

FH-B Series Electric Ball Valve

Features

- Precision metal gear, high output torque, reliable performance, long service life
- Two auxiliary limit switches to confirm consistent accurate valve position
- With visual position indicator and manual override for sudden power failure or unexpected emergency operate
- Multiple wiring available for remote control and valve status feedback to intelligent control unit
- Simple, compact, exquisite structure
- ISO5211 mounting pad
- IP 67 protection, applicable for humid environment
- Various connectors customizable for quick connection

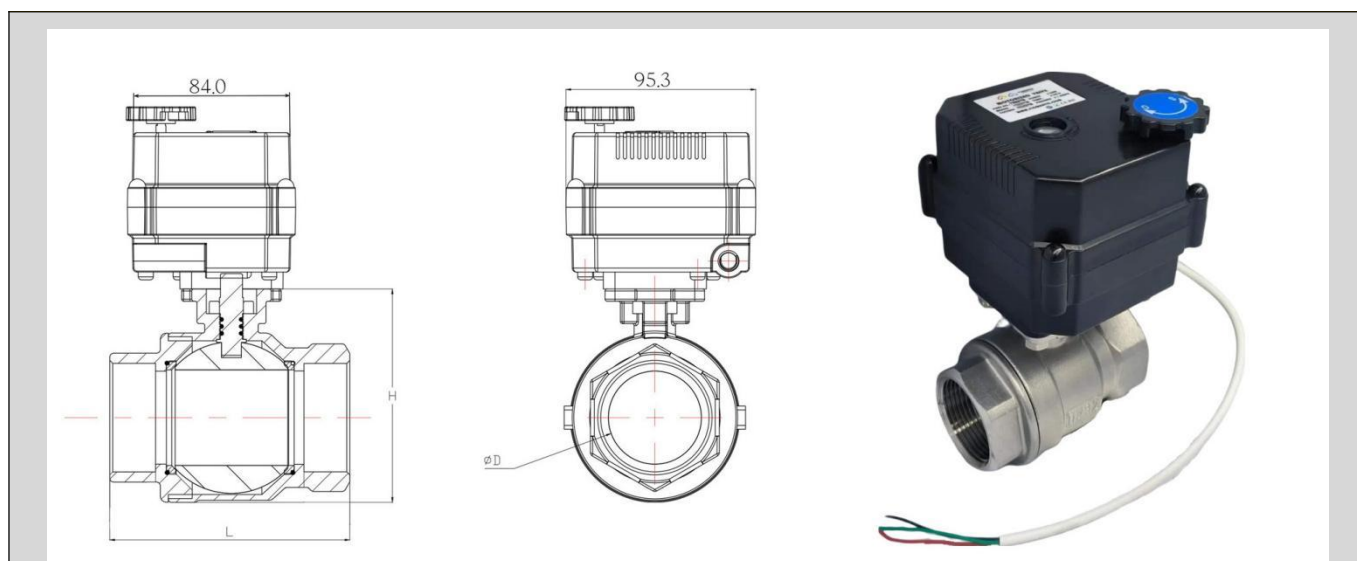
Application

- 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 time	Working voltage	Working current	Max Power	Max pressure	Medium temperature	Ambient temperature
FH-B	15 N.M	<15s	5V DC, 12V DC, 24V DC	<300mA	22W	1.6Mpa	0--100℃/ 32-212°F	-20--45℃ /-4 -113°F
Humidity	Enclosure	Service life	Wiring					
95%	IP67	80,000 times	OP01, OP02, OP03, OP04, OP05 optional, signal feedback customizable					

Dimension (unit: mm)



Size	Brass			SS304			UPVC/PVC		
	L	H	D	L	H	D	L	H	D
DN15(1/2")	55	43.5	15	58	54	15	135	68	19
DN20(3/4")	60	51.5	20	65	66	20	150	75	25
DN25(1")	70.5	59.5	25	77	71	25	/	/	/
DN32(1-1/4")	85.5	68	32	90	84	32	/	/	/
DN40(1-1/2")	/	/	/	98	100	38	181	105	38
DN50(2")	/	/	/	121	118	50	206	128	49



CE IP67



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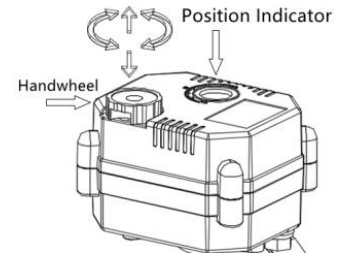
Main components

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



Wiring

- ※ Make sure that the voltage of power supply meets the requirement of the actuator.
- ※ 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, the valve is normally closed by default.

