

Brass Stem

Chrome Plated Brass Ball and Nickel Plated

Technical data sheet

B309B







Type overview

Туре	DN
B309B	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 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 linear for constant 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	nickel-plated brass			
	Stem seal	EPDM (lubricated)			
	Seat	PTFE			
	Characterized disc	TEFZEL®			
	Pipe connection	NPT			
	O-ring	EPDM (lubricated)			
	Ball	chrome plated brass			
Suitable actuators	Non-Spring	TR LRB(X)			
	Spring	TFB(X) LF			

Safety notes

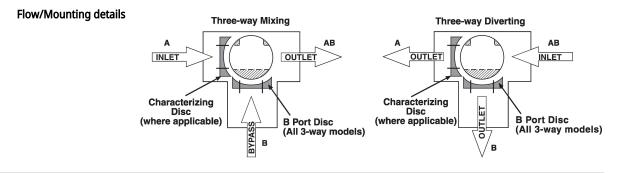


• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

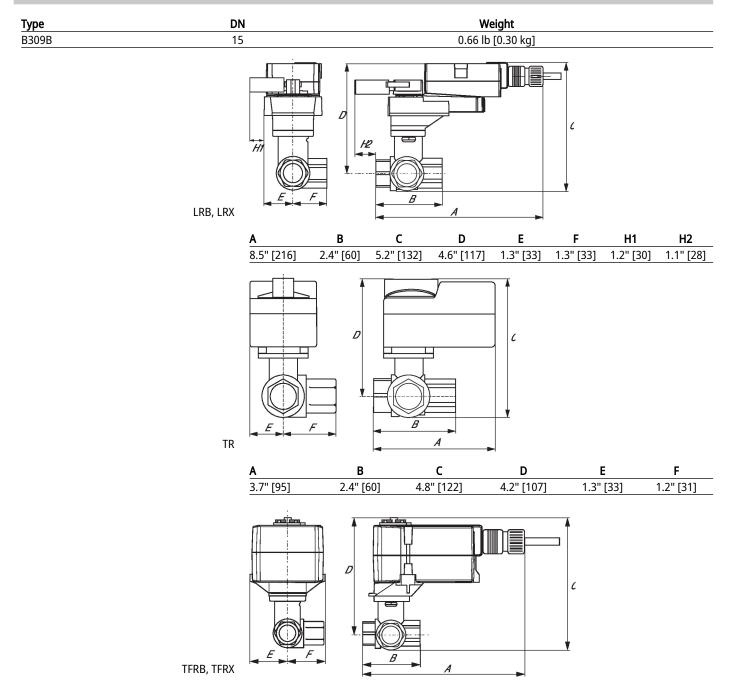


Application

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





Technical d	lata sheet				B309E
A	В	с	D	E	F
6.6" [167]	2.4" [60]	4.9" [124]	4.3" [110]	1.5" [39]	1.2" [31]
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Α	В	С	D	E	F
7.9" [200]	2.4" [60]	5.7" [146]	5.1" [129]	1.8" [46]	1.9" [48]



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

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



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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.

Marning! 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

