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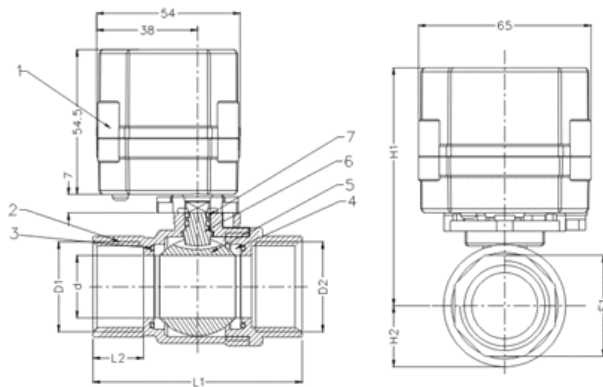
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TIMER CONTROLLED MOTORIZED BALL VALVE / DRAIN VALVE Model: TOFINE-TCM30P



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)
Actuator housing colors	Grey (Standard), Black (Optional)
Maximum working pressure	1.3 MPa
Circulation medium	Fluid, air
Valve open/close time	≤7 Seconds
Rated voltage	<input type="checkbox"/> AC/DC9-24V <input type="checkbox"/> AC110-230V (Optional)
Keeping valve open time	0 H : 0M :0S --99 H 59
Keeping valve closed time	0 H : 0M :0S --99 H 59
Working current	≤500MA
Stall current setting	0-599mA
Life time	100,000 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	4 Nm
Cable Length	0.5m, 1.5m (Optional)
Environment temperature	-15°C ~ 50°C
Liquid temperature	2°C ~ 90°C
Manual override	No
Indicator	Yes
Protection class	IP67

Dimension Figure



Components

NO.	NAME	Material	Specification	Quantity
1	Actuator	PPO		1
2	Body Cover	Stainless steel	304	1
3	O-ring	FKM		2
4	Sealing	PTFE		2
5	Ball	Stainless steel	304	1
6	Stem	Stainless steel	304	2
7	O-ring	FKM		2

Application

DESCRIPTION	D1/D2	d	L1	L2	E1	H1	H2
T15(1/2")Electric valve	1/2"	15	63	14	25	83	17
T20(3/4")Electric valve	3/4"	20	72	17	31	87	20
T25(1") Electric valve	1"	25	81	18	38	95	24

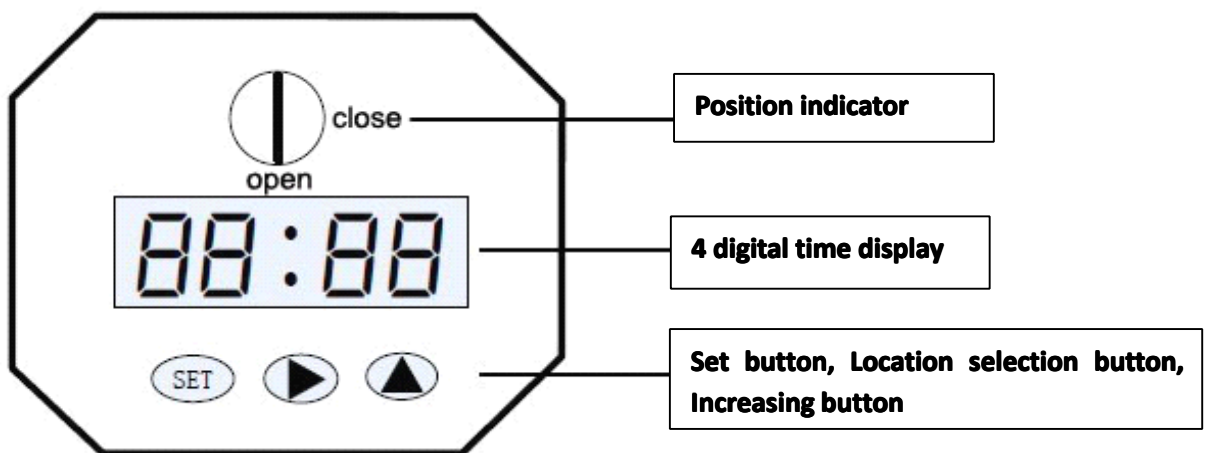
1 Parameter specifies

Working voltage :AC110-230V/AC/DC9-24V

The time for keeping valve open :0 H : 0M :0S --99 H 59 M 59 S

The time for keeping valve closed : 0 H : 0M :0S --99 H 59 M 59 S

2 Timer specification

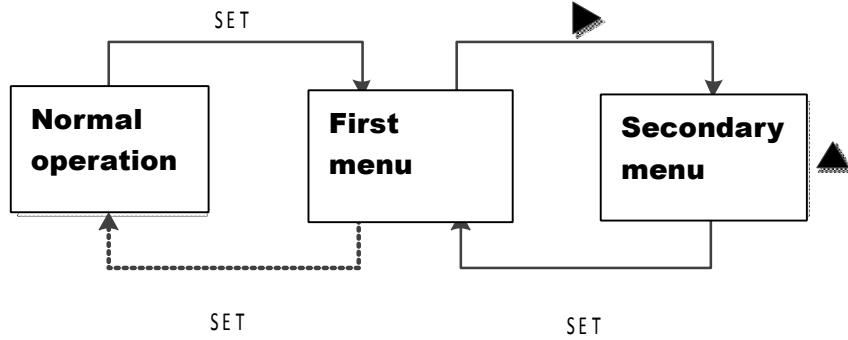


3 Operation instruction

Actuator parameter setting have two menu structures on below:

