





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



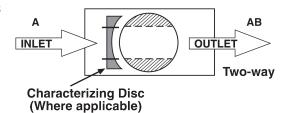
WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

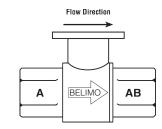
## **Product features**

#### 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.

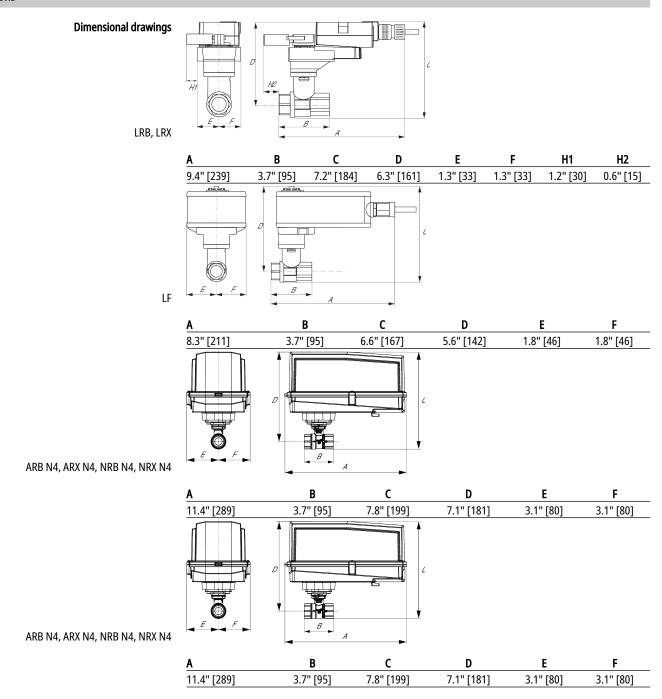
## Flow/Mounting details







# **Dimensions**





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







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	2 VA (class 2 power source)		
	Electrical Connection	18 GA plenum cable with 1/2" conduit connector, degree of protection NEMA 2 / IP54, 3 ft [1 m] 10 ft [3 m] and 16ft [5 m]		
	Overload Protection	electronic thoughout 090° rotation		
Functional data	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		
Safety data	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		

# Safety notes



Weight

Weight

• Cable for ZIP-RS232 US and ZIP-USB-MP US to Belimo gateways.

0.67 lb [0.30 kg]

- Classic GM to GMB(X) retrofit bracket.
- Battery Back Up System for SY(7~10)-110
- 120 to 24 VAC, 40 VA transformer.
- Cable for ZTH US to actuators w/o diagnostics socket.
- 50% voltage divider kit (resistors with wires).
- PC Tool computer programming interface, serial port.

# **Electrical installation**

Technical data sheet LRX24-3

## > INSTALLATION NOTES

<u>1</u> Provide overload protection and disconnect as required.

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

 $\stackrel{\frown}{\Im}$  Actuators may also be powered by 24 VDC.

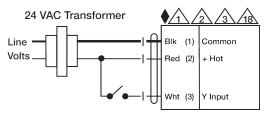
Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.

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

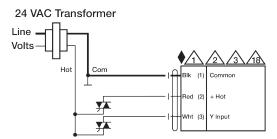
Meets cULus requirements without the need of an electrical ground connection.

## Warning! Live Electrical Components!

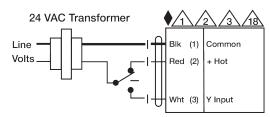
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.



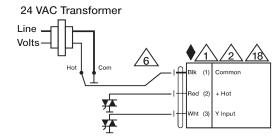
On/Off



Floating Point - Triac Source



Floating Point



Floating Point - Triac Sink