

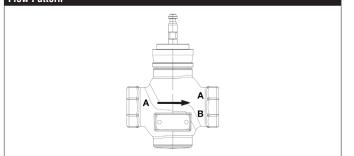
G240S-N, 2-Way, Globe Valve, Stainless Steel Trim



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]	1.5" [40]
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	28
Leakage	ANSI Class VI
Servicing	repack kits available

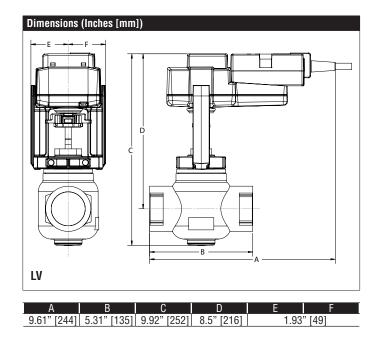
Flow Pattern



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	
G240S-N	LVB(X)	NFB(X)	LVKB(X)	

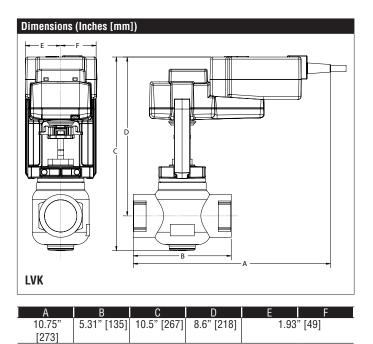


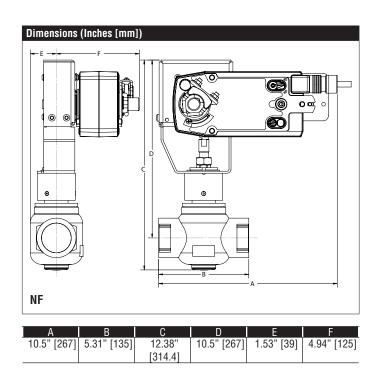
Piping

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.



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Technical Data		
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%	
Power Consumption Running	6.5 W	
Power Consumption Holding	3 W	
Transformer Sizing	9 VA (class 2 power source)	
Electrical Connection	(2) 3ft [1m], 18 GA appliance cables with	
	1/2" conduit connectors	
Overload Protection	electronic throughout 0° to 95° rotation	
Operating Range Y	2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 Ω,	
	1/4 W resistor)	
Feedback Output U	2 to 10 VDC, 0.5 mA max, VDC variable	
Angle of Rotation	95°,	
Nominal Torque	Min. 90 in-Ibs [10 Nm]	
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	
Marcal Que Sale	return position)	
Manual Override	5 mm hex crank (3/16" Allen), supplied	
Running Time (Motor)	default 150 sec, variable 40150 sec	
Running Time (Fail-Safe)	<20 sec @ -4°F to 122°F [-20°C to 50°C],	
Override Control	<60 sec @ -22°F [-30°C] min. position = 0% , mid. Position = 50% ,	
	max. position = 100% (Default)	
Ambient 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	
Agency Listings†	UL 873 listed, CSA C22.2 No. 24 certified	
Noise Level (Motor)	<50 dB (A)	
Noise Level (Fail-Safe)	<62 dB (A)	
Servicing	maintenance free	
Quality Standard	ISO 9001	
Weight	4.4 lb [2 kg]	
Auxiliary switch	2 x SPDT, 3A resistive (0.5A inductive) @	
-	250 VAC, one set at 10°, one adjustable 10°	
	to 90°	
Degree of Protection IEC/EN	IP54	

*Variable when configured with MFT options. †Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3



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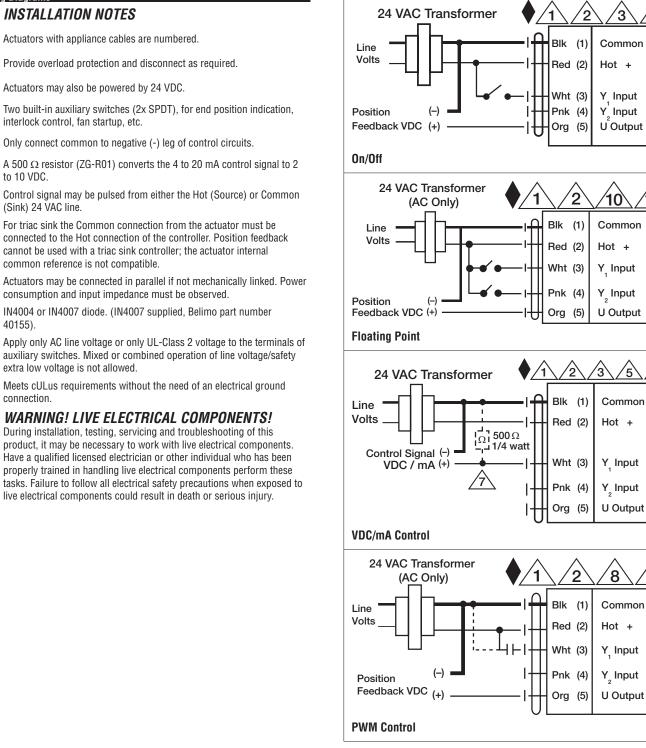
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Modulating, Spring Return, 24 V, Multi-Function Technology®



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

Actuators with appliance cables are numbered.

Actuators may also be powered by 24 VDC.

interlock control, fan startup, etc.

common reference is not compatible.

(Sink) 24 VAC line.

IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).

Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.

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.



