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

B210, **2-Way**, **Characterized Control Valve** Stainless Steel Ball and Stem









Technical Data			
Service	chilled, hot water, up to 60% glycol		
Flow Characteristic	equal percentage		
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	1.2		
Weight	0.4 lb [0.2 kg]		
Leakage	0% for A 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 flow.

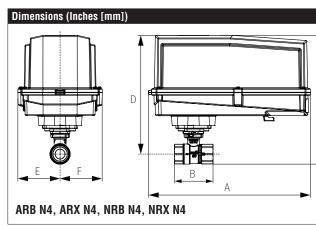
Suitable Actuators

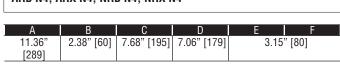
	Non-Spring	Spring
B210	TR, LR, NR	TFR, LF

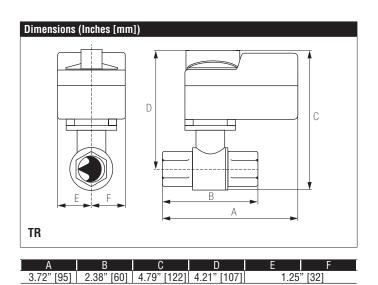


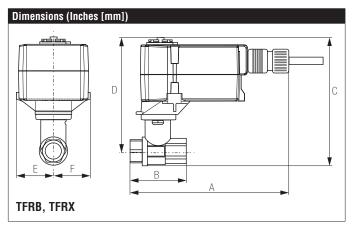
Α	В	С	D	E	F	H1	H2
9.4"	2.38"	5.19"	4.61"	1.3"	[33]	1.18"	1.1" [28]
[239]	[60]	[132]	[117]		[]	[30]	

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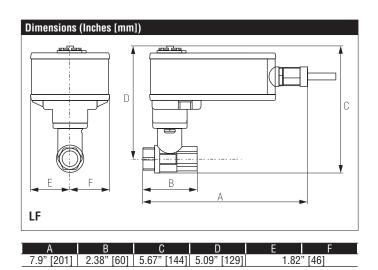








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6.59" [167]	2.38" [60]	4.9" [124]	4.32" [110]	1.53	" [38]
	[]	[]	[]		11



С

LRX24-3 On/Off, Floating Point, Non-Spring Return, 24 V





Technical Data			
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%		
Power Consumption Running	1.5 W		
Power Consumption Holding	0.2 W		
Transformer Sizing	2 VA (class 2 power source)		
Electrical Connection	18 GA plenum rated cable with 1/2" conduit connector protected NEMA 2 (IP54) 3ft [1m] 10ft [3m] and 16ft [5m]		
Overload Protection	electronic thoughout 0° to 90° rotation		
Input Impedance	600 Ω		
Angle of Rotation	90°		
Direction of Rotation (Motor)	reversible with built-in switch		
Position Indication	integrated into handle		
Manual Override	external push button		
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 2, IP42, UL Enclosure Type 2		
Agency Listings†	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC		
Noise Level (Motor)	<35 dB (A)		
Servicing	maintenance free		
Quality Standard	ISO 9001		

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



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.

