ZoneTight™, 2-way, Press fit

- · For closed water systems
- For switching functions and On/Off controls on the water side of ventilation systems and heating systems
- Snap-assembly of the actuator





Picture may differ from product

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ype overview		
уре		DN
2050QPF-F		1/2" [15]
echnical data		
Functional data	a Valve size [mm]	0.5" [15]
	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	75 psi
	Differential pressure Δpmax	40 psi
	Flow characteristic	equal percentage
	Leakage rate	0%
	Angle of rotation note	Operating range 1590°
	Pipe connection	Press fit
	Installation orientation	upright to horizontal (in relation to the spindle)
	Servicing	maintenance-free
	Flow Pattern	2-way
	Controllable flow range	75°
	Cv	1.4
Materials	s Valve body	forged brass
	Stem	brass
	Stem seal	EPDM O-ring
	Seat	PTFE, O-Ring EPDM
	Ball	chrome plated brass

Safety notes



Suitable actuators

Non Fail-Safe Electronic fail-safe

 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

CQB(X)

CQKB(X)

• 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

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.

Operating mode

The ball valve is adjusted by a rotary actuator. The rotary actuator is controlled by an on/off signal or by a commercially available modulating or floating point control system and moves the ball of the ball valve – the throttling device – to the position preset by the control signal. Open the ball valve is carried out counterclockwise and close it clockwise.

Simple direct mounting

Tool-free snap assembly.

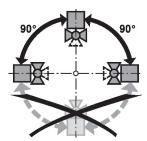
The actuator can be plugged on the valve by hand (Caution! Just vertical movements). Pins must match the holes on the flange.

The mounting orientation in relation to the valve can be selected in 180° increments. (Possible two times)

Installation notes

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

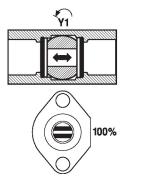
Ball valves and rotary actuators are maintenance-free.

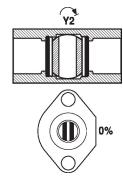
Before any service work on the control element is carried out, it is essential to isolate the rotary actuator from the power supply (by unplugging the electrical cable if necessary). Any pumps in the part of the piping system concerned must also be switched off and the appropriate slide valves closed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

Flow direction

Direction of flow in both directions possible.







Installation notes

Flow setting

The angle of rotation of the actuator can be changed by a clip in 2.5° increments. This is used to set the Kvs value (maximum flow rate of the valve).

Remove end stop clip and place at desired position.

After every change of the flow setting by means of end stop clip, an adaptation must be triggered on the modulating actuators.

Dimensions

