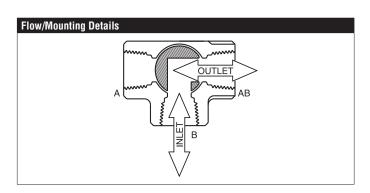






Technical Data		
Fluid	chilled or hot water, up to 60% glycol	
Flow characteristic	modified linear	
Controllable flow range	75°	
Valve Size [mm]	1" [25]	
Pipe connection	NPT female ends	
Housing	Nickel-plated brass body	
Ball	chrome plated brass	
Stem	nickel-plated brass	
Seat	PTFE	
Body Pressure Rating	600 psi	
Close-off pressure ∆ps	200 psi	
Cv	11	
Weight	1.32 lb [0.60 kg]	
Fluid Temp Range (water)	0250°F [-18120°C]	
Leakage rate	ANSI Class VI	
Servicing	maintenance-free	

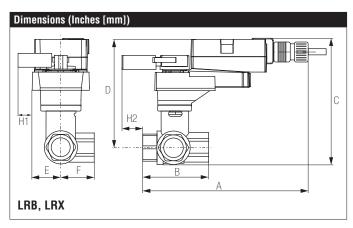


Application

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 as diverting or change over valve.

Suitable Actuators

	Non-Spring	Spring	
B325L	LRB(X)	LF	

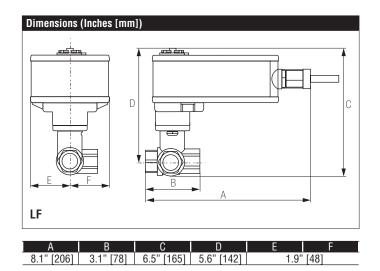


А	В	C	D	Е	F	H1	H2
7.3"	2.7"	7.2"	6.3"	1.3"	1.7"	1.2"	1" [25]
[185]	[69]	[184]	[161]	[33]	[44]	[30]	



B325L Technical Data Sheet

Chrome Plated Brass Ball and Nickel Plated Brass Stem



Date created, 04/03/2020 - Subject to change. © Belimo Aircontrols (USA), Inc.

LF24-MFT-S US, Valve Actuator Technical Data Sheet Modulating, Spring Return, 24 V, Multi-Function Technology®







Technical Data				
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%			
Power consumption in operation	2.5 W			
Power consumption in rest	1 W			
position	5.VA (-1			
Transformer sizing	5 VA (class 2 power source)			
Electrical Connection	(2) 18 GA appliance cables with 1/2" conduit connectors, 3 ft [1 m],			
Overload Protection	electronic throughout 095° rotation			
Operating Range	210 V (default), 420 mA w/ ZG-R01 (500 Ω , 1/4 W resistor), variable (VDC, on/off, floating point)			
Operating range Y variable	Start point 0.530 V End point 2.532 V			
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			
Position Feedback	210 V, Max. 0.5 mA, VDC variable			
Angle of rotation	90°			
Direction of motion motor	selectable with switch 0/1			
Direction of motion fail-safe	reversible with cw/ccw mounting			
Position indication	Mechanical			
Running Time (Motor)	default 150 s, variable 75300 s			
Running time fail-safe	<25 s @ -4122°F [-2050°C], <60 s @ -22°F [-30°C]			
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			
Agency Listing	cULus acc. To UL 873 and CAN/CSA C22.2 No. 24-93			
Noise level, motor	50 dB(A)			
Noise level, fail-safe	62 dB(A)			
Servicing	maintenance-free			
Quality Standard	ISO 9001			
Weight	3.1 lbs (1.40 kg.)			
Auxiliary switch	1 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, adjustable 095°			

†Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3 *Variable when configured with MFT options.



LF24-MFT-S US, Valve Actuator Technical Data Sheet

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

Wiring Diagrams

🔀 INSTALLATION NOTES



Actuators with appliance cables are numbered.



Provide overload protection and disconnect as required.



Actuators may also be powered by 24 VDC.



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



A 500 Ω resistor (ZG-R01) converts the 4 to 20 mA control signal to 2 to 10 VDC



Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 VAC 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.

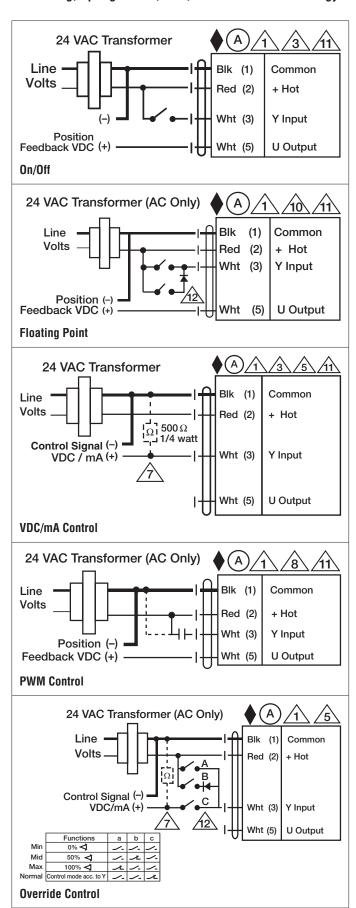


Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.



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.



LF24-MFT-S US, Valve Actuator Technical Data Sheet Modulating, Spring Return, 24 V, Multi-Function Technology®



