

Chrome Plated Brass Ball and Nickel Plated Brass Stem







Type overview	
Туре	DN
B318B	20

Technical data

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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 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	7.4	
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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	
Non-Spring	TR	
	LRB(X)	

TFB(X)

LF

Safety notes



Spring

Suitable actuators

 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

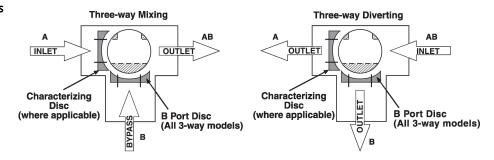


Product features

Application

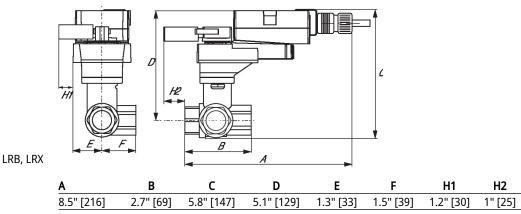
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.

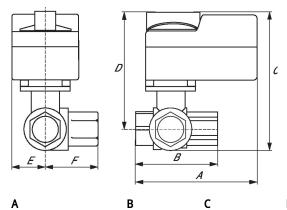
Flow/Mounting details

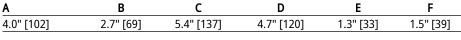


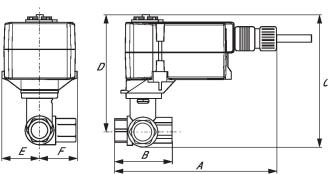
Dimensions

Туре	DN	Weight
B318B	20	771.75 lb [0.40 kg]









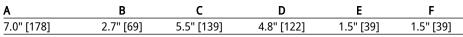
TFRB, TFRX

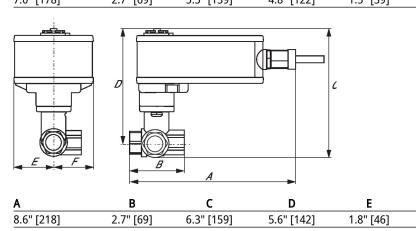
TR



LF

Technical data sheet B318B





1.9" [48]



Modulating, Spring Return, AC 24 V for DC 2...10 V or 4...20 mA Control Signal

Technical data sheet LF24-SR-S US



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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	2.5 W
		Power consumption in rest position	1 W
		Transformer sizing	5 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	Operating range Y	210 V
		Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
		Input Impedance	100 k Ω for 210 V (0.1 mA), 500 Ω for 420 mA
		Position feedback U	210 V
		Position feedback U note	Max. 0.7 mA
		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)	150 s / 90°
		Running time motor note	constant, independent of load
		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]
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Storage temperature

Servicing

-40...176°F [-40...80°C]

maintenance-free



Technical data sheet

LF24-SR-S US

Weight Weight 3.4 lb [1.5 kg]

Materials Housing material galvanized steel

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

Electrical installation

X INSTALLATION NOTES

Actuators with appliance cables are numbered.

Yerovide overload protection and disconnect as required.

Actuators may also be powered by DC 24 V.

6 Only connect common to negative (-) leg of control circuits.

 Λ A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

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

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.

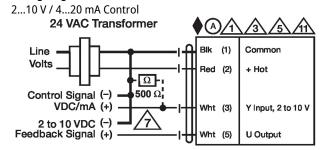
Mixed or combined operation of line voltage/safety extra low voltage is not allowed.

Meets cULus requirements without the need of an electrical ground connection.

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



Auxiliary Switches

