





5-year warranty



Technical data

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Valve Size	0.5" [15]		
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	4.7		
Body pressure rating note	600 psi		
Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv		
Valve body	Nickel-plated brass body		
Stem seal	EPDM (lubricated)		
C	DTEE		

Materials

Valve body	Nickel-plated brass body	
Stem seal	EPDM (lubricated)	
Seat	PTFE	
Pipe connection	NPT female ends	
O-ring	EPDM (lubricated)	
Ball	stainless steel	
Non-Spring	TR LRB(X)	

Safety notes



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

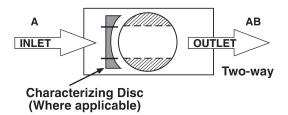
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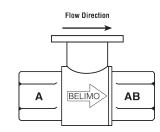
Product features

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.

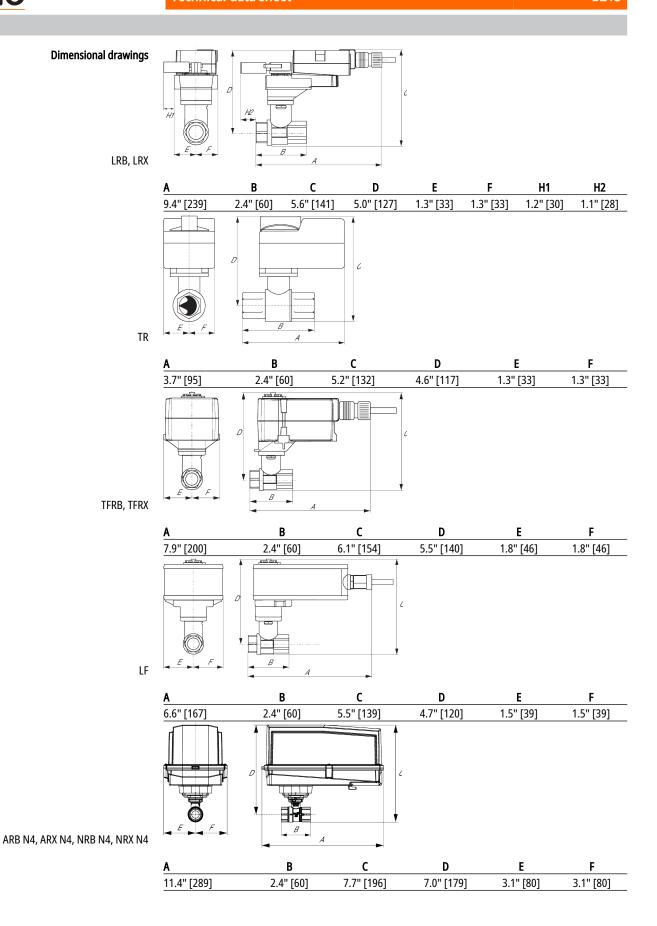
Flow/Mounting details



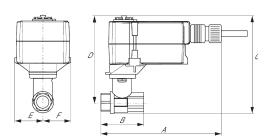




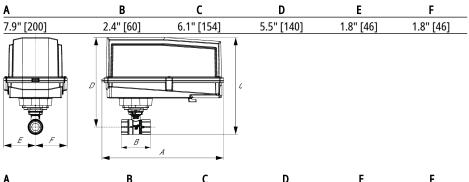








TFRB, TFRX



ARB N4, ARX N4, NRB N4, NRX N4

A	В	С	D	E	F
11.4" [289]	2.4" [60]	7.7" [196]	7.0" [179]	3.1" [80]	3.1" [80]



On/Off, Floating Point, Non-Spring Return, AC 100...240 V







	REG. EQUIP.	

ial voltage	AC 100240 V
nal voltage frequency	50/60 Hz
consumption in operation	2 W
consumption in rest position	0.5 W
ormer sizing	4 VA (class 2 power source)
cal Connection	18 GA appliance cable, 3 ft [1 m], with 1/2" conduit connector
ad Protection	electronic throughout 095° rotation
[mpedance	600 Ω
on of motion motor	selectable with switch 0/1
al override	external push button
of rotation	90°
of rotation note	adjustable with mechanical stop
ng Time (Motor)	90 s
level, motor	35 dB(A)
on indication	Mechanically, pluggable
e of protection IEC/EN	IP54
e of protection NEMA/UL	NEMA 2 UL Enclosure Type 2
y 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
y Standard	ISO 9001
nt temperature	-22122°F [-3050°C]
e temperature	-40176°F [-4080°C]
nt humidity	max. 95% r.H., non-condensing
ng	maintenance-free
t	1.1 lb [0.50 kg]
	consumption in operation consumption in rest position ormer sizing cal Connection and Protection Impedance on of motion motor al override of rotation of rotation note ing Time (Motor) level, motor on indication e of protection IEC/EN e of protection NEMA/UL y Listing y Standard int temperature e temperature int humidity ing

Safety notes



- 3/8"-16 shaft clevis for AHK/AH.
- Battery Back Up System for SY(7~10)-110
- 5/16" shaft clevis for LH.
- Cable to ZIP-RS232 US to diagnostic/programming socket.
- MFT95 resistor kit for 4 to 20 mA control applications.

Electrical installation

Technical data sheet LRB120-3

> INSTALLATION NOTES

(A) Actuators with appliance cables are numbered.

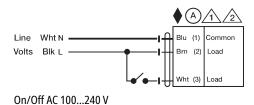
 \sum Provide overload protection and disconnect as required.

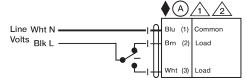
Actuators may be connected in parallel. Power consumption and input impedance must be observed.

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.





Floating Point AC 100...240 V