<p>OP01</p> <p style="text-align: right;">Wiring</p>	<ol style="list-style-type: none"> 1. Set SW to [OPEN], the electric valve opens, and it stays in position after it is fully opened. The valve is de-energized (no power consumption). 2. Set SW to [CLOSE], the electric valve closes, and it stays in position after it is fully closed. The valve is de-energized (no power consumption). <ul style="list-style-type: none"> ※ In case of power loss, valve will remain in its current state. ※ Voltage of power supply for option: 5V DC/ 9-35V DC
<p>OP02</p> <p style="text-align: right;">Wiring</p>	<ol style="list-style-type: none"> 1. Both AC and DC power supply workable, while powered with DC power supply, connect the black wire to the (-) pole of power source. 2. Set SW to [OPEN], the electric valve opens, and it stays in position after it is fully opened. The valve is de-energized (no power consumption). 3. Set SW to [CLOSE], the electric valve closes, and it stays in position after it is fully closed. The valve is de-energized (no power consumption). <ul style="list-style-type: none"> ※ In case of power loss, valve will remain in its current state. ※ Voltages for option: 5V DC/12V DC/ 9-35V DC
<p>OP03</p> <p style="text-align: right;">Wiring</p>	<ol style="list-style-type: none"> 1. Both AC and DC power supply workable for OP03. When the power supply is DC, connect red wire to the (+) pole and black wire to the (-) pole. 2. Turn the SW on, the electric valve opens, and it stays in position after it is fully opened. 3. Disconnect the SW, the electric valve closes, and it stays in position after it is fully closed. <ul style="list-style-type: none"> ※ Voltages for option: 5V DC/12V DC/9-24V ADC
<p>OP04</p> <p style="text-align: right;">Wiring</p>	<ol style="list-style-type: none"> 1. Both AC and DC power supply workable. Normal Closed type Control. 2. Turn the SW on, the electric valve opens, and it stays in position after it is fully opened. There is nominal power consumption. 3. Disconnect the SW (or the power is lost for any other reason), the electric valve closes. <ul style="list-style-type: none"> ※ Voltages for option: 5V DC/12V DC/9-24V ADC



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OP05

Wiring

1. Set SW to [OPEN] - the red wire connect to the (+) pole of power supply, the black wire connect to the (-) pole of power supply, and connect the green wire with fully-open control terminal on the control device, the yellow wire with fully-closed control terminal, white wire is the common wire, when the electric valve fully opens, the green wire outputs valve-fully-open signal, with signal received, the SW is set to switch to STOP position, the valve stops action and keeps in fully open position.
2. Set SW to [CLOSE] - the red wire connect to the (-) pole of power supply, the black wire connect to the (+) pole of power supply, and connect the green wire with fully-open control terminal on the control device, the yellow wire with fully-closed control terminal, white wire is the common wire, when the electric valve fully closes, the yellow wire outputs valve-fully-closed signal, with signal received, the SW is set to switch to STOP position, the valve stops action and keeps in fully closed position.

※ Voltages for option: 5V DC/12V DC/24V DC

Customizations available (MOQ required)

- By default, the cable is of 35cm with naked end, the length and connectors like below ones are customizable.



- The actuator enclosure color and the tag on it both can be customized.

Above are the most common customization we have done, there are so many other kinds, talk to us about your needs!

Purchase guide

● Actuator						● Ball valve					
Wiring	Voltage	DC5V	DC12V	ADC9-24V	DC9-35V	DC24V	Size	Material	SS304	Brass	PVC
	OP01				/			DN15 (1/2")			
OP02				/			DN20 (3/4")				
OP03					/		DN25 (1")				
OP04					/		DN32 (1 1/4")				
OP05				/	/		DN40 (1 1/2")				
<input type="checkbox"/> With manual override <input type="checkbox"/> Without manual override							DN50 (2")				
							※ 3 way ball valve available for DN15-DN25 ※ BSP or NPT thread available for option				

※ For customization, please contact your sales service.