SR2020 SERIES DETACHABLE VALVE

DESCRIPTION

SR2020 Series motorized valve is constituted with SRA2000 series actuator and SRV2020 series valve body. It is used to control the opening or closing for the pipe in chilled/hot water system to control the room temperature. The actuator is driven by hysteresis synchronous motor, and returned by spring. Valve is normally close. When the thermostat is asked to work, it sends a signal to the actuator to the valve. After the valve is opened, the chilled/hot water enters the coil, and cold/warm air is supplied to the room. When the room temperature rises to the set point, the thermostat sends a signal to the actuator to cut off the power, and the spring shuts down the valve, so the water to the coil is shut off. The room temperature is kept in the setting range all the time through opening or closing the valve.



SR2020 series motorized valve has two types—normally close 2-way and mixing 3-way, three sizes—1/2", 3/4" and 1". There are six models according to the different flow types and fluid characteristics.

The actuator is connected to the valve body by nut. It can be mounted after the valve body. It is convenient-mounted and flexible wire-connection. The flat design of the actuator makes it can be

mounted against the wall for saving space. This product is reliable, long-life, and low noise. It can instead of SR2010 series detachable valve and can work in the high temperature environment, which is often occurred in the concealed fan coil units.

MATERIAL AND TECHNICAL DATA

	MODEL	SR2020 Series valve		
MATERIAL	VALVE BODY	Forged brass		
	VALVE STEM	Stainless steel (AISI302)		
	SEAL MATERIAL	Nitrile butadiene rubber (NBR)		
	ACTUATOR PLATE	Casting aluminum alloyed		
	ACTUATOR COVER	Fireproof ABS engineering plastic (UL94V-0)		
WORKING MEDIA		Chilled / Hot water		
MEDIA TEMPERATURE		2~94 ℃		
HUMIDITY		100%		
WORKING ENVIRONMENTAL TEMPERATURE		0~60°C Max. RH: No condensation		
STORAGE TEMPERATURE		-20~65℃ Max. RH: No condensation		
PROTECTION CLASS		IP20		

SRA2020 ACTUATOR TECHNICAL DATA

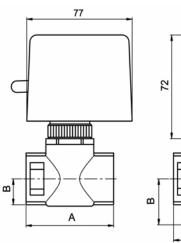
MODEL	RATED VOLTAGE	POWER	REV	DRIVING WAY	OPERATIONG TIME WHEN FIT WITH SRV20X0 VALVE BODY	
SRA2100-220	AC220V ± 10%				Fully open duration:	
SRA2100-110	AC110V ± 10%	6W 4RPM		4RPM Driven by	About 10s after power-on;	
SRA2100-24	AC24V ± 10%			synchronous	Closed duration: About 5s after power-off	
SRA2100-220R3	AC220V ± 10%			hysteresis motor	Fully open duration:	
SRA2100-110R3	AC110V ± 10%	6W	3RPM	Spring return	About 19s after power-on;	
SRA2100-24R3	AC24V ± 10%				Closed duration: About 7s after power-off	

SRV2020 VALVE BODY TECHNICAL DATA

MODEL	ТҮРЕ	SIZE	Kv FACTOR		FOR	CLOSING-OFF PRES. (kPa)	RATING PRES. (MPa)	OPTIONAL ACTUATORS
SRV2220-15	Normally close 2-way	G1/2"	0.6	1.0	1.5	250		
SRV2320-15	Mixing 3-way	G1/2"	1.5			250		SRA2100-220 SRA2100-110
SRV2220-20	Normally close 2-way	G3/4"	1.6	2.5	3.5	100	1.6	SRA2100-24
SRV2320-20	Mixing 3-way	G3/4"	2.5			100	1.0	SRA2110-220 SRA2110-110 SRA2110-24
SRV2220-25	Normally close 2-way	G1"	2.5		4.8	60		
SRV2320-25	Mixing 3-way	G1"	4.8			60		

* Optional auxiliary switch: 125~250Vac/3A

ТҮРЕ	DIMENSIONS (mm)						
	Α	В	С				
G1/2" 2-way	54	14	100				
G1/2" 3-way	54	30	100				
G3/4" 2-way	63	19	103				
G3/4" 3-way	63	32	103				
G1" 2-way	78	20	106				
G1" 3-way	78	38	106				



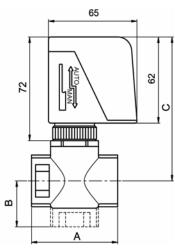


Fig. 1 Dimensions

OPERATION INSTRUCTION

When the value is mounted on horizontal pipe, the angle must be positioned less than $85^\circ~$ (See Fig. 2).

When the valve is mounted on vertical pipe, it must be prevented from dripping.

When installation, please note the arrow direction of the valve. Move the manual operating lever slowly and hold in the retaining notch, and then the valve is in normal-opened position. When the valve is first powered on, the lever goes back to the automatic position again.

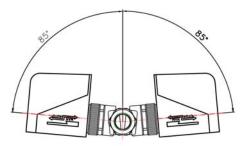


Fig. 2 Installation Position

INSTALLATION

Normal-closed 2-way and mixing 3-way valve are installed as Fig. 3 & 4. For high building, pressure-reducing valve should be installed on branch pipe at ground floor.

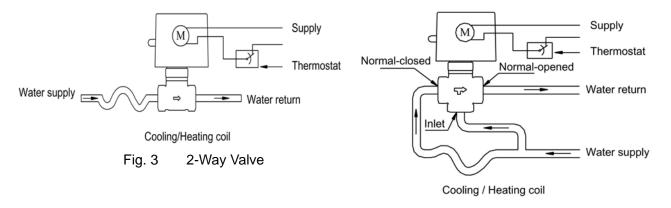


Fig. 4 3-Way Valve

When the valve is with auxiliary micro switch, the wiring diagram is as the following:

