G240, 2-Way, Globe Valve, Bronze Trim





VEAR
WARRANTY

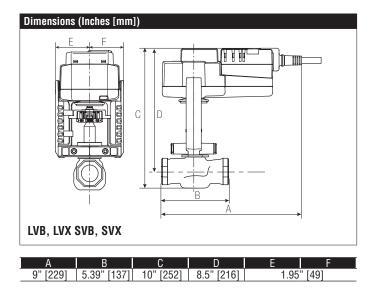
Technical data		
Service	chilled or hot water, up to 60% glycol, steam	
Flow Characteristic	equal percentage	
Controllable Flow Range	stem up - open A to AB	
Size [mm]	1.5" [40]	
End Fitting	NPT female ends	
Body	bronze	
Stem	stainless steel	
Stem Packing	spring loaded Teflon V-ring	
Seat	bronze	
Plug	brass	
Disc	composition (EPDM)	
Body Pressure Rating [psi]	ANSI 250	
ANSI Class	ANSI 250 (up to 400 psi below 150°F)	
Max Inlet Pressure (Steam)	35 psi (241 kPa)	
Media Temperature Range (Water)	20°F to 280°F [-7°C to 138°C]	
Media Temperature Range (Steam)	32°F to 280°F [0°C to 138°C]	
Maximum differential pressure (steam)	20 psi (103 kPa)	
Max Differential Pressure (Water)	35 psi (241 kPa)	
Leakage	ANSI Class IV	
Rangeability	75:1	
Cv	28	
Weight	5.7 lb [2.6 kg]	
Servicing	Repack/Rebuild 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 system with variable flow. Bronze and stainless steel trim valves can be used for steam applications, depending on actuator and close-off combinations.

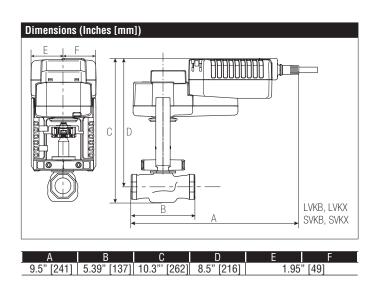
Suitable Actuators			
	Non-Spring	Spring	Electronic Fail-Safe
G240	SVB(X)	AFB(X)	SVKB(X)

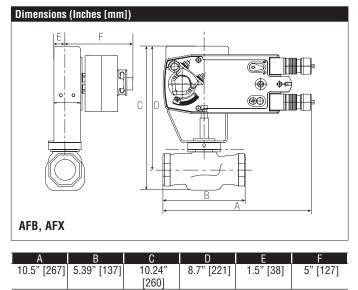


Piping

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(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.











Technical Data		
Power Supply	24 VAC±20%, 50/60Hz, 24 VDC+20%/-10%	
Power Consumption Running	7.5 W	
Power Consumption Holding	3 W	
Transformer Sizing	10 VA (class 2 power source)	
Electrical Connection	(2) 3 ft [1 m], 10 ft [3 m] or 16 ft [5 m] 18 GA appliance cables with or without 1/2" conduit connectors	
Overload Protection	electronic throughout 0° to 95° rotation	
Operating Range	2 to 10 VDC, 4 to 20 mA (default), variable (VDC, PWM, floating point, on/off)	
Position Feedback	2 to 10 VDC, 0.5 mA max, VDC variable	
Angle of Rotation	95° (adjustable with mechanical end stop, 35° to 95°)	
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)	150 sec (default), variable (70 to 220 sec)	
Running Time (Fail-Safe)	<20 sec	
Override Control	min. position = 0% , mid. Position = 50% , max. position = 100% (Default)	
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	
Sound power level	<40 dB (A)	
Noise Level (Fail-Safe)	<62 dB (A)	
Servicing	maintenance free	
Quality Standard	ISO 9001	
Weight	4.6 lb [2.1 kg]	
Auxiliary Switch	2 x SPDT, 3A resistive (0.5A inductive) @ 250 VAC, one set at +10°, one adjustable 10° to 90°	

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



Wiring Diagrams

connection

to 10 VDC.

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(Sink) 24 VAC line.

extra low voltage is not allowed.

interlock control, fan startup, etc.

common reference is not compatible.

impedance must be observed.

Common

+ Hot

Y Input

Y Input

UOutput

46

Common

+ Hot

Y, Input

Y Input

U Output

Common

Y Input

Y Input

U Output

46 /47

Common

+ Hot

Y, Input Y, Input

U Output

+ Hot

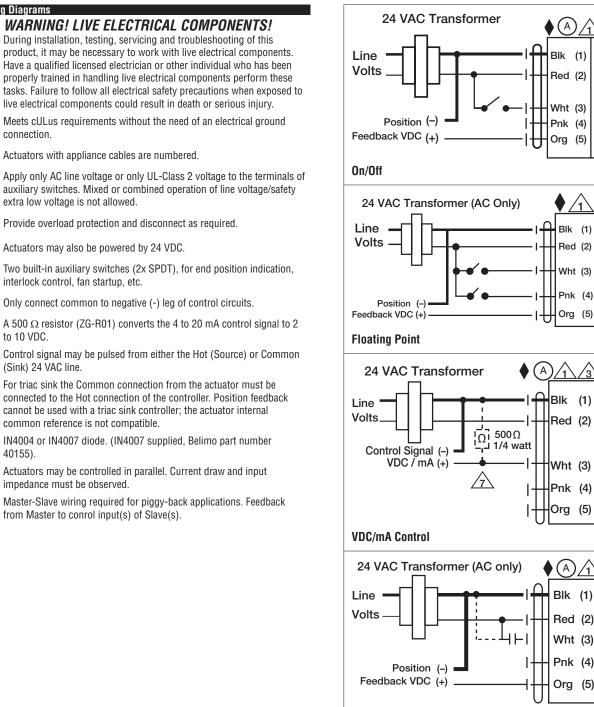
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Modulating, Spring Return, 24 V, Multi-Function Technology®



PWM Control

AFX24-MFT-S-X1 Modulating, Spring Return, 24 V, Multi-Function Technology®



