

VS8 Series 2-way/3-way FCU Control Valves

INSTALLATION MANUAL

Technical

Actuators:

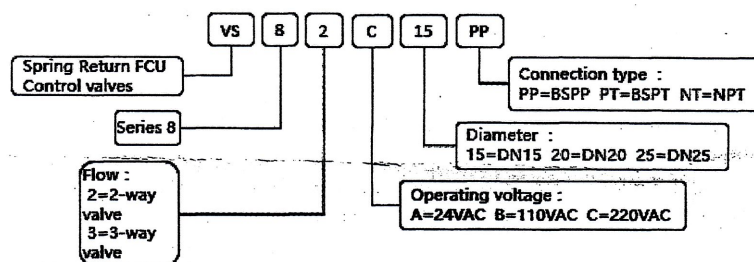
Operation voltage: 220Vac±10%, 110Vac±10%
24Vac±10% 50/60Hz
Control mode: Spring return, normal close when power off
Operating temperature: 0~50°C
Operating relative humidity: 10%~90%RH, no condensating
Power: ≤7VA
Operating time: Motor: ≤20s
Spring: ≤15s
Protection rating: IP20

Valves:

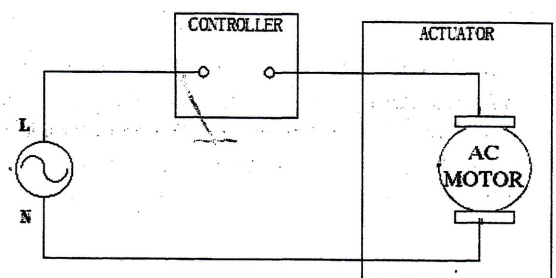
Applicable medium: Cold or hot water, up to 50% glycol
Medium temperature: 0~94°C
Operating temperature: 0~50°C
Operating relative humidity: 10%~90%RH
Storage conditions: -20~65°C, 10%~90%RH, no condensating
Nominal pressure: PN20
Materials: Valve body: HPb59-2
Valve stem: HPb59-2
Valve flap: EPDM

Model	Dimension	Flow	Kv	Close-off Differential Pressure (PSI/Mpa)
VS82X15XX	1/2" (15mm)	2-way	1.7	58(0.4)
VS82X20XX	3/4" (20mm)		2.3	50(0.35)
VS82X25XX	1" (25mm)		3.5	30(0.2)
VS83X15XX	1/2" (15mm)	3-way	1.7	58(0.4)
VS83X20XX	3/4" (20mm)		2.7	50(0.35)
VS83X25XX	1" (25mm)		3.5	30(0.2)

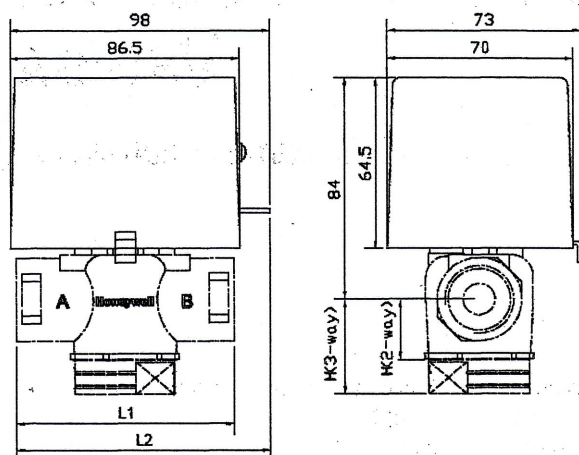
Product Identification System



Wiring



Dimensions (mm)



Model	Dimension (mm)		
	L1	L2	H
VS82X15XX	64	87	23
VS82X20XX	82	96	23
VS82X25XX	88	99	26
VS83X15XX	64	87	30
VS83X20XX	82	96	36
VS83X25XX	88	99	41

Installation Guide

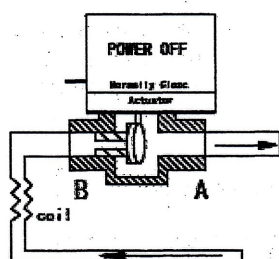


Fig.1:2-way Normally Closed to the Coil

3-way is only configured as N.C. to B port for N.O. configuration to the coil, simply turn the valve around.

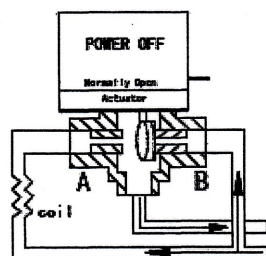


Fig.2:3-way valve in Mixing Configuration, Normally Open to coil

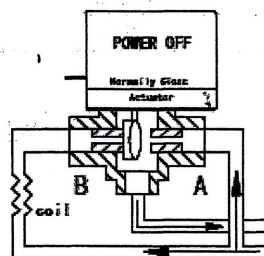


Fig.3:3-way valve in Mixing Configuration, Normally Closed to coil

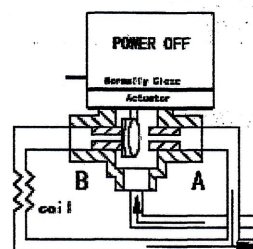


Fig.4:3-way valve in Diverting Configuration, Normally Closed to coil

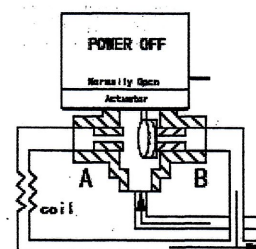


Fig.5:3-way valve in Diverting Configuration, Normally Open to coil

- The flow direction is from "B" to "A", refer to figure 1.
- When installing the actuator of normal-closed valve, it must be placed in the open condition by manual operating lever.
- The manual operating lever of the actuator will move to the automatic position when the valve is operated first time.
- VS8 Series valves are designed for the application to closed system. Use in open system is not recommended. High levels of dissolved oxygen and chlorine round in open systems may erode the valve material and result in premature failure.

Honeywell

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Subject to change without notice.