# **Z2050QPT-F, Pressure Independent ZoneTight Zone Valves (PIQCV)**







		WARR
ed, hot water, up to 60% gl	ycol	
al percentage		

Technical Data	
Service	chilled, hot water, up to 60% glycol
Flow Characteristic	equal percentage
Controllable Flow Range	75°
Valve Size	0.5 " [15]
End Fitting	NPT female ends
Body	forged brass
Ball	stainless steel
Stem	stainless steel
Seat	Teflon® PTFE
Seat O-ring	EPDM
Characterized Disc	incorporated into the ball
Diaphragm	EPDM
Body Pressure Rating	360 psi
Media Temperature	36°F to 212°F [2°C to 100°C]
Range (Water)	
Maximum Allowable	212°F [100°C] *
Operating Temperature	
Media Temperature Limit	250°F [121°C] *
Diff. Pressure Range	5 to 50 psi
Close-Off Pressure	200 psi
Valve Accuracy	+/- 5%
Weight	6.6 lb [3 kg]
GPM	4.3
Leakage	0%
Servicing	maintenance free

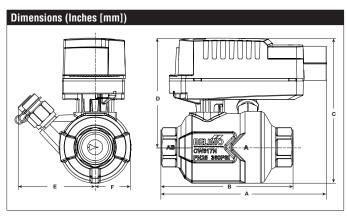
<sup>\*</sup> If temperature exceeds 212°F operating range due to a boiler control failure the valve will safely contain the hot water but manufacturers product warranty becomes invalid. Valve and actuator replacement is at the expense of others.

#### **Application**

The PIQCV zone valves with its pressure independent technology are suited for large commercial buildings where higher close-off and dynamic balancing is required. 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.

**Suitable Actuators** 

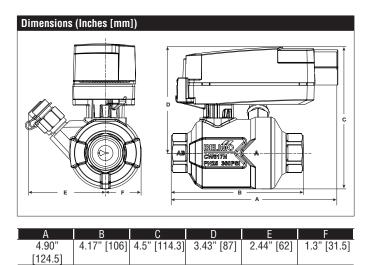
	Non-Spring	Electronic Fail-Safe
Z2050QPT-F	CQ	CQK



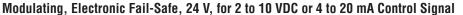
Α	В	С	D	Е	F
4.90"	4.17" [106]	4.79" [122]	3.5" [89]	2.44" [62]	1.3" [31.5]
[124 5]					



# Z2050QPT-F, Pressure Independent ZoneTight Zone Valves (PIQCV)



## CQKB24-SR-RR

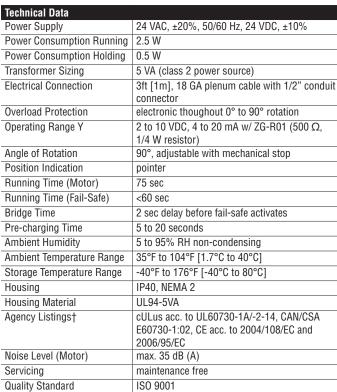










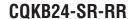


0.4 lb [0.2 kg]

IP40

Weight

Degree of Protection IEC/EN





#### Modulating, Electronic Fail-Safe, 24 V, for 2 to 10 VDC or 4 to 20 mA Control Signal

#### Wiring Diagrams



### X INSTALLATION NOTES



Actuators with appliance cables are numbered.



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



Actuators may also be powered by 24 VDC.



A 500  $\Omega$  resistor (ZG-R01) converts the 4 to 20 mA control signal to 2 to 10 VDC.



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

Only connect common to negative (-) leg of control circuits.



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



### WARNING! 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.

