





5-year warranty



Technical data

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Valve Size	1.25" [32]		
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		
Flow characteristic	equal percentage		
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		
No Characterized Disc	TRUE		

Materials

Nickel-plated brass body		
EPDM (lubricated)		
PTFE		
NPT female ends		
EPDM (lubricated)		
stainless steel		
LRB(X)		
	PTFE NPT female ends EPDM (lubricated) stainless steel	

Suitable actuators

Safety notes



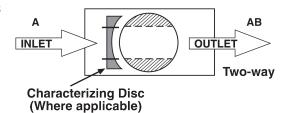
WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

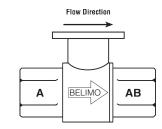
Product features

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.

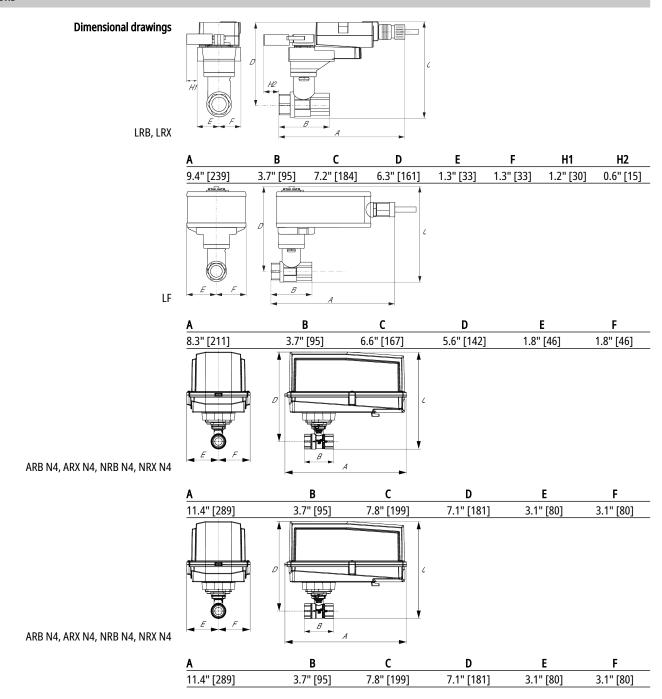
Flow/Mounting details







Dimensions



On/Off, Floating Point, Non-Spring Return, 24 V







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	2.5 VA (class 2 power source)		
Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector		
Overload Protection	electronic thoughout 090° rotation		
Input Impedance	600 Ω		
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)	90 s		
Noise level, motor	35 dB(A)		
Position indication	Mechanically, pluggable		
Degree of protection IEC/EN	IP54		
Degree of protection NEMA/UL	NEMA 2 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		
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	Nominal voltage frequency Power consumption in operation Power consumption in rest position Transformer sizing Electrical Connection Overload Protection Input Impedance Direction of motion motor Manual override Angle of rotation Angle of rotation note Running Time (Motor) Noise level, motor Position indication Degree of protection IEC/EN Degree of protection NEMA/UL Agency Listing Quality Standard Ambient temperature Storage temperature Ambient humidity		

Safety notes



- PVC W'Shld for GV w/UGLK (AM)
- Battery Back Up System for SY(7~10)-110
- ZS-300 Mounting Bracket Set
- 120 to 24 VAC, 40 VA transformer.
- Cable for ZTH US to actuators w/o diagnostics socket.
- PC Tool computer programming interface, serial port.

Electrical installation



> INSTALLATION NOTES

<u>A</u> Provide overload protection and disconnect as required.



Technical data sheet LRB24-3

Actuators may be connected in parallel. Power consumption and input impedance must be observed. Actuators may also be powered by 24 VDC.

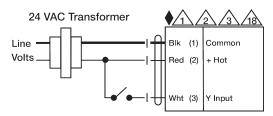
Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.

Actuators with plenum cable do not have numbers; use color codes instead.

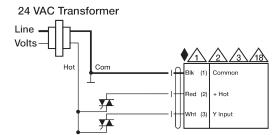
Meets cULus requirements without the need of an electrical ground connection.

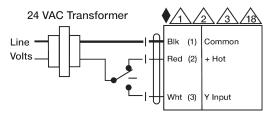
Warning! Live Electrical Components!

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.

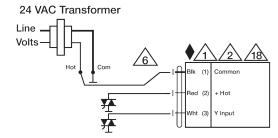


On/Off





Floating Point



Floating Point - Triac Sink