G6100CS-250, 2-Way, Pressure Compensated Flanged Globe Valve

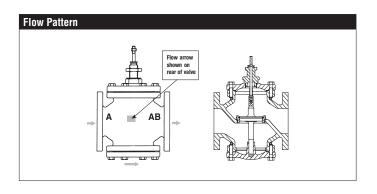








Technical Data	
Service	chilled or hot water, up to 60% glycol,
	steam
Flow Characteristic	equal percentage
Controllable Flow Range	stem up - open A to AB
Size [mm]	4" [100]
End Fitting	250 lb. flanged
Body	Cast Iron - ASTM A126 Class B
Stem	316 stainless steel
Stem Packing	NLP EPDM (no lip packing)
Seat	316 stainless steel
Plug	stainless steel
Body Pressure Rating [psi]	ANSI 250
ANSI Class	ANSI 250 (up to 280 psi below 350°F)
Number of Bolt Holes	8
Max Inlet Pressure (Water)	250 psi (1724 kPa) @ 300°F [149°C]
Max Inlet Pressure (Steam)	100 psi (690 kPa)
Media Temperature Range (Water)	32°F to 350°F [0°C to 176°C]
Media Temperature Range (Steam)	32°F to 338°F [0°C to 170°C]
Maximum Differential Pressure (Steam)	50 psi (345 kPa)
Max Differential Pressure (Water)	50 psi (345 kPa)
Rangeability	98:1
Cv	170
Weight	125 lb [56.7 kg]
Leakage	ANSI Class III
Servicing	Repack/Rebuild kits available

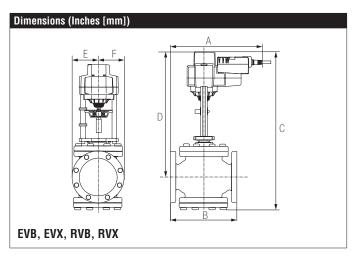


Application

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	Electronic Fail-Safe
G6100CS-250	EVB(X)	AVKB(X)



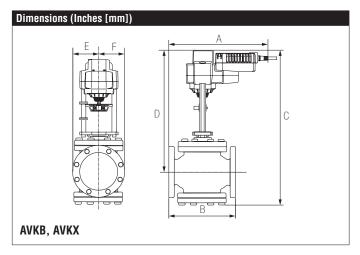
Α	В	С	D	Е	F
13.98"	13.62"	26.64"	19.75"	5" [127]
[355]	[346]	[676]	[502]		

Pinina

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.



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13.98"	13.62"	24.64"	19.75"	5" [127]	
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24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%
5 W
1.5 W
7.5 VA (class 2 power source)
3 ft, 18 GA plenum rated cable with 1/2" conduit connector protected NEMA 2 (IP54)
electronic throughout full stroke
actuators are double insulated
2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 Ω , 1/4 W resistor)
100 k Ω for 2 to 10 VDC (0.1 mA), 500 Ω for 4
to 20 mA
2 to 10 VDC
2" [50 mm]
562 lbf [2500 N force]
reversible with built-in switch
stroke indicator on bracket
5 mm hex crank (3/16" Allen), supplied
90 sec, constant independent of load
5 to 95% RH non-condensing
-22°F to 122°F [-30°C to 50°C]
-40°F to 176°F [-40°C to 80°C]
NEMA 2, IP54, UL enclosure type 2
Aluminum die cast and plastic casing
cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC
<60 dB (A)
maintenance free
ISO 9001
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

X 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.



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.

