

## ZoneTight™, 3-way, Press fit

- For closed chilled and hot 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







Picture may differ from product

# Type overview

Туре	DN
Z3075QPF-J	20

# **Technical data**

Functional data	Valve size [mm]	0.75" [20]
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	36212°F [2100°C]
	Body Pressure Rating	250 psi
	Close-off pressure ∆ps	40 psi
	Differential pressure Δpmax	40psi
	Flow characteristic	linear
	Leakage rate	0%
	Pipe connection	Press fit
	Installation orientation	upright to horizontal (in relation to the spindle)
	Servicing	maintenance-free
	Flow Pattern	3-way Diverting
	Cv	4.6
Materials	Valve body	forged brass
	Stem	brass
	Stem seal	EPDM O-ring
	Seat	PTFE, O-Ring EPDM
	Ball	chrome plated brass
Suitable actuators	Non Fail-Safe	CQB(X)
	Electronic 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 actuator replacement is at the expense of others.



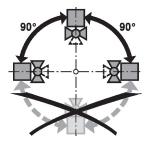
#### **Product features**

Applicatio	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.	
Flow/Mounting detai	s	
Operating mod	<ul> <li>The change-over zone valve is adjusted by a rota by an on/off signal.</li> </ul>	ary actuator. The rotary actuator is controlled
Simple direct mountin	<b>g</b> Tool-free snap assembly.	
	The actuator can be plugged on the valve by ha must match the holes on the flange.	nd (Caution! Just vertical movements). Pins
	The mounting orientation in relation to the valve two times)	e can be selected in 180° increments. (Possible
allation notes		

## Insta

Permissible installation orientation

The ball valve can be installed upright to horizontal. The ball valve may not be installed in a hanging position, i.e. with the stem pointing downwards.



Water quality requirements Belimo valves are regulating devices. For the valves to function correctly in the long term, they must be kept free from particle debris (e.g. welding beads during installation work). The installation of a suitable strainer is recommended.

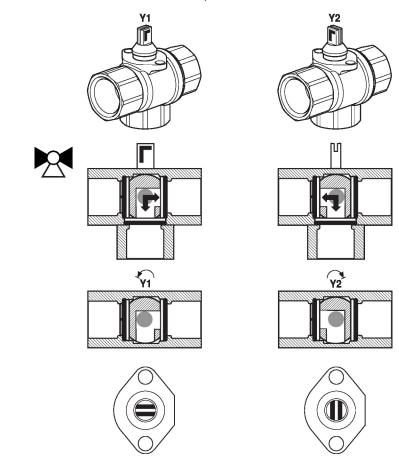
> Servicing Ball valves and rotary actuators are maintenance-free.

> > Before any service work on the control element is carried out, it is essential to isolate the rotary actuator from the power supply (by unplugging the electrical cable if necessary). Any pumps in the part of the piping system concerned must also be switched off and the appropriate slide valves closed (allow all components to cool down first if necessary and always reduce the system pressure to ambient pressure level).

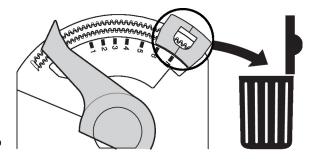
> > The system must not be returned to service until the ball valve and the rotary actuator have been correctly reassembled in accordance with the instructions and the pipeline has been refilled by professionally trained personnel.



Direction of flow in both directions possible. Flow direction



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.

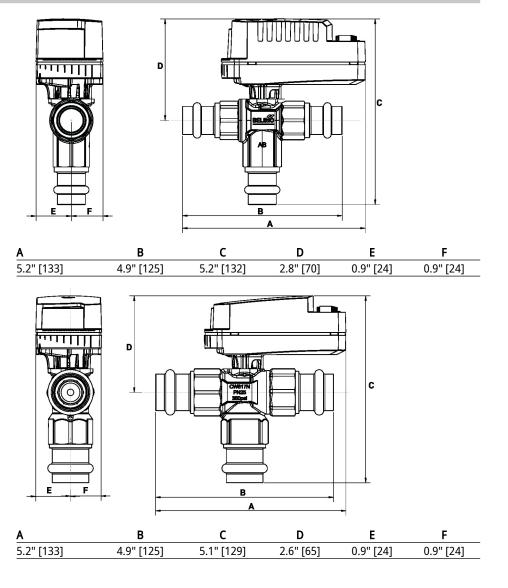


Remove end stop clip

# Dimensions

Туре	DN	Weight	
Z3075QPF-J	20	1.06 lb [0.48 kg]	







## On/Off, Electrical fail-safe, 24 V

- Nominal voltage AC/DC 24 V
- Control On/Off
- Auxiliary switch 1x SPST





# **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	2.5 W
	Power consumption in rest position	0.5 W
	Transformer sizing	5 VA
	Auxiliary switch	1x SPST, 1 A resistive @ DC 30 V
	Switching capacity auxiliary switch	1 A resistive @ DC 30 V
	Electrical Connection	22 GA plenum cable, 3 ft [1 m], 10 ft [3 m] or 16 ft [5 m], with 1/2" NPT conduit connector
	Overload Protection	electronic thoughout 090° rotation
	Electrical Protection	actuators are double insulated
Functional data	Bridging time (PF)	2 s
	Pre-charging time	520 s
	Angle of rotation	90°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	75 s / 90°
	Running time fail-safe	<60 s
	Noise level, motor	35 dB(A)
	Noise level, fail-safe	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 2
	Enclosure	UL Enclosure Type 2
	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	35104°F [240°C]
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free



Technical data sheet

COKX24-S

BELIMO		Technical data sheet	CQKX24-S
Technical data			
	Weight	Weight	0.44 lb [0.20 kg]
	Materials	Housing material	UL94-5VA
Product features			
Aŗ	oplication	Electrical fail-safe On/Off Zone	Tight 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			
		observed. Actuators may also be powered Actuators with plenum cable do One built-in auxiliary switch, 1x interlock control, fan startup, et Apply only AC line voltage or on Mixed or combined operation of Meets cULus requirements with <b>Warning! Live electrical compon</b> During installation, testing, serv to work with live electrical comp who has been properly trained i	disconnect as required. barallel. Power consumption and input impedance must be by DC 24 V. not have numbers; use color codes instead. SPST 1 A @ DC 30 V (resistive load), for end position indication, c. y UL-Class 2 voltage to the terminals of auxiliary switches. Tine voltage/safety extra low voltage is not allowed. but the need of an electrical ground connection. <b>ents!</b> icing and troubleshooting of this product, it may be necessary onents. Have a qualified licensed electrician or other individual n handling live electrical components perform these tasks. ety precautions when exposed to live electrical components
Wiring diagrams		Auxiliary	Switch

