

## Zone valve

---DN15~DN25

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- ON/off type valve, with 2-port always close and 3-port diverting type
  - Nominal range: DN15...DN25
  - Valve body: brass
  - Flow: 2.2...6.5m<sup>3</sup>/h
  - Stainless base with aluminum case

### Application

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T2V/3V 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.

### Characteristic

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1. Used for fan coil unit and heating control.
2. Caliber: 1/2" 3/4" 1"
3. Valve type: normally close 2-way valve and 3-way diverting valve.
4. Driven by completely-sealed one-way hysteresis synchronous motor with stainless steel reposition spring and has waterproof function.
5. Install the valve body on the fan coil, radiator or air handling firstly, install the actuator finally.
6. The actuator and valve body can be connected directly, it's very easy and fast without any connection or tools.

# Tiger Controls

## Data Table

DN (mm)	Caliber (in.)	Valve Type	2/3-Way	Kvs	Cv	Shutoff Pressure (kPa)	Weight (g)
15	1/2"	T2V-15	2	2.2	2.5	180	700
15	1/2"	T3V-15	3	2.6	3.0	180	750
20	3/4"	T2V-20	2	3.0	3.5	160	850
20	3/4"	T3V-20	3	3.4	4.0	160	900
25	1"	T2V-25	2	6.9	8.0	140	1000
25	1"	T3V-25	3	6.5	7.5	140	1050

## Installation Notes

1. When install the normal closed valve, the flow direction should be from B port to A port. (Meet figure 1)
2. Before install the actuator, the manual device should be push to the "open" first.
3. For the first time power on, the manual device will move to the auto position. After the installation, the manual device could be used to make a system flushing
4. The valve could only used in the full enclosed hot/chilled water system, not suitable for open system.
5. In the open system, the material of valve body could be eroded by high oxygen and dissolved chlorine which may cause a premature damage.
6. The water valve should be installed on the water pan because it will generate condensed water in the use of the chilled water.

## The Pipeline Connection Diagram

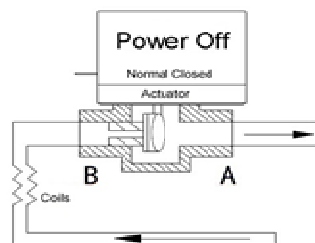


Figure 1: 2-port valve(normal closed) pipeline installation

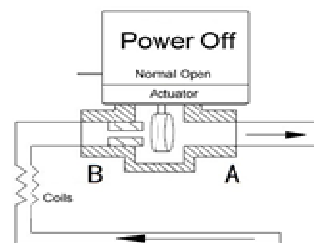


Figure 2: 2-port valve(normal open) pipeline installation

The 3-port valve is normal closed at B port, If normal open is needed, just rotate the valve 180 degrees in the horizontal direction.

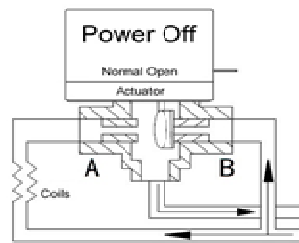


Figure 3: 3-port mixing valve(normal open) pipeline installation

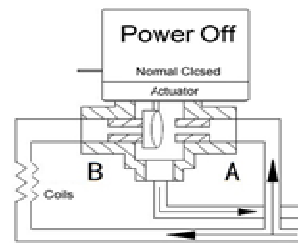


Figure 4: 3-port mixing valve(normal closed) pipeline installation

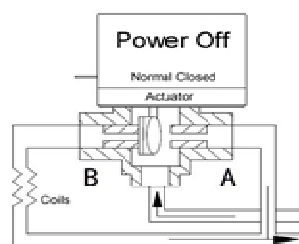


Figure 5: 3-port diverting valve(normal closed) pipeline installation

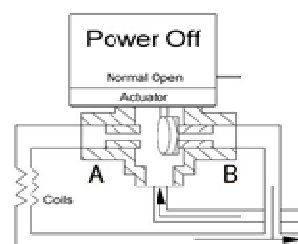


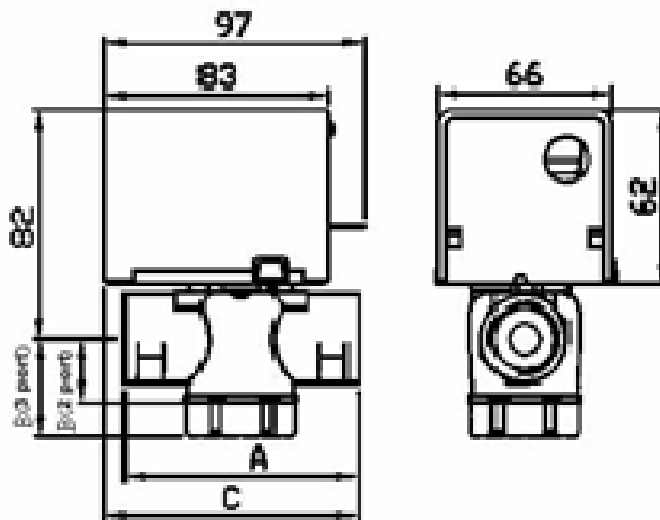
Figure 6: 3-port diverting valve(normal open) pipeline installation

# Tiger Controls

## Technical Parameter

Voltage	230V,120V,24V
Power	7V
Medium	Chilled/hot water
Operating Temperature:	0~90°C (Non-condensate)
Valve Reaction time:	Open Time: ≤20s, Close Time: ≤15s
Operating Pressure:	2.0Mpa/300psi
Operation	Spring-return; Normally closed
Actuator	Stainless base with aluminum case
Valve body	Forged Brass Body
Disc material	NBR

## Dimension Figure



Type	A mm	B mm	C mm	Weight g
T2V-15	70	23	86	700
T3V-15	70	37	86	750
T2V-20	87	23	93	850
T3V-20	87	37	93	900
T2V-25	94	25	95	1000
T3V-25	94	42	95	1050