

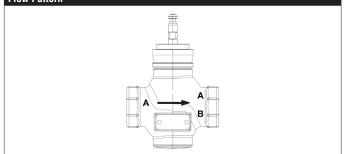
G232S-M, 2-Way, Globe Valve, Stainless Steel Trim



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" [32]	
End Fitting	NPT female ends	
Body	bronze	
Stem	316 stainless steel	
Stem Packing	EPDM O-ring	
Seat	316 stainless steel	
Plug	316 stainless steel	
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	20°F to 338°F [-7°C to 170°C]	
(Water)		
Media Temperature Range	32°F to 338°F [0°C to 170°C]	
(Steam) Maximum Differential Pressure		
(Steam)	50 psi (345 kPa)	
Max Differential Pressure (Water)	35 psi (241 kPa)	
Rangeability	100:1	
Cv	20	
Leakage	ANSI Class VI	
Servicing	repack kits available	

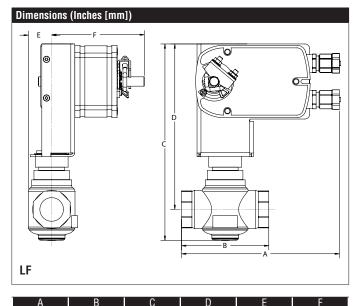
Flow Pattern



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	
G232S-M	LVB(X)	LF	LVKB(X)	



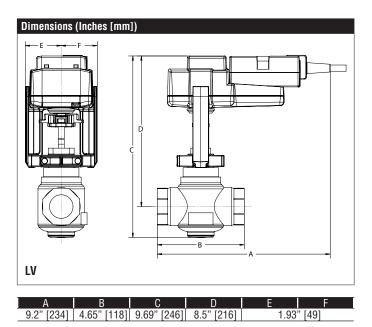
8.4" [213] 4.65" [118] 10.5" [267] 8.8" [224] 1.2" [31] 4.94" [125]

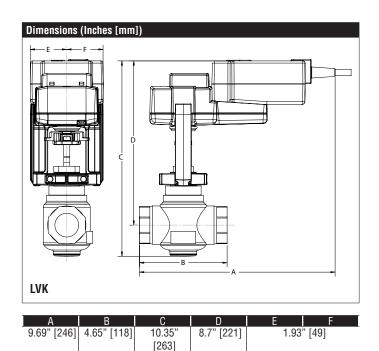
Piping

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.



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Technical Data		
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%	
Power Consumption Running	2.5 W	
Power Consumption Holding	1.5 W	
Transformer Sizing	6 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	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	0.75" [19 mm]	
Actuating force motor	112 lbf [500 N]	
Direction of Rotation (Motor)	reversible with switch	
Direction of Rotation (Fail-Safe)	reversible with switch	
Position Indication	stroke indicator on bracket	
Manual Override	4 mm hex crank (shipped w/actuator)	
Running Time (Motor)	90 sec, constant independent of load	
Running Time (Fail-Safe)	35 sec	
Bridge Time	2 sec delay before fail-safe activates	
Pre-charging Time	5 to 20 seconds	
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, IP54, 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)	
Noise Level (Fail-Safe)	<60 dB (A)	
Servicing	maintenance free	
Quality Standard	ISO 9001	
Weight	3.5 lb [1.6 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.

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.

