

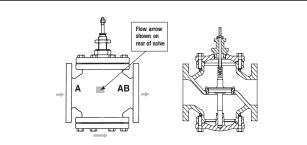
G680C, 2-Way, Pressure Compensated Flanged Globe Valve



WARRANTY

chilled or hot water, up to 60% glycol,
steam
equal percentage
stem up - open A to AB
3" [80]
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)
4
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)
91:1
90
75 lb [34 kg]
ANSI Class III
Repack/Rebuild kits available

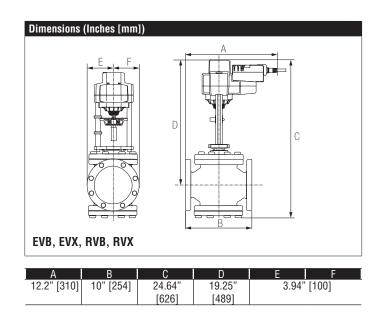
Flow Pattern



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
G680C	EVB(X)	AFB(X)	AVKB(X)

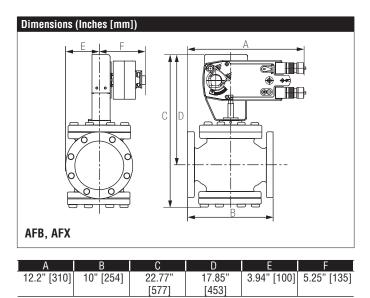


Piping

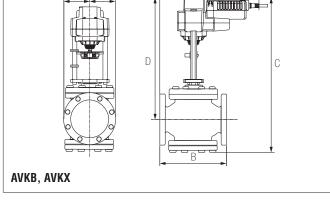
The valves should be mounted in a weather-protected area in a location that is within the ambient limits of the actuator. Allow sufficient room for valve with actuator and for service. The preferred mounting position of the valve is with the valve stem vertical above the valve body, for maximum life.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



G680C, 2-Way, Pressure Compensated Flanged Globe Valve



Dimensions (Inches [mm])	



A	В	С	D	E	F
12.2" [310]	10" [254]	24.64"	19.25"	3.94"	' [100]
		[626]	[489]		





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	18 GA applicance rated cable with 1/2" conduit connector protected NEMA 2 (IP54) 3 ft [1m] 10 ft [3m] and 16 ft [5m]
Overload Protection	electronic throughout 0° to 95° rotation
Operating Range Y	0 to 135 Ω Honeywell Electronic Series 90, 0 to 135 Ω input
Feedback Output U	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
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
Noise Level (Motor)	<40 dB (A)
Noise Level (Fail-Safe)	<62 dB (A)
Servicing	maintenance free
Servicing Quality Standard	ISO 9001

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



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.

Meets cULus requirements without the need of an electrical ground connection.

Provide overload protection and disconnect as required.

Actuators may also be powered by 24 VDC.

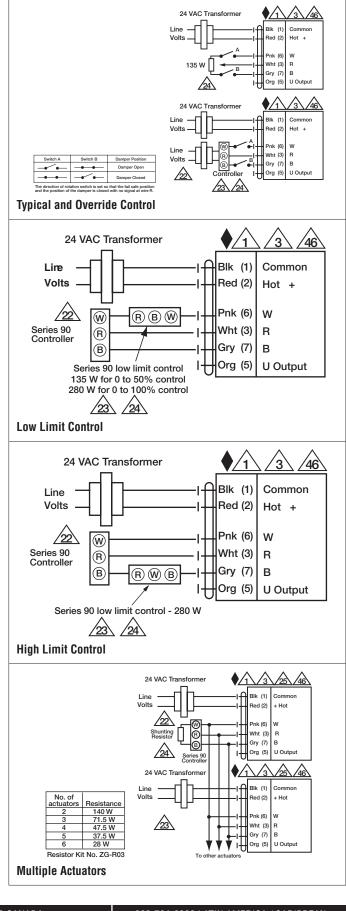
Actuators and controller must have separate transformers.

Consult controller instruction data for more detailed information.

Resistor value depends on the type of controller and the number of actuators. No resistor is used for one actuator. Honeywell® resistor kits may also be used.

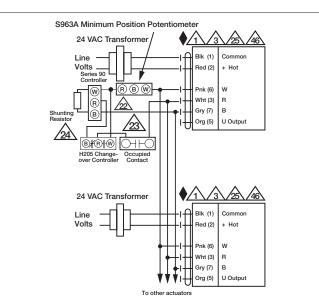
25 To reverse control rotation, use the reversing switch.

Actuators may be controlled in parallel. Current draw and input impedance must be observed.









Multiple Actuators with Minimum Position Potentiometer

