

Technical data sheet

B308B

Chrome Plated Brass Ball and Nickel Plated Brass Stem







Technical data

Functional data	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
	Body pressure rating note	600 psi
	Close-off pressure ∆ps	200 psi
	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	0.46
	Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv
Materials	Valve body	Nickel-plated brass body
	Stem	nickel-plated brass
	Stem seal	EPDM (lubricated)
	Seat	PTFE
	Characterizing disk	TEFZEL®
	Pipe connection	NPT female ends
	O-ring	EPDM (lubricated)
	Ball	chrome plated brass
Suitable actuators	Non-Spring	TR LRB(X)
	Spring	TFRB(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

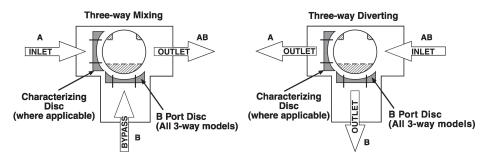
Product features

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.

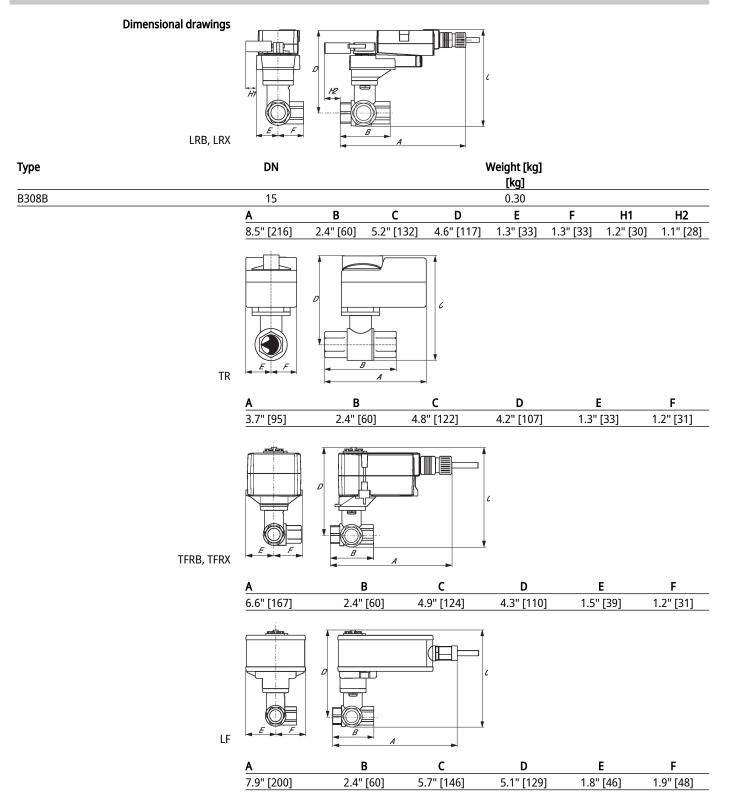


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Flow/Mounting details



Dimensions





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

LRB24-3-S

5-year warranty

CE



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)
	Auxiliary switch	1 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, adjustable 0100%
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V
	Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector
	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 2
	Enclosure	UL Enclosure Type 2
	Agency 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 us in air plenums per Section 300.22(c) of the NEC and Section 602.2 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	1.4 lb [0.60 kg]

Product features

Mode of operation

Local Control SY2~12, 24vac Mod



Accessories						
Electrical accessories	Description		Туре			
	Battery backup system, for non- Battery, 12 V, 1.2 Ah (two requir Auxiliary switch 1 x SPDT add-or Auxiliary switch 2 x SPDT add-or Feedback potentiometer 140 Ω a Feedback potentiometer 1 k Ω ac Feedback potentiometer 10 k Ω a Feedback potentiometer 2.8 k Ω Feedback potentiometer 500 Ω a Feedback potentiometer 5 k Ω ac	ed) add-on, grey add-on, grey add-on, grey add-on, grey add-on, grey	NSV24 US NSV-BAT S1A S2A P140A GR P1000A GR P10000A GR P2800A GR P500A GR P5000A GR			
Electrical installation						
INSTALLATION NOTES Provide overload protection and disconnect as required. Actuators may be connected in parallel. Power consumption and input impedance must be observed. Actuators may also be powered by DC 24 V. Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback. Actuators with plenum cable do not have numbers; use color codes instead. One built-in auxiliary switch (1x SPDT), for end position indication, interlock control, fan startup etc. Maxied or combined operation of line 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. Maning! 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 24 VAC Transformer	Floating	Point				
	1 2 3 18 - (1) Common Line (2) + Hot Volts. t (3) Y Input		/ht (3) Y Input			
Floating Point - Triac Source 24 VAC Transformer		Point - Triac Sink AC Transformer				
Line Volts	Line - Volts- Volts- Blk (1) Common Red (2) + Hot Wht (3) Y Input		I 2 18 Blk (1) Common Red (2) + Hot Wht (3) Y Input			



Dimensions