

G225B-L







Type overview

Туре	DN
G225B-L	25

Technical data

Functional data	Valve Size	1" [25]
	Fluid	chilled or hot water, up to 60% glycol, steam
	Fluid Temp Range (water)	20280°F [-7138°C]
	Body Pressure Rating	ANSI Class 250, up to 400 psi below 150°F
	Servicing	repack kits available
	Rangeability Sv	100:1
	Max Differential Pressure (Steam)	20 psi [103 kPa]
	Flow Pattern	2-way
	Leakage rate	ANSI Class VI
	Controllable flow range	stem up - open A – AB
	Cv	14
	Maximum Inlet Pressure (Steam)	35 psi [241 kPa]
	ANSI Class	250
	Body pressure rating note	up to 400 psi below 150°F
Materials	Housing	Bronze
	Valve plug	brass
	Stem	stainless steel
	Stem seal	EPDM O-ring
	Seat	Bronze
	End fitting	NPT female ends
Suitable actuators	Non-Spring	LVB(X)
	Electronic fail-safe	LVKB(X)

Safety notes



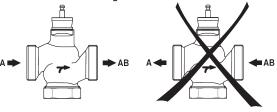
- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Only authorised 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.



Technical data sheet

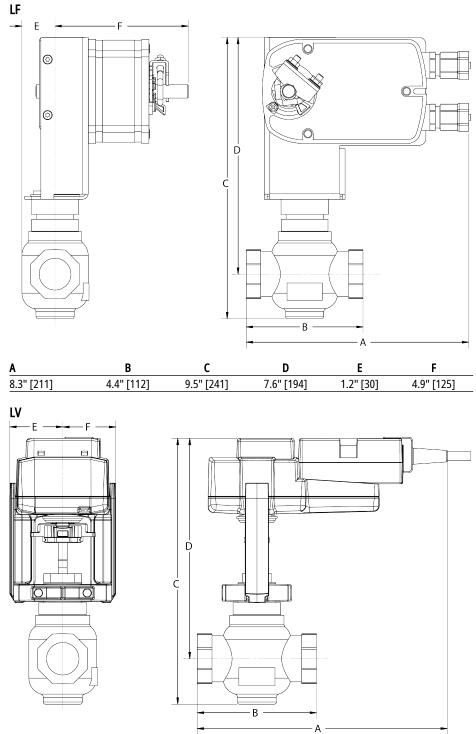
Flow direction

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

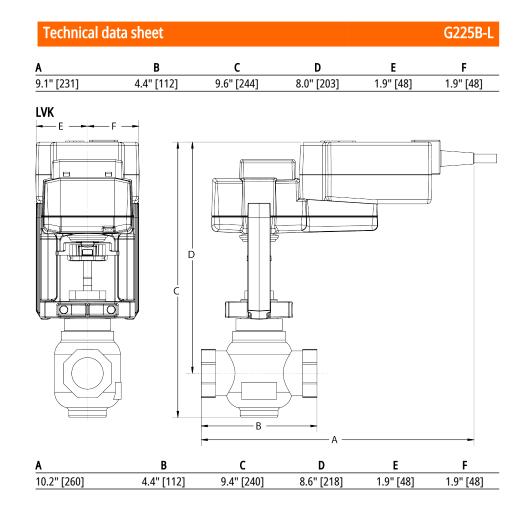


Dimensions

Dimensional drawings









Technical data sheet

LVKB24-MFT

Modulating, Fail-Safe Operation, Linear, 24 V, Multi-Function Technology®

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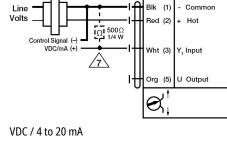
Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	2.5 W	
	Power consumption in rest position	1.5 W	
	Transformer sizing	6 VA (class 2 power source)	
	Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector, degree of protection NEMA 2 / IP54	
	Overload Protection	electronic throughout full stroke	
	Electrical Protection	actuators are double insulated	
Functional data	Actuating force motor	115 lbf [500 N]	
	Operating range Y	210 V	
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)	
	Input Impedance	100 kΩ for 210 V (0.1 mA), 500 Ω for 420 mA,	
	mparimpedance	1500 Ω for PWM, On/Off and Floating point	
	Operating range Y variable	Start point 0.530 V	
		End point 2.532 V	
	Options positioning signal	variable (VDC, PWM, on/off, floating point)	
	Position feedback U	210 V	
	Position Feedback	210 V	
	Bridging time	2 s delay before fail-safe activates	
	Pre-charging time	520 s	
	Direction of motion motor	selectable with switch	
	Direction of motion fail-safe	reversible with switch	
	Manual override	4 mm hex crank (shipped w/actuator)	
	Stroke	0.75" [19 mm]	
	Running Time (Motor)	90 s constant, independent of load	
	Running time motor note	constant, independent of load	
	Running time fail-safe	<35 s	
	Noise level, motor	55 dB(A)	
	Noise level, fail-safe	60 dB(A)	
	Position indication	Mechanically, with pointer	
Safety data	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	
	Ambient temperature	-22122°F [-3050°C]	
	Storage temperature	-40176°F [-4080°C]	
	Ambient humidity	max. 95% r.H., non-condensing	
	Servicing	maintenance-free	



Technical data sheet

LVKB24-MFT

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Weight	Weight	3.53 lb [1.6 kg]
Materials	Housing material [Die cast aluminium and plastic casing
Accessories		
Gateways	Description	Туре
	Gateway MP to BACnet MS/TP Gateway MP to LonWorks Gateway MP to Modbus RTU	UK24BAC UK24LON UK24MOD
Service tools	Description	Туре
	Connection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-p connection Service Tool, with ZIP-USB function, for configurable a actuators, VAV controller and HVAC performance device	nd communicative Belimo ZTH US
Electrical installation		
	 A 500 Ω resistor (ZG-R01) converts the 420 mA control Control signal may be pulsed from either the Hot (Sour For triac sink the common connection from the actuat controller. Contact closures A & B also can be triacs. A open for triac sink. Actuators with plenum cable do not have numbers; us Meets cULus requirements without the need of an ele Warning! Live Electrical Components! During installation, testing, servicing and troubleshood with live electrical components. Have a qualified licent properly trained in handling live electrical component safety precautions when exposed to live electrical component 	urce) or Common (Sink) 24 V line. for must be connected to the hot connection of the & B should both be closed for the triac source and se color codes instead. Actrical ground connection. This product, it may be necessary to work sed electrician or other individual who has been ts perform these tasks. Failure to follow all electrical
24 VAC Transformer Line Unit of the second	put 2 to 10 VDC (-) Feedback Signal (+) Direction of rotation of A B B B B B B B B C C C C C C C C C C C C C	Bik (1) - Common Red (2) + Hot Wht (3) Y, Input Pnk (4) Ys Input Org (5) U Output switch
On/Off	Floating Point	
24 VAC Transformer	24 VAC Transformer (#	
Line Volts I Red (2) + Hot	Line	Blk (1) - Common Red (2) + Hot



Vht (3)

Org (5)

 $\mathfrak{A}^{\dagger}_{\dagger}$

Y₁ Input

U Output

/. + X +

500 Ω 1/4 W \wedge

> а С

Override Control Min, Mid, Max Positions

С

Control Signal(–) VDC/mA(+)

Function: 0% 4

50% 100% trol mode ac

Mid Max Normal Co