

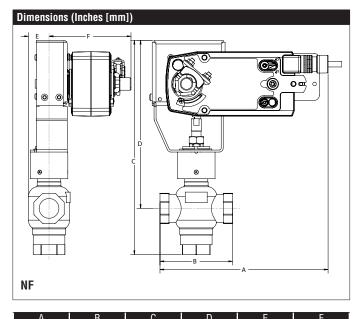
G325B-L, 3-Way, Globe Valve, Bronze Trim, Mixing/Diverting



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 constant or variable flow. These 3-way valves can be used for both Mixing and Diverting depending on the piping configuration.

Suitable Actuators				
	Non-Spring	Spring	Electronic Fail-Safe	
G325B-L	SVB(X)	NFB(X)	SVKB(X)	

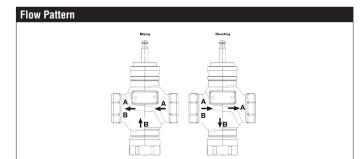


4.39" [112] 12.8" [325] 10.2" [259] 10.2" [259] 4 94" [125] 1 2" [31]

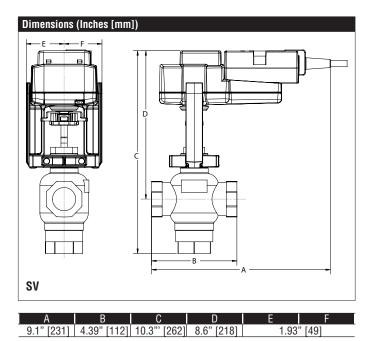
Piping

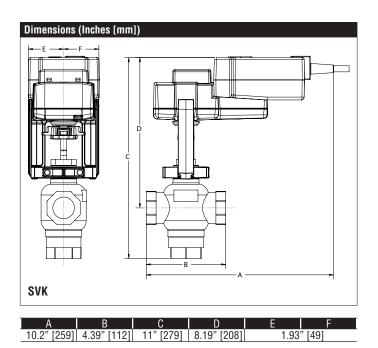
The valves should be mounted in a weather-protected area in a location that is within the ambient limits of the actuator. Allow sufficient room for valve with actuator and for service. The G2 and G3 preferred mounting position of the valve is with the valve stem vertical above the valve body, for maximum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

Technical DataServicechilled, hot water, up to 60% glycolFlow Characteristicmodified equal percentage, linear B to ABControllable Flow Rangestem up - open B to ABSize [mm]1" [25]End FittingNPT female endsBodybronzeStemstainless steelStem PackingEPDM O-ringSeatbronzePlugbrassBody Pressure Rating [psi]ANSI 250ANSI ClassANSI 250 (up to 400 psi below 150°F)Media Temperature Range (Water)20°F to 280°F [-7°C to 138°C]Max Differential Pressure (Water)35 psi (241 kPa)RangeabilityA-port 100:1, B-port 50:1Cv14LeakageANSI Class VI	Tested at Date	
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Stemstainless steelStem PackingEPDM 0-ringSeatbronzePlugbrassBody Pressure Rating [psi]ANSI 250ANSI ClassANSI 250 (up to 400 psi below 150°F)Media Temperature Range (Water)20°F to 280°F [-7°C to 138°C]Max Differential Pressure (Water)35 psi (241 kPa)RangeabilityA-port 100:1, B-port 50:1Cv14	End Fitting	NPT female ends
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Seat bronze Plug brass Body Pressure Rating [psi] ANSI 250 ANSI Class ANSI 250 (up to 400 psi below 150°F) Media Temperature Range (Water) 20°F to 280°F [-7°C to 138°C] Max Differential Pressure (Water) 35 psi (241 kPa) Rangeability A-port 100:1, B-port 50:1 Cv 14	Stem	stainless steel
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Cv 14	Max Differential Pressure (Water)	35 psi (241 kPa)
	Rangeability	A-port 100:1, B-port 50:1
Leakage ANSI Class VI	Cv	14
	Leakage	ANSI Class VI
Servicing repack kits available	Servicing	repack kits available











SVX24-MFT

Modulating, Non-Spring Return, Linear, 24 V, Multi-Function Technology®



Technical Data	
Power Supply	24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%
Power Consumption Running	1.5 W
Power Consumption Holding	2 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	2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 Ω , 1/4 W resistor), variable (VDC, PWM, floating point, on/off)
Input Impedance	100 k Ω for 2 to 10 VDC (0.1 mA), 500 Ω for 4 to 20 mA, 1500 Ω for PWM, floating point and 0n/Off
Feedback Output U	2 to 10 VDC
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

🔀 INSTALLATION NOTES



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

Actuators may also be powered by 24 VDC.



A 500 Ω resistor (ZG-R01) converts the 4 to 20 mA control signal to 2 to 10 VDC. Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 VAC line.

 For triac sink the common connection from the actuator must be connected to the hot connection of the controller. Contact closures A & B also can be triacs. A & B should both be closed for the triac source and open for triac sink.



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.

