

## G6150C, 2-Way, Pressure Compensated Flanged Globe Valve



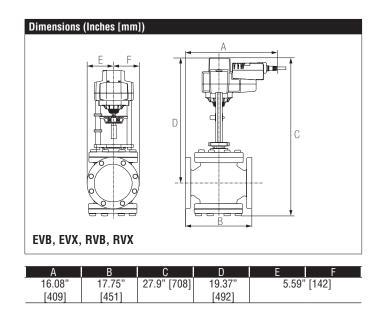
WARRANTY
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chilled or hot water, up to 60% glycol,
steam
equal percentage
stem up - open A to AB
6" [150]
125 lb flanged
cast iron - ASTM A126 Class B (ASME
B16.1)
stainless steel
NLP EPDM (no lip packing)
316 stainless steel
brass
ANSI 125
ANSI 125 (up to 175 psi below 150°F)
8
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.

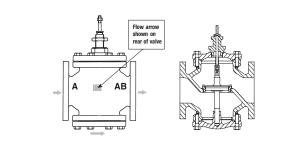
Suitable Actuators				
	Non-Spring	Spring	Electronic Fail-Safe	
G6150C	EVB(X)	2*AFB(X)	AVKB(X)	



#### Piping

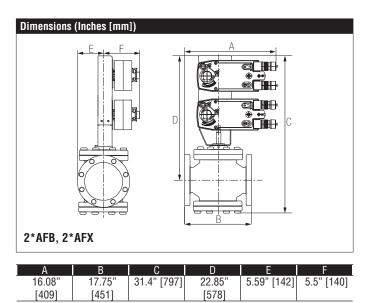
The valves should be mounted in a weather-protected area in a location that is within the ambient limits of the actuator. Allow sufficient room for valve with actuator and for service. The preferred mounting position of the valve is with the valve stem vertical above the valve body, for maximum life.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

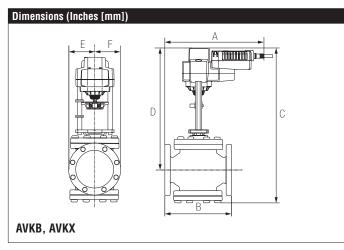
### Flow Pattern





# G6150C, 2-Way, Pressure Compensated Flanged Globe Valve





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	2 W
Transformer Sizing	9.5 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 $\Omega$ ,
	1/4 W resistor), variable (VDC, PWM, floating
Input Impedance	point, on/off) 100 k Ω for 2 to 10 VDC (0.1 mA), 500 Ω for
input impedance	4 to 20 mA, 1500 $\Omega$ for PWM, floating point
	and On/Off
Feedback Output U	2 to 10 VDC
Stroke	1.25" [32 mm]
Linear Force	450 lbf [2000 N force]
Direction of Rotation (Motor)	reversible with switch
Direction of Rotation (Fail-Safe)	reversible with switch
Position Indication	stroke indicator on bracket
Manual Override	5 mm hex crank (3/16" Allen), supplied
Running Time (Motor)	90 sec (default), Optional (90 or 150 sec)
Running Time (Fail-Safe)	35 sec
Bridge Time	2 sec delay before fail-safe activates
Pre-charging Time	5 to 20 seconds
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)	<60 dB (A)
Noise Level (Fail-Safe)	<60 dB (A)
Servicing	maintenance free
Quality Standard	ISO 9001
Weight	6.4 lb [2.9 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



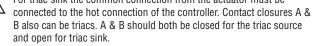
Actuators may be connected in parallel. Power consumption and input impedance must be observed.

Actuators may also be powered by 24 VDC.



A 500  $\Omega$  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



Actuators with plenum cable do not have numbers; use color codes instead.

Meets  $\operatorname{cULus}$  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.

