

# Belimo ZoneTight™ Valves

## Efficient in Every Way



Compact  
Size

Low Power  
Consumption

Zero  
Leakage

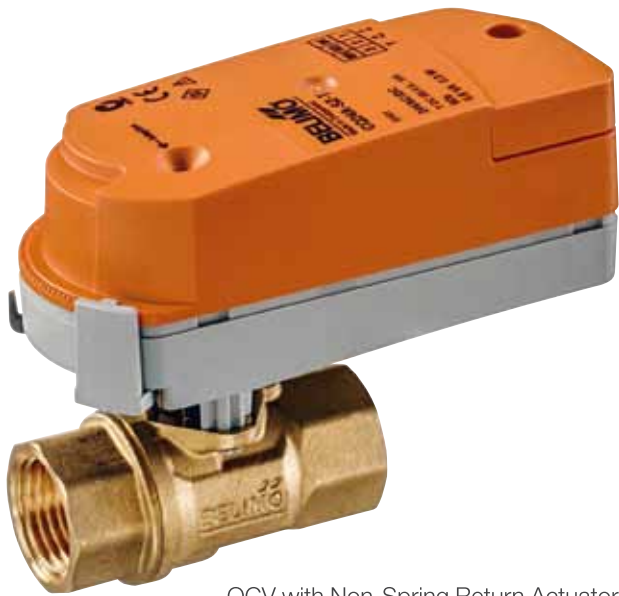
BELIMO  
**ZoneTight™**

The ideal solution for energy-saving room and zone control.

**BELIMO®**

# Efficient in Every Way

Designed for maximum efficiency in tight spaces, Belimo's ZoneTight valve offering sets new design and performance standards for both pressure dependent and pressure independent zoning applications.



QCV with Non-Spring Return Actuator

## ZoneTight Zone Valve (QCV)

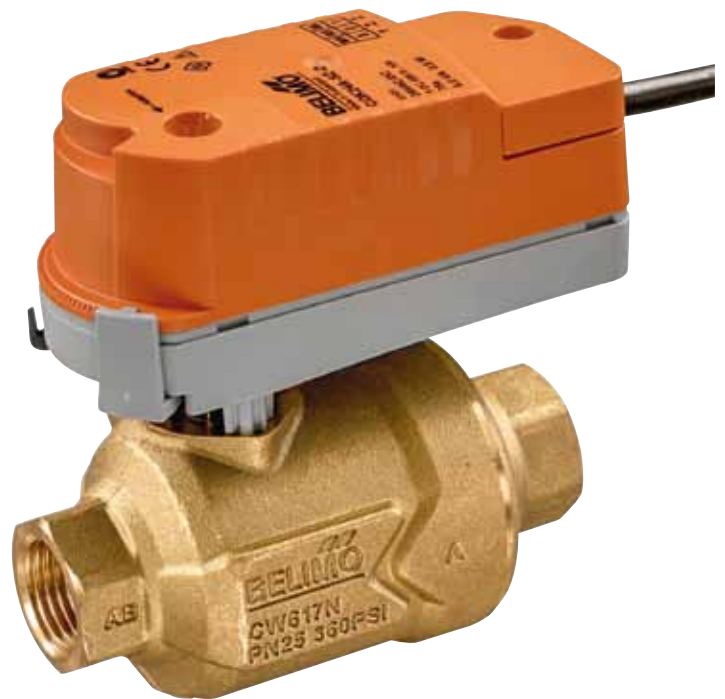
The ultra-compact QCV leads the way in Belimo's new generation of room and zone solutions. Equipped with a space-saving 2-way or 3-way ball valve and an electronic rotary actuator, the QCV has an installation height of just 110mm and offers a number of benefits over conventional pressure dependent control valves, including:

- Belimo ball valve design with zero leakage eliminates energy loss.
- Self-cleaning ball valve technology provides superior clog resistance.
- High body pressure rating PN25.
- Low power consumption up to 95% less than conventional zone valves.
- Field adjustable Kvs value to meet your design requirements.

