# Date created, 10/27/2017 - Subject to change. © Belimo Aircontrols (USA), Inc.

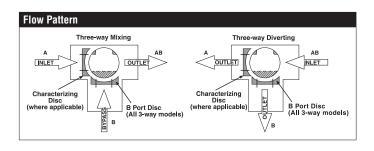
# **B316**, **3-Way**, **Characterized Control Valve** Stainless Steel Ball and Stem







Technical Data				
Service	chilled, hot water, up to 60% glycol			
Flow Characteristic	A-port equal percentage, B-port modified			
	for constant common port flow			
Controllable Flow Range	75°			
Size [mm]	0.5" [15]			
End Fitting	NPT female ends			
Body	forged brass, nickel plated			
Ball	stainless steel			
Stem	stainless steel			
Stem Packing	EPDM (lubricated)			
Seat	Teflon® PTFE			
Seat O-ring	EPDM (lubricated)			
Characterized Disc	TEFZEL®			
Body Pressure Rating [psi]	600			
Media Temperature Range	0°F to 250°F [-18°C to 120°C]			
(Water)				
Max Differential Pressure (Water)	50 psi (345 kPa)			
Close-Off Pressure	200 psi			
Cv	16			
Weight	0.7 lb [0.3 kg]			
Leakage	0% for A to AB, <2.0% for B to AB			
Servicing	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** 

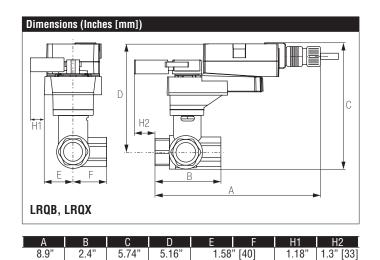
	Non-Spring	Spring	
B316	TR, LR, NRB(X)	TFB(X), LF	



А	В	С	D	Е	F	H1	H2
8.5"	2.4"	5.19"	5" [127]	1.3"	[33]	1.18"	1.1" [28]
[216]	[61]	[132]				[30]	

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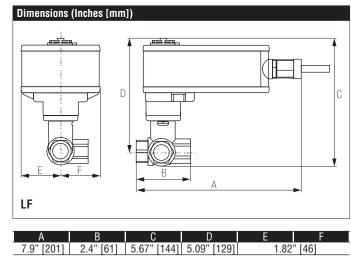
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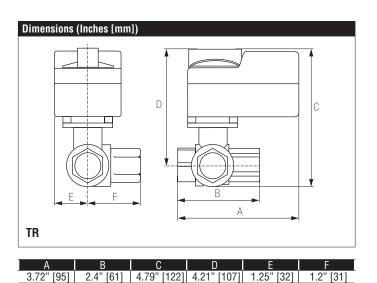
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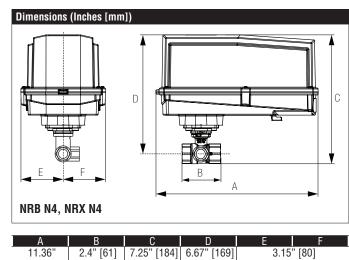
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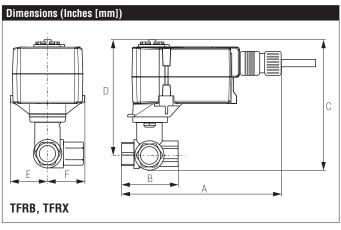
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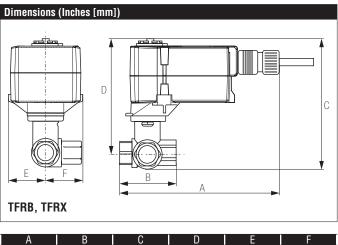
[61]











6.59" [167] | 2.4" [61] | 4.9" [124] | 4.32" [110]

1.53" [38]

[289]

# LRB24-3 On/Off, Floating Point, Non-Spring Return, 24 V





24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%
1.5 W
0.2 W
2.5 VA (class 2 power source)
3ft [1m], 18 GA plenum cable with 1/2" conduit connector
electronic thoughout 0° to 90° rotation
600 Ω
90°
reversible with built-in switch
integrated into handle
external push button
90 sec
-22°F to 122°F [-30°C to 50°C]
-40°F to 176°F [-40°C to 80°C]
NEMA 2, IP54, UL Enclosure Type 2
cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC
<35 dB (A)
maintenance free
ISO 9001



### Wiring Diagrams



### X 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 24 VDC.



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.



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.

