、B.Wash_Num:1：The default is 1, and multiple backwash can be set as required. If it is set to 2, the cycle from **RUN** to **B.Wash** will be twice during each cycle.

F、Address：01:Remote 485 communication address setting

（3）、Output control

1、Interlock line connection as below



Pic3: Interlock line Instruction

Explanation:

A. Any valve at **B.wash**、**Wash** *position, the valve can send lock*

signal.

B. Any valve from **RUN** *to* **B.wash**、**Wash** *position, the program will read locking signal from interlock line. If there are locking signals (that means there are other valves is in* **B.wash**、**Wash**, *the valve will continue service in* **RUN** *until the locking signals disappear. At that time,. Until other valves finish in* **B.wash**、**Wash** *(locking signal disappear), this valve start* **B.wash**、**Wash** *and send a lock signal.*

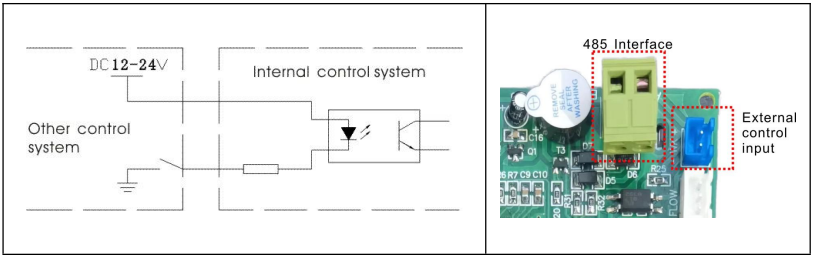
C. There is no sequence relationship for S1 and S2 on board. The interlock line can be inserted in S1 or S2 can play the role of interlock.

D. If only one valve works, the interlock line can be ignored.

E. If there are many valves work and don't need interlock, don't insert the interlock line. Each valve can work independently.

2. External control interface

The valve can be controlled by external system to control into B.Wash



Pic4: External control Instruction

3. Relay (Normal Open) output interface

A、The contact capacity of the relay is 5A/250V.

B、When connecting the output of the relay, the AC220V power supply input end shall be connected with the leakage circuit breaker.

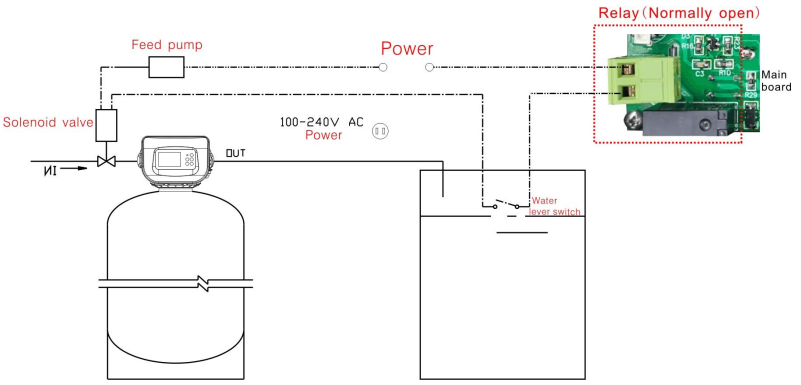
Different mode, the relay output

Connected for "C", disconnect for "x"

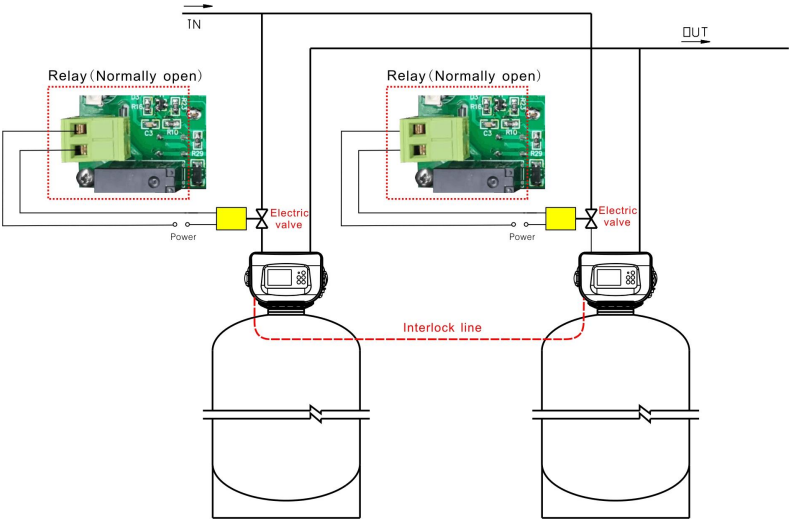
Mode	B.wash	Wash	RUN	
0	C	C	C	×
1	C	C	×	×
2	×	×	C	×
3	C	C	X	×
4	C	C	×	×
5	×	×	C×	×
6	C	×	×	×

Mode	Applications
0	**Solenoid valve mode**, relay break when shifting station.