Function code (first menu),

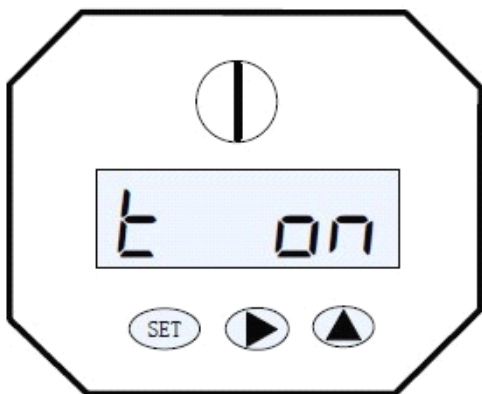
The setting parameters of function code (secondary menu)



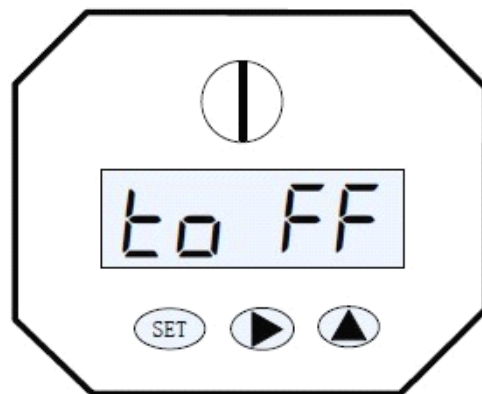
Picture 0 Secondary menu operation menu

Function code	Content	Value	Unit	Remarks
t on	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

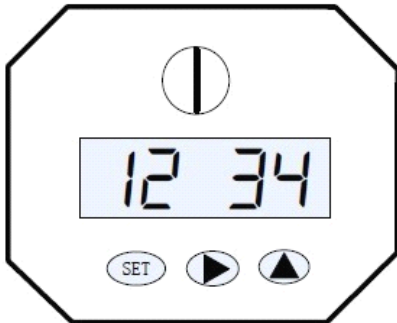


picture 2

- 1** Press  2 seconds and enter to first menu, the screen display picture 1 text (t

on) , indicating enter to set the valve keeping open state .




Press **SET** again, the screen display picture 2 text (t o FF) ,indicating enter to set the valve keeping closed state .




Picture 3



picture 4

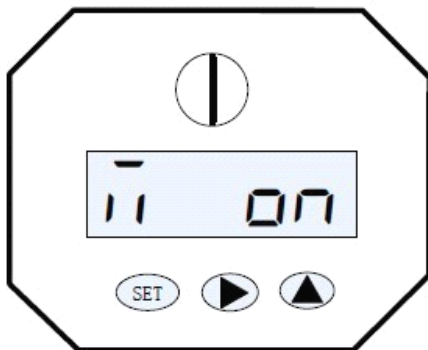
2 Press then the  after entering the setting state , showing the valve keeping time for setting (Set the valve keeping open time on the valve keeping open state . Set the valve keeping closed time on the valve keeping closed state.) . Select flashing bit by pressing  , and change the numerical by pressing  .

When " : " is flashing , indicate setting "HS (hours) :MS(minutes)", and change the flashing bit by pressing  .

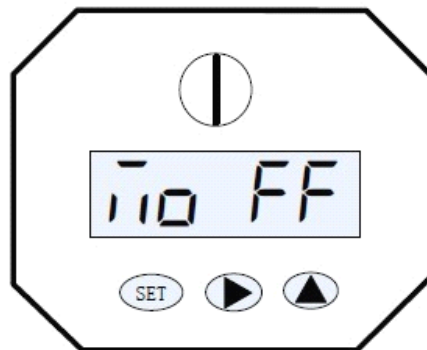
When the " : " is bright , indicate setting " MS(minutes) :SS(seconds) " .

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** &  , the screen display picture 5 , indicating open the valve manually.

Press the  &  , the screen display picture 6, indicating closed the valve manually .

Exit manual mode to press the  &  or  &  . 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 10 S, will count down 10S)

The " : " is flashing , indicating the "HS (hours) : MS(minutes)" .

The " : " is bright, indicating the " MS(minutes) : SS(seconds) " .

4 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 , meanwhile 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 .

Contact us NOW.....

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