

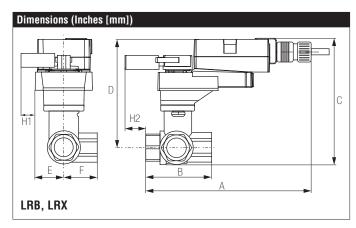




Application

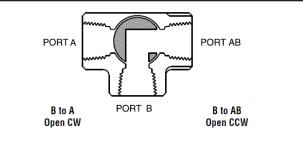
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.

Suitable Actuators				
	Non-Spring	Spring		
B320L	LRB(X)	LF		

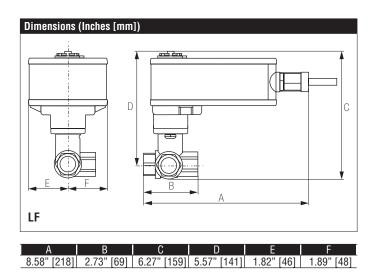


А	В	C	D	E	F	H1	H2
9.4"	2.73"	2.74"	5.09"	1.3"	1.6"	1.18"	1" [25]
[239]	[69]	[69.7]	[129]	[33]	[41]	[30]	

Technical Data	
Service	chilled, hot water, up to 60% glycol
Flow Characteristic	modified linear
Controllable Flow Range	75°
Size [mm]	0.75" [20]
End Fitting	NPT female ends
Body	forged brass, nickel plated
Ball	chrome plated brass
Stem	nickel plated brass
Seat	Teflon® PTFE
Body Pressure Rating [psi]	600
Media Temperature Range	0°F to 250°F [-18°C to 120°C]
(Water)	
Max Differential Pressure (Water)	50 psi (345 kPa)
Close-Off Pressure	200 psi
Cv	12.8
Weight	1.1 lb [0.5 kg]
Leakage	ANSI Class VI
Servicing	maintenance free







LF24-3-S US, Valve Actuator Floating Point, Spring Return, 24 V





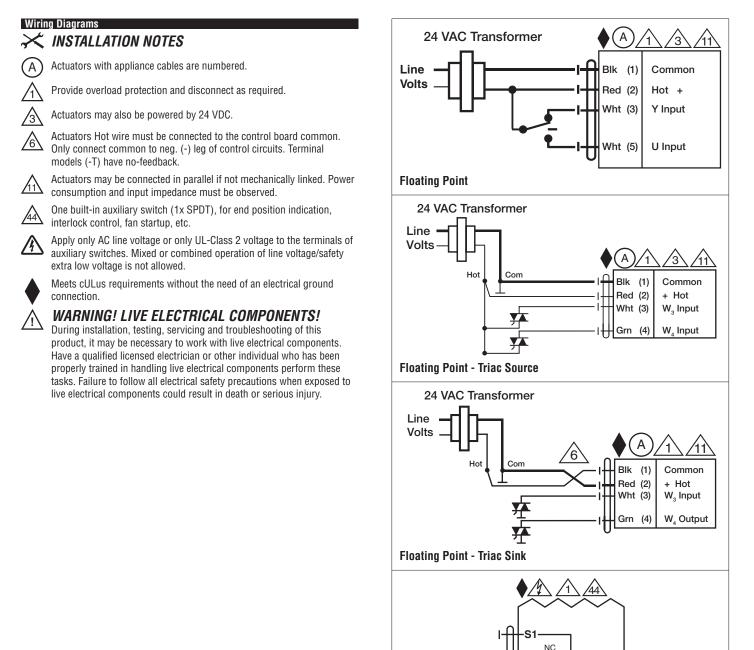
c c		
CE	TEMP IND. & CUUS	

Technical Data		
Power Supply	24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%	
Power Consumption Running	2.5 W	
Power Consumption Holding	1 W	
Transformer Sizing	5 VA (class 2 power source)	
Electrical Connection	(2) 3ft [1m], 18 GA appliance cables with 1/2" conduit connectors	
Overload Protection	electronic throughout 0° to 95° rotation	
Operating Range Y	floating point	
Input Impedance	1000 Ω (0.6 W)	
Feedback Output U	No Feedback	
Angle of Rotation	90°	
Direction of Rotation (Motor)	reversible with built-in switch	
Direction of Rotation (Fail-Safe)	reversible with CW/CCW mounting	
Position Indication	visual indicator, 0° to 95° (0° is full spring	
	return position)	
Running Time (Motor)	150 sec constant, independent of load	
Running Time (Fail-Safe)	<25 sec @ -4°F to 122°F [-20°C to 50°C], < 60 sec @ -22°F [-30°C]	
Ambient Temperature Range	-22°F to 122°F [-30°C to 50°C]	
Storage Temperature Range	-40°F to 176°F [-40°C to 80°C]	
Housing	NEMA 2, IP54	
Agency Listings†	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	
Auxiliary Switch	1 x SPDT, 3A resistive (0.5A inductive) @ 250 VAC, adjustable 0° to 95°	

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



Floating Point, Spring Return, 24 V



Auxiliary Switches

0° to 95°