





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



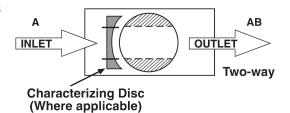
WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

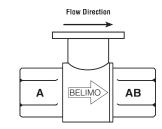
Product features

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.

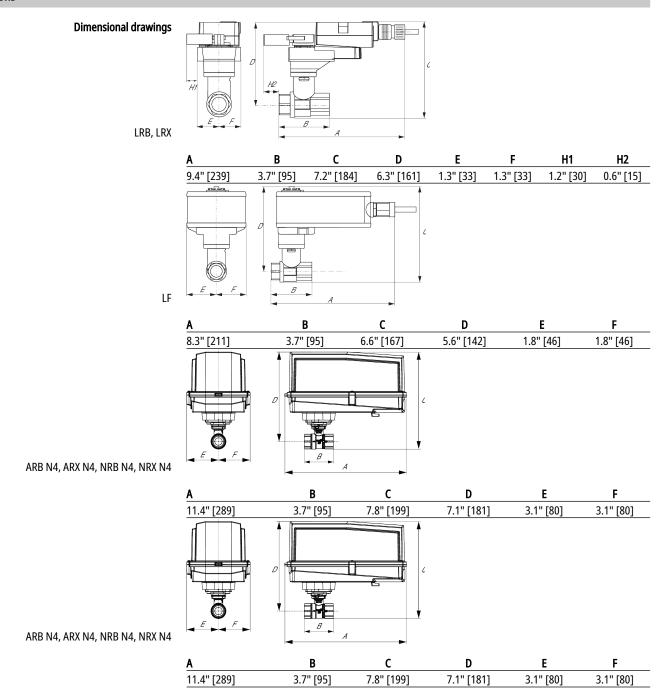
Flow/Mounting details







Dimensions



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

Nominal voltage frequency

Power consumption in operation



50/60 Hz

-22...122°F [-30...50°C]

-40...176°F [-40...80°C]

maintenance-free

1.4 lb [0.60 kg]

max. 95% r.H., non-condensing

1.5 W

				5-year warranty C LISTED 94 15 15 FEMP IND. & CUL) us
Technical data				
	Electrical data	Nominal voltage	AC/DC 24 V	

	Power consumption in rest position	0.2 W
	Transformer sizing	2.5 VA (class 2 power source)
	Auxiliary switch	1 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, adjustable 0100%
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V
	Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector
	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 and 2014/35/ EU; Listed to UL 2043 - suitable for use in air
		plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC
	Quality Standard	ISO 9001
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Safety notes



Weight

- Weather shield PC w/ foam seal 16x8-3/8x4" (LxWxD).
- Battery Back Up System for SY(7~10)-110
- 120 to 24 VAC, 40 VA transformer.

Ambient temperature

Storage temperature

Ambient humidity

Servicing

Weight

- 12VDC 1.2 AH battery (2 required).
- PC Tool computer programming interface, serial port.



Electrical installation

> INSTALLATION NOTES

 $\uparrow \setminus$ Provide overload protection and disconnect as required.

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

3\ 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.

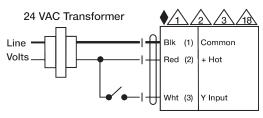
 f_{8} Actuators with plenum cable do not have numbers; use color codes instead.

One built-in auxiliary switch (1x SPDT), for end position indication, interlock control, fan startup, etc.
Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.

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

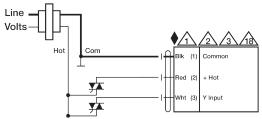
Warning! Live Electrical Components!

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.

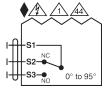


On/Off

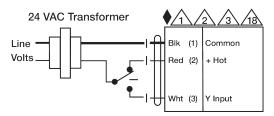




Floating Point - Triac Source

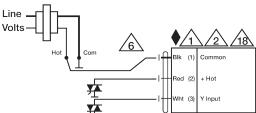


Auxiliary Switches



Floating Point

24 VAC Transformer



Floating Point - Triac Sink