



Application

1. Water meter , water leak detection system and water treatment etc equipment;
2. HAV and fire works. Automatic drain system;
3. Irrigation ect small control equipment.

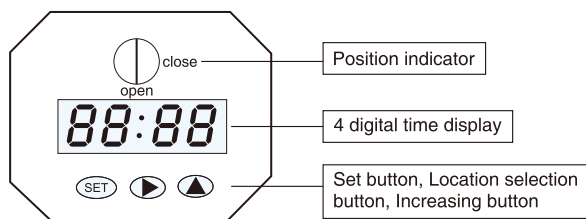
Technical parameters

1. Working voltage: AC 110-230V/AC/DC9-24V;
2. The time for keeping valve open: 0H: 0M: 0S--99 H59 M59 S;
3. The time for keeping valve closed: 0H: 0M: 0S--99 H59 M59 S;
4. 24 hours clock time for setting, such as open at 7am, close at 3 pm;
5. Spring return in case of power is failure (which is optional according to requirements).

Specification

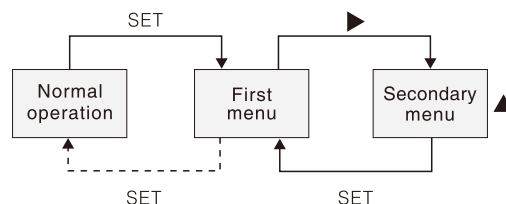
Product size	<input type="checkbox"/> NPT/BSP 1/2" <input type="checkbox"/> NPT/BSP 3/4" <input type="checkbox"/> NPT/BSP 1" <input type="checkbox"/> NPT/BSP 1 1/4" (Optional)
Maximum working pressure	1.3 MPa
Circulation medium	Fluid, air
Valve open /closed time	≤ 7 seconds
Rated voltage	<input type="checkbox"/> AC/DC9-24V <input type="checkbox"/> AC 110-230V (Optional)
Keeping valve open time	0H: 0M: 0S --99 H 59
Keeping valve closed time	0H: 0M: 0S --99 H 59
Working current	≤500MA
Stall current setting	0-599mA
Life time	100000 times
Valve Body material	<input type="checkbox"/> Brass <input type="checkbox"/> Nickel plated Brass <input type="checkbox"/> 304 Stainless steel (Optional)
Actuator material	Engineering Plastics
Sealing material	EPDM & PTFE
Actuator rotation	90°
Max. torque force	3N.M
Cable Length	0.5m, 1.5m (Optional)
Environment temperature	-15℃~50℃
Liquid temperature	2℃~90℃
Manual override	No
Indicator	Yes
Protection class	IP67

Timer specification



Operation instruction

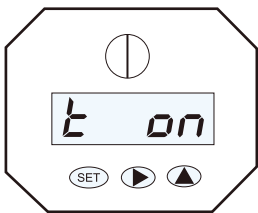
Actuator parameter setting have two menu structures on below:
Function code (first menu), The setting parameters of function code (secondary menu).



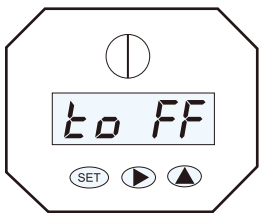
Picture 0 secondary menu operation menu

Function code	Content	Value	Unit	Remarks
ton	valve keeping open time	00:00:00-99:59:59	H:M:S	
toFF	valve keeping closed time	00:00:00-99:59:59	H:M:S	
PonS	Power-on Action	On/oFF		
Prot	Stall current setting	0-599	MA	When the current is bigger than the setting value 1.6S, the motor will stop working, and the display will show Err.

Parameter function control table



Picture 1



Picture 2

1. Press **SET** 2 seconds and enter to fist menu, the screen display picture 1 text (ton), indicating enter to set the valve keeping open state.
Press **SET** again, the screen display picture 2 text (toFF), indicating enter to set the valve keeping closed state .

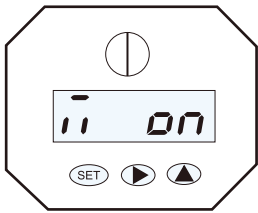


Picture 3

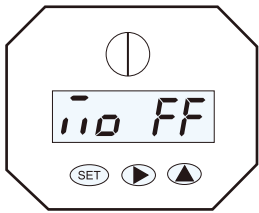


Picture 4

2. Press then the **right arrow** after entering the stetting state, showing the valve keeping time for setting (Set the valve keeping open time on the valve keeping open state, Set the valve keeping closed time on the valve keeping closed state). Select flashing bit by pressing **right arrow** , and change the numerical by pressing **up arrow** .
When " : " is flashing, indicate setting "HS (hours): MS(minutes)", and change the flashing fit by pressing **right arrow** .
When the " : " is bright, indicate setting " MS(minutes): SS(seconds) ".
The data will be deposited in the valve controller after completing the setting.
Press **SET** when finish setting, will return fist menu, press **SET** again, enter to next fist menu to set parameters.

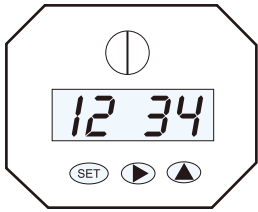


Picture 5



Picture 6

3. Press the **SET** & **right arrow** , the screen display picture 5 , indicating open the valve manually.
Press the **SET** & **up arrow** , the screen display picture 6, indicating closed the valve manually .
Exit manual mode to press the **SET** & **right arrow** or **SET** & **up arrow** . And go the power-on action.



Picture 7



Picture 8

4. On the normal working state, the displayed time is valve keeping time.
(e.g. Valve keeping open time is 10S, will count down 10S).
The " : " is flashing, indicating the "HS (hours): MS (minutes)".
The " : " is bright, indicating the "MS (minutes): SS (seconds)".

Stalling protection function

When the actuator is detected stalling, it will run in reverse direction. when reach to the open or closed position, and do the close or open action again, meanwell displaying flashed 0000-0001 on screen (indicating the current retrying times). If it fail at third retrying, the valve will stop running and display ERRL on the screen.