





Type overview

Туре	DN
B309	15

Technical data

Functional data	Valve size [mm]	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 ∆ps	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	0.8				
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				
Suitable actuators	Non-Spring	TR LRB(X) NRB(X) N4				
	Spring	TFB(X) LF				

Safety notes

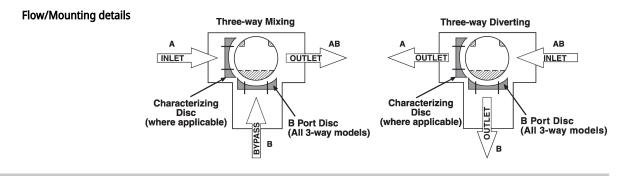


• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

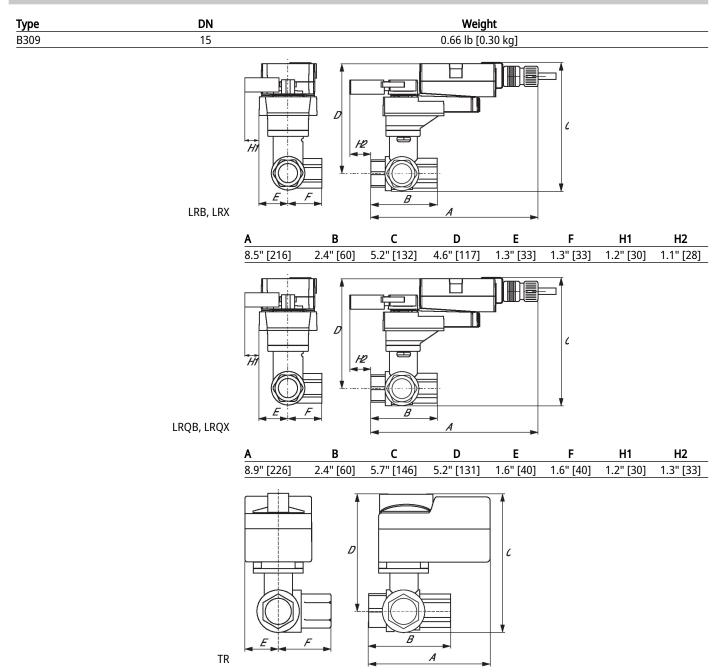


Application

n 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.



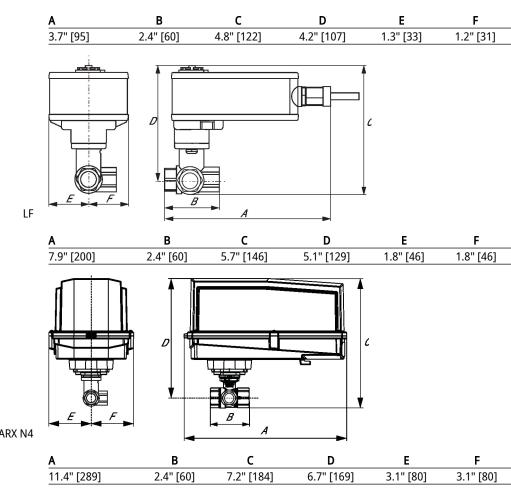
Dimensions





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ARB N4, ARX N4



Technical data sheet

LF24-S US



Technical data

Electrical data	Nominal voltage	AC/DC 24 V			
	Nominal voltage frequency	50/60 Hz			
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V			
	Power consumption in operation	5 W			
	Power consumption in rest position	2.5 W			
	Transformer sizing	7 VA			
	Auxiliary switch	1 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, adjustable 095°			
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V			
	Electrical Connection	(2) 18 GA appliance cables, 1 m, with 1/2" conduit connectors			
	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	Power source UL	Class 2 Supply			
	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	3.4 lb [1.6 kg]			
Materials	Housing material	galvanized steel			

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



\swarrow INSTALLATION NOTES

(A) Actuators with appliance cables are numbered.

 Λ Provide overload protection and disconnect as required.

Actuators may also be powered by DC 24 V.

Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

A 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.

A 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.

