Belimo ZoneTight™ Zone Valves
Efficient in Every Way

Discover the advantages
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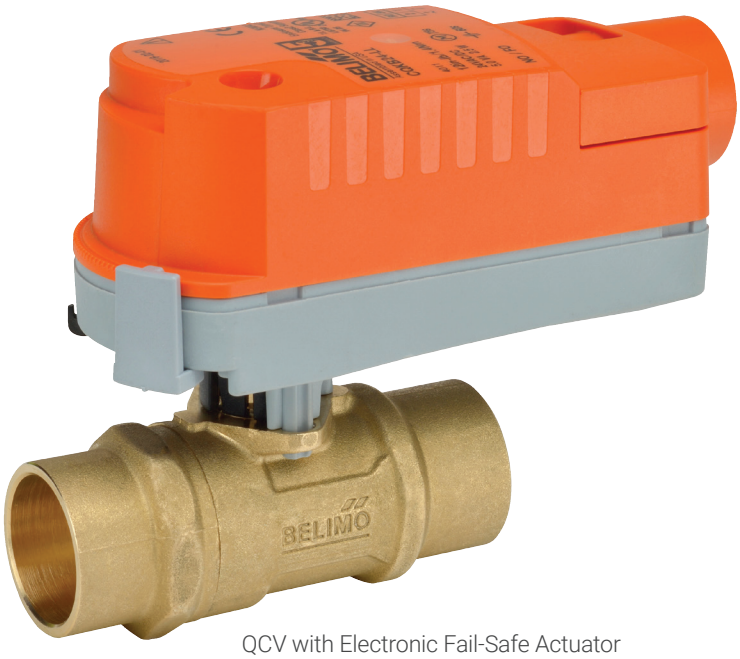
BELIMO

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.



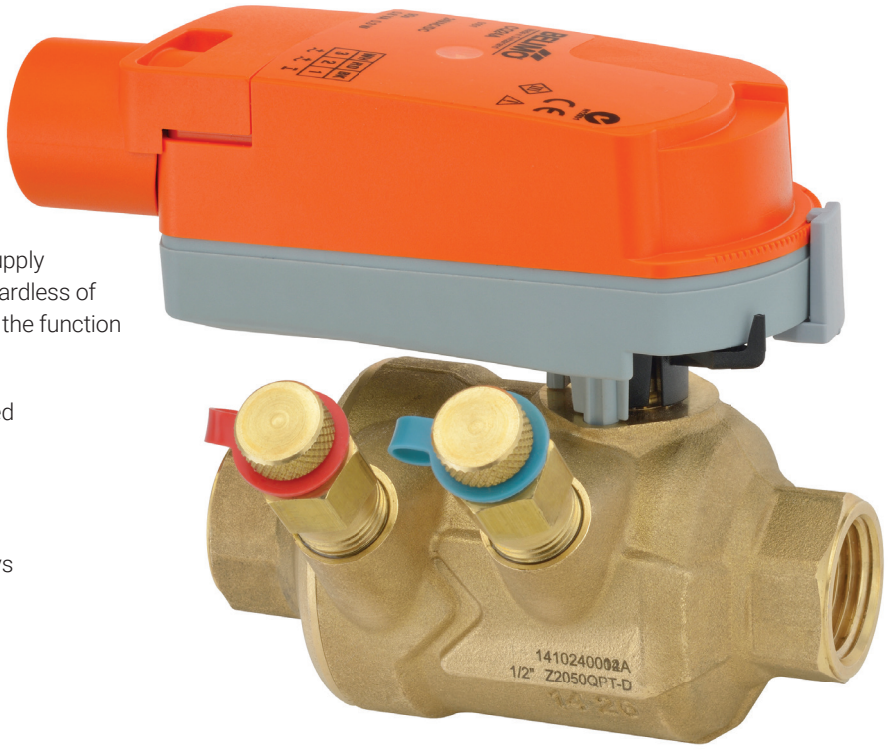
QCV with Electronic Fail-Safe Actuator

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 4.33 inches (110 mm) and offers a number of benefits over conventional pressure dependent control valves.

- Belimo ball valve design with zero leakage eliminates energy loss.
- Self-cleaning ball valve technology provides superior clog resistance.
- 95% less power consumption than conventional zone valves.
- Field adjustable Cv value to meet your design requirements.