## ZoneTight Pressure Independent Zone Valve (PIQCV)

The PIQCV offers all the advantages of a Pressure Independent Characterised Control Valve (PICCV) but in an ultra compact configuration. The PIQCV combines a differential pressure regulator with a 2-way control valve to supply a specific flow for each degree of ball opening regardless of system pressure fluctuations. The valve performs the function of a balancing valve and control valve in one unit.

- High body pressure rating PN25.
- Low working pressure - 16kPa to be pressure independent.
- Belimo ball valve design with zero leakage eliminate energy loss.
- Smallest pressure independent characterised ball valve in the market.
- Actuator runs at 0.3W saving energy and transformer power.
- Flow is adjustable at the actuator and always perfectly balanced.
- Time is saved by dynamic and static hydraulic balancing.



PIQCV with Electronic Fail-Safe Actuator  
(SuperCap Technology)

# More Than a Standard Zone Valve

## Ball Valve Technology

Unlike short stroke globe valves, the self-cleaning ball helps minimise energy losses caused by clogging (0% A – AB leakage) and eliminates overflow from pump pressure seat lift. In addition, high close-off capabilities ensure shut-off and allow for true equal percentage flow characteristics.



## Actuator with Patented Brushless DC Motor

The brushless DC motor's power consumption when running is a mere 0.3W (0.15W when holding) saving energy and transformer power. In addition to significantly reducing energy costs, this helps eliminate failures due to stalled motors and prolongs actuator life. It also allows for more units to be powered by a single transformer.

## Snap Fitting

The QCV and PIQCV easily connect to the actuator allowing operators and technicians to install valves quickly, easily, and without the use of tools. This helps simplify commissioning, reduces labor costs and help reduce inventory.

## Field Adjustable Max Kvs/Flow

QCVs and PIQCVs can be quickly and easily field adjusted to ensure that necessary design requirements are met.





## Stem Extension for Insulation

Unlike conventional zone valve actuators, which are normally covered by pipe insulation, the stem extension on QCVs and PIQCVs allows for easy actuator removal without damaging the surrounding insulation, helping simplify operation and maintenance activities.

## Overall Benefits

- Increased reliability, even after powered-close during off periods.
- Ball valve technology avoids clogging.
- High body pressure rating PN25.
- Patented brushless DC motor runs at only 0.3W maximising energy savings.
- Zero leakage means no energy losses.
- Ultra-compact design allows for installation in tight areas.
- Field set adjustment of Kvs and maximum flow is fast.
- Snaps together quick and easy; no tools are required for assembly or flow adjustment.
- Comprehensive 5-year warranty.

# ZoneTight Series & Accessories

			Model	Kvs	Inches	DN (mm)	Non-Spring	Electronic Fail-Safe	Fast Running
<b>QCV</b>	2-way		C215Q-J	4.8	1/2	15	CQ Series	CQK Series	CQC CQD
			C220Q-K	8	3/4	20			
	3-way		C315Q-H	2.5	1/2	15			
			C320Q-J	4	3/4	20			
			Model	l/s	Inches	DN (mm)	Non-Spring	Electronic Fail-Safe	Fast Running
<b>PIQCV</b>	without PT Port		C215QP-B	0.058	1/2	15	CQ Series	CQK Series	CQC CQD
			C215QP-D	0.12	1/2	15			
			C220QP-F	0.27	3/4	20			
	with PT Port		C215QPT-B	0.058	1/2	15			
			C215QPT-D	0.12	1/2	15			
			C220QPT-F	0.27	3/4	20			



<b>Stem Extension (QCV/PIQCV)</b>	<b>Insulation Spacer</b> for cooling applications	<b>Error Proof Positioning</b>
<b>Manual Flow Setter (PIQCV)</b>	<b>Flow Limiter</b> for easy flow setting no tools are required	<b>Snap Interface</b>
<b>Architectural Cover</b>	<b>Simple Design</b> covers complete actuator	<b>Snap Fitting</b> no tools required



5 year warranty



On site around the globe



Complete range



Tested quality



Short delivery times



Comprehensive support