

Type overview	
Туре	DN
B321	20

Technical data

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Εı	ıncti	ona	l data

Valve size [mm]	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	
Close-off pressure Δps	200 psi	
Flow	A-port: as stated in chart B-port: 70% of A – AB Cv	
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	
Valve body	Nickel-plated brass body	

Materials

Valve body	Nickel-plated brass body	
Stem	stainless steel	
Stem seal	EPDM (lubricated)	
Seat	PTFE	
Characterized disc	TEFZEL®	
Pipe connection	NPT	
O-ring	EPDM (lubricated)	
Ball	stainless steel	
Non-Spring	LRB(X)	

Suitable actuators

lon-Spring	LRB(X)
	NRB(X) N4
pring	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

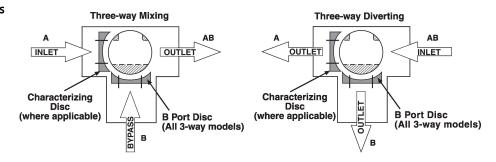


Product features

Application

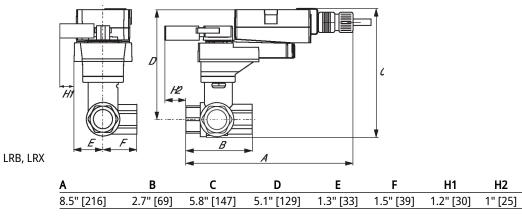
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.

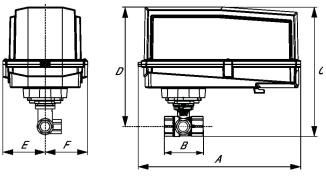
Flow/Mounting details



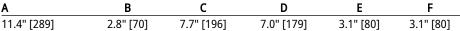
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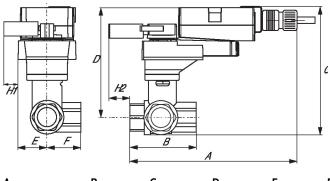
Туре	DN	Weight
B321	20	0.88 lb [0.40 kg]





ARB N4, ARX N4

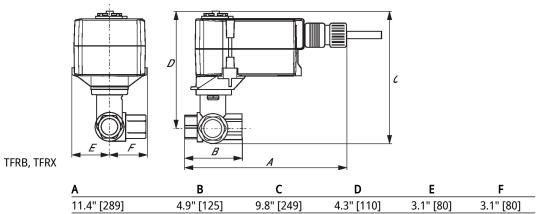




LRQB, LRQX

Α	В	C	D	E	F	H1	H2
8.9" [226]	2.7" [69]	6.3" [159]	5.6" [142]	1.6" [40]	1.6" [40]	1.2" [30]	1.3" [33]







Technical data sheet LF120 US



Technical data		
Electrical data	Nominal voltage	AC 120 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 96132 V
	Power consumption in operation	5.5 W
	Power consumption in rest position	3.5 W
	Transformer sizing	7.5 VA
	Electrical Connection	18 GA appliance cable, 1 m, with 1/2" conduit connector
	Overload Protection	electronic throughout 095° rotation
Functional data	Direction of motion motor	selectable with switch 0/1
	Direction of motion fail-safe	reversible with cw/ccw mounting
	Angle of rotation	90°
	Running Time (Motor)	75 s / 90°
	Running time fail-safe	<25 s @ -4122°F [-2050°C], <60 s @ -22°F [-30°C]
	Noise level, motor	50 dB(A)
	Noise level, fail-safe	62 dB(A)
	Position indication	Mechanical
Safety data	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	UL Enclosure Type 2
	Agency Listing	cULus acc. To UL 873 and CAN/CSA C22.2 No. 24-93
	Quality Standard	ISO 9001
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	3.6 lb [1.6 kg]
Materials	Housing material	galvanized steel

†Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3 Footnotes

Electrical installation



INSTALLATION NOTES

Actuators with appliance cables are numbered.
Provide overload protection and disconnect as required.

Actuators may be connected in parallel if not mechanically linked. 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.

Wiring diagrams On/Off