ZoneTight Pressure Independent Zone Valve (PIQCV)
The PIQCV provides all the benefits of the QCV, with the added advantage of being pressure independent.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.

- Smallest pressure independent characterized ball valve in the market.
- Actuator runs at 0.3 W saving energy and transformer power.
- Flow is adjustable at the actuator and always perfectly balanced.
- Permits PIV installation in tight spaces.



PIQCV with Non-Spring Return Actuator

5

5-year warranty

More Than a Standard Zone Valve

Ball Valve Technology
Unlike short stroke globe valves, the self-cleaning ball helps minimize energy losses caused by clogging and eliminates overflow from pump pressure seat lift. In addition, high close-off capabilities ensure shut-off (0% A – AB leakage) 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 Fit
The QCV and PIQCV easily connects to the actuator allowing operators and technicians to install valves quickly, easily, and without the use of tools. This helps simplify commissioning and reduces labor costs.

Field Adjustable Max Cv/Flow
QCVs and PIQCVs can be quickly and easily field adjusted to ensure that necessary design requirements are met and reduces inventory.

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.

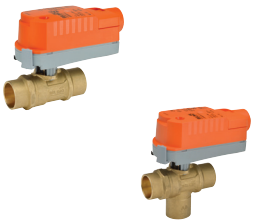
Overall Benefits

- Increased reliability, even after powered-close during off periods.
- Ball valve technology avoids clogging.
- Patented brushless DC motor runs at only 0.3 W maximizing energy savings.
- Zero leakage means no energy losses.
- Ultra-compact design allows for installation in tight areas.
- Field set adjustment of Cv and maximum flow is fast.
- Valve and actuator snap together quickly and easily; no tools are required for assembly or flow adjustment.
- Comprehensive 5-year warranty.
- Available electronic fail-safe or non-spring return actuator to meet application requirements.

Accessories

	**Stem Extension (for use with QCV/PIQCV)**	Insulation Spacer	Error Proof Positioning
	**Manual Flow Setter (for use with QCV/PIQCV)**	Flow Limiter for easy flow setting. No tools are required	Snap Fit
	**Flow Orifice Device**	Manometer Readings = Flow	Stand Alone
	Architectural Cover (for use with CQ Actuators)	Simple Design covers complete actuator	Snap Fit no tools are required

ZoneTight Series

		C_V	Inches	DN [mm]	2-way	3-way	Non Fail-Safe	Fail-Safe
	NPT	1.4*	½	15	Z2050Q-F		CQB Series	CQKB Series
		5.9*	½	15	Z2050Q-J			
		9.8*	¾	20	Z2075Q-K			
		8.2*	1	25	Z2100Q-K			
		1	½	15		Z3050Q-E		
		2.7	½	15		Z3050Q-H		
		4.6	¾	20		Z3075Q-J		
		4.4	1	25		Z3100Q-J		
	Sweat	1.4*	½	15	Z2050QS-F			
		5.9*	½	15	Z2050QS-J			
		9.8*	¾	20	Z2075QS-K			
		8.2*	1	25	Z2100QS-K			
		1	½	15		Z3050QS-E		
		2.7	½	15		Z3050QS-H		
		4.6	¾	20		Z3075QS-J		
		4.4	1	25		Z3100QS-J		
	Press Fit	1.4*	½	15	Z2050QPF-F			
		5.9*	½	15	Z2050QPF-J			
		9.8*	¾	20	Z2075QPF-K			
		8.2*	1	25	Z2100QPF-K			
		1	½	15		Z3050QPF-E		
		2.7	½	15		Z3050QPF-H		
		4.6	¾	20		Z3075QPF-J		
		4.4	1	25		Z3100QPF-J		

		GPM	Inches	DN [mm]	2-way with PT ports	Non Fail-Safe	Fail-Safe
	NPT	0.9*	½	15	Z2050QPT-B	CQ Series	CQK Series
		2.0*	½	15	Z2050QPT-D		
		4.3*	½	15	Z2050QPT-F		
		9.0*	¾	20	Z2075QPT-G		
	Press Fit	0.9*	½	15	Z2050QPTPF-B		
		2.0*	½	15	Z2050QPTPF-D		
		4.3*	½	15	Z2050QPTPF-F		
		9.0*	¾	20	Z2075QPTPF-G		

*Maximum flow value can be field adjusted, see actuator instructions.
Order "X" model actuators for Factory Clip Setting, see instruction manual for details.

Belimo Americas
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