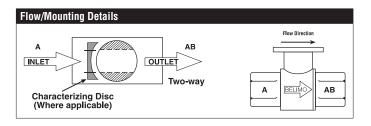






Technical Data			
Fluid	chilled, hot water, up to 60% glycol		
Flow characteristic	equal percentage		
Controllable flow range	75°		
Valve Size [mm]	0.75" [20]		
Pipe connection	NPT female ends		
Housing	Nickel-plated brass body		
Ball	stainless steel		
Stem	stainless steel		
Stem seal	EPDM (lubricated)		
Seat	PTFE		
O-ring	EPDM (lubricated)		
Characterized disc	No Disc (full flow)		
Body Pressure Rating	600 psi		
Close-off pressure ∆ps	200 psi		
Cv	24		
Weight	0.88 lb [0.40 kg]		
Fluid Temp Range (water)	0250°F [-18120°C]		
Leakage rate	0% for A – AB		
Servicing	maintenance-free		

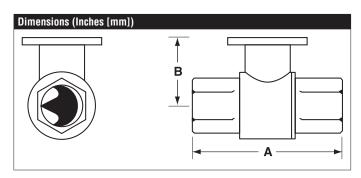


Application

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 in a hydronic system with variable flow.

Suitable Actuators

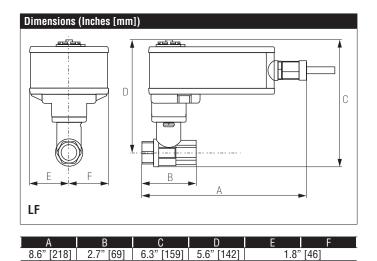
	Non-Spring	Spring				
B221	LRB(X), NR	LF				

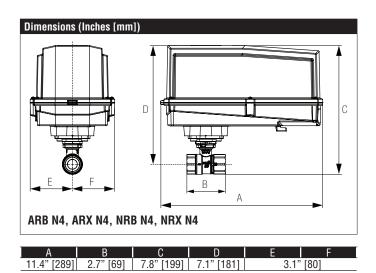


A	В	С	D	E F	H1	H2
9.4"	2.7"	5.8"	5.1"	1.3" [33]	1.2"	1" [25]
[239]	[69]	[147]	[129]		[30]	

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





LRB24-SR-T Technical Data Sheet

Modulating, Non-Spring Return, 24 V, for DC 2...10 V or 4...20 mA





Technical Data	
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%
Power consumption in operation	1.5 W
Power consumption in rest	0.2 W
position	
Transformer sizing	3 VA (class 2 power source)
Electrical Connection	Screw terminal (for 26 to 14 GA wire)
Overload Protection	electronic thoughout 090° rotation
Operating Range	210 V, 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
Position Feedback	210 V
Angle of rotation	90°
Direction of rotation motor	reversible with built-in switch
Position indication	Mechanically, pluggable
Manual override	external push button
Running Time (Motor)	default 90 s, variable 150, 90, 45, 35 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
Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA
	E60730-1:02, CE acc. to 2004/108/EC
Noise level, motor	35 dB(A)
Servicing	maintenance-free
Quality Standard	ISO 9001
Weight	1.1 lb [0.50 kg]

†Rated Impulse Voltage 800V, Type of Action 1, Control Pollution Degree 2.

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



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Wiring Diagrams



X INSTALLATION NOTES



Provide overload protection and disconnect as required.

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



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



Actuators may also be powered by 24 VDC.



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



Actuators are provided with a numbered screw terminal strip instead of



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.

