

Motorized Stainless Steel Valve with Timer

(AC110-230V)



Part # V3002950 1/2" NPT

Part # V3002960 3/4" NPT

Part # V3003180 1" NPT

Technical Parameters

Product Size	NPT ½" or NPT ¾ NPT
Maximum working pressure	140 PSI 1.0 MPa
Circulation medium	Fluid, air
Rated voltage	AC 110-230V
Valve open time (adjustable)	00:00:00 99:59:59S
Valve closed time (adjustable)	00:00:00 99:59:59S
Working current	<500MA
Lifetime	700000 times
Valve Body material	304 Stainless steel
Actuator material	Engineering Plastics
Sealing material	FKM & PTFE
Actuator rotation	90°
Max, torque force	2Nm
Cable Length	36° 3 Meters
Max. Environment temperature	80F
Liquid temperature	36F - 190F 2° C - 90° C
Manual override	NO
Indicator	Yes
Protection class	IP67
Stall current setting	0-599mA

Understanding the Display and How the Valve Works



Position Indicator

Display

Set Button, Right Arrow and Up Arrow Selection Buttons

There are four parameters that can be set:

t on This is the amount of time that the valve will stay open, which allows your sand separator or spindown filter to flush. Set this between 10 and 60 seconds depending on your application.

t off This is amount of time in hours that the valve stays closed. Typical settings you might choose are 8 hours, 12 hours, 24 hours, 36, 48 and 96 hours. Maximum "stay closed" setting is 96 hours (4 days).

PonS This is set to On by default, it activates the last function.

Prot This is for "protect". It is set to 400, for 400 milliamps. If something gets stuck in the valve while open, and it cannot close, then the motor will keep opening, trying to close. Once the motor tries to draw more than 400 mA, then it will shut off, to not damage the motor. No need to change this setting.

Set the Timer Valve

1. Press and hold the Set button until it displays **t on**. (see Fig 1)
2. Press the middle button, arrow pointing right. You are looking at whole hours and minutes.
3. Keep scrolling with the Right Arrow and the next 00:00 is minutes and seconds. Using the Up Arrow, set each column to the value you want. For example 00:30 would allow a 30 second flush.
4. Press the Set button and then press Set again to go to **t off**. (see Fig 2)
5. When it displays **t -off**, press the Right Arrow. Again, you are looking at whole hours. To set to once a day: use the up arrow, set the first column to a 2, press the Right Arrow, use the Up Arrow to set to a 4. Now it is displaying 24:00 or, once a day.
6. Press the Set button twice, and it should display **PonS**. No change is needed.
7. Press the Set button twice, and it should display **PrOt**. It should already be set to 400- No change is needed.

