# Z2050Q-F, 1/2", ZoneTight Valve







Technical Data		
Service	chilled, hot water, up to 60% glycol	
Flow Characteristic	equal percentage	
Controllable Flow Range	75°	
Size [mm]	0.5" [15]	
End Fitting	NPT female ends	
Body	forged brass	
Ball	chrome plated brass	
Stem	brass	
Seat	Teflon® PTFE	
Seat O-ring	EPDM (lubricated)	
Diaphragm	EPDM	
Body Pressure Rating [psi]	360	
Media Temperature Range	36°F to 212°F [2°C to 100°C]	
(Water)		
Maximum Allowable Operating	212°F [100°C] *	
Temperature		
Media Temperature Limit	250°F [121°C] *	
Max Differential Pressure (Water)	40 psi	
Close-Off Pressure	75 psi	
Cv	1.4	
Weight	0.2 lb [0.1 kg]	
Leakage	0%	
Servicing	maintenance free	

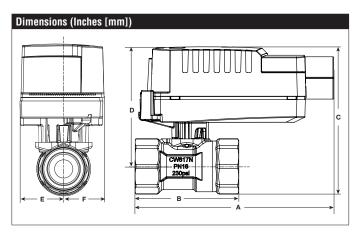
<sup>\*</sup> If temperature exceeds 212°F operating range due to a boiler control failure the valve will safely contain the hot water but manufacturers product warranty becomes invalid. Valve and actuator replacement is at the expense of others.

## **Application**

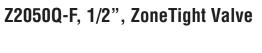
The QCV zone valves are suited for large commercial buildings where higher close-off and the ability to change flow is desired. Common applications include unit ventilators, fan coil units, VAV reheat coils, fin tube casing, radiant panels and duct coils. The valve fits in space restricted areas and can be assembled without the use of tools.

**Suitable Actuators** 

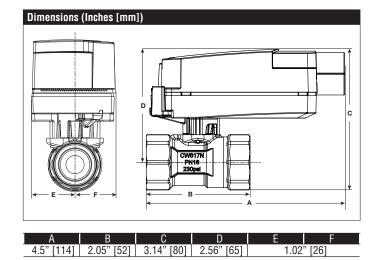
	Non-Spring	Electronic Fail-Safe	
Z2050Q-F	CQ	CQK	



Α	В	С	D	Е	F
4.5" [114]	2.05" [52]	3.27" [83]	2.71" [69]	0.94"	0.94" [24]
				[23.88]	







# CQKB24-LL On/Off, Electronic-Fail-safe,24V









24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%		
2.5 W		
0.5 W		
5 VA (class 2 power source)		
3ft [1m], 18 GA plenum cable with 1/2" conduit connector		
electronic thoughout 0° to 90° rotation		
on/off		
90°, adjustable with mechanical stop		
pointer		
75 sec		
<60 sec		
2 sec delay before fail-safe activates		
5 to 20 seconds		
5 to 95% RH non-condensing		
35°F to 104°F [1.7°C to 40°C]		
-40°F to 176°F [-40°C to 80°C]		
IP40, NEMA 2		
UL94-5VA		
cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC		
max. 35 dB (A)		
maintenance free		
ISO 9001		
0.4 lb [0.2 kg]		
IP40		

<sup>†</sup> Use flexible metal conduit. Push the listed conduit fitting device over the actuator's cable to butt against the enclosure. Screw in conduit connector. Jacket the actuators input wiring with listed flexible conduit. Properly terminate the conduit in a suitable junction box. Rated impulse Voltage 800V. Type of action 1. Control pollution degree 3.







### 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.



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



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.

