

Z3100QPF-J

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For closed cold and warm water systems
For switching functions and 2-point controls on the water side of air-handling units and heating systems

• Snap-assembly of the actuator







Type overview

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Technical data

Functional data	Valve size [mm]	1" [25]	
	Fluid	chilled or hot water, up to 60% glycol	
	Fluid Temp Range (water)	36212°F [2100°C]	
	Close-off pressure ∆ps	40 psi	
	Differential pressure Δpmax	40psi	
	Flow characteristic	linear	
	Pipe connection	Press fit	
	Installation position	upright to horizontal (in relation to the stem)	
	Servicing	maintenance-free	
	Flow Pattern	3-way Diverting	
	Leakage rate	0%	
	Cv	4.4	
Materials	Valve body	forged brass	
	Stem	brass	
	Stem seal	EPDM O-ring	
	Seat	PTFE, O-Ring EPDM	
	Ball	chrome plated brass	
Suitable actuators	Non-Spring	CQB	
	Electrical fail-safe	CQKB(X)	

Safety notes



WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
If temperature exceeds 212°F operating range due to a boiler control failure the valve will safely contain the hot water but manufacturers product warranty becomes invalid. Valve and

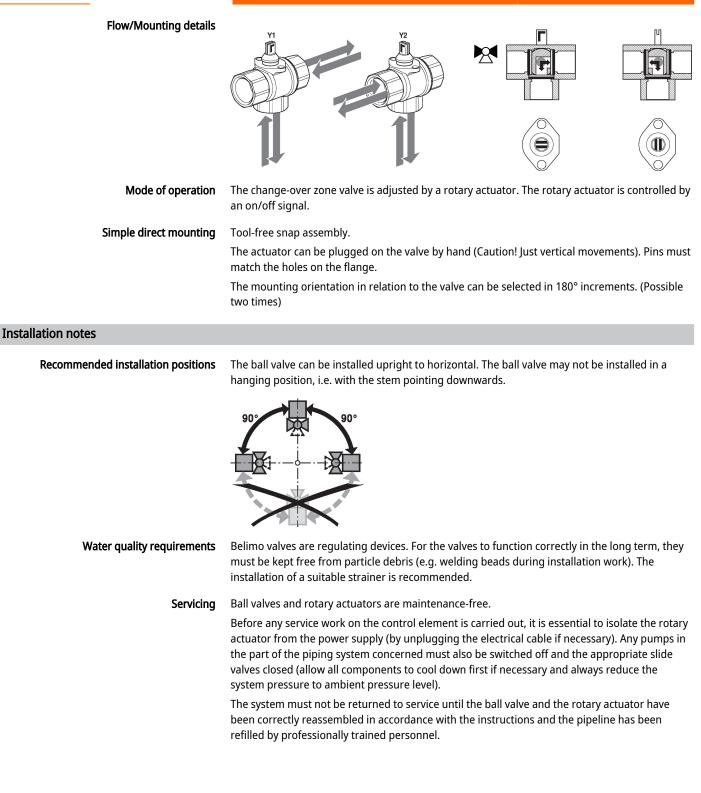
Product features

Application The QCV zone valves are suited for large commercial buildings where higher close-off and the ability to change flow is desired. Common applications include unit ventilators, fan coil units, VAV reheat coils, fin tube casing, radiant panels and duct coils. The valve fits in space restricted areas and can be assembled without the use of tools.

actuator replacement is at the expense of others.

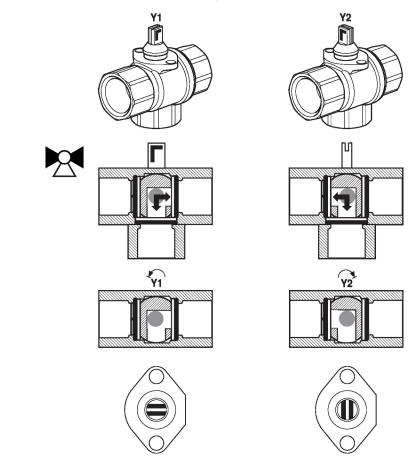


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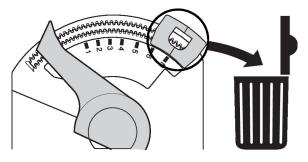




Flow direction Direction of flow in both directions possible.



Flow setting At the actuator the end stop clip has to be removed in order to get the angle of rotation of 90°, which is needed for the change-over functionality.



Dimensions

Remove end stop clip

 Type
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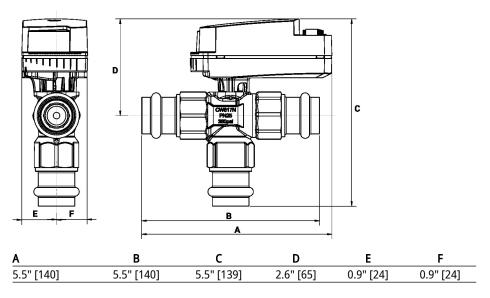
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Α	В	с	D	Е	F
5.5" [140]	5.6" [141]	5.6" [141]	2.8" [70]	0.9" [24]	0.9" [24]





CQX24-3-T

On/Off, Floating Point, Non-Spring Return, 24 V

- Nominal voltage AC/DC 24 V
- Control On/Off, Floating point
- Position feedback





Technical data

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
	Power consumption in operation	0.3 W
	Power consumption in rest position	0.15 W
	Transformer sizing	0.6 VA
	Electrical Connection	Screw terminal (for 26 to 14 GA wire), 1/2" conduit connector
	Overload Protection	electronic thoughout 090° rotation
	Electrical Protection	actuators are double insulated
Functional data	Angle of rotation	90°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	75 s / 90°
	Noise level, motor	35 dB(A)
	Position indication	pointer
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP40
	Degree of protection NEMA/UL	NEMA 1
	Enclosure	UL Enclosure Type 1
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02 CE acc. to 2014/30/EU and 2014/35/EU
	Quality Standard	ISO 9001
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	240°C
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	0.4 lb [0.2 kg]
Materials	Housing material	UL94-5VA



Application Non-Fail Safe On/Off/Floating Point ZoneTight actuator.

Valve selection should be done in accordance with the flow parameters and system specifications.

The actuator is mounted directly to the valve without the need for tools or additional linkage. The actuator operates in response to AC/DC 24 V. Angle of rotation is adjustable with the integrated mechanical stop.

Electrical installation

X INSTALLATION NOTES

Actuators may be connected in parallel. Power consumption and input impedance must be observed.

Actuators may also be powered by DC 24 V.

Actuators with plenum cable do not have numbers; use color codes instead.

Meets cULus requirements without the need of an electrical ground connection.



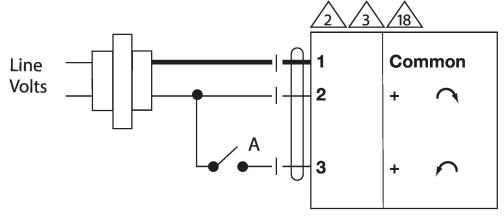
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Warning! Live electrical components!

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

Wiring diagrams

On/Off AC 24 V / DC 24 V AC 24 V Transformer



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Floating Point AC 24 V Transformer

