

Technical data sheet

G6125C

ANSI-Flanged Globe Valves

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





Type overview

DN
125

Technical data

Functional data	Valve size [mm]	5" [125]
	Fluid	chilled or hot water, up to 60% glycol, steam
	Fluid Temp Range (water)	32338°F [0138°C]
	Fluid Temp Range (steam)	32280°F [0138°C]
	Body Pressure Rating	ANSI Class 125, up to 175 psi below 150°F
	Flow characteristic	equal percentage
	Leakage rate	ANSI Class III
	Pipe connection	Flange
		for use with ASME/ANSI class 125
	Servicing	repack/rebuild kits available
	Rangeability Sv	100:1
	Max Differential Pressure (Steam)	15 psi [103 kPa]
	Flow Pattern	2-way
	Controllable flow range	stem up - open A – AB
	Cv	263
	Maximum Inlet Pressure (Steam)	35 psi [241 kPa]
Materials	Valve body	Cast iron - ASTM A126 Class B
	Valve plug	brass
	Stem	stainless steel
	Stem seal	NLP EPDM (no lip packing)
	Seat	Stainless steel AISI 316
Suitable actuators	Non Fail-Safe	EVB(X)
	Spring	2*AFB(X)
	Electronic fail-safe	AVKB(X)



Safety notes

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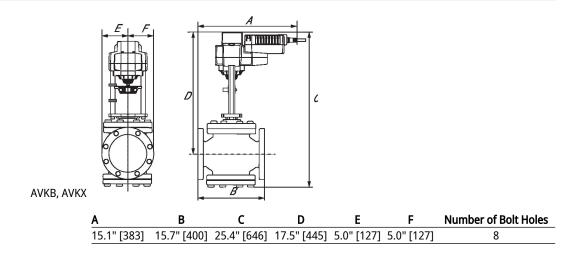
- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used 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.

Dimensions

Туре	DN		Veight
G6125C	125	130	lb [57 kg]
	EVB, EVX, RVB, RVX		
	Α	B C D	E F Number of Bolt Holes
		" [400] 25.4" [646] 17.5" [445] 5.0"	
	2*AFB, 2*AFX		
	<u>A</u>		E F Number of Bolt Holes
	<u>15.1" [383]</u> 15.7	7" [400] 28.7" [730] 21.0" [533] 5.0"	[127] 5.3" [135] 8









MFT/programmable, Non fail-safe, 24 V









Technical data

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
	Power consumption in operation	4.5 W
	Power consumption in rest position	1.5 W
	Transformer sizing	7 VA
	Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" NPT conduit connector (10 ft [3 m] and 16 ft [5 m] available)
	Overload Protection	electronic throughout 095° rotation
Functional data	Operating range Y	210 V
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
	Input impedance	100 k Ω for 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω for PWM, On/Off and Floating point
	Operating range Y variable	Start point 0.530 V End point 2.532 V
	Operating modes optional	variable (VDC, on/off, floating point)
	Position feedback U	210 V
	Position feedback U note	Max. 0.5 mA
	Position feedback U variable	VDC variable
	Direction of motion motor	selectable with switch 0/1
	Manual override	external push button
	Angle of rotation	Max. 95°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	150 s / 90°
	Running time motor variable	90150 s
	Noise level, motor	45 dB(A)
	Position indication	Mechanical, 3065 mm stroke
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	UL Enclosure Type 2



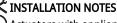
Safety data Agency Listing cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02 CE acc. to 2014/30/EU and 2014/35/EU ISO 9001 **Quality Standard** UL 2043 Compliant Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC Ambient humidity Max. 95% RH, non-condensing Ambient temperature -22...122°F [-30...50°C] Storage temperature -40...176°F [-40...80°C] Servicing maintenance-free Weight Weight 3.4 lb [1.5 kg] Materials Housing material Galvanized steel and plastic housing

Footnotes †Rated Impulse Voltage 800V, Type action 1, Control Pollution Degree 3.

Accessories

Electrical accessories	Description	Туре
	Battery backup system, for non-spring return models	NSV24 US
	Battery, 12 V, 1.2 Ah (two required)	NSV-BAT
	Service tool, with ZIP-USB function, for programmable and	ZTH US
	communicative Belimo actuators, VAV controller and HVAC performance	
	devices	

Electrical installation



A) Actuators with appliance cables are numbered.

Provide overload protection and disconnect as required.

Actuators may also be powered by DC 24 V.

S Only connect common to negative (-) leg of control circuits.

 \sim A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.



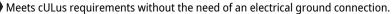
Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 V line. A For triac sink the Common connection from the actuator must be connected to the Hot

connection of the controller. Position feedback cannot be used with a triac sink controller; the actuator internal common reference is not compatible.

\Lambda IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).

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

Master-Slave wiring required for piggy-back applications. Feedback from Master to control input(s) of Slave(s).



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.





Technical data sheet

GMX24-MFT-X1

Electrical installation

