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

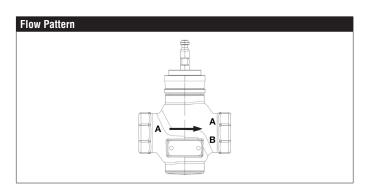






WARRAN

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 0-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	20 psi (103 kPa)
(Steam)	05 (04415)
Max Differential Pressure (Water)	35 psi (241 kPa)
Rangeability	100:1
Cv	5.5
Leakage	ANSI Class VI
Servicing	repack kits available

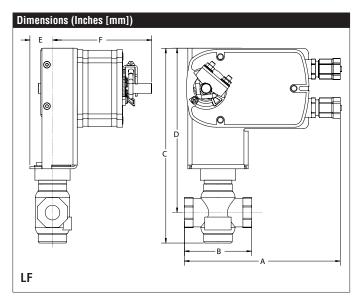


Application

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.

Suitable Actuators

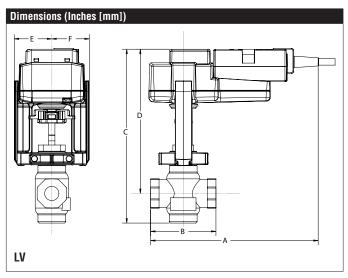
	Non-Spring	Spring	Electronic Fail-Safe
G220B-J	LVB(X)	LF	LVKB(X)



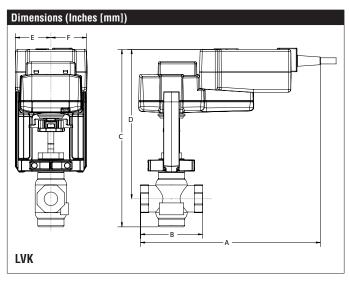
Α	В	С	D	Е	F
7.8" [200]	3.4" [86]	9.69" [246]	8.18" [208]	1.18" [30]	4.94" [125]

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-J, 2-Way, Globe Valve, Bronze Trim



A	В	C	D	Е	F
8.6" [218]	3.4" [86]	8.9" [226.1]	7.39" [188]	1.93	" [49]



Α	В	С	D	E	F
9 7" [247]	3 4" [86]	9 6" [244]	8 06" [205]	1 93	" [49]

LVB24-3 On/Off, Floating Point, Non-Spring Return, Linear, 24 V





24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%		
1 W		
0.5 W		
1 VA (class 2 power source)		
3ft [1m], 18 GA plenum rated cable with 1/2" conduit connector protected NEMA 2 (IP54)		
electronic throughout full stroke		
actuators are double insulated		
on/off, floating point		
100 k Ω (0.1 mA), 500 Ω , 1000 Ω (on/off)		
No Feedback		
0.75" [19 mm]		
112 lbf [500 N]		
reversible with built-in switch		
stroke indicator on bracket		
4 mm hex crank (shipped w/actuator)		
90 sec (default), Optional (90 or 150 sec)		
5 to 95% RH non-condensing		
-22°F to 122°F [-30°C to 50°C]		
-40°F to 176°F [-40°C to 80°C]		
NEMA 2, IP42, UL Enclosure Type 2		
Aluminum die cast and plastic casing		
cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC		
<55 dB (A)		
maintenance free		
ISO 9001		
2.4 lb [1.1 kg]		

[†] 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.

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



Wiring Diagrams



X INSTALLATION NOTES



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.

