

A1004-... Electric Two-Way Valve Series



**Electric Two-Way Valve
A1004-... (FCU) series
Brass/ Threaded Connection
PN16**

Performance & Features:

The A1004 series electric two-way valves are mainly applied in fan coil unit systems to control the opening or closing of pipelines in chilled or hot water air conditioning systems, so as to achieve room temperature control. The control valve is driven and reset by a spring in the valve body. The valve is normally closed when not in operation. When operation is required, the thermostat sends a valve-open signal, energizing the electric valve with AC power to open it, allowing chilled or hot water to flow into the fan coil and supply cooling or heating to the room. When the room temperature reaches the setpoint of the thermostat, the thermostat de-energizes the electric valve, and the return spring closes the valve, cutting off the water flow to the fan coil. By opening and closing the valve, the room temperature is maintained within the range set by the thermostat at all times.

The actuators of the A1004 F Series are connected to the valves by threads. The actuator can be installed after the valve is mounted, making wiring convenient. The flat design of the actuator allows close-to-wall installation with minimal space occupation. The product is reliable and durable, features low operating noise, and can work stably under the high-temperature conditions commonly found in concealed fan coil units.

- ◆ Nominal diameter: DN15...DN25;
- ◆ Female threaded connection;
- ◆ Brass for valve body and valve core; stainless steel for valve stem and spring;
- ◆ Manual opening and closing driven by a fully enclosed hysteresis synchronous motor;
- ◆ Low motor power, low noise, light weight and easy to operate.
- ◆ Actuator and valve body easy to connect, allowing for simple and quick removal or installation without any tools, and making operation very convenient.

Applications:

This series of valves can be used in central air conditioning, heating and chilled water systems, building automation systems, steam humidification systems, etc.

Model Designation:

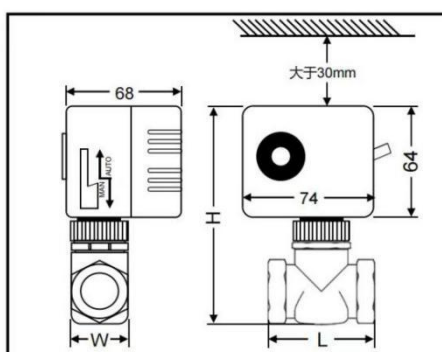
For example: A1004TS-20T/XA

1. "A1004": Fan Coil Unit (FCU) Two-Way Valve;
2. "T" : Threaded Connection;
3. "S" On-Off Type;
4. "-" : separator;
5. "-20" : Nominal Diameter DN20;
6. "T" : brass body; "B" : bronze body; "P" : stainless steel;
7. "XA" : Voltage AC220V;

Technical Specification:

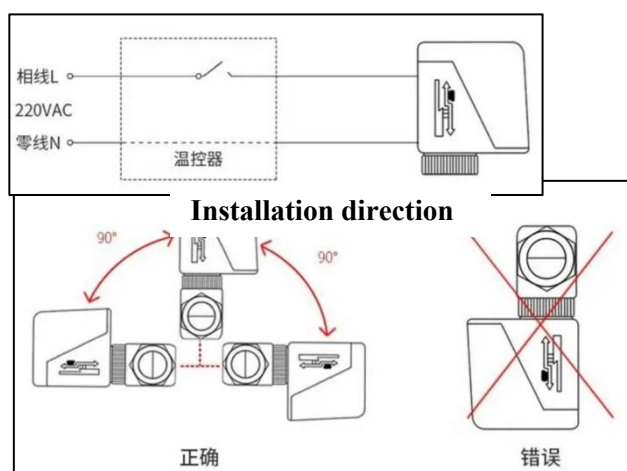
PN(Nominal Pressure)	PN16, PN25 for option
Connection Standard	Threaded Connection BSP
Working Temperature	2°C~94°C
Body, core	Brass
Seal	O-ring --EPDM
Medium	Chilled/hot water or ethylene glycol with concentration less than 50%
Power	6W
Voltage	AC24V, AC110V, AC220V
Opening Time	18S
Closing Time	7S

Dimensions Chart

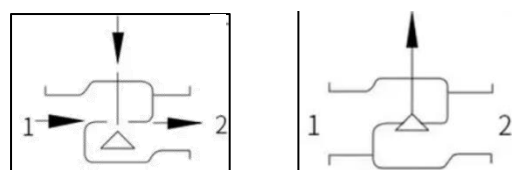


Nominal Pressure (mm)	Pipe diameter (in.)	Connection Type	H (mm)	L (mm)	W (mm)	Kvs (m³/h)	Shut-off Differential Pressure (MPa)
DN15	1/2"	Two-way	121	59.7	31	1.6	0.25
DN20	3/4"	Two-way	121	59.7	31	2.5	0.1
DN25	1"	Two-way	123	62	38	4.0	0.05

Wiring Diagram



Valve operation: Open downward, close upward.



Manual / Auto selection switch

