







#### **Technical data**

Functional data	Valve Size	0.75" [20]
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	0250°F [-18120°C]
	Body Pressure Rating	600 psi
	Body pressure rating note	600 psi
	Close-off pressure Δps	200 psi
	Flow characteristic	A-port equal percentage, B-port modified for constant common port flow
	Servicing	maintenance-free
	Flow Pattern	3-way Mixing/Diverting
	Leakage rate	0% for A – AB, <2.0% for B – AB
	Controllable flow range	75°
	Cv	24
	Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – A Cv
Materials	Valve body	Nickel-plated brass body
	Stem	stainless steel
	Stem seal	EPDM (lubricated)
	Seat	PTFE
	Characterizing disk	TEFZEL®
	Pipe connection	NPT female ends
	O-ring	EPDM (lubricated)
	Ball	stainless steel
Suitable actuators	Non-Spring	LRB(X) NRB(X) N4
	Spring	LF

#### 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 reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.



Туре

B321

# **Technical data sheet**

AB

INLET

B Port Disc (All 3-way models)

OUTLET

F

Ε

3.1" [80]

H1

1.2" [30]

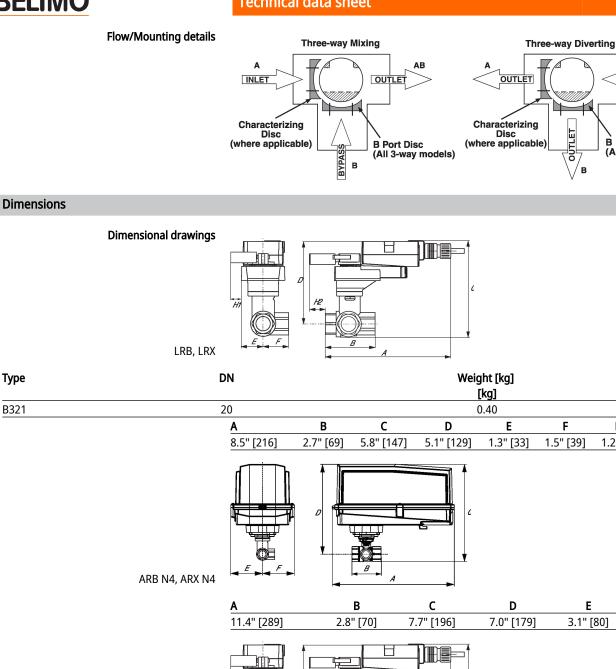
H2

1" [25]

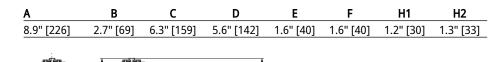
F

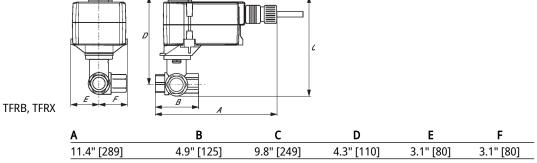
3.1" [80]

в



LRQB, LRQX





H2



**Technical data sheet** 

# LRB24-3-T

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





# **Technical data**

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
	Power consumption for wire sizing	2 VA
	Transformer sizing	2.5 VA (class 2 power source)
	Electrical Connection	Screw terminal (for 26 to 14 GA wire)
	Overload Protection	electronic thoughout 090° rotation
Functional data	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 1
	Enclosure	UL Enclosure Type 1
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA
		E60730-1:02, CE acc. to 2014/30/EU
		Listed to UL 2043 - suitable for use in air plenums per Section 300.22(C) of the NEC and
		Section 602 of the IMC
	Quality Standard	ISO 9001
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Ambient humidity	Max. 95% RH, non-condensing
	Servicing	maintenance-free
Weight	Weight	1.1 lb [0.50 kg]



Accessories		
Electrical accessories	Description	Туре
	Battery backup system, for non-spring return models Battery, 12 V, 1.2 Ah (two required) Auxiliary switch 1 x SPDT add-on Auxiliary switch 2 x SPDT add-on Feedback potentiometer 140 $\Omega$ add-on, grey Feedback potentiometer 1 k $\Omega$ add-on, grey Feedback potentiometer 10 k $\Omega$ add-on, grey Feedback potentiometer 2.8 k $\Omega$ add-on, grey Feedback potentiometer 500 $\Omega$ add-on, grey Feedback potentiometer 5 k $\Omega$ add-on, grey	NSV24 US NSV-BAT S1A S2A P140A GR P1000A GR P10000A GR P2800A GR P500A GR P5000A GR
Electrical installation		
/1 /2 /3 /6	) + Hot Volts	a. Only connect common to k. d of a cable. connection. oduct, it may be necessary ectrician or other individual as perform these tasks.
Floating Point - Triac Source 24 VAC Transformer Line	Floating Point - Triac Sink 24 VAC Transformer Line Volts Hot Com Red (2) + Hot Wht (3) Y Input	Blk (1) Common   Red (2) + Hot   Wht (3) Y input

#### Installation notes

## Servicing

