





Type overview			
Туре			DN
G232B-M			32
Technical data			
Fur	nctional data	Valve size [mm]	1.25" [32]
		Fluid	chilled or hot water, up to 60% glycol, steam
		Fluid Temp Range (water)	20280°F [-7138°C]
		Fluid Temp Range (steam)	32280°F [0138°C]
		Body Pressure Rating	ANSI Class 250, up to 400 psi below 150°F
		Flow characteristic	modified equal percentage
		Servicing	repack kits available
		Rangeability Sv	100:1

Max Differential Pressure (Steam)

Maximum Inlet Pressure (Steam)

Flow Pattern

Leakage rate

Electrical fail-safe

Controllable flow range

Materials

Valve body	Bronze	
Valve plug	brass	
Spindle	stainless steel	
Spindle seal	EPDM O-ring	
Seat	Bronze	
Pipe connection	NPT female ends	
Non-Spring	LVB(X)	
Spring	LF	

LVKB(X)

20 psi [103 kPa]

ANSI Class VI

35 psi [241 kPa]

stem up - open A - AB

2-way

Safety notes



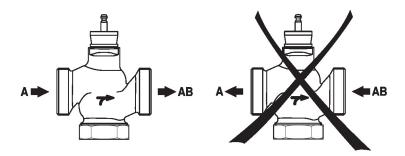
Suitable actuators

- 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.



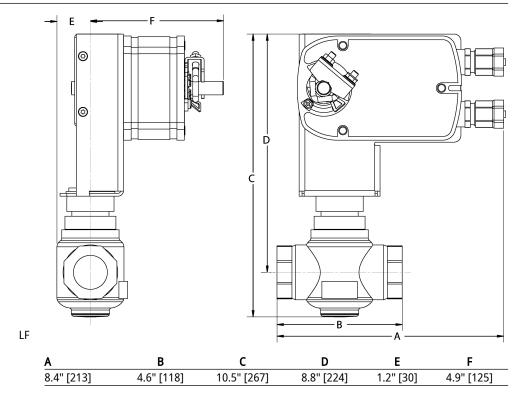
Installation notes

Flow direction The direction of flow, specified by an arrow on the housing, is to be complied with, since otherwise the valve could become damaged.

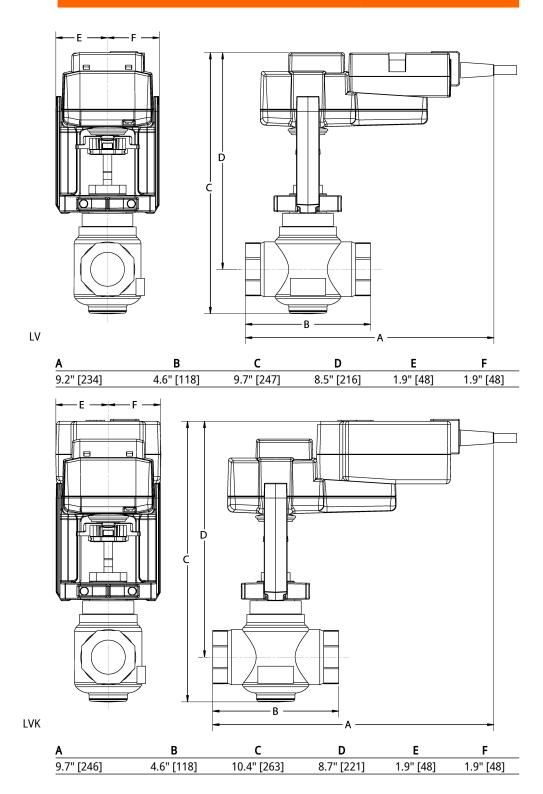


Dimensions

Туре	DN
G232B-M	32









Modulating, Spring Return, 24 V, Multi-Function Technology®

Technical data sheet LF24-MFT-S US



		REG. EQUIR
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	2.5 W
	Power consumption in rest position	1 W
	Transformer sizing	5 VA
	Auxiliary switch	1 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, adjustable 095°
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V
	Electrical Connection	(2) 18 GA appliance cables, 1 m, with 1/2" conduit connectors
	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
	Direction of motion fail-safe	reversible with cw/ccw mounting
	Angle of rotation	90°
	Running Time (Motor)	150 s / 90°
	Running time motor variable	75300 s
	Running time fail-safe	<25 s @ -4122°F [-2050°C], <60 s @ -22°F [-30°C]
	Noise level, motor	50 dB(A)
	Noise level, fail-safe	62 dB(A)
	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 UL 873 and CAN/CSA C22.2 No. 24-93
	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



Technical data sheet LF24-MFT-S US

Safety data	Ambient humidity	Max. 95% RH, non-condensing
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Ambient temperature	-22122°F [-3050°C]	
Storage temperature	-40176°F [-4080°C]	
Servicing	maintenance-free	
Weight	3.3 lb [1.5 kg]	

galvanized steel

Footnotes *Variable when configured with MFT options.

Housing material

Weight

Materials

Accessories

Electrical accessories	Description	Туре	
	Service Tool, with ZIP-USB function, for programmable and	ZTH US	
	communicative Belimo actuators, VAV controller and HVAC performance		

Electrical installation

extstyle imes installation notes

devices

(A) Actuators with appliance cables are numbered.

1 Provide overload protection and disconnect as required.

🛕 Actuators may also be powered by DC 24 V.

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

 \bigwedge 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.

Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

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

One built-in auxiliary switch (1x SPDT), for end position indication, interlock control, fan startup, etc.

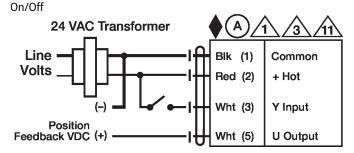
Meets cULus requirements without the need of an electrical ground connection.

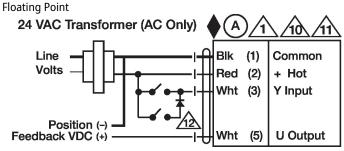
Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.

Warning! Live electrical components!

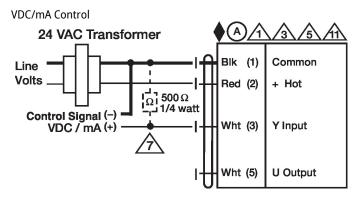
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

Wiring diagrams

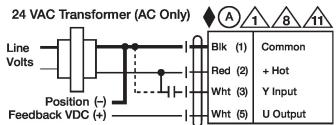








PWM Control



Auxiliary Switches

