





5-year warranty



Technical data

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Valve Size	1" [25]
Fluid	chilled or hot water, up to 60% glycol
Fluid Temp Range (water)	0250°F [-18120°C]
Body Pressure Rating	600 psi
Close-off pressure Δps	200 psi
Servicing	maintenance-free
Flow Pattern	2-way
Leakage rate	0% for A – AB
Controllable flow range	75°
Cv	19
Body pressure rating note	600 psi
Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv
Seat	PTFE
End fitting	NPT female ends
O-ring	EPDM (lubricated)
Ball	stainless steel
Non-Spring	LRB(X)

Safety notes



Materials

Suitable actuators

 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

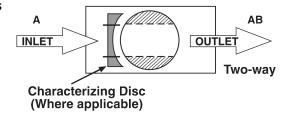
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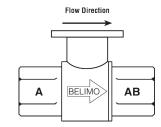
Product features

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.

Flow/Mounting details





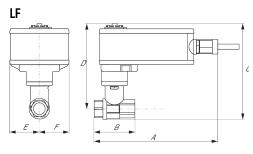


Dimensions

Dimensional drawings

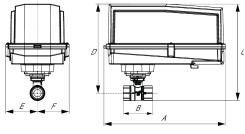
LRB, LRX

A	В	С	D	E	F	H1	H2
9.4" [239]	3.1" [78]	7.2" [184]	6.3" [161]	1.3" [33]	1.3" [33]	1.2" [30]	0.9" [23]



A	В	C	D	E	F
8.1" [206]	3.1" [78]	6.5" [165]	5.6" [142]	1.8" [46]	1.8" [46]

ARB N4, ARX N4, NRB N4, NRX N4



A	В	С	D	E	F
11.4" [289]	3.1" [78]	7.8" [199]	7.1" [181]	3.1" [80]	3.1" [80]

Modulating, Non-Spring Return, 24 V, for DC 2...10

Technical data sheet LRB24-SR-T







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V or 4...20 mA

Electrical data	Nominal voltage	AC/DC 24 V		
	Nominal voltage frequency	50/60 Hz		
	Power consumption in operation	1.5 W		
	Power consumption in rest position	0.2 W		
	Transformer sizing	3 VA (class 2 power source)		
	Electrical Connection	Screw terminal (for 26 to 14 GA wire)		
	Overload Protection	electronic thoughout 090° rotation		
- unctional data	Operating range Y	210 V		
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)		
	Input Impedance	100 k Ω for 210 V (0.1 mA), 500 Ω for 420 mA		
	Position feedback U	210 V		
	Position Feedback	210 V		
	Direction of motion motor	selectable with switch 0/1		
	Manual override	external push button		
	Angle of rotation	90°		
	Angle of rotation note	adjustable with mechanical stop		
	Running Time (Motor)	default 90 s, variable 150, 90, 45, 35 s		
	Running time motor variable	150, 90, 45, 35 s		
	Noise level, motor	35 dB(A)		
	Position indication	Mechanically, pluggable		
Safety data	Degree of protection IEC/EN	IP54		
	Degree of protection NEMA/UL	NEMA 2		
	Enclosure	UL Enclosure Type 2		
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU		
	Quality Standard	ISO 9001		
	Ambient temperature	-22122°F [-3050°C]		
	Storage temperature	-40176°F [-4080°C]		
	Ambient humidity	max. 95% r.H., non-condensing		
	Servicing	maintenance-free		
Weight	Weight	1.1 lb [0.50 kg]		

Electrical installation

INSTALLATION NOTES

Provide overload protection and disconnect as required.

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

Actuators may also be powered by 24 VDC.

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



Technical data sheet LRB24-SR-T

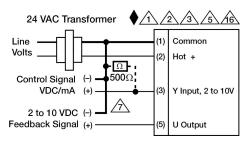
 \bigwedge A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

Actuators are provided with a numbered screw terminal strip instead of a cable.

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.



2...10 V / 4...20 mA Control