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B318, **3-Way**, **Characterized Control Valve** Stainless Steel Ball and Stem

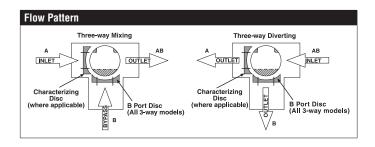






WARRANT

chilled, hot water, up to 60% glycol
A-port equal percentage, B-port modified
for constant common port flow
75°
0.75" [20]
NPT female ends
forged brass, nickel plated
stainless steel
stainless steel
EPDM (lubricated)
Teflon® PTFE
EPDM (lubricated)
TEFZEL®
600
0°F to 250°F [-18°C to 120°C]
50 psi (345 kPa)
200 psi
7.4
0.9 lb [0.4 kg]
0% for A to AB, <2.0% for B to AB
maintenance free

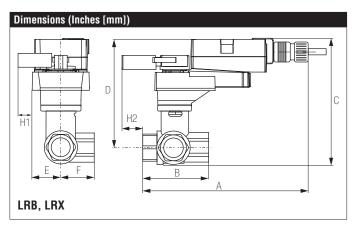


Application

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 re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.

Suitable Actuators

	Non-Spring	Spring
B318	TR, LR, NRB(X)	TFB(X), LF

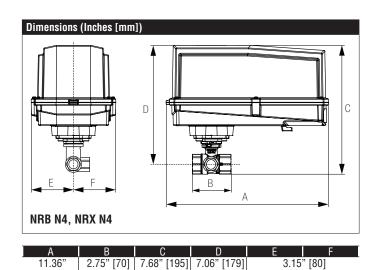


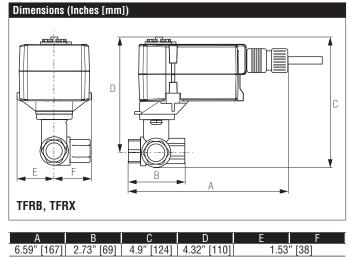
А	В	C	D	E	F	H1	H2
8.5"	2.73"	5.79"	5.09"	1.3"	1.47"	1.18"	1" [25]
[216]	[69]	[147]	[129]	[33]	[37]	[30]	

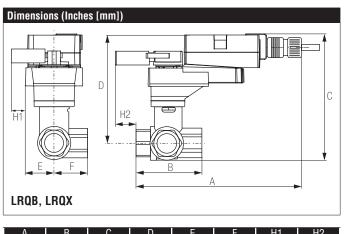
[289]

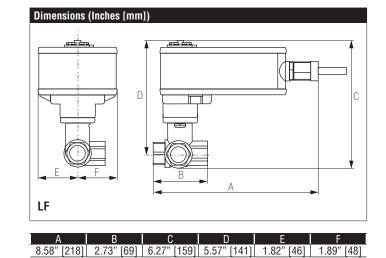
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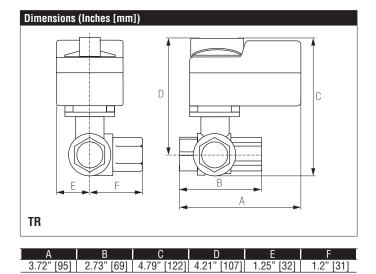








Α	В	С	D	E	F	H1	H2
8.9"	2.73"	6.34"	5.64"	1.58	" [40]	1.18"	1.3" [33]
[226]	[69]	[161]	[143]			[30]	



C	D
7.85" [199]	7.15" [181]

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TR24-SR/500 US Modulating, Non-Spring Return, 24 V, for 2 to 10 VDC or 4 to 20 mA $\,$





Technical Data	
Power Supply	24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%
Power Consumption Running	0.5 W
Transformer Sizing	1 VA (class 2 power source)
Electrical Connection	15ft [5m], 18 GA plenum rated cable
Overload Protection	electronic throughout full rotation
Operating Range Y	2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 Ω , 1/4 W resistor)
Input Impedance	100 k Ω for 2 to 10 VDC (0.1 mA), 500 Ω for 4 to 20 mA
Angle of Rotation	90°
Direction of Rotation (Motor)	reversible with protected switch
Position Indication	integrated into handle
Manual Override	push down handle
Running Time (Motor)	90 sec
Ambient Temperature Range	-22°F to 122°F [-30°C to 50°C]
Storage Temperature Range	-40°F to 176°F [-40°C to 80°C]
Housing	NEMA type 1 / IP40
Agency Listings†	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC
Noise Level (Motor)	<35 dB (A)
Servicing	maintenance free
Quality Standard	ISO 9001





Modulating, Non-Spring Return, 24 V, for 2 to 10 VDC or 4 to 20 mA

Wiring Diagrams



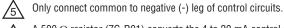
X INSTALLATION NOTES



Provide overload protection and disconnect as required.



Actuators may also be powered by 24 VDC.



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



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.

