





Type overview	
Туре	DN
G6125LCS	125

Technical data

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Valve size [mm]	5" [125]
Fluid	chilled or hot water, up to 60% glycol, steam
Fluid Temp Range (water)	32350°F [0176°C]
Fluid Temp Range (steam)	32338°F [0170°C]
Body Pressure Rating	ANSI Class 125, up to 175 psi below 150°F
Flow characteristic	linear
Servicing	repack/rebuild kits available
Rangeability Sv	100:1
Max Differential Pressure (Steam)	50 psi [345 kPa]
Flow Pattern	2-way
Leakage rate	ANSI Class III
Controllable flow range	stem up - open A – AB
Cv	263
Maximum Inlet Pressure (Steam)	100 psi [690 kPa]

Materials

Valve body	Cast iron - ASTM A126 Class B	
Valve plug	Stainless steel	
Stem	316 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

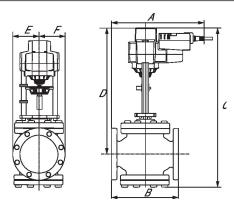


- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used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



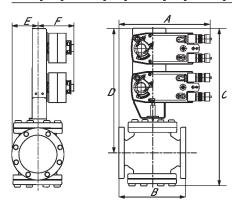
Dimensions

Туре	DN	Weight	
G6125LCS	125	147.74 lb [67 kg]	



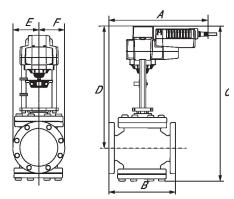
EVB, EVX, RVB, RVX

Α	В	С	D	Е	F	Number of Bolt Holes
15.7" [400]	15.1" [383]	25.4" [646]	17.5" [445]	5.0" [127]	5.0" [127]	8



2*AFB, 2*AFX

Α	В	C	D	E	F	Number of Bolt Holes
15.1" [383]	15.7" [400]	28.7" [730]	21.0" [533]	5.0" [127]	5.3" [135]	8

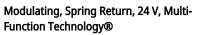


AVKB, AVKX

Α	В	С	D	E	F	Number of Bolt Holes
15.1" [383]	15.7" [400]	25.4" [646]	17.5" [445]	5.0" [127]	5.0" [127]	8

Technical data sheet

2*AFX24-MFT-X1









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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	7.5 W
	Power consumption in rest position	3 W
	Transformer sizing	20 VA
	Electrical Connection	18 GA appliance cable, 1 m, 3 m or 5 m, with 1/2" conduit connector, degree of protection NEMA 2 / IP54
	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, PWM, 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
	Direction of motion fail-safe	reversible with cw/ccw mounting
	Manual override	5 mm hex crank (3/16" Allen), supplied
	Angle of rotation	95°
	Angle of rotation note	adjustable with mechanical end stop, 3595°
	Running Time (Motor)	150 s / 90°
	Running time motor variable	70220 s
	Running time fail-safe	<20 s
	Override control	MIN (minimum position) = 0%
		MID (intermediate position) = 50%
	Naisa laval mateu	MAX (maximum position) = 100%
	Noise level, motor	40 dB(A)
	Noise level, fail-safe Position indication	62 dB(A) Mechanical
	Position indication	Mechanical
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



	lechnical data sheet	2*AFX24-MF1-X1
Safety data	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]
	Servicing	maintenance-free
Weight	Weight	9.26 lb [4.2 kg]
Materials	Housing material	Galvanized steel and plastic housing

*Variable when configured with MFT options. **Footnotes**

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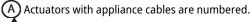
Gateways	Description	Туре	
	Gateway MP to BACnet MS/TP	UK24BAC	
	Gateway MP to Modbus RTU	UK24MOD	
	Gateway MP to LonWorks	UK24LON	
Electrical accessories	Description	Туре	
	Service Tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US	
Tools	Description	Туре	
	Connection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidmüller and supply connection	ZK4-GEN	
	Service Tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US	

Electrical installation



/ 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.



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

A 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.

🛕 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).



