# G665C, 2-Way, Pressure Compensated Flanged Globe Valve

## 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.

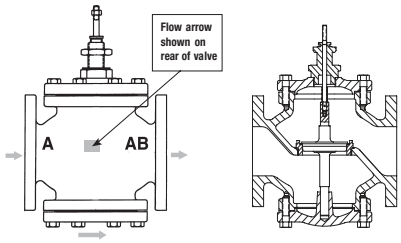
### Suitable Actuators

| | Non-Spring | Spring | Electronic Fail-Safe |
|---|---|---|---|
| G665C | EVB(X) | AFB(X) | AVKB(X) |

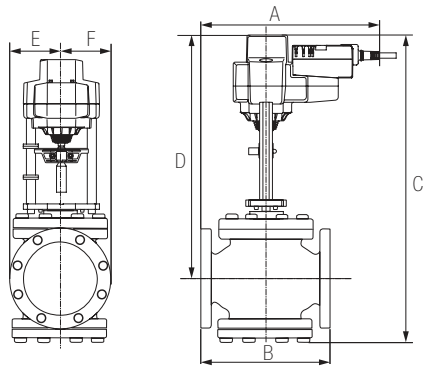
## Technical Data

| | |
|---|---|
| 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] | 2.5" [65] |
| End Fitting | 125 lb flanged |
| Body | cast iron - ASTM A126 Class B (ASME B16.1) |
| Stem | stainless steel |
| Stem Packing | NLP EPDM (no lip packing) |
| Seat | 316 stainless steel |
| Plug | brass |
| 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) | 35 psi (241 kPa) |
| Media Temperature Range (Water) | 32°F to 338°F [0°C to 138°C] |
| Media Temperature Range (Steam) | 32°F to 280°F [0°C to 138°C] |
| Maximum Differential Pressure (Steam) | 15 psi (103 kPa) |
| Max Differential Pressure (Water) | 25 psi (172 kPa) |
| Rangeability | 85:1 |
| Cv | 65 |
| Weight | 57.1 lb [25.9 kg] |
| Servicing | Repack/Rebuild kits available |

## Flow Pattern




## Dimensions (Inches [mm])




**EVB, EVX, RVB, RVX**

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 11.7" [297] | 9" [229] | 23.00" [584.2] | 18.25" [464] | 3.64" [92] | |

## 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.

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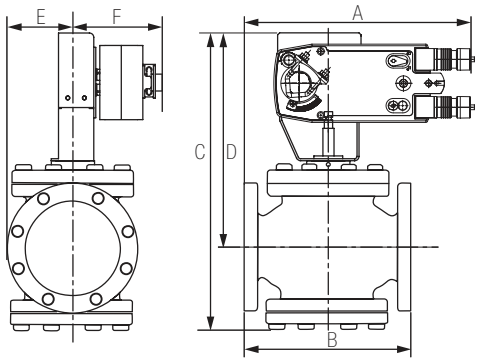
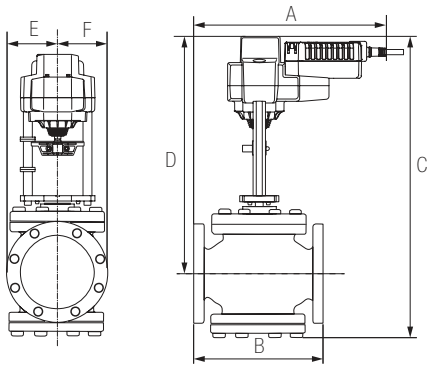



**AFB, AFX**

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 11.7" [297] | 9" [229] | 21.64" [550] | 16.85" [428] | 3.64" [92] | 5.25" [135] |

## Dimensions (Inches [mm])




**AVKB, AVKX**

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 11.7" [297] | 9" [229] | 23.00" [584.2] | 18.25" [464] | 3.64" [92] | |