



2-Way

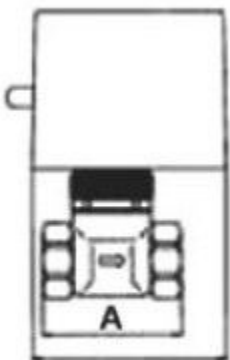


3-Way

## General

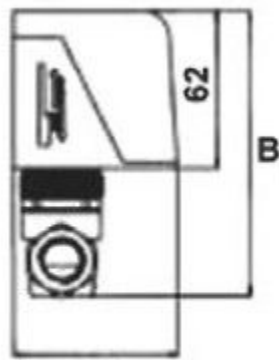
HTW-V71 Series Motorized Valves are used to control the flow of hot water, chill water through the fan coil unit in heating, cooling or air-conditioning applications, so as to control room temperature indirectly. When thermostat sends the controlling signal to the motorized valve, the valve is opened with water flowing, and when the signal disappears, the valve, with the help of its own spring, returns back to its original place to close the valve so as to stop the water flow.

**HTW-V71 Series Motorized Valves consist of two parts: Actuator and Valve body.**



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Fig1



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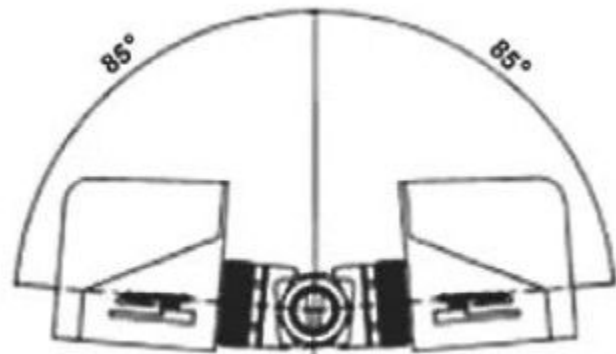


Fig 2 ↵

## Specification of HTW-V71

Model No.	Rated Voltage	Power Consumption	Actuator	Cooperation time with Thermostat	N.W.(Kg)
V71-8503	AC220V ± 10%	7W	Single direction motorized drive valve spring regain	Fully open:10s after on. Fully close:5s after power off	0.3
V71-8203	AC110V ± 10%				
V71-8003	AC24V ± 10%				

## Material

Actuator: Stainless steel plate, ABS plastic cover

Valve Body: Forged Brass

Stem: Brass/Stainless steel

Seat: Die-casting Aluminum Alloy

Paddle: Nitrile-butadiene rubber(NBR)

## Specification of V71 valve body

No	Model	Caliber	Body Structure	Kv(Cv) Value	Closing Pressure Mpa
1	V71-215	1/2" (15mm)	2 way valve	2.2(2.5)	0.2
2	V71-220	3/4" (20mm)		3.0(3.5)	0.18
3	V71-225	1" (25mm)		6.9(8.0)	0.15
4	V71-315	1/2" (15mm)	3 way valve	2.2(2.5)	0.2
5	V71-320	3/4" (20mm)		3.0(3.5)	0.18

## Dimensions

Model	Size(mm)		N.W.(Kg)
	A	B	
V71-215	55	113	0.60
V71-220	55	128	0.60
V71-225	66	124	0.65
V71-315	66	137	0.65
V71-320	90	129	0.70

## Installation Instruction

1. Dimension Diagrams, Please refer to fig 1
2. The valves can be mounted in horizontal or vertical piping, When installed in horizontal piping, the actuator must be above the valve body, and it can be titled left or right but it must NOT be below 85 degrees from vertical. Please refer to Fig 2.
3. If the valve as mounted in vertical piping, please be sure the cover of motor is waterproof.
4. When installing the actuator to a normally closed valve, the actuator must be placed in the manually open position by using the manual operating lever. The first time the valve operated electrically, the manual operating lever of the actuator will transfer to the automatic position.

## Wiring diagrams

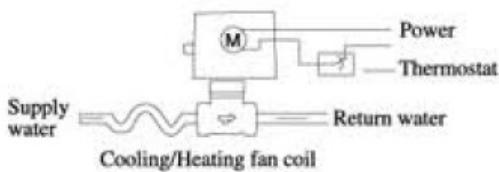


Fig. 3 two-way motorized valve

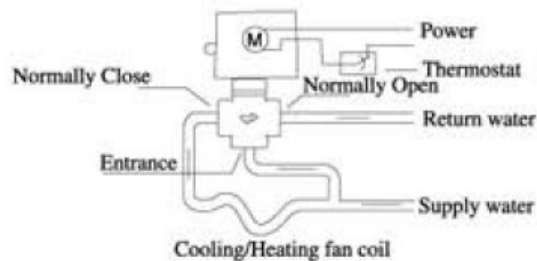


Fig. 4 three-way motorized valve

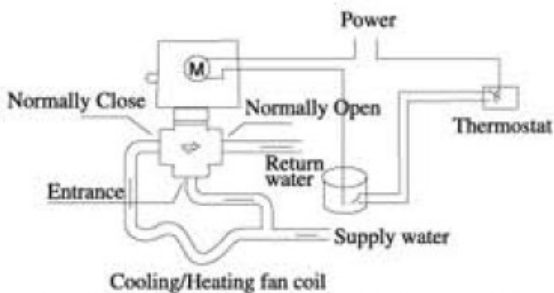


Fig. 5 three-way motorized valve changeover switch with box

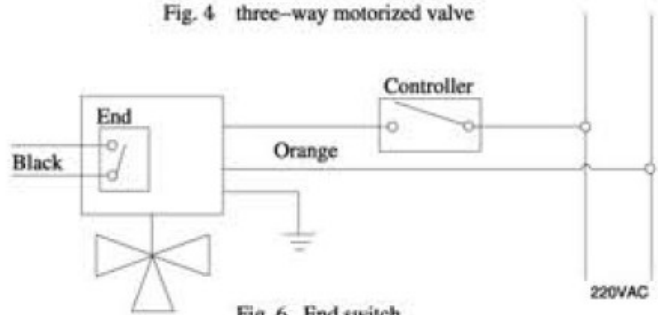


Fig. 6 End switch