Timer Valve Displays

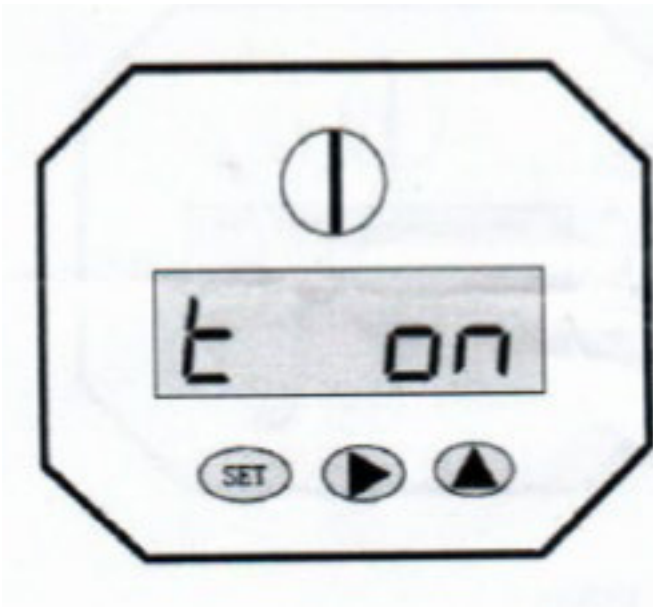


Fig. 1

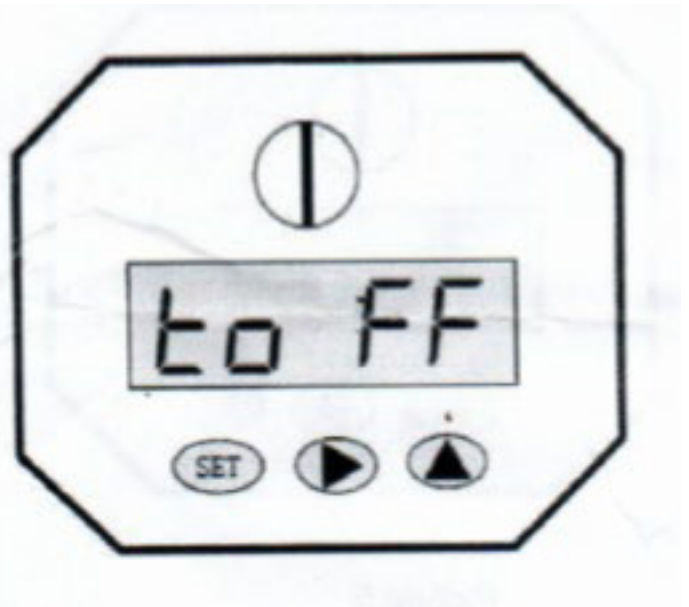


Fig. 2

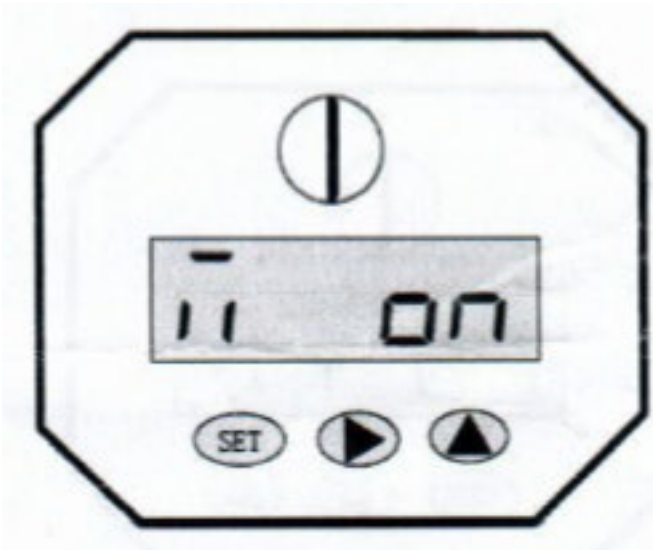


Fig. 3

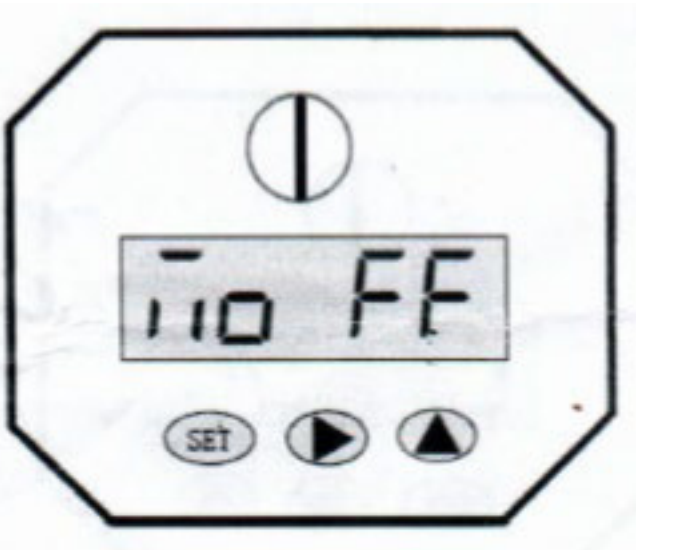


Fig. 4

Stalling Protection

When the actuator has stalled due to foreign material stuck in the valve it will run in reverse direction and when it reaches the open or closed position, will try to open or close the valve. 0000-0001 on screen indicates the number of times it tried to open or close.

If it fails to open or close more than 3 times, the valve will stop running and display ERRL on the screen.

Wiring your Timer Valve

This unit has 2 wire leads and may be wired for 100V or 220V. This unit does not have a ground wire.

If you are wiring for 110v, one wire goes to power and one wire goes to neutral. It does not matter which wires go to each.

If you are wiring for 220v, both wires will be connected to the power (hot) legs of your circuit. Again, does not matter which wires.