	PIC5
1	**booster pump mode:** control backwash pump start-up,In **B.wash** and **Wash** station, Relay is connected,backwash booster pump start-up.
2	**Outflow pump start-up mode:** such as for subsequent RO system high pressure pump start-up,only in **RUN** station,high pressure pump start-up.
3	**Tow valve one RUN & one standby inflow water solenoid valve mode:** This mode is using for soften valve.
4	**Tow valve same time RUN backwash respectively mode**: this mode for filter valve use , As shown in PIC 6.
5	**CX(Mode2 additional conditions) :** When the inlet flow meter check the water flow signal in RUN station.the Relay is Connected.
6	**Backwash booster and compressed air mode。**



Pic5：Mode0: Solenoid valve liquid level switch and feed pump. water pressure relief when the valve is shifting station and solenoid valve cut off



Pic6：Mode4: Same time RUN backwash Respectively

Ⅱ、Installation

1, The water must be installed filters, lest cause valve core fault and water distributor congestion.

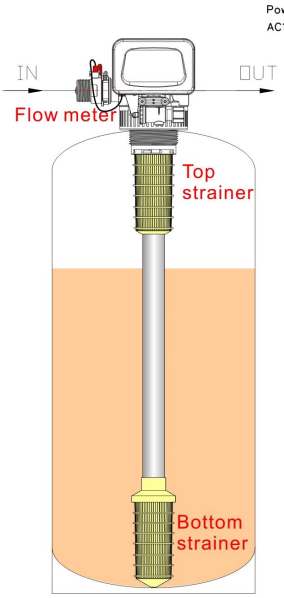
2, Pipe valve specifications is not less than control valve in and out of the size.

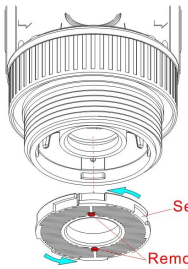
3, Water static pressure is not higher than 0.6 MPa.

4, the equipment is installed in the room, the humidity should not be too high, there should be no corrosive chemical gas around, to avoid strong electromagnetic interference to affect the power supply of the control valve.

5. Floor drain or trench drainage shall be set around the equipment to avoid accidental water leakage causing the floor and other indoor items to be flooded.

6, water temperature is 0°C ～ 50°C.

