

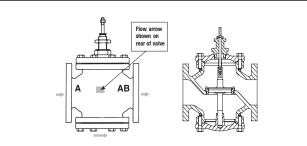
G6150CS, 2-Way, Pressure Compensated Flanged Globe Valve



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]	6" [150]		
End Fitting	125 lb flanged		
Body	cast iron - ASTM A126 Class B (ASME		
	B16.1)		
Stem	316 stainless steel		
Stem Packing	NLP EPDM (no lip packing)		
Seat	316 stainless steel		
Plug	stainless steel		
Body Pressure Rating [psi]	ANSI 125		
ANSI Class	ANSI 125 (up to 175 psi below 150°F)		
Number of Bolt Holes	8		
Max Inlet Pressure (Water)	150 psi (1034 kPa) @ 250°F		
Max Inlet Pressure (Steam)	100 psi (690 kPa)		
Media Temperature Range	32°F to 350°F [0°C to 176°C]		
(Water)			
Media Temperature Range	32°F to 338°F [0°C to 170°C]		
(Steam) Maximum Differential Pressure	50 psi (345 kPa)		
(Steam)	50 psi (545 kra)		
Max Differential Pressure (Water)	50 psi (345 kPa)		
Rangeability	98:1		
Cv	344		
Weight	195.1 lb [88.5 kg]		
Leakage	ANSI Class III		
Servicing	Repack/Rebuild kits available		

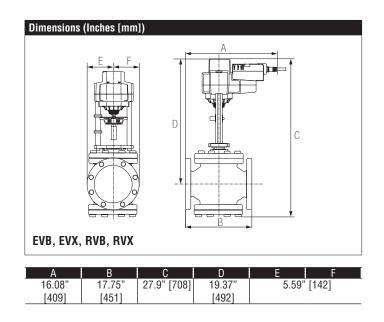
Flow Pattern



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	
G6150CS	EVB(X)	2*AFB(X)	AVKB(X)	

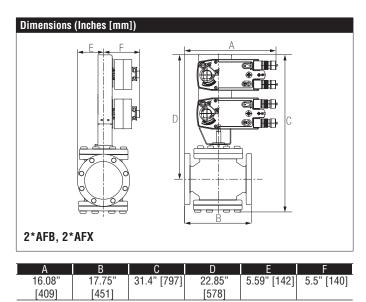


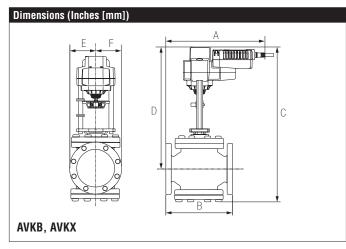
Piping

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.



G6150CS, 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]		





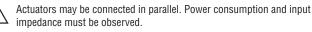
Technical Data		
Power Supply	24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%	
Power Consumption Running	5 W	
Power Consumption Holding	1.5 W	
Transformer Sizing	7.5 VA (class 2 power source)	
Electrical Connection	3 ft, 18 GA plenum rated cable with 1/2" conduit connector protected NEMA 2 (IP54)	
Overload Protection	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 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	2" [50 mm]	
Linear Force	562 lbf [2500 N force]	
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)	90 sec (default), variable (90 to 150 sec)	
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)	
Servicing	maintenance free	
Quality Standard	ISO 9001	
Weight	5.7 lb [2.6 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.



Wiring Diagrams

🔀 INSTALLATION NOTES

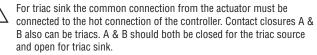


Actuators may also be powered by 24 VDC.



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.



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

Meets $\ensuremath{\mathsf{cULus}}$ 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.

