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Johnson Controls

www.johnsoncontrols.com

VLC2000 Series Electric Zone Valves

Johnson Controls

VLC2000 Series Electric Zone Valves

The VLC2000 Series is designed to control water flow according to signal received from the controller. This maintains the room temperature by adjusting water flow through the fan coil unit.

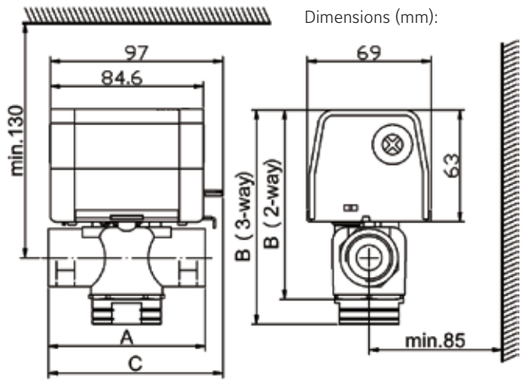
The VLC2000 Series features a spring return function, and are available in DN15/20/25 valve sizes. The valve and actuator can be easily assembled on the field without accessories and commissioning.

Sizing Table

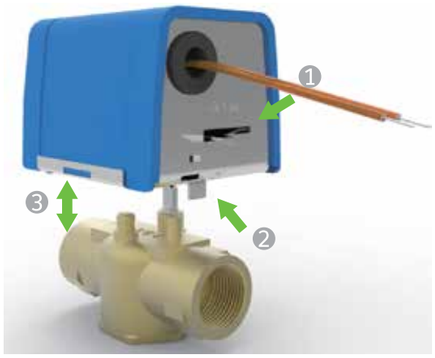
Model	DN Size	Type	Kv (Cv)	Close-off pressure	Weight (g)	Dimensions (mm)		
						A	B	C
VLC2200FC-C	DN15	2-way	1.7 (2.0)	0.45 MPa (65PSI)	700	70	106	91
VLC2200GC-C	DN20		2.2 (2.5)	0.35 MPa (50PSI)	850	87	106	99
VLC2200HC-C	DN25		3.0 (3.5)	0.20 MPa (30PSI)	1000	95.5	112	103
VLC2300FC-C	DN15	3-way	1.7 (2.0)	0.45 MPa (65PSI)	750	70	115	91
VLC2300GC-C	DN20		2.6 (3.0)	0.35 MPa (50PSI)	900	87	120	99
VLC2300HC-C	DN25		3.4 (4.0)	0.20 MPa (30PSI)	1050	95.5	128	103

Dimensions

Dimensions (mm):



Valve and Actuator Assembly



- For normally-closed valve actuator installation, the manual operating lever must be placed in the 'open' position.
- It is important to note that the manual operating lever will move to the 'automatic' position when the valve is powered up for the first time.

VLC2000 Application

The VLC2000 Series valves are designed for closed system applications. Open system applications are not recommended as high levels of dissolved oxygen and chlorine present in open systems may erode the valve material, resulting in premature failure.

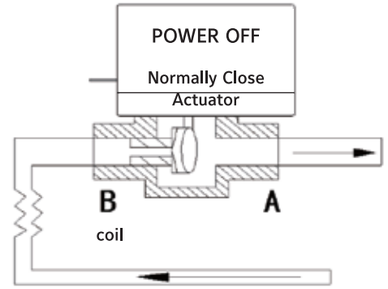


Fig.1: 2-way normally closed to the coil

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

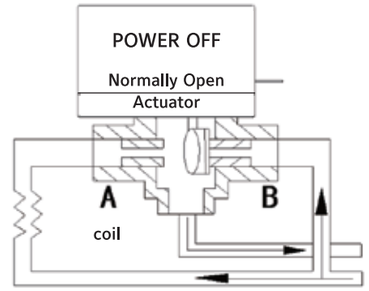


Fig.2: 3-way valve in mixing configuration, normally open to coil

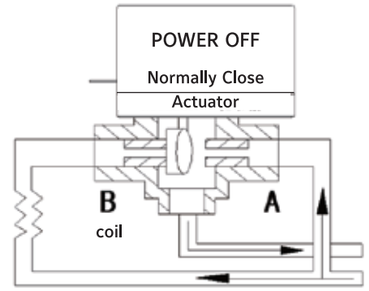


Fig.3: 3-way valve in mixing configuration, normally closed to coil

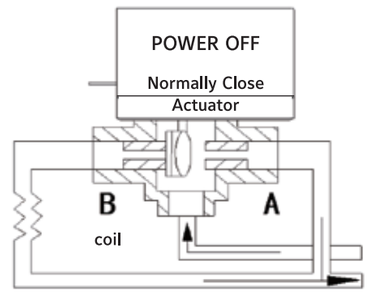


Fig.4: 3-way valve in diverting configuration, normally closed to coil

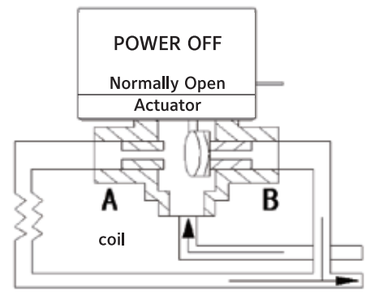


Fig.5 3-way valve in diverting configuration, normally open to coil

Specifications

Medium	Cooling or heating water	End connections	ISO7/1
Fluid temperature range	0 ~ 94℃	Power supply	220±10%VAC, 50/60Hz
Working temperature range	0 ~ 50℃	Rated power	≤7VA
Working humidity range	10%~85%RH, non-condensing	Control	ON/OFF
Storage temperature	-10~60℃	Running time	Open <18 seconds, Close <8 seconds
Rated pressure	PN20	Action	Spring return, normally close
Working pressure	300 psi / 2.0 Mpa	Material	Valve body: Brass Sealing: EPDM