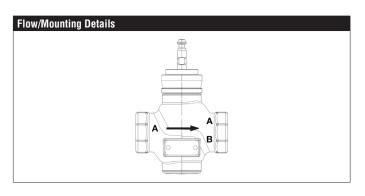
## **G232B-M Technical Data Sheet**







Fluid chilled or hot water, up to 60% glycol, steam  Flow characteristic modified equal percentage  Controllable flow range stem up - open A - AB  Valve Size [mm] 1.25" [32]  Pipe connection NPT female ends  Housing Bronze  Stem stainless steel  Stem seal EPDM 0-ring  Seat Bronze  Valve plug brass  Body Pressure Rating ANSI Class 250, up to 400 psi below 150°F  ANSI Class 250  Maximum Inlet Pressure (Steam) 35 psi [241 kPa]  Max Differential Pressure (Steam) 20 psi [103 kPa]  Rangeability Sv 100:1  Cv 20  Weight 4.2 lb [1.9 kg]  Fluid Temp Range (water) 20280°F [-7138°C]  Leakage rate ANSI Class VI  Servicing repack kits available		
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Weight         4.2 lb [1.9 kg]           Fluid Temp Range (water)         20280°F [-7138°C]           Leakage rate         ANSI Class VI	Rangeability Sv	100:1
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Leakage rate ANSI Class VI	Weight	4.2 lb [1.9 kg]
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Servicing repack kits available	Leakage rate	ANSI Class VI
	Servicing	repack kits available

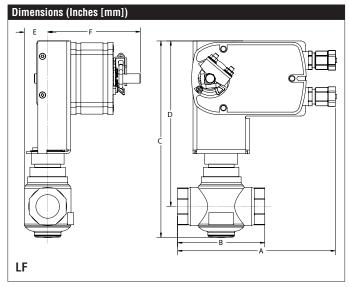


#### **Application**

This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include unit ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in hydronic systems with variable flow. Bronze and stainless steel trim valves can be used for steam applications, depending on actuator and close-off combinations.

**Suitable Actuators** 

	Non-Spring	Spring	Electronic fail-safe
G232B-M	LVB(X)	LF	LVKB(X)



А	В	С	D	Е	F
8.4" [213]	4.6" [118]	10.5" [267]	8.8" [224]	1.2" [30]	4.9" [125]

### Safety Notes

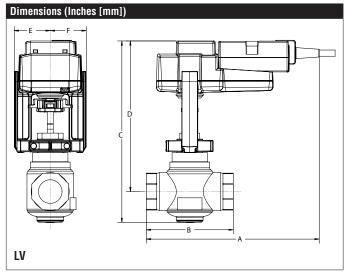
WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

#### Piping

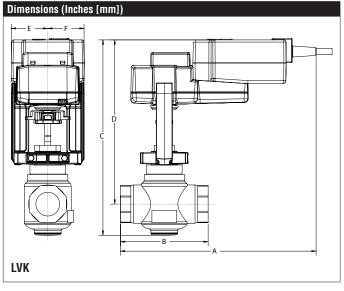
The valves should be mounted in a weather-protected area in a location that is within the ambient limits of the actuator. Allow sufficient room for valve with actuator and for service. The G2 and G3 preferred mounting position of the valve is with the valve stem vertical above the valve body, for maximum life. However, the assemblies can be mounted with the valve stem vertical or horizontal in relation to the pipe. The actuators should never be mounted underneath the valve, as condensation can build up and result in a failure of the actuators.



# **G232B-M Technical Data Sheet**



۸	D I			F	Г
A	В	L L	ו ט ו	E	Г
0.07 [00.4]	4 0" [440]	0.7" [0.47]	0.5" [04.6]	1 0"	[40]
9.2 [234]	4.0 11181	9.7 12471	0.5 12101	1.9	1481



# LVKB24-3 Technical Data Sheet

On/Off, Floating Point, Electronic Fail-Safe, Linear, 24 V





Technical Data	
Power Supply	24 VAC, ±20%, 50/60 Hz
Power consumption in operation	2.5 W
Power consumption in rest	1.5 W
position	
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
Input Impedance	100 kΩ (0.1 mA), 500 Ω, 1000 Ω (on/off)
Position Feedback	No Feedback
Stroke	0.75" [19 mm]
Actuating force motor	115 lbf [500 N]
Direction of rotation motor	reversible with switch
Direction of motion fail-safe	reversible with switch
Position indication	Mechanically, with pointer
Manual override	4 mm hex crank (shipped w/actuator)
Running Time (Motor)	90 s constant, independent of load
Running time fail-safe	<35 s
Bridging time	2 s delay before fail-safe activates
Pre-charging time	520 s
Ambient humidity	max. 95% r.H., non-condensing
Ambient temperature	-22122°F [-3050°C]
Storage temperature	-40176°F [-4080°C]
Degree of Protection	IP54, NEMA 2, UL Enclosure Type 2
Housing material	Die cast aluminium and plastic casing
Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and
	2006/95/EC
Noise level, motor	55 dB(A)
Noise level, fail-safe	60 dB(A)
Maintenance	maintenance-free
Quality Standard	ISO 9001
Weight	3.53 lb [1.6 kg]

† Use flexible metal conduit. Push the listed conduit fitting device over the actuator's cable to butt against the enclosure. Screw in conduit connector. Jacket the actuators input wiring with listed flexible conduit. Properly terminate the conduit in a suitable junction box. Rated impulse Voltage 800V. Type of action 1. Control pollution degree 3.

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

## Safety Notes

WARNING: For Belimo products sold in California: these products do or may contain chemicals which are known to the State of California to cause cancer and or birth defects or other reproductive harms. For more information see www.p65warnings.ca.gov.



## LVKB24-3 Technical Data Sheet

On/Off, Floating Point, Electronic Fail-Safe, Linear, 24 V

#### Wiring Diagrams



## X INSTALLATION NOTES



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



Provide overload protection and disconnect as required.



Actuators may be connected in parallel. Power consumption and input impedance must be observed.



Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 VAC line. Actuators may be connected in parallel if not mechanically linked. Power



consumption and input impedance must be observed. Actuators with plenum cable do not have numbers; use color codes



### 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.

