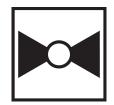






5-year warranty



Type overview	
Туре	DN
Z2050Q-J	15

## **Technical data**

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Valve Size	0.5" [15]
Noise level, Motor	dB(A)
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 ∆ps	75 psi
Flow characteristic	equal percentage
Servicing	maintenance-free
Flow Pattern	2-way
Leakage rate	0%
Controllable flow range	75°
Cv	5.9
Valve body	forged brass
	•
Spindle	brass
Seat	PTFE
Pipe connection	NPT female ends

## Materials

Valve body	forged brass	
Spindle	brass	
Seat	PTFE	
Pipe connection	NPT female ends	
O-ring	EPDM (lubricated)	
Ball	chrome plated brass	
Non-Spring	СОВ	

# Suitable actuators

Non-Spring	CQB	
Electrical fail-safe	CQKB(X)	

## Safety notes



- 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**

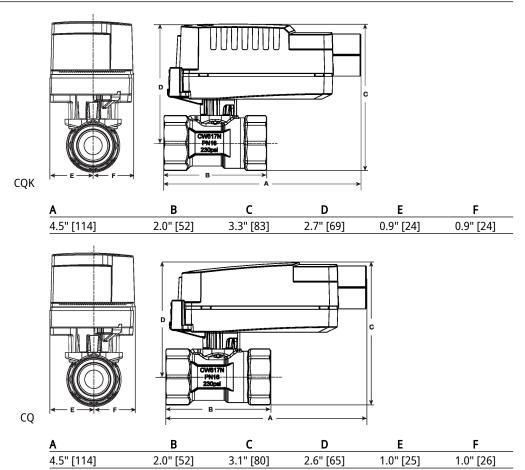
#### Application

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**

Туре	DN
Z2050Q-J	15





Modulating, Electrical 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-RR



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
	Power consumption for wire sizing	5 VA
	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 (PF)	2 s
	Pre-charging time	520 s
	Angle of rotation	90°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	75 s / 90°
	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
	Enclosure	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

ISO 9001

1.7...40°C

UL94-5VA

-40...176°F [-40...80°C]

maintenance-free

Max. 95% RH, non-condensing

**Quality Standard** 

Housing material

Servicing

Materials

Ambient temperature

Storage temperature
Ambient humidity



#### **Product features**

#### **Application**

Electrical 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 DC 24 V.

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

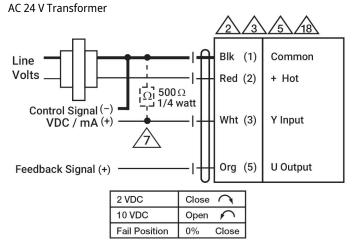
 $\bigwedge$  A 500  $\Omega$  resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

Actuators with plenum cable do not have numbers; use color codes instead. Meets cULus requirements without the need of an electrical ground connection.

## 

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.

## Wiring diagrams



### **Dimensions**