C۷

Weight

Servicing

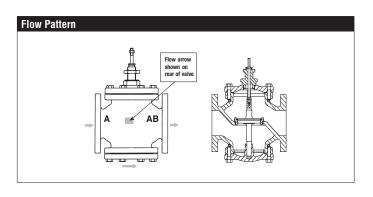
BELIMO

G6100C, 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	125 lb. flanged
Body	Cast Iron - ASTM A126 Class B
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 Holes	8
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)
Leakage	ANSI Class III
Rangeability	98:1



170

125 lb [56.7 kg]

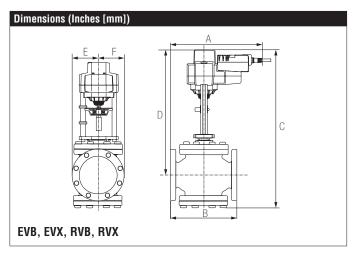
Repack/Rebuild kits available

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	Spring	Electronic Fail-Safe	
G6100C	EVB(X)	2*AFB(X)	AVKB(X)	

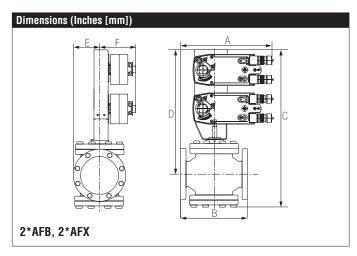


Α	В	С	D	Е	F
13.76"	13" [330]	26.64"	19.75"	4.5"	[114]
[349]		[676]	[502]		

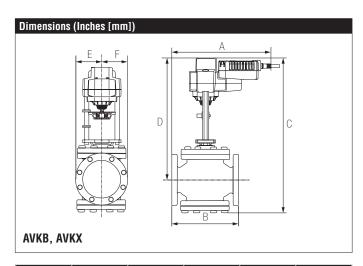
Piping

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.

G6100C, 2-Way, Pressure Compensated Flanged Globe Valve



Α	В	С	D	Е	F
13.76"	13" [330]	30" [762]	23.25"	4.5" [114]	5.25" [135]
[349]			[590]		



Α	В	C	D	Е	F
13.76"	13" [330]	26.64"	19.75"	4.5"	[114]
[349]		[676]	[502]		



Technical Data				
Power Supply	24240 VAC +10% / -20%, 50/60 Hz,			
	24125 VDC ±10%			
Power Consumption Running	7.5 W			
Power Consumption Holding	3.5 W			
Transformer Sizing	14 VA @ 24VAC (class 2 power source), 17 VA @ 120 VAC, 36 VA @ 240 VAC			
Electrical Connection	(2) 3 ft [1 m], 18 GA appliance cables with 1/2" conduit connectors			
Overload Protection	electronic throughout 0° to 95° rotation			
Operating Range	on/off			
Position Feedback	No Feedback			
Angle of Rotation	95° (adjustable with mechanical end stop, 35° to 95°)			
Direction of Rotation (Motor)	reversible with CW/CCW mounting			
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)	<75 sec			
Running Time (Fail-Safe)	<20 sec			
Humidity	max. 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	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			
Sound power level	<pre><50 dB (A)</pre>			
Noise Level (Fail-Safe)	<62 dB (A)			
Servicing	maintenance free			
Quality Standard	ISO 9001			
Weight	9.7 lb [4.4 kg]			
•	1 01			
Auxiliary Switch	2 x SPDT, 3A resistive (0.5A inductive) @ 250 VAC, one set at +10°, one adjustable 10° to 90°			

 $\label{thm:pulse_policy} \mbox{\uparrowRated Impulse Voltage 4kV, Type of Action 1.AA.B, Control Pollution Degree 3.}$



2*AFBUP-S-X1 On/Off, Spring Return, 24 to 240 VAC

Wiring Diagrams



Actuators with appliance cables are numbered.



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



Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC.



Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.



Provide overload protection and disconnect as required.

Parallel wiring required for piggy-back applications.



Actuators may also be powered by 24 VDC.



Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.



Actuators may be powered in parallel. Power consumption must be observed. $% \label{eq:power_power} % \label{eq:power_power}$

