Technical data sheet G780

ANSI-Flanged Globe Valves

- **chilled or hot water, up to 60% glycol**
- **ANSI Class 125, up to 175 psi below 150°F**
- **125**
- **Cast iron - ASTM A126 Class B**



Picture may differ from product

5-year warranty

Type overview

Type	DN	Cv	Body Pressure Rating
G780	3" [80]	85	ANSI Class 125, up to 175 psi below 150°F

Technical data

Functional data	Valve size [mm]	3" [80]
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	32...300°F [0...149°C]
	Flow characteristic	linear
	Leakage rate	ANSI Class III
	Pipe connection	Flange for use with ASME/ANSI class 125
	Servicing	repack/rebuild kits available
	Rangeability Sv	50:1
	Flow Pattern	3-way Mixing
	Controllable flow range	stem up - open B – AB
Materials	Valve body	Cast iron - ASTM A126 Class B
	Closing element	bronze
	Stem	stainless steel
	Stem seal	NLP EPDM (no lip packing)
	Seat	Stainless steel AISI 316
Suitable actuators	Non Fail-Safe	EVB(X) RVB(X)
	Spring	AF 2*AFB(X)
	Electronic fail-safe	AVKB(X) 2*GKB(X)

Safety notes

- This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Only authorized specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with during installation.
- The valve does not contain any parts that can be replaced or repaired by the user.
- When determining the flow rate characteristic of controlled devices, the recognised directives must be observed.

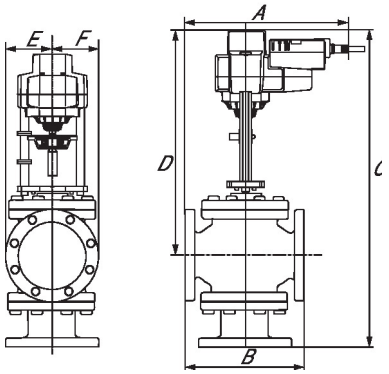
Accessories

Mechanical accessories	Description	Type
	Repack Kit for Belimo G6, G7 series globe valves, Bronze trim	ZG-GV15

Dimensions

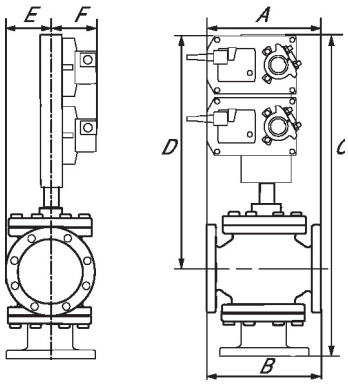
Type	DN	Weight
G780	3" [80]	80.83 lb [36.74 kg]

EVB, EVX, RVB, RVX



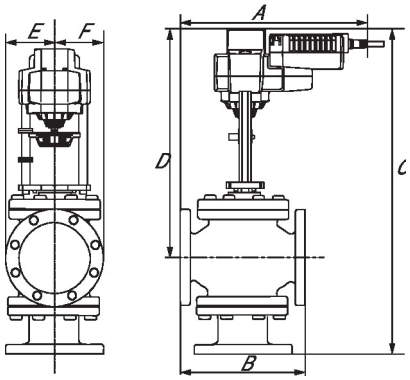
A	B	C	D	E	F	Number of Bolt Holes
12.2" [310]	10.0" [254]	27.0" [686]	19.0" [483]	3.9" [100]	3.9" [100]	4

2*GMB, 2*GMX, 2*GKB, 2*GKX



A	B	C	D	E	F	Number of Bolt Holes
12.2" [310]	10.0" [254]	30.5" [775]	22.5" [572]	3.7" [95]	5.3" [135]	4