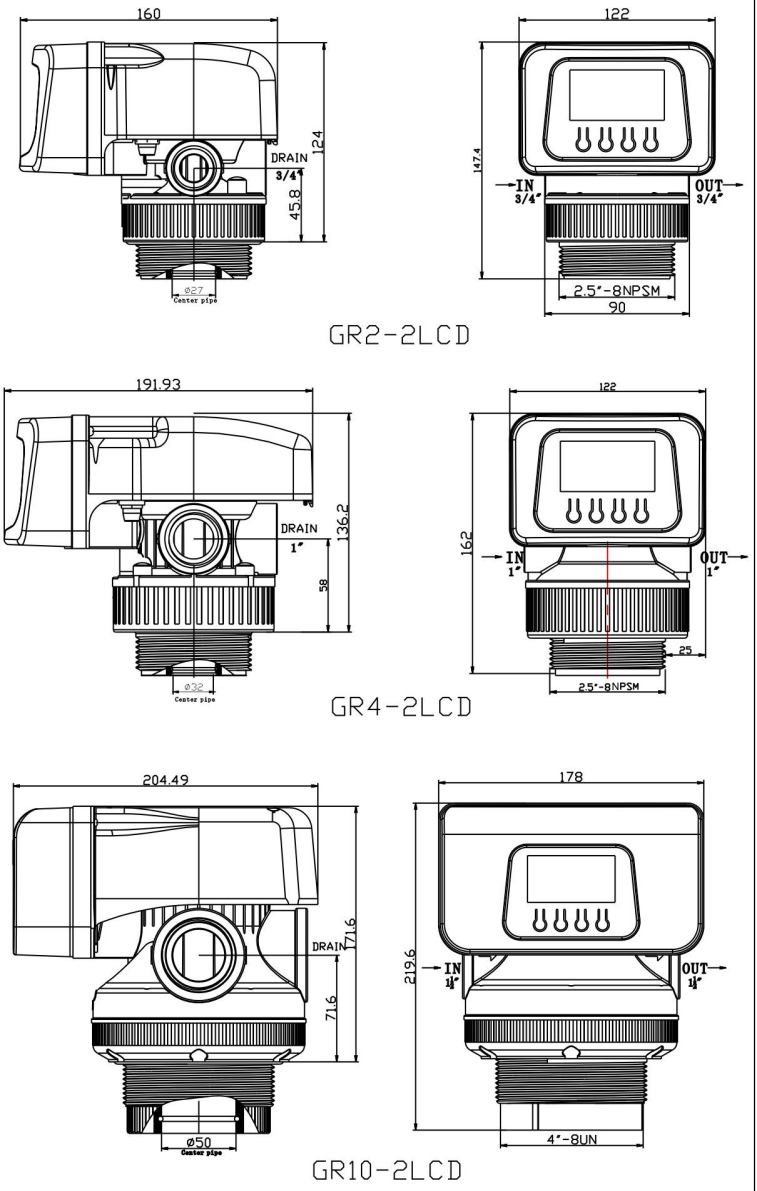




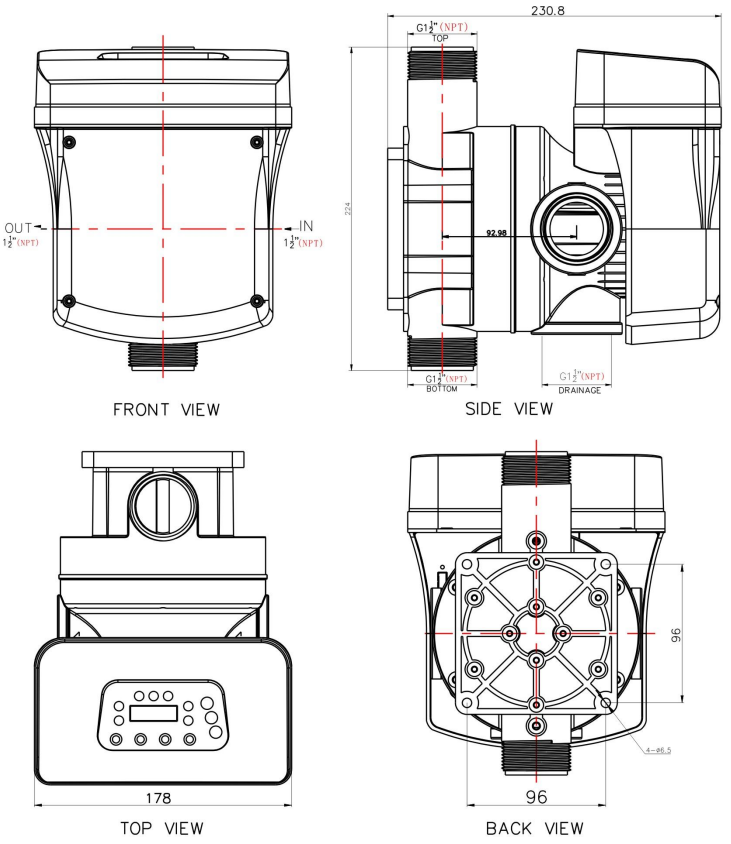
Self-contained filter disassembly:

The valve body comes with a filter to meet the quartz Sand, activated carbon media backwash block , If you want to replace to Top strainer, its Ann The installation and disassembly method is the same as the Top strainer.

