FH-MO/FH-S series motorized ball valve

Features

- Precision metal gear, high strength, reliable performance, long service life
- Flame retarded PC-ABS enclosure with compact, exquisite structure
- Low power consumption, battery workable
- Floating sealing ball valve, no leakage
- IP 67 protection, applicable for humid environment
- With visual position indicator and manual override for option
- Various connectors customizable
- Multiple wiring for remote control and valve status feedback to intelligent control unit

Application

• Automatic remote fluid control for a variety of scenarios, such as smart home, water treatment project, smart water measuring system, fire sprinkler system, water supply and drainage system etc.

Technical parameters

Series	Torque	Operating	Working voltage	Working Max Power		Medium	Ambient	
		time		current		temperature	temperature	
FH-MO/	2.5 N.M	<5s	5V DC, 9-24V ADC,	<100mA	5W	0100℃/ -2045℃		
FH-S			9-35V DC, 110-230V AC			32-212 °F	/-4 -113 °F	
Humidity	Max pressure	Enclosure	Service life	Wiring				
95%	1.0Mpa	IP67	50,000-80,000 times	OP01, OP02, OP03, OP04, OP05 optional				

Dimension (unit: mm)

Size	D1/D2	φd	L1	L2/L3	F	H1	H2	W(kg)
DN8	G1/4"	8	45	10	21	68	42	0.26
DN15	G1/2"	15	57	11	25	71	42	0.32
DN20	G3/4"	20	63	12	31	74	42	0.41
DN25	G1"	25	73	16	37	77	42	0.52

Main components

Parts	Material
Actuator housing	PC-ABS
Valve body	PVC, Brass, SS304
Valve ball	PVC, Brass, SS304
Stem	Brass, SS304
Ball seat	PTFE
Seal	Silicone rubber

FPM, NBR seal are
 available for special
 medium, please contact
 the manufacturer for
 details.







Instruction for manual override

1. Manual override function is usually for occasions such as power outage, commissioning etc.

2. Lift the hand-wheel up, observe the open angle through the position indicator, rotate the hand-wheel until the valve is in place.

3. Press down the hand-wheel to switch back to automatic control.







<u>Wiring</u>

Cautions

X Make sure that the voltage of power supply meets the requirement of the actuator.

X The wiring should comply with local standards and operated by qualified personnel. When installing or

repairing, the power should be cut off to prevent electric shock and damage to the equipment.

※ For the illustration below, the valve is normally closed by default.





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Feature functions for option and purchase guide

Feature functions for option

• Quick Assemble-and-Disassemble Design for option



With adapters mounted to the actuator and valve, the valve and actuator can be assembled and disassembled within 3s, which makes:
(1) installation and repairing much easier, saves labor cost;

2 tremendous reduction in inventory.

• Various connectors available for option



X Various connectors customizable to fit into different control systems and meet requirement of different scenarios.

Purchase guide

Actuator						Ball valve				
Voltage Wiring	5V DC	12V DC	9-24V ADC	9-35V DC	220V AC	Size Material	SS304	Brass	PVC	
OP01			/		/	1/4" (DN8)			/	
OP02			/			3/8" (DN10)			/	
OP03				/		1/2" (DN15)				
OP04				/		3/4" (DN20)				
OP05			1	/	/	1" (DN25)				
□ With manual override □ Without manual override						 Full port for SS304 and brass valve, reduced port for PVC valve BSP or NPT thread available for option 				

% For customization, please contact your sales service.



