

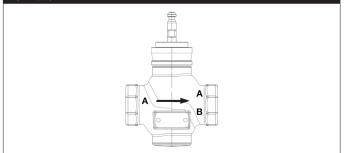
G225B-L, 2-Way, Globe Valve, Bronze Trim



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]	1" [25]	
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)	
Rangeability	100:1	
Cv	14	
Leakage	ANSI Class VI	
Servicing	repack kits available	

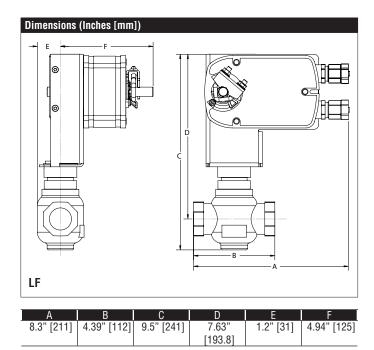
Flow Pattern



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.

Suitable Actuators				
	Non-Spring	Spring	Electronic Fail-Safe	
G225B-L	LVB(X)	LF	LVKB(X)	

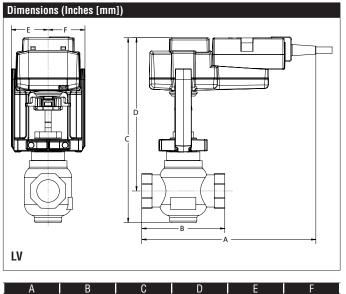


Piping

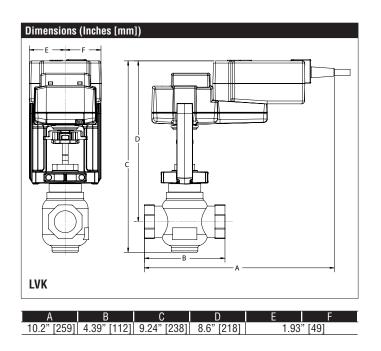
The valves should be mounted in a weather-protected area in a location that is within the ambient limits of the actuator. Allow sufficient room for valve with actuator and for service. The G2 and G3 preferred mounting position of the valve is with the valve stem vertical above the valve body, for maximum 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.



G225B-L, 2-Way, Globe Valve, Bronze Trim



9.1" [231] 4.39" [112] 9.6" [244] 8.01" [203] 1.93" [49]







Technical Data		
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%	
Power Consumption Running	1 W	
Power Consumption Holding	0.5 W	
Transformer Sizing	1 VA (class 2 power source)	
Electrical Connection	3ft [1m], 18 GA plenum rated cable with 1/2" conduit connector protected NEMA 2 (IP54)	
Overload Protection	electronic throughout full stroke	
Electrical Protection	actuators are double insulated	
Operating Range Y	on/off, floating point	
Input Impedance	100 k Ω (0.1 mA), 500 Ω, 1000 Ω (on/off)	
Feedback Output U	No Feedback	
Stroke	0.75" [19 mm]	
Actuating force motor	112 lbf [500 N]	
Direction of Rotation (Motor)	reversible with built-in switch	
Position Indication	stroke indicator on bracket	
Manual Override	4 mm hex crank (shipped w/actuator)	
Running Time (Motor)	90 sec (default), Optional (90 or 150 sec)	
Ambient Humidity	5 to 95% RH non-condensing	
Ambient Temperature Range	-22°F to 122°F [-30°C to 50°C]	
Storage Temperature Range	-40°F to 176°F [-40°C to 80°C]	
Housing	NEMA 2, IP42, UL Enclosure Type 2	
Housing Material	Aluminum die cast and plastic casing	
Agency Listings†	cULus acc. to UL60730-1A/-2-14, CAN/CSA	
	E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC	
Noise Level (Motor)	<55 dB (A)	
Servicing	maintenance free	
Quality Standard	ISO 9001	
Weight	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

🔀 INSTALLATION NOTES

Actuators may be connected in parallel. Power consumption and input impedance must be observed.

3 /18

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.

