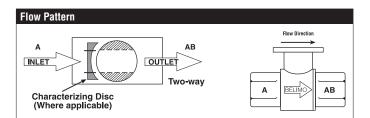
B220, 2-Way, Characterized Control Valve Stainless Steel Ball and Stem





WARRANTY

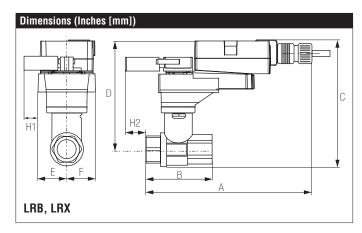
shilled betweeter up to COV sheet
chilled, hot water, up to 60% glycol
equal percentage
75°
0.75" [20]
NPT female ends
forged brass, nickel plated
stainless steel
stainless steel
EPDM (lubricated)
Teflon® PTFE
EPDM (lubricated)
No Disc (full flow)
600
0°F to 250°F [-18°C to 120°C]
50 psi (345 kPa)
200 psi
14
0.7 lb [0.3 kg]
0% for A 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 flow.

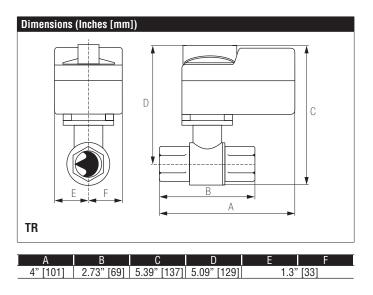
Suitable Actuators						
	Non-Spring	Spring				
B220	TR, LR, NR	TFR, LF				

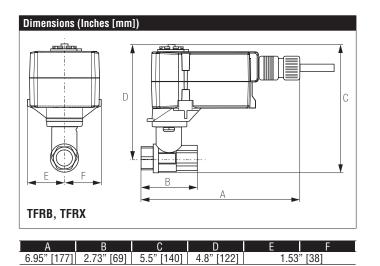


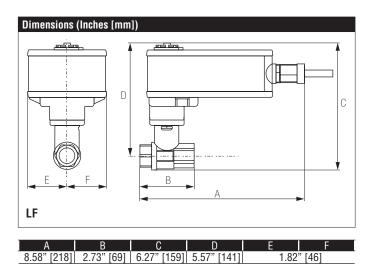
A	В	С	D	E	F	H1	H2
9.4"	2.73"	5.79"	5.09"	1.3"	[33]	1.18"	1" [25]
[239]	[69]	[147]	[129]			[30]	

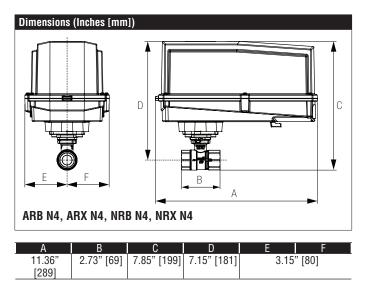


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Technical Data				
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%			
Power Consumption Running	2 W			
Power Consumption Holding	1.3 W			
Transformer Sizing	5 VA (class 2 power source)			
Electrical Connection	3ft [1m], 18 GA appliance cable with 1/2" conduit connector			
Overload Protection	electronic throughout 0° to 95° rotation			
Operating Range Y	on/off			
Feedback Output U	No Feedback			
Angle of Rotation	Max. 95°, 90°			
Direction of Rotation (Motor)	reversible with CW/CCW mounting			
Direction of Rotation (Fail-Safe)	reversible with CW/CCW mounting			
Position Indication	visual indicator, 0° to 95° (0° is full spring return position)			
Running Time (Motor)	<75 sec			
Running Time (Fail-Safe)	<75 sec			
Ambient Humidity	max. 95% RH non-condensing			
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 2, IP42, UL Enclosure Type 2			
Housing Material	UL94-5VA			
Agency Listings†	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC			
Noise Level (Motor)	<50 dB (A)			
Noise Level (Fail-Safe)	<63 dB (A)			
Servicing	maintenance free			
Quality Standard	ISO 9001			
Weight	1.8 lb [0.8 kg]			

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



Wiring Diagrams

🔀 INSTALLATION NOTES

A ctuators 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.

3

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Actuators may also be powered by 24 VDC.

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.

