

# Technical and Operational Instructions For VLV Series Motorized Valves

## I . General

VLV series motorized valves are used to control the terminal waterway of air conditioners, which consist of thermostats that can control the motorized valves, and use speed-down devices and the reposition spring to turn the valves on/off so as to control the media in the pipe and then to control the temperature automatically with the help of the air sent by the fan coil units.

## II . Features

- ◇ Forged Brass Body
- ◇ Stainless base with aluminum case
- ◇ Driven by completely-sealed synchromotor with stainless steel reposition spring
- ◇ Motor Voltage: 220VAC 50/60Hz, Power Consumption: 6.5W
- ◇ Valve Type: Normally Closed 2-way valve and 3-way diverting valve
- ◇ Customized motor voltage and valve body connection type
- ◇ S2 series motorized valve can be dismantled and installed easily.

## III. Main Parameters

1. Power Supply: AC220V  $\pm$  10% 50/60Hz
2. Power Consumption: 7W
3. Pressure: 1.6Mpa
4. Valve Reaction time:
  - Separated Valve: Open Time:  $\leq$  18 s
  - Close Time:  $\leq$  8 s

6. Work Condition: Temperature around: 5~40°C  
 Pipeline Water Temperature: 5~90°C

7. See the list below for Model, Specification Connection Type and Flow Capability:

Model	Caliber	2/3-Way	Kv (Cv) Value	Pressure Allowed (MPa)
<b>VLV244BB</b>	1/2"(15mm)	2	2.2 (2.5)	0.20
<b>VLV264BB</b>	3/4"(20mm)	2	3.0 (3.5)	0.18
<b>VLV284BB</b>	1"(25mm)	2	6.9 (8.0)	0.15
<b>VLV344BB</b>	1/2"(15mm)	3	2.6 (3.0)	0.20
<b>VLV364BB</b>	3/4"(20mm)	3	3.4 (4.0)	0.18
<b>VLV384BB</b>	1"(25mm)	3	6.5 (7.5)	0.15

#### IV. Dimension

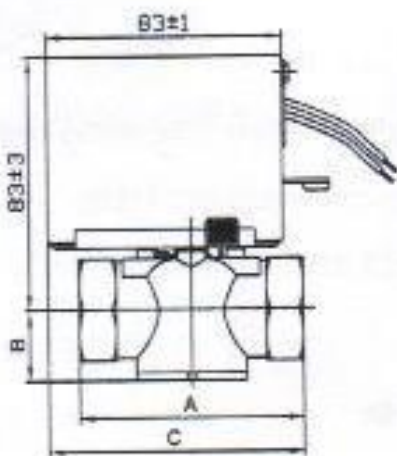


Fig. 1: 2-way Valve

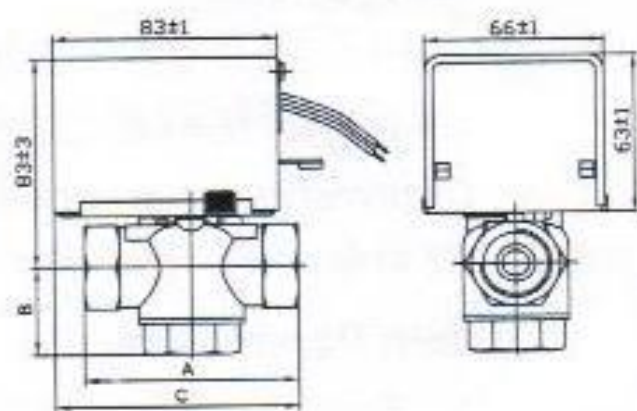


Fig. 2: 3-way Valve



## Valve Body Sizes

Model	A	B	C
VLV244BB	70±1	22.5±1	86±1
VLV264BB	79±1	22.5±1	90±1
VLV284BB	88±1	22.5±1	95±1
VLV344BB	70±1	31.5±1	86±1
VLV364BB	79±1	34±1	90±1
VLV384BB	88±1	42±1	95±1

## V. Operation & Installation

1. Different pressure should be controlled within the range allowed.
2. Install the valve in the places easy for installation and maintenance.
3. Vertically install the valve in the places void of moisture.
4. When to install the 2-way valve, the B end is for water to flow in. (with A and B marked under the valve).
5. When to install the 3-way valve, the medium will enter from under of the valve (No sign at this end). Note: End B is normally closed, and end A is normally open. Please connect end B to the main pipe and end A to bypass pipe. Please refer to Fig. 3 when to install the valve.

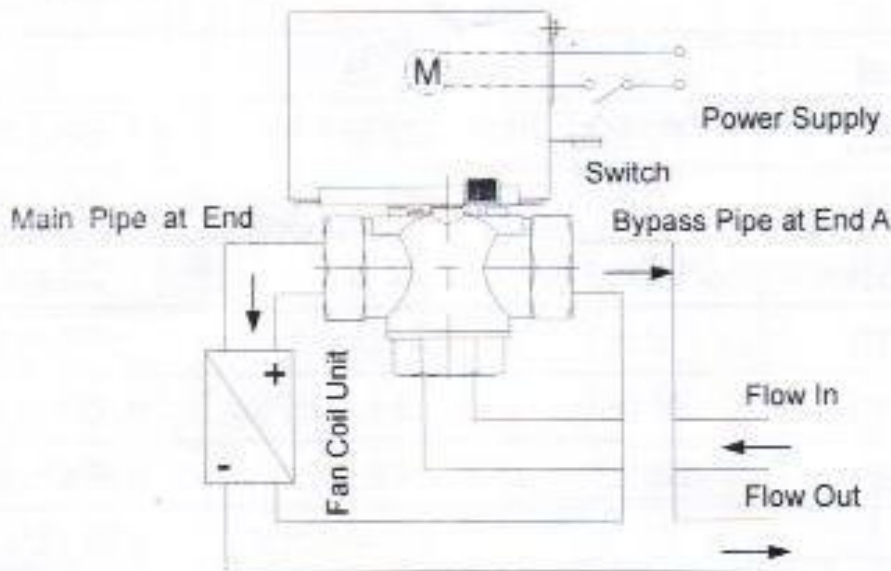


Fig. 3

When to manually start the valve, please carefully push the manual haft to the outside, and when the haft is over the slot, then softly push it down and then the valve is in the open condition. And when to push the haft upward, the valve will return to its position at the help of its own spring. At this time, the valve is now in normal condition again.

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