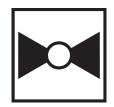






5-year warranty



### **Technical data**

### **Functional data**

Valve Size	0.75" [20]	
Fluid	chilled or hot water, up to 60% glycol	
Fluid Temp Range (water)	36212°F [2100°C]	
Body Pressure Rating	360 psi	
Close-off pressure Δps	75 psi	
Flow characteristic	equal percentage	
Servicing	maintenance-free	
Flow Pattern	2-way	
Leakage rate	0%	
Controllable flow range	75°	
Cv	9.8	
Body pressure rating note	360 psi	
Valve body	forged brass	
•	DTFF	

## Materials

Valve body	forged brass	
Seat	PTFE	
Pipe connection	NPT female ends	
0-ring	EPDM (lubricated)	
Ball	chrome plated brass	
Non-Spring	CQB	
Electronic fail-safe	CQKB(X)	



**Suitable actuators** 

- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- \* 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.

## **Product features**

Safety notes

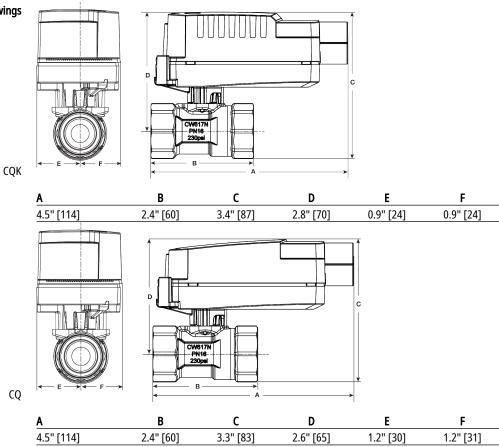
## **Application**

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.

## **Dimensions**



# **Dimensional drawings**



3.3" [83]

2.6" [65]

1.2" [30]

1.2" [31]

2.4" [60]



Modulating, Electronic Fail-Safe, 24 V, for DC 2...10 V or 4...20 mA Control Signal

- Nominal voltage AC/DC 24 V
- Control modulating 2...10 V
- Position feedback 2...10 V

# **Technical data sheet**





CQKB24-SR-LL



C E SUPERIOR COULT

Technical data		
Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	2.5 W
	Power consumption in rest position	0.5 W
	Transformer sizing	5 VA (class 2 power source)
	Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector
	Overload Protection	electronic thoughout 090° rotation
Functional data	Operating range Y	210 V
	Operating range Y note	420 mA w/ ZG-R01 (500 $\Omega$ , 1/4 W resistor)
	Position feedback U	210 V
	Bridging time	2 s delay before fail-safe activates
	Pre-charging time	520 s
	Angle of rotation	90°, adjustable with mechanical stop
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	75 s
	Running time fail-safe	<60 s
	Noise level, motor	35 dB(A)
	Noise level, fail-safe	35 dB(A)
	Position indication	pointer
Safety data	Degree of protection IEC/EN	IP40
	Degree of protection NEMA/UL	NEMA 2 UL Enclosure Type 2
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/ EU; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC
	Quality Standard	ISO 9001
	Ambient temperature	35104°F [1.740°C]
	Storage temperature	-40176°F [-4080°C]
	Ambient humidity	max. 95% r.H., non-condensing
	Servicing	maintenance-free
Weight	Weight	0.55 lb [0.20 kg]
Materials	Housing material	UL94-5VA

## **Product features**

#### **Application**

Electronic Fail-Safe proportional ZoneTight actuator.

Valve selection should be done in accordance with the flow parameters and system specifications. The actuator is mounted directly to the valve without the need for tools or additional linkage.

The actuator operates in response to a 2...10 V or 4...20mA control signal.

## **Electrical installation**

### > INSTALLATION NOTES

A) 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.

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

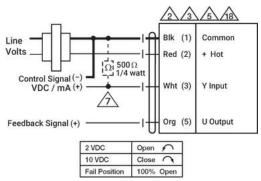
A 500  $\Omega$  resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

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.



AC 24 V Transformer