

G6150C, 2-Way, Pressure Compensated Flanged Globe Valve



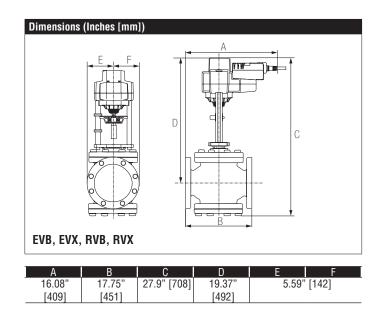
WARRANTY
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chilled or hot water, up to 60% glycol,
steam
equal percentage
stem up - open A to AB
6" [150]
125 lb flanged
cast iron - ASTM A126 Class B (ASME
B16.1)
stainless steel
NLP EPDM (no lip packing)
316 stainless steel
brass
ANSI 125
ANSI 125 (up to 175 psi below 150°F)
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150 psi (1034 kPa) @ 250°F
35 psi (241 kPa)
32°F to 338°F [0°C to 138°C]
32°F to 280°F [0°C to 138°C]
15 psi (103 kPa)
25 psi (172 kPa)
98:1
344
195.1 lb [88.5 kg]
ANSI Class III
Repack/Rebuild kits available

Application

This valve is typically used in large air handling units on heating or cooling coils. This valve is suitable for use in a hydronic system with variable flow. Bronze or stainless steel trim valves can be used for steam applications, depending on actuator and close-off combination.

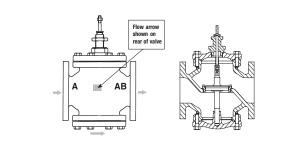
Suitable Actuators				
	Non-Spring	Spring	Electronic Fail-Safe	
G6150C	EVB(X)	2*AFB(X)	AVKB(X)	



Piping

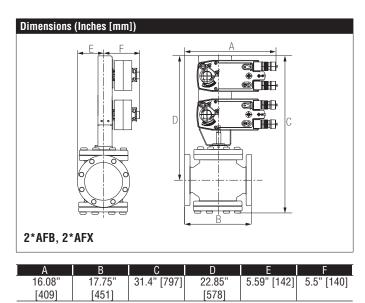
The valves should be mounted in a weather-protected area in a location that is within the ambient limits of the actuator. Allow sufficient room for valve with actuator and for service. The preferred mounting position of the valve is with the valve stem vertical above the valve body, for maximum life. However, the assemblies can be mounted with valve stem vertical above the valve or up to 45 degrees in relation to the horizontal 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.

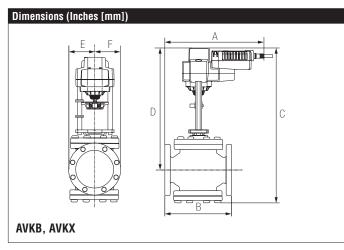
Flow Pattern





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А	В	С	D	E	F
16.08"	17.75"	27.9" [708]	19.37"	5.59"	[142]
[409]	[451]		[492]		





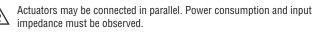
Technical Data		
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%	
Power Consumption Running	5 W	
Power Consumption Holding	1.5 W	
Transformer Sizing	7.5 VA (class 2 power source)	
Electrical Connection	3ft [1m], 18 GA plenum rated cable with 1/2" conduit connector protected NEMA 2 (IP54)	
Overload 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	562 lbf [2500 N]	
Direction of Rotation (Motor)	reversible with built-in switch	
Position Indication	stroke indicator on bracket	
Manual Override	5 mm hex crank (3/16" Allen), supplied	
Running Time (Motor)	default 90 sec, variable 90150 sec	
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 1, IP54, UL Enclosure Type 1	
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)	<60 dB (A)	
Servicing	maintenance free	
Quality Standard	ISO 9001	
Weight	5.7 lb [2.6 kg]	
Degree of Protection IEC/EN	IP54	

† 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

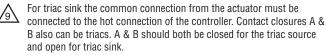


Actuators may also be powered by 24 VDC.



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. Position feedback cannot be used with a triac sink controller; the actuator internal common reference is not compatible.



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

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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.

