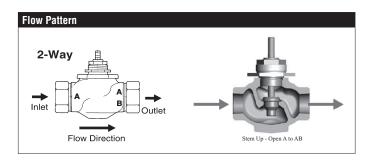
G224S, 2-Way, Globe Valve, Stainless Steel Trim







Technical Data	1311
Service	chilled or hot water, up to 60% glycol,
Flow Characteristic	linear
Controllable Flow Range	stem up - open A to AB
Size [mm]	1" [25]
End Fitting	NPT female ends
Body	bronze
Stem	316 stainless steel
Stem Packing	spring loaded Teflon® V-ring
Seat	316 stainless steel
Plug	316 stainless steel
Disc	Teflon
Body Pressure Rating [psi]	ANSI 250
ANSI Class	ANSI 250 (up to 400 psi below 150°F)
Max Inlet Pressure (Steam)	100 psi (690 kPa)
Media Temperature Range (Water)	20°F to 280°F [-7°C to 138°C]
Media Temperature Range (Steam)	32°F to 338°F [0°C to 170°C]
Maximum Differential Pressure (Steam)	35 psi
Max Differential Pressure (Water)	35 psi (241 kPa)
Close-Off Pressure	250 psi
Rangeability	60:1
Cv	10
Weight	3.1 lb [1.4 kg]
Leakage	ANSI Class IV
Servicing	Repack/Rebuild kits available

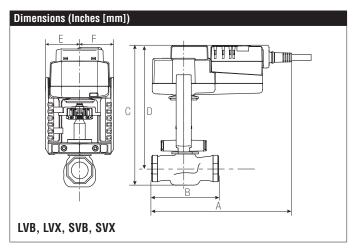


Application

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 system 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
G224S	SVB(X)	NFB(X)	SVKB(X)

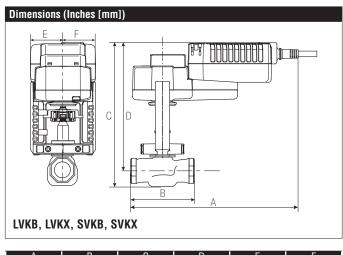


Α	В	С	D	Е	F
8" [203]	4.65" [118]	9.5" [241]	8" [203]	1.95	" [49]

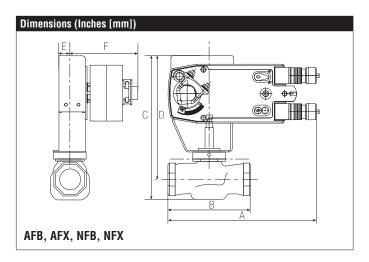
Piping

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.

G224S, 2-Way, Globe Valve, Stainless Steel Trim



А	В	C	D	Е	F
9" [229]	4.65" [118]	10.3" [262]	8.5" [216]	1.95	" [49]



Α	В	С	D	E	F
9.69" [246]	4.65" [118]	9.24" [238]	8.14" [207]	1.25" [32]	5" [127]

SVX24-3On/Off, Floating Point, Non-Spring Return, Linear, 24 V





Technical Data			
Power Supply	24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%		
Power Consumption Running	2 W		
Power Consumption Holding	1.5 W		
Transformer Sizing	3.5 VA (class 2 power source)		
Electrical Connection	3 ft, 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	0.6" [15 mm] LV, 3/4" [20 mm] SV		
Linear Force	337 lbf [1500 N force]		
Direction of Rotation (Motor)	reversible with 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)		
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)	<45 dB (A)		
Servicing	maintenance free		
Quality Standard	ISO 9001		
Weight	2.9 lb [1.3 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.







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.

