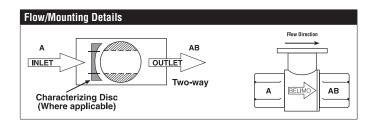
# **B207 Technical Data Sheet** Stainless Steel Ball and Stem







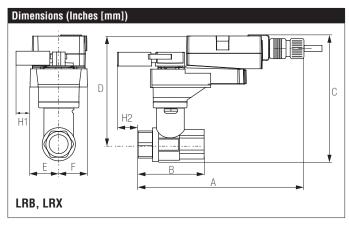
Technical Data	
Fluid	chilled, hot water, up to 60% glycol
Flow characteristic	equal percentage
Controllable flow range	75°
Valve Size [mm]	0.5" [15]
Pipe connection	NPT female ends
Housing	Nickel-plated brass body
Ball	stainless steel
Stem	stainless steel
Stem seal	EPDM (lubricated)
Seat	PTFE
O-ring	EPDM (lubricated)
Characterised disc	TEFZEL®
Body Pressure Rating	600 psi
Close-off pressure $\Delta ps$	200 psi
Cv	0.3
Weight	0.44 lb [0.20 kg]
Fluid Temp Range (water)	0250°F [-18120°C]
Leakage rate	0% for A – AB
Maintenance	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 flow.

Suitable Actuators					
	Non-Spring	Spring			
B207	TR, LRB(X), NR	TFRB(X), LF			



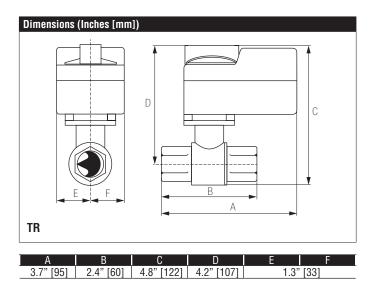
A	В	С	D	E	F	H1	H2
9.4"	2.4"	5.2"	4.6"	1.3"	[33]	1.2"	1.1" [28]
[239]	[60]	[132]	[117]			[30]	

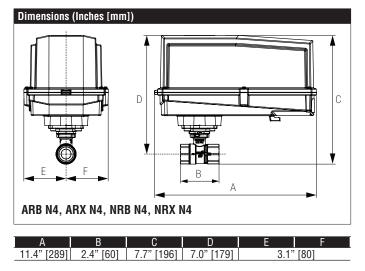
#### Safety Notes

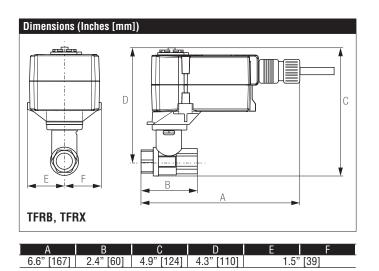
WARNING: For Belimo products sold in California: these products do or may contain chemicals which are known to the State of California to cause cancer and or birth defects or other reproductive harms. For more information see www.p65warnings.ca.gov.

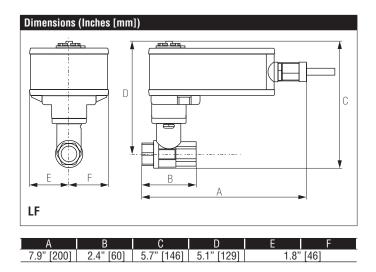


# B207 Technical Data Sheet Stainless Steel Ball and Stem









# **TFRX24 Technical Data Sheet**

On/Off, Spring Return, AC/DC 24 V





Technical Data					
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%				
Power consumption in operation	2 W				
Power consumption in rest	1.3 W				
position					
Transformer sizing	5 VA (class 2 power source)				
Electrical Connection	18 GA appliance or plenum cables, 3 ft [1				
	m], 10 ft [3 m] or 16ft [5 m], with 1/2"				
Overload Protection	conduit connector				
	electronic throughout 095° rotation				
Position Feedback	No Feedback				
Angle of rotation	Max. 95°, adjustable with mechanical stop				
Torque motor	22 in-lb [2.5 Nm]				
Direction of rotation motor	reversible with CW/CCW mounting				
Direction of motion fail-safe	reversible with cw/ccw mounting				
Position indication	Mechanical				
Running Time (Motor)	<75 s				
Running time fail-safe	<75 s				
Ambient humidity	max. 95% r.H., non-condensing				
Ambient temperature	-22122°F [-3050°C]				
Storage temperature	-40176°F [-4080°C]				
Degree of Protection	IP42, NEMA 2, UL Enclosure Type 2				
Housing material	UL94-5VA				
Noise level, motor	50 dB(A)				
Noise level, fail-safe	50 dB(A)				
Maintenance	maintenance-free				
Quality Standard	ISO 9001				
Weight	1.8 lb [0.80 kg]				
+Rated Impulse Voltage 800V Type of action	1 AA Control Bollution Degree 2				

#### Safety Notes

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



# **TFRX24 Technical Data Sheet**

On/Off, Spring Return, AC/DC 24 V

### Wiring Diagrams

# 🔀 INSTALLATION NOTES

A Actuators with appliance cables are numbered.

Provide overload protection and disconnect as required.

Actuators may be connected in parallel. Power consumption and input impedance must be observed.



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Actuators may also be powered by 24 VDC.

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.

