G225, 2-Way, Globe Valve, Bronze Trim



ApplicationThis 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 system with variable flow. Bronze and stainless steel trim valves can be used for steam applications, depending on actuator and close-off combinations.

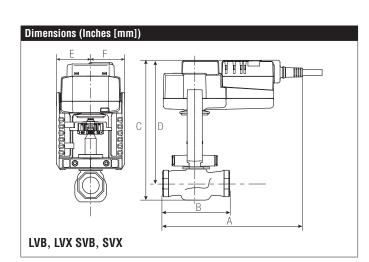
NFB(X)

Electronic Fail-Safe

SVKB(X)



SVB(X)



-						
	A	В	C	D	E	F
_	8" [203]	4.65" [118]	9.5" [241]	8.35" [212]	1.95	" [49]

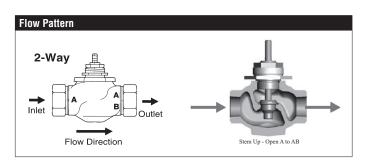
Piping

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(S) and G3(D) 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. Do not reverse flow direction.

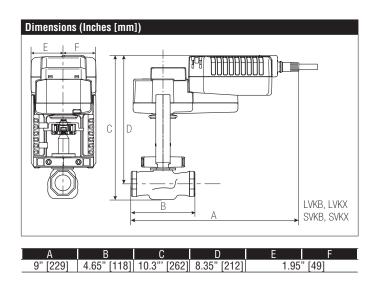


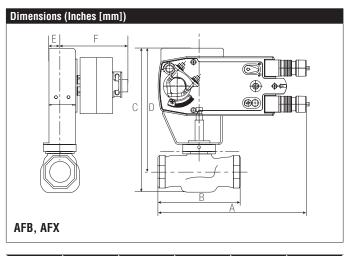


chilled or hot water, up to 60% glycol,
steam
equal percentage
stem up - open A to AB
1" [25]
NPT female ends
bronze
stainless steel
spring loaded Teflon V-ring
bronze
brass
composition (EPDM)
ANSI 250
ANSI 250 (up to 400 psi below 150°F)
35 psi (241 kPa)
20°F to 280°F [-7°C to 138°C]
32°F to 280°F [0°C to 138°C]
20 psi (103 kPa)
35 psi (241 kPa)
ANSI Class IV
75:1
14
3.1 lb [1.4 kg]
Repack/Rebuild kits available



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	NEG. EQUIT.		
Technical Data			
Power Supply	24 VAC±20%, 50/60Hz, 24 VDC+20%/-10%		
Power Consumption Running	3.5 W		
Power Consumption Holding	2.5 W		
Transformer Sizing	6 VA (class 2 power source)		
Shaft Diameter	1/2" to 1.05" round, centers on 1/2" and 3/4" with insert, 1.05" without insert		
Electrical Connection	3 ft [1 m], 18 GA appliance cable with 1/2" conduit connector		
Overload Protection	electronic throughout 0° to 95° rotation		
Operating Range	2 to 10 VDC, 4 to 20 mA (default)		
Position Feedback	2 to 10 VDC, 0.5 mA max		
Angle of Rotation	95° (adjustable with mechanical end stop, 35° to 95°)		
Torque	90 in-lbs [10 Nm] minimum		
Direction of Rotation (Motor)	reversible with built-in switch		
Direction of Rotation (Fail-Safe)	reversible with CW/CCW mounting		
Position Indication	visual indicator, 0° to 95° (0° is full spring return position)		
Manual Override	5 mm hex crank (3/16" Allen), supplied		
Running Time (Motor)	95 sec		
Running Time (Fail-Safe)	<20 sec @ -4°F to 122°F [-20°C to 50°C], < 60 sec @ -22°F [-30°C]		
Humidity	max. 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, IP54, UL enclosure type 2		
Housing Material	zinc coated metal 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		
Sound power level	<50 dB (A)		
Noise Level (Fail-Safe)	<62 dB (A)		
Servicing	maintenance free		
Quality Standard	ISO 9001		
Weight	4.2 lb [1.9 kg]		

 $\ \, \ \, \text{†Rated Impulse Voltage 800V, Type of Action 1.AA.B, Control Pollution Degree 3.}$





Modulating, Spring Return, 24 VAC/DC, for 2 to 10 VDC or 4 to 20 mA Control Signal

Wiring Diagrams



X INSTALLATION NOTES



Actuators with appliance cables are numbered.



Provide overload protection and disconnect as required.



Actuators may also be powered by 24 VDC.



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



A 500 Ω resistor (ZG-R01) converts the 4 to 20 mA control signal to 2 to 10 VDC.



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



APPLICATION NOTES



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.