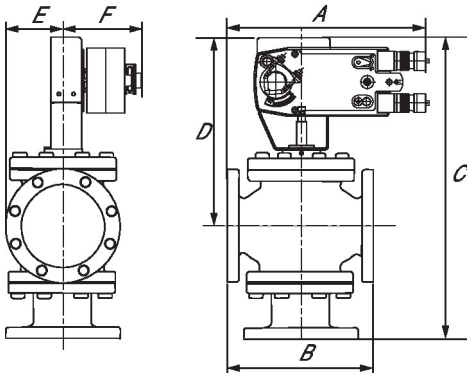
AVKB, AVKX



A	B	C	D	E	F	Number of Bolt Holes
13.1" [332]	10.0" [254]	27.0" [686]	19.0" [483]	3.9" [100]	3.9" [100]	4

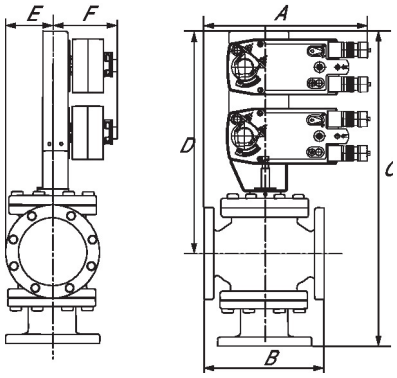
Dimensions

AFB, AFX



A	B	C	D	E	F	Number of Bolt Holes
12.2" [310]	10.0" [254]	25.6" [650]	17.5" [445]	3.7" [95]	5.3" [135]	4

2*AFB, 2*AFX

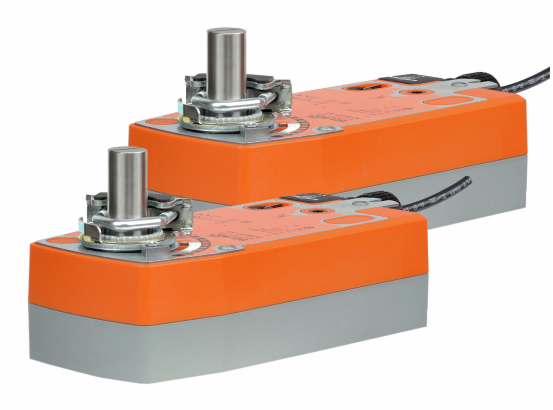


A	B	C	D	E	F	Number of Bolt Holes
12.2" [310]	10.0" [254]	30.5" [775]	22.5" [572]	3.7" [95]	5.3" [135]	4

BELIMO

Technical data sheet 2*AFBUP-X1

On/Off, Spring return, 24...240 V



Picture may differ from product

5-year warranty

Technical data

Electrical data	Nominal voltage	AC 24...240 V / DC 24...125 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2...264 V / DC 21.6...137.5 V
	Power consumption in operation	7 W
	Power consumption in rest position	3.5 W
	Transformer sizing	36 VA
	Overload Protection	electronic thoughout 0...90° rotation
Functional data	Direction of motion motor	selectable by ccw/cw mounting
	Direction of motion fail-safe	reversible with cw/ccw mounting
	Manual override	5 mm hex crank (3/16" Allen), supplied
	Angle of rotation	95°
	Running Time (Motor)	75 s / 90°
	Running time fail-safe	<20 s
	Sound power level motor	50 dB(A)
	Sound power level, fail-safe	62 dB(A)
	Position indication	Mechanical, 30...65 mm stroke
Safety data	Power source UL	Class 2 Supply
	Degree of protection NEMA/UL	NEMA 2
	Housing	UL Enclosure Type 2
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU
	Quality Standard	ISO 9001
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-22...122°F [-30...50°C]
	Storage temperature	-40...176°F [-40...80°C]
	Servicing	maintenance-free
Weight	Weight	[]
Materials	Housing material	Galvanized steel and plastic housing

Footnotes †Rated Impulse Voltage 4kV, Type of action 1.AA, Control Pollution Degree 3.

Electrical installation

Wire colors:
1 = blue
2 = brown

AC 24...240 V / DC 24...125 V, on/off

