

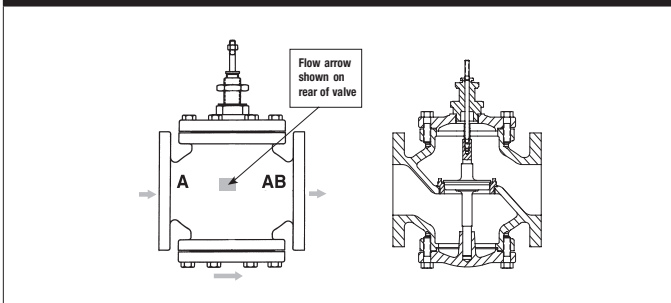
# G680CS, 2-Way, Pressure Compensated Flanged Globe Valve



## 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]	3" [80]
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	4
Max Inlet Pressure (Water)	150 psi (1034 kPa) @ 250°F
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	91:1
Cv	90
Weight	75 lb [34 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
G680CS	EVB(X)	AFB(X)	AVKB(X)

## Dimensions (Inches [mm])



A	B	C	D	E	F
12.2" [310]	10" [254]	24.64" [626]	19.25" [489]	3.94" [100]	

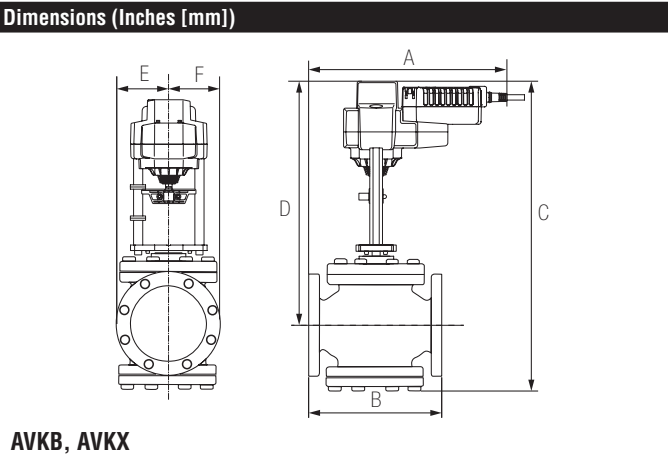
## Piping

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.

**G680CS, 2-Way, Pressure Compensated Flanged Globe Valve**



A	B	C	D	E	F
12.2" [310]	10" [254]	22.77" [577]	17.85" [453]	3.94" [100]	5.25" [135]



A	B	C	D	E	F
12.2" [310]	10" [254]	24.64" [626]	19.25" [489]	3.94" [100]	