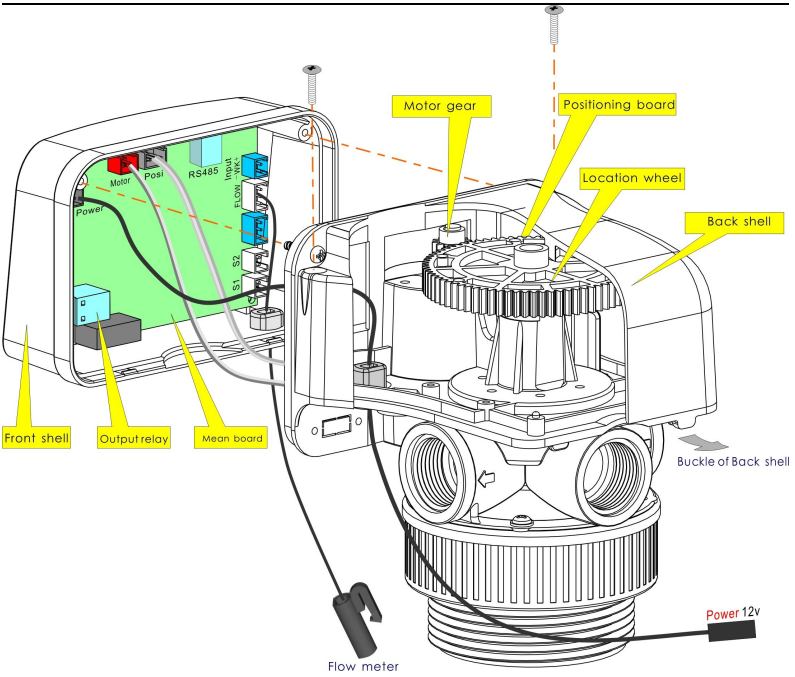
Pic7：GL-2M configuration and install



Pic8：valve geometric parameter

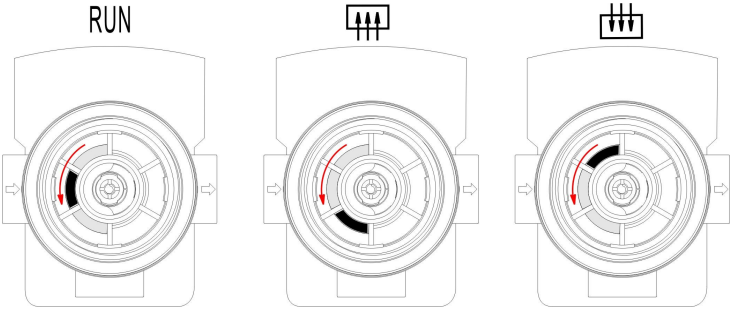


Pic9：GL10-2S valve geometric parameter



Pic10: Removal and connection of front shell of the controller

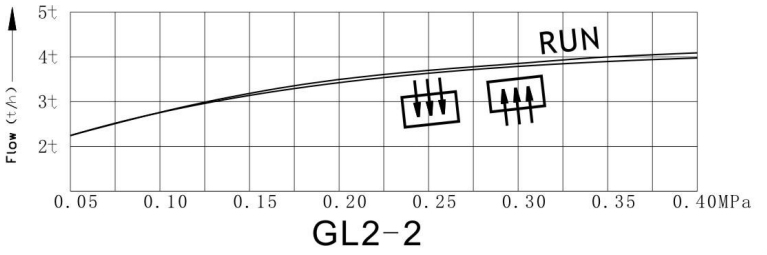
Ⅲ、Station identification from valve bottom



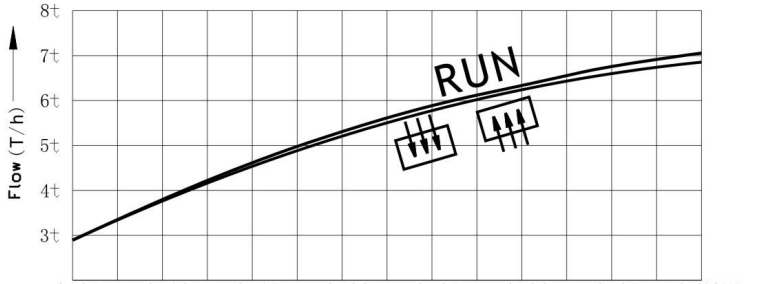
Note、: B.Wash; : Wash

Pic11：GL-2 identification from valve bottom

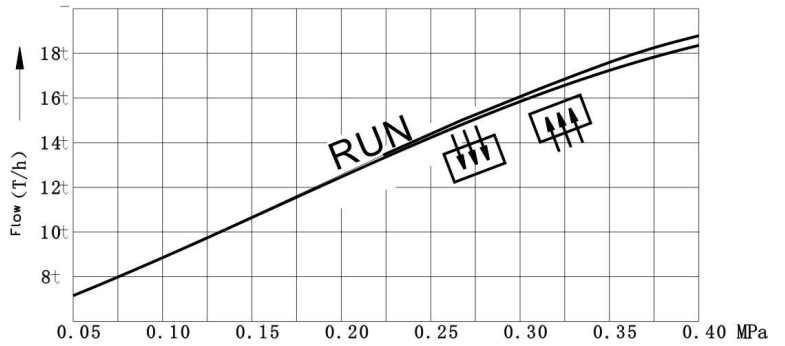
Ⅳ. Curve of Flow and Pressure for the Valve



GL2-2



GL4-2



GL10-2

Note、: **B.Wash**; : **Wash**

Pic12：Curve of Flow and Pressure for the Valve