SR01 SERIES MOTORIZED VALVE

DESCRIPTION

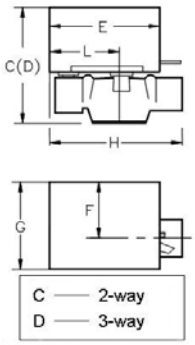
SR01 series motorized valves are used to control the opening or closing for the pipe in the chilled/hot water system so to control the room temperature. The valve is driven by hysteresis synchronous motor with spring return. The valve is normal-closed. When the thermostat is working, it will provide an opening signal, and the motorized valve will be turned on to open. Then the chilled/hot water will enter into the coil and supply the cold/hot to the room. When the room temperature rises up to the set point, the thermostat will make the valve power off. At the same time the valve will be closed by return spring and the water to the coil will be shut off. The room temperature will be kept in the setting range all the time through the opening and closing of the valve.

SR01 series motorized valve has two types: normal-closed 2-way and diverting 3-way. It has three sizes: 1/2", 3/4" and 1". There are seven kinds of specifications classified by the access type and the fluid characteristic. There are also different pipe connection for customers' selection: BSP(G), NPT(N), SWEAT(S), INVERTED FLARE(I), etc. The KA series valve is equipped with auxiliary switch to control other devices and meet different requirements.

SR01 series motorized valve is flexible, reliable, long-life and low noise. It is designed to withstand high temperature condition in many concealed fan coil applications. The installation work is very simple.

DIMENSIONS

MODEL	DIMENSION (mm)						
	C	D	E	F	G	H	L
1/2" 2-Way	105.5	-	84	35.5	63	90	56
1/2" 3-Way	-	116	84	35.5	63	90	56
3/4" 2-Way	105.5	-	84	35.5	63	93	50
3/4" 3-Way	-	119	84	35.5	63	93	50
1" 2-Way	109.5	-	84	37	63	95	47
1" 3-Way	-	125	84	37	63	95	47



SPECIFICATIONS AND DATA:

MODEL	TYPE	Max. Close-off (Mpa)	SIZE	Kv	MEDIUM	FLUID TEMP.	WORKING TEMP.	ELECTRICAL RATING
SR01(G)/(N)/(S)C21520A4*	Normal -closed 2-Way	0.20	1/2"	2.0	Chilled / hot water	<94℃	<40℃	24V, 110V, 120V, 220V± 10% 50-60HZ
SR01(G)/(N)/(S)C21532A4	Normal -closed 2-Way	0.15	1/2"	3.2				
SR01(G)/(N)/(S)B31543A4	Diverting 3-Way	0.10	1/2"	4.3				
SR01(G)/(N)/(S)C22020A4	Normal -closed 2-Way	0.20	3/4"	2.0				
SR01(G)/(N)/(S)C22032A4	Normal -closed 2-Way	0.15	3/4"	3.2				
SR01(G)/(N)/(S)B32046A4	Diverting 3-Way	0.10	3/4"	4.6				
SR01(G)/(N)/(S)C22568A4	Normal -closed 2-Way	0.10	1"	6.8				
SR01(G)/(N)/(S)B32557A4	Diverting 3-Way	0.07	1"	5.7				
SR01(G)/(N)/(S)C21520A4KA	Normal -closed 2-Way	0.20	1/2"	2.0				24V, 110V, 120V, 220V± 10% 50-60HZ Micro - switch 3A 250V
SR01(G)/(N)/(S)C21532A4KA	Normal -closed 2-Way	0.15	1/2"	3.2				
SR01(G)/(N)/(S)B31543A4KA	Diverting 3-Way	0.10	1/2"	4.3				
SR01(G)/(N)/(S)C22020A4KA	Normal -closed 2-Way	0.20	3/4"	2.0				
SR01(G)/(N)/(S)C22032A4KA	Normal -closed 2-Way	0.15	3/4"	3.2				
SR01(G)/(N)/(S)B32046A4KA	Diverting 3-Way	0.10	3/4"	4.6				
SR01(G)/(N)/(S)C22568A4KA	Normal -closed 2-Way	0.10	1"	6.8				
SR01(G)/(N)/(S)B32557A4KA	Diverting 3-Way	0.07	1"	5.7				

* A1=24Vac; A2=110Vac; A3=120Vac; A4=220/230Vac
* "KA" means the model having auxiliary switch
* All the data will be changed without prior notice.

INSTALLATION AND OPERATION INSTRUCTION

Normal-closed 2-way and diverting 3-way valve are installed as Figure 1, 2 and 3. For high building, pressure –reducing valve should be installed on branch pipe at ground floor.

Note: When the valve is mounted on horizontal pipe, the angle must be positioned less than 85° (see Figure 4).

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

Manual operating lever: 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.

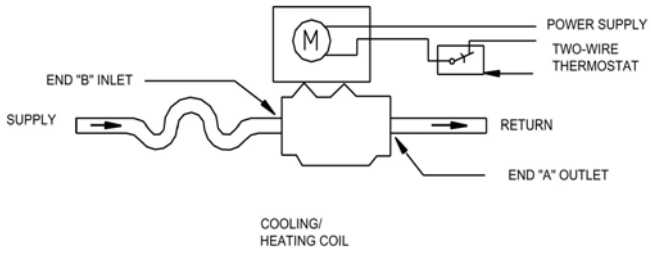


Fig. 1 Two-way valve

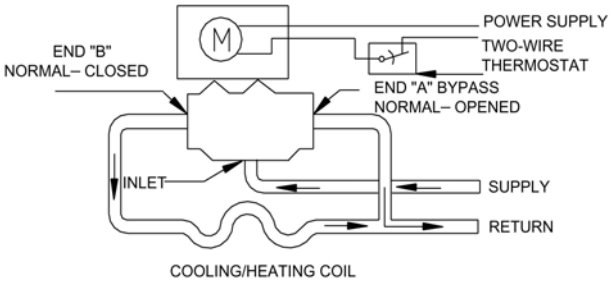
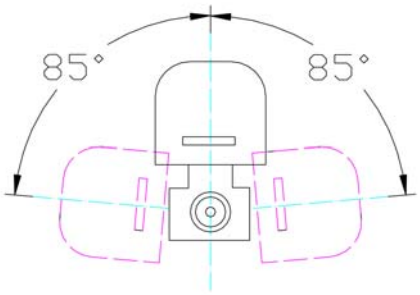


Fig. 2 Three-way valve

When install normal-closed 2-way valve, the flow direction is from end “B” to “A”, for normal-open valve, it is from end “A” to “B”. In both situations, the valve closing direction is opposite.



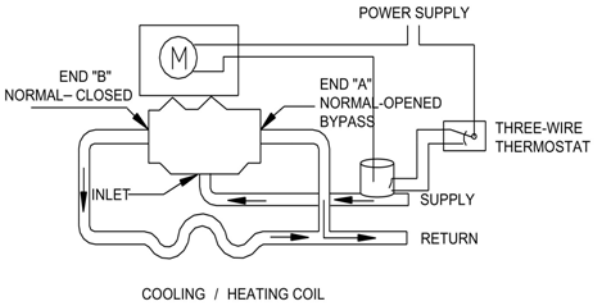


Fig. 3 Three-way valve with box change-over switch

When install diverting 3-way valve, end “B” is supply to the coil, end “A” is by-pass, there is no mark for inlet, end “A” and “B” is marked on the bottom of the valve.

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