

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

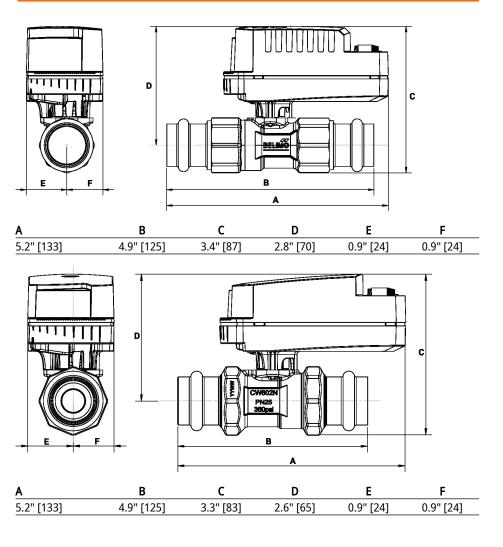
ApplicationThe QCV zone valves are suited for large commercial buildings where higher close-off and the
ability to change flow is desired. Common applications include unit ventilators, fan coil units,
VAV reheat coils, fin tube casing, radiant panels and duct coils. The valve fits in space restricted
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 | 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 |
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Z2075QPF-K





Technical data sheet

CQXUP-3-T

On/Off, Floating Point, Non-Spring Return, AC 100...240 V

- Nominal voltage AC 100...240 V
- Control On/Off, Floating point
- Position feedback





Technical data

| Electrical data | Nominal voltage | AC 100240 V |
|-----------------|------------------------------------|---|
| | Nominal voltage frequency | 50/60 Hz |
| | Nominal voltage range | AC 85265 V |
| | Power consumption in operation | 1 W |
| | Power consumption in rest position | 1.1 W |
| | Transformer sizing | 2 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 |
| | Our lite Standard | 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 100...240 V. Angle of rotation is adjustable with the integrated mechanical stop.

Electrical installation



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

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

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

Marning! 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 110...230 V

