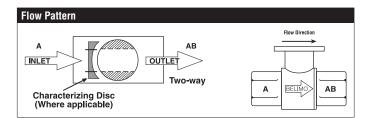
B207, 2-Way, Characterized Control Valve Stainless Steel Ball and Stem





E
WARRANTY

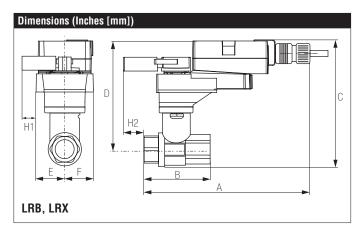
Technical Data	
Service	chilled, hot water, up to 60% glycol
Flow Characteristic	equal percentage
Controllable Flow Range	75°
Size [mm]	0.5" [15]
End Fitting	NPT female ends
Body	forged brass, nickel plated
Ball	stainless steel
Stem	stainless steel
Stem Packing	EPDM (lubricated)
Seat	Teflon® PTFE
Seat 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	0.3
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.

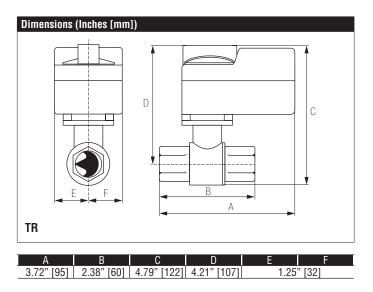
Suitable Actuators			
	Non-Spring	Spring	
B207	TR, LR, NR	TFR, LF	

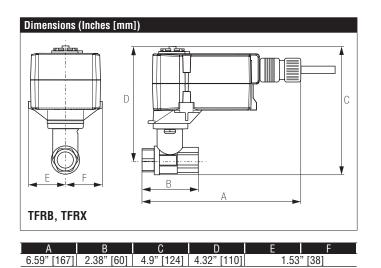


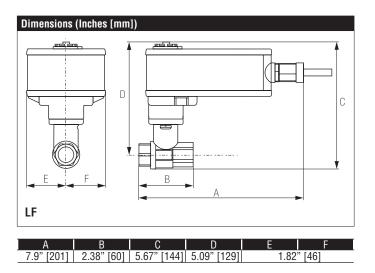
-	А	В	С	D	E	F	H1	H2
-	9.4"	2.38"	5.19"	4.61"	1.3"	[33]	1.18"	1.1" [28]
	[239]	[60]	[132]	[117]			[30]	

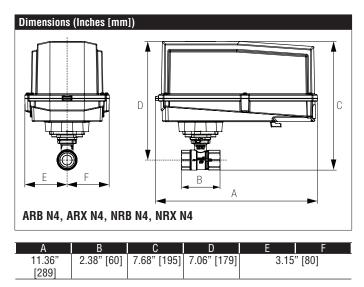


B207, 2-Way, Characterized Control Valve Stainless Steel Ball and Stem









LF24-MFT US, Valve Actuator Modulating, Spring Return, Multi-Function Technology®





~ ~	LISTED	
CE	94 D5 TEMP. IND. & CULUS REG. EQUIP	

Technical Data	
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%
Power Consumption Running	2.5 W
Power Consumption Holding	1 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	2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 $\Omega,$ 1/4 W resistor), variable (VDC, floating point, on/off)
Input Impedance	100 k Ω for 2 to 10 VDC (0.1 mA), 500 Ω for 4 to 20 mA, 1500 Ω for PWM, floating point and 0n/Off
Feedback Output U	2 to 10 VDC, 0.5 mA max, VDC variable
Angle of Rotation	90°
Direction of Rotation (Motor)	reversible with built-in switch
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)	150 sec
Running Time (Fail-Safe)	<pre><25 sec @ -4°F to 122°F [-20°C to 50°C], <60 sec @ -22°F [-30°C]</pre>
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, IP54
Agency Listings†	