

SR12 SERIES ZONE VALVES

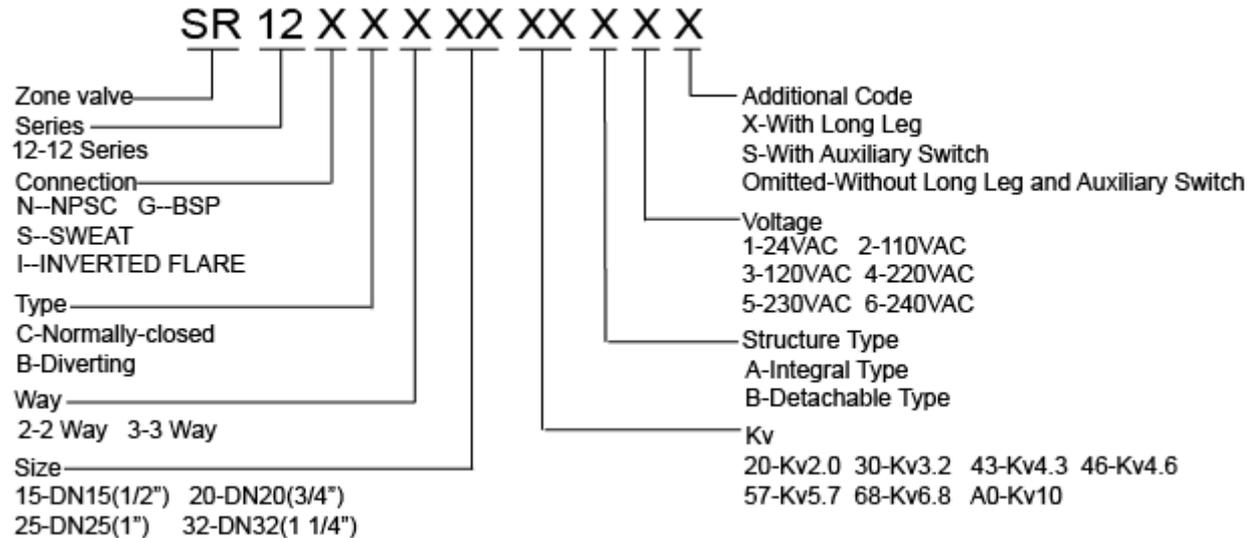
DESCRIPTION

SR12 series zone 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. It is normally-closed zone valve.

SR12 series zone valves have two types: normally-closed 2-way and diverting 3-way. They have four sizes: 1/2", 3/4", 1" and 1 1/4". There are also different pipe connection for customers' selection: BSP(G), NPT(N), SWEAT(S), INVERTED FLARE(F), etc. The valves models with S behind are equipped with auxiliary switches to control other devices and meet different requirements.



MODEL SELECTION



MATERIAL AND TECHNICAL DATA

MATERIAL	VALVE BODY	Forged brass
	SEAL MATERIAL	EPDM
	CHASSIS & COVER	Fire-retardant ABS engineering plastic
WORKING MEDIA		Chilled / hot water
MEDIA TEMPERATURE		2~94°C (36~201°F)
PRESSURE RATING		2.1MPa
RATING VOLTAGE		24Vac, 110Vac, 120V, 220/230Vac±10%, 50/60Hz
POWER		6.5W
DRIVING PARTS		Driven by synchronous motor, spring return
OPERATION DURATION		Motor: about 15s after power on Spring: 5s after power off
AMBIENT TEMPERATURE		0~60°C (32~140°F)
STORAGE TEMPERATURE		-20~65°C Max. Rh, no condensation

SPECIFICATIONS AND DATA

MODEL		TYPE	Kv	SIZE	CLOSE OFF PRESSURE
SR12(G)/(N)/(S)C21520A4	SR12(G)/(N)/(S)C21520B4	Normally close 2-Way	2.0	G1/2"	0.25MPa
SR12(G)/(N)/(S)C21532A4	SR12(G)/(N)/(S)C21532B4		3.2		0.20MPa
SR12(G)/(N)/(S)C22032A4	SR12(G)/(N)/(S)C22032B4		3.2	G3/4"	0.20MPa
SR12(G)/(N)/(S)C22046A4	SR12(G)/(N)/(S)C22046B4		4.6		0.15MPa
SR12(G)/(N)/(S)C22557A4	SR12(G)/(N)/(S)C22557B4		5.7	G1"	0.10MPa
SR12(G)/(N)/(S)C22568A4	SR12(G)/(N)/(S)C22568B4		6.8		0.08MPa
SR12(G)/(N)/(S)C232A0A4	SR12(G)/(N)/(S)C232A0B4		10.0	G1 1/4"	0.08Mpa
SR12(G)/(N)/(S)B31532A4	SR12(G)/(N)/(S)B31532B4		Diverting 3-Way	3.2	G1/2"
SR12(G)/(N)/(S)B32046A4	SR12(G)/(N)/(S)B32046B4	4.6		G3/4"	0.15MPa
SR12(G)/(N)/(S)B32557A4	SR12(G)/(N)/(S)B32557B4	5.7		G1"	0.10MPa
SR12(G)/(N)/(S)B33284A4	SR12(G)/(N)/(S)B33284B4	8.4		G1 1/4"	0.08Mpa

- The model code A means the actuator is integrated on the valve. The letter B in last second code means easy assembly actuator.
- Accessories: Auxiliary switch (250Vac/3A). If you want to order the auxiliary switch, please add an "S" behind the model name.

