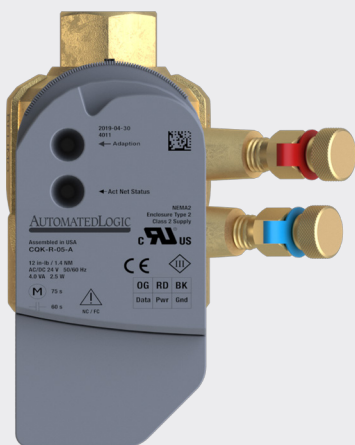


OptiPoint™ Smart Valves

for Pressure Independent Applications

Automated
Logic



Facility managers will benefit from more precise hot water flow in their zoning reheat systems using the new OptiPoint™ smart valves. These valves feature communicating actuators that allow Automated Logic terminal unit controllers to manage reheat valve positions directly using serial commands. This communications technology offers more precise control than conventional zone valves, as the actuator is capable of modulating to any position as directed by the controller and provides exact position feedback for diagnostic purposes.

The Pressure independent models combine 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. As such, the valves perform the function of a balancing valve and control valve in one unit.

Key Features and Benefits

Communicating Actuators

Valves feature communicating actuators, eliminating the need to use physical I/O on the controller. Up to two valves can be connected to the Act Net bus on any Act Net-enabled controller. Each valve is pre-addressed for quick commissioning.

Electronic Fail-safe

Actuators utilize super capacitors to drive actuator to fail state (open, closed or in place, based on part number), on loss of power.

Exact Position Feedback

Position feedback is communicated to the WebCTRL building automation system over the Act Net bus, helping to facilitate commissioning and ensure proper operation.

Remote Accessibility

Valves can be accessed remotely via the WebCTRL system, enabling comprehensive analysis and quick error detection with Fault Detection & Diagnostics (FDD).

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.

Snap Fit

The valve bodies easily connect to the actuator, allowing operators and technicians to install valves quickly, easily, and without the use of tools. This helps simplify commissioning and helps reduce labor costs. In addition, it makes it easy to retrofit existing non-communicating valves.

Field Adjustable Max Cv/Flow

Valves can be easily adjusted either locally or remotely using the WebCTRL building automation system 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 valve stem extension allows for easy actuator removal without damaging the surrounding insulation, helping simplify operation and maintenance activities.

Actuator with Patented Brushless DC Motor

The power consumption of the brushless DC motor is 2.5W (fail safe) and .6W (fail last position) when running and 0.5W (fail safe) and .4 (fail last position) when holding, helping to save energy and transformer power. This also helps eliminate failures due to stalled motors, helps prolongs actuator life, and also allows for more units to be powered by a single transformer.



The WebCTRL® system gives you the ability to understand your building operations and analyze the results. Integrate environmental, energy, security and safety systems into one powerful management tool that allows you to reduce energy consumption, increase occupant comfort, and achieve sustainable building operations.



AUTOMATED LOGIC

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WE MAKE BUILDINGS BETTER.

Next level building automation engineered
to help you make smart decisions.

OptiPoint™ Smart Valves

for Pressure Independent Applications

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Actuator Specifications

Control type	Communication from any Act Net-enabled controller
Electrical connection	3 ft. [1 m] cable
Power consumption	2.5 W running, .5 W holding (fail safe) .6 W running, .4 W holding (fail last position)
Power supply	24 VAC/DC
Transformer sizing	5 VA

Valve Specifications

Service	chilled or hot water, 60% glycol
Flow characteristic	equal percentage (2-way),
Controllable flow range	75°
Sizes	1/2", 3/4"
End fitting	NPT female
Materials	Body Ball Stem Seats O-rings
	forged brass chrome plated brass brass Teflon® PTFE PTFE
Media temp. range	36°F to 212°F [2°C to 100°C]
Media temp. limit	250°F [120°C]
Maximum allowable operating temperature	212°F [100°C]
Body pressure rating	360 psi
Close-off pressure	200 psi
Maximum differential pressure (ΔP)	5 to 50 psi
Leakage	0%



Part Numbers & Default Characteristics

Fail Mode "Closed" Models

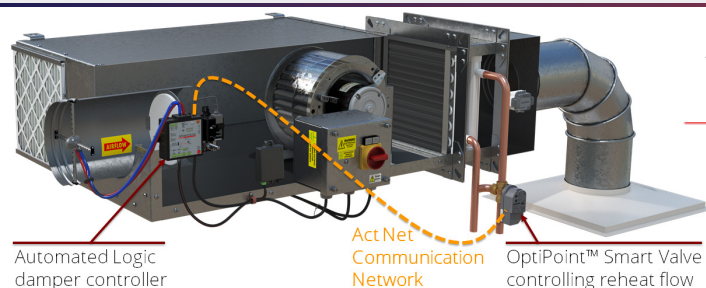
Part #	Size	Flow Rate GPM	Address
Z2050QPT-B+CQK-R-04-A	1/2"	0.9	4
Z2050QPT-B+CQK-R-05-A	1/2"	0.9	5
Z2050QPT-D+CQK-R-04-A	1/2"	2.0	4
Z2050QPT-D+CQK-R-05-A	1/2"	2.0	5
Z2050QPT-F+CQK-R-04-A	1/2"	4.3	4
Z2050QPT-F+CQK-R-05-A	1/2"	4.3	5
Z2075QPT-G+CQK-R-04-A	3/4"	9.0	4
Z2075QPT-G+CQK-R-05-A	3/4"	9.0	5

Fail Mode "Open" Models

Part #	Size	Flow Rate GPM	Address
Z2050QPT-B+CQK-L-04-A	1/2"	0.9	4
Z2050QPT-B+CQK-L-05-A	1/2"	0.9	5
Z2050QPT-D+CQK-L-04-A	1/2"	2.0	4
Z2050QPT-D+CQK-L-05-A	1/2"	2.0	5
Z2050QPT-F+CQK-L-04-A	1/2"	4.3	4
Z2050QPT-F+CQK-L-05-A	1/2"	4.3	5
Z2075QPT-G+CQK-L-04-A	3/4"	9.0	4
Z2075QPT-G+CQK-L-05-A	3/4"	9.0	5

Fail Mode "Last Position" Models

Part #	Size	Flow Rate GPM	Address
Z2050QPT-B+CQK-L-04-A	1/2"	0.9	4
Z2050QPT-B+CQK-L-05-A	1/2"	0.9	5
Z2050QPT-D+CQK-L-04-A	1/2"	2.0	4
Z2050QPT-D+CQK-L-05-A	1/2"	2.0	5
Z2050QPT-F+CQK-L-04-A	1/2"	4.3	4
Z2050QPT-F+CQK-L-05-A	1/2"	4.3	5
Z2075QPT-G+CQK-L-04-A	3/4"	9.0	4
Z2075QPT-G+CQK-L-05-A	3/4"	9.0	5



Assembled in the United States

Automated Logic damper controller

Act Net Communication Network

OptiPoint™ Smart Valve controlling reheat flow

Automated Logic

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Next level building automation engineered to help you make smart decisions.

