





Type overview	
Туре	DN
G6100C	100

Technical data

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Valve size [mm]	4" [100]
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
Servicing	repack/rebuild kits available
Rangeability Sv	98:1
Max Differential Pressure (Steam)	15 psi [103 kPa]
Flow Pattern	2-way
Leakage rate	ANSI Class III
Controllable flow range	stem up - open A – AB
Cv	170
Maximum Inlet Pressure (Steam)	35 psi [241 kPa]
Valve hody	Cast iron - ASTM A126 Class R

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		
Pipe connection	125 lb flanged		
Non-Spring	EVB(X)		
Spring	(2*AFB(X))		

Suitable actuators

Non-Spring	EVB(X)
Spring	(2*AFB(X))
Electrical fail-safe	AVKB(X)

Safety notes

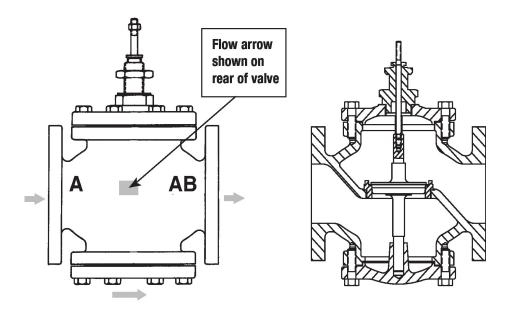


- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used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



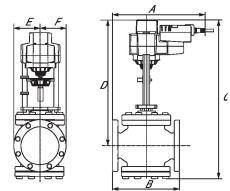
Product features

Flow/Mounting details

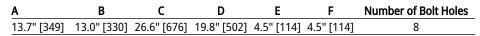


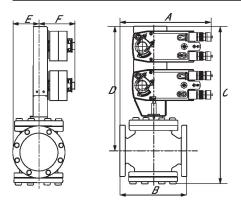
Dimensions

Туре	DN	Weight	
G6100C	100	125.69 lb [57 kg]	



EVB, EVX, RVB, RVX

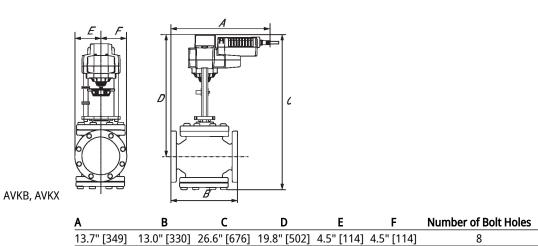




2*AFB, 2*AFX

Α	В	С	D	E	F	Number of Bolt Holes
13.7" [349]	13.0" [330]	30.0" [762]	23.2" [590]	4.5" [114]	5.3" [135]	8













		REG. EQUIP.
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, 1 m, with 1/2" conduit connector (3 m and 5 m available)
	Overload Protection	electronic throughout 095° rotation
Functional data	Torque motor	40 Nm
	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	Mechanically, 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
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02
		CE acc. to 2014/30/EU and 2014/35/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	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]



Technical data sheet GMX24-MFT-X1

Safety data	Servicing	maintenance-free
Weight	Weight	4.9 lb [2.2 kg]
Materials	Housing material	Galvanized steel and plastic housing

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

Accessories

trical 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

Elect

INSTALLATION NOTES

A Actuators with appliance cables are numbered.

• Provide overload protection and disconnect as required.

Actuators may also be powered by DC 24 V.

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

 Λ 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.

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.

[N4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).

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

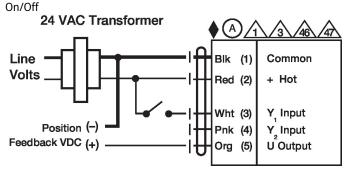
Master-Slave wiring required for piggy-back applications. Feedback from Master to control input(s) of Slave(s).

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

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.





Floating Point