DIMENSIONS

MODEL	DIMENSION (mm)						
	A	B	C	D	E	F (2-way)	G (3-way)
1/2", 2-Way	80	40	91	68	65	108	--
1/2", 3-Way	80	40	91	68	65	--	118
3/4", 2-Way	89	44	91	68	65	108	--
3/4", 3-Way	89	44	91	68	65	--	120
1", 2-Way	93	44	91	68	65	110	--
1", 3-Way	93	44	91	68	65	--	126
1 1/4", 2-Way	105	54	91	68	65	124	--
1 1/4", 3-Way	105	54	91	68	65	--	139

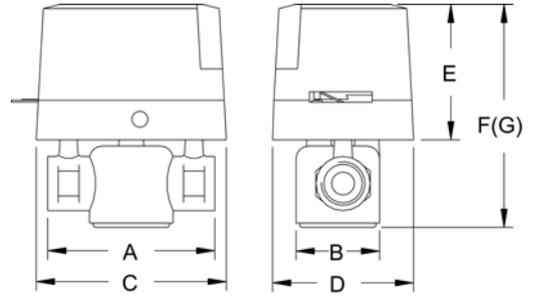
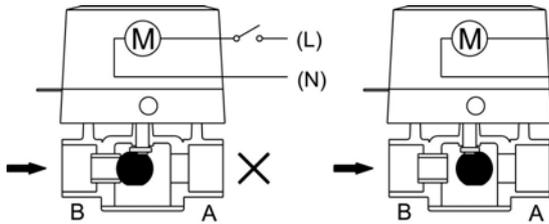


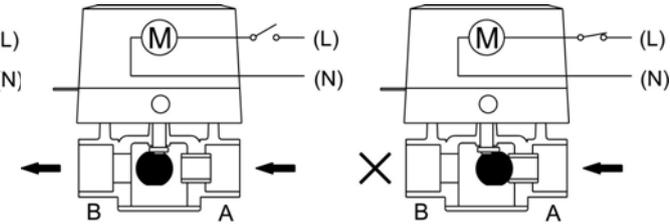
Fig. 1

WORKING SITUATION

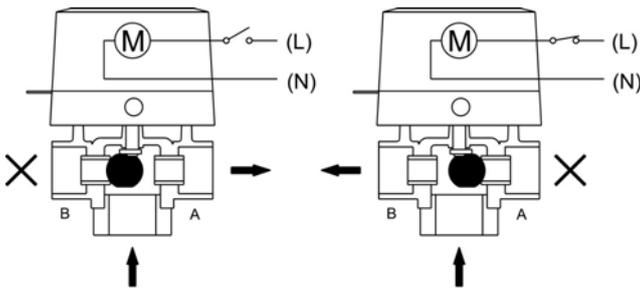
2-way normally-closed valve



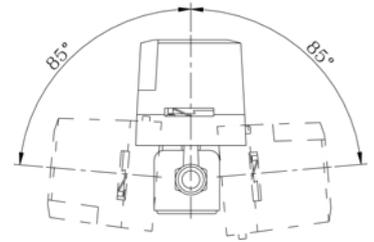
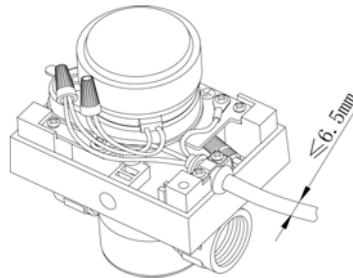
2-way normally-open valve



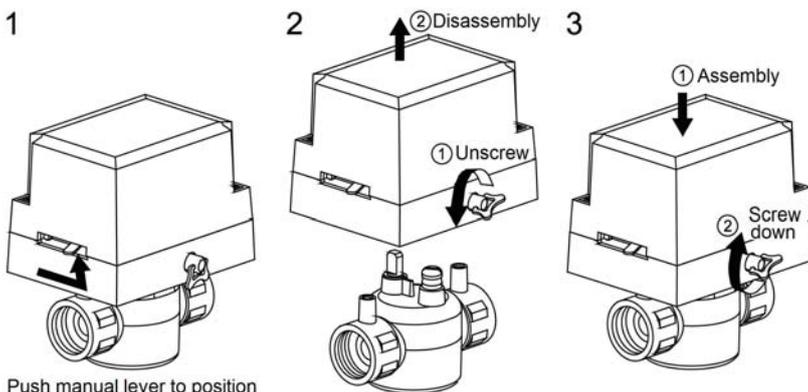
3-way diverting valve



WIRING & INSTALLATION REQUEST



ASSEMBLY/DISASSEMBLY INDICATION



Push manual lever to position "MANU" and fix it in the notch.

Notice: After installation, must remove the lever stopper before the first use.

INSTALLATION:

- Wiring must be undertaken in accordance with local national standard.
- Earth wire must be permanently connected to the actuator. It is suggested to connect it as above diagram.

NOTICE:

- For high-rise building, please install reducing valve on the branch pipes of lower floors.
- If the valve is installed on vertical pipe, please avoid water drops into the actuator.
- The actuator can not be covered by any insulation material to avoid motor damage by overheating.

WARNING:

- Please shut power off when maintaining or repairing.
- Please don't touch or try to wiring when power is on.