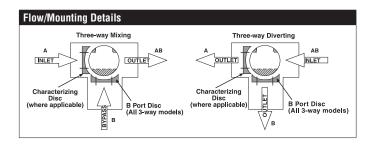
BELIMO





Technical Data	
Fluid	chilled, hot water, up to 60% glycol
Flow characteristic	A-port equal percentage, B-port modified for
	constant common port flow
Controllable flow range	75°
Valve Size [mm]	0.5" [15]
Pipe connection	NPT female ends
Housing	Nickel-plated brass body
Ball	stainless steel
Stem	stainless steel
Stem seal	EPDM (lubricated)
Seat	PTFE
O-ring	EPDM (lubricated)
Characterised disc	TEFZEL®
Body Pressure Rating	600 psi
Close-off pressure ∆ps	200 psi
Cv	16
Weight	0.66 lb [0.30 kg]
Fluid Temp Range (water)	0250°F [-18120°C]
Leakage rate	0% for A – AB, <2.0% for B – AB
Maintenance	maintenance-free

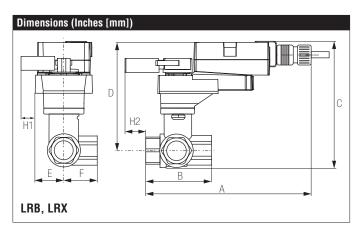


Application

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 in a hydronic system with variable or constant flow.

Suitable Actuators

	Non-Spring	Spring	
B316	TR, LRB(X), NRB(X) N4	TFB(X), LF	



Α	В	С	D	Е	F	H1	H2
8.5"	2.4"	5.2"	5.0"	1.3"	[33]	1.2"	1.1" [28]
[216]	[60]	[132]	[127]			[30]	

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.



Stainless Steel Ball and Stem

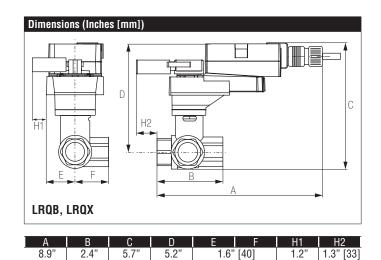


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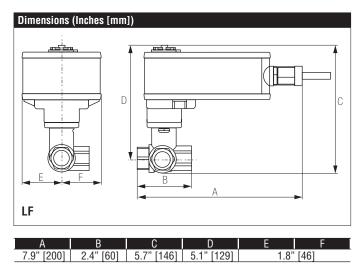
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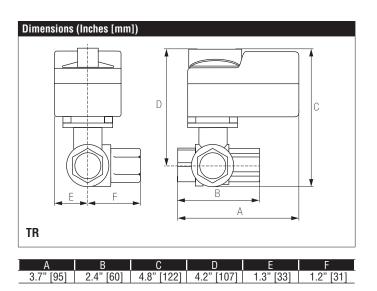
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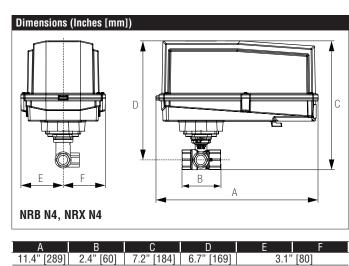
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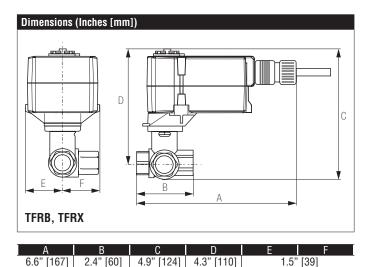


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LF24-SR US, Valve Actuator Technical Data Sheet
Modulating, Spring Return, AC 24 V for DC 2...10 V or 4...20 mA Control Signal





Technical Data				
Technical Data Power Supply	24.VAC +20% 50/60 Hz 24.VDC +10%			
	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%			
Power consumption in operation	2.0 11			
Power consumption in rest position	1 W			
Transformer sizing	5 VA (class 2 power source)			
Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2"			
	conduit connector			
Overload Protection	electronic throughout 095° rotation			
Operating Range	DC 210 V, 420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)			
Input Impedance	100 k Ω for DC 210 V (0.1 mA), 500 Ω for 420 mA			
Position Feedback	DC 210 V, Max. 0.7 mA			
Angle of rotation	90°			
Direction of rotation motor	reversible with built-in switch			
Direction of motion fail-safe	reversible with cw/ccw mounting			
Position indication	Mechanical			
Running Time (Motor)	150 s constant, independent of load			
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)			
Maintenance	maintenance-free			
Quality Standard	ISO 9001			
Weight	3.1 lbs (1.40 kg.)			

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

Safety Notes

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LF24-SR US, Valve Actuator Technical Data Sheet

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Wiring Diagrams



X 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.



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



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



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.

