

Technical data sheet

Z2075QPF-K

• 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	
Туре	DN
Z2075QPF-K	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]	
	Close-off pressure ∆ps	75 psi	
	Differential pressure Δpmax	40psi	
	Flow characteristic	equal percentage	
	Angle of rotation note	Operating range 1590°	
	Pipe connection	Press fit	
	Installation position	upright to horizontal (in relation to the stem)	
	Servicing	maintenance-free	
	Flow Pattern	2-way	
	Leakage rate	0%	
Controllable flow range		75°	
	Cv	9.8	
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	СQВ	
	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 actuator replacement is at the expense of others.

Product features

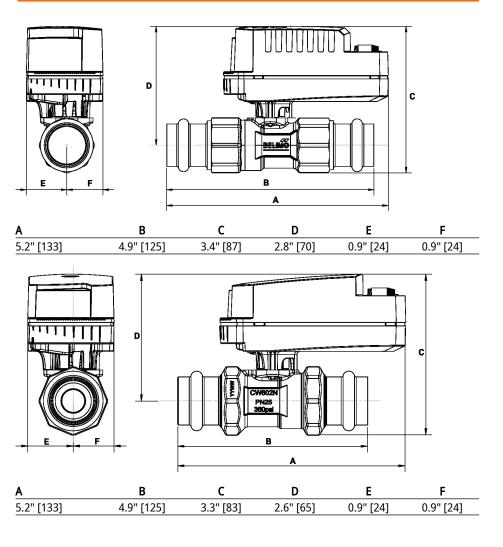
ApplicationThe QCV zone valves are suited for large commercial buildings where higher close-off and the
ability to change flow is desired. Common applications include unit ventilators, fan coil units,
VAV reheat coils, fin tube casing, radiant panels and duct coils. The valve fits in space restricted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



BELIMO	Technical data sheet	Z2075QPF-K
Mode of operation	The ball valve is adjusted by a rotary actuator. The rota signal or by a commercially available modulating or flo ball of the ball valve – the throttling device – to the pos the ball valve is carried out counterclockwise and close	bating point control system and moves the sition preset by the control signal. Open
Simple direct mounting	Tool-free snap assembly.	
	The actuator can be plugged on the valve by hand (Cau match the holes on the flange.	ution! Just vertical movements). Pins must
	The mounting orientation in relation to the valve can b two times)	e selected in 180° increments. (Possible
Installation notes		
Recommended installation positions	The ball valve can be installed upright to horizontal. Th hanging position, i.e. with the stem pointing downwar	
Water quality requirements	Belimo valves are regulating devices. For the valves to must be kept free from particle debris (e.g. welding be installation of a suitable strainer is recommended.	
Servicing	g 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 be been correctly reassembled in accordance with the ins refilled by professionally trained personnel.	-
Flow direction	Direction of flow in both directions possible.	
		0%
Flow setting	The angle of rotation of the actuator can be changed b set the kvs value (maximum flow rate of the valve).	y a clip in 2.5° increments. This is used to
	Remove end stop clip and place at desired position.	
	After every change of the flow setting by means of end triggered on the modulating actuators.	l stop clip, an adaptation must be
Dimensions		
Туре		DN
Z2075QPF-K		20



Z2075QPF-K





Technical data sheet

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.



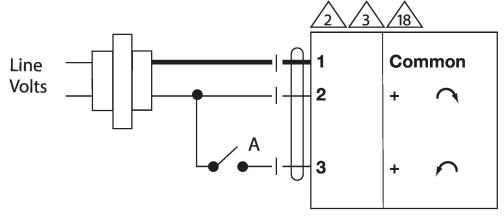
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Warning! Live electrical components!

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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100%	/-	\langle

Floating Point AC 24 V Transformer

