

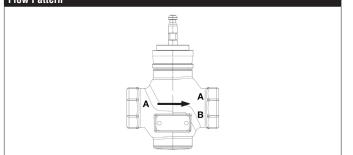
G220B-K, 2-Way, Globe Valve, Bronze Trim



WARRANTY

Technical Data	
Service	chilled or hot water, up to 60% glycol,
	steam
Flow Characteristic	modified equal percentage
Controllable Flow Range	stem up - open A to AB
Size [mm]	0.75" [20]
End Fitting	NPT female ends
Body	bronze
Stem	stainless steel
Stem Packing	EPDM O-ring
Seat	bronze
Plug	brass
Body Pressure Rating [psi]	ANSI 250
ANSI Class	ANSI 250 (up to 400 psi below 150°F)
Max Inlet Pressure (Steam)	35 psi (241 kPa)
Media Temperature Range	20°F to 280°F [-7°C to 138°C]
(Water)	
Media Temperature Range	32°F to 280°F [0°C to 138°C]
(Steam)	
Maximum Differential Pressure (Steam)	20 psi (103 kPa)
Max Differential Pressure (Water)	35 psi (241 kPa)
	100:1
Rangeability	
Cv	7.5
Leakage	ANSI Class VI
Servicing	repack kits available

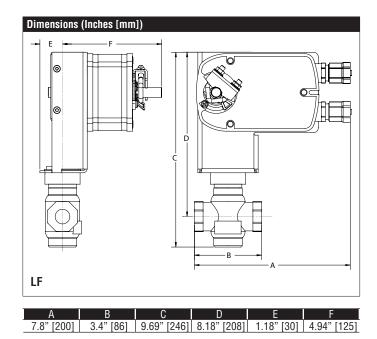
Flow Pattern



Application

This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include unit ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in hydronic systems with variable flow. Bronze and stainless steel trim valves can be used for steam applications, depending on actuator and close-off combinations.

	Suita	ble Actuators	
	Non-Spring	Spring	Electronic Fail-Safe
G220B-K	LVB(X)	LF	LVKB(X)

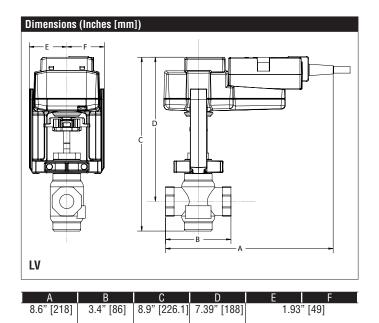


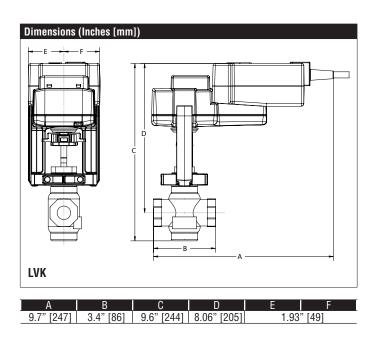
Piping

The valves should be mounted in a weather-protected area in a location that is within the ambient limits of the actuator. Allow sufficient room for valve with actuator and for service. The G2 and G3 preferred mounting position of the valve is with the valve stem vertical above the valve body, for maximum life. However, the assemblies can be mounted with the valve stem vertical or horizontal in relation to the pipe. The actuators should never be mounted underneath the valve, as condensation can build up and result in a failure of the actuators.



G220B-K, 2-Way, Globe Valve, Bronze Trim





LF120 US, Valve Actuator On/Off, Spring Return Fail-Safe, 120 VAC





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Power Supply120 VAC ± 10%, 50/60 HzPower Consumption Running5.5 WPower Consumption Holding3.5 WTransformer Sizing7.5 VAElectrical Connection3ft [1m], 18 GA appliance cable with 1/2" conduit connectorOverload Protectionelectronic throughout 0° to 95° rotationOperating Range Yon/offAngle of Rotation90°Direction of Rotation (Motor)reversible with built-in switchDirection of Rotation (Motor)reversible with CW/CCW mountingPosition Indicationvisual indicator, 0° to 95° (0° is full spring return position)Running Time (Motor)<40 to 75 secRunning Time (Fail-Safe)<25 sec @ -4°F to 122°F [-20°C to 50°C], < 60 sec @ -22°F [-30°C]Ambient Temperature Range-22°F to 122°F [-30°C]
Power Consumption Holding3.5 WTransformer Sizing7.5 VAElectrical Connection3ft [1m], 18 GA appliance cable with 1/2" conduit connectorOverload Protectionelectronic throughout 0° to 95° rotationOperating Range Yon/offAngle of Rotation90°Direction of Rotation (Motor)reversible with built-in switchDirection of Rotation (Fail-Safe)reversible with CW/CCW mountingPosition Indicationvisual indicator, 0° to 95° (0° is full spring return position)Running Time (Motor)<40 to 75 sec
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60 sec @ -22°F [-30°C] Ambient Temperature Range -22°F to 122°F [-30°C to 50°C]
Storage Temperature Depage 40°E to 176°E [40°C to 90°C]
Storage Temperature Range -40°F to 176°F [-40°C to 80°C]
Housing NEMA 2, IP54
Agency Listings† CULus acc. To UL 873 and CAN/CSA C22.2 No. 24-93
Noise Level (Motor) <50 dB (A)
Noise Level (Fail-Safe) <62 dB (A)
Servicing maintenance free
Quality Standard ISO 9001

†Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3



Wiring Diagrams

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🔀 INSTALLATION NOTES

A ctuators with appliance cables are numbered.

Provide overload protection and disconnect as required.

Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

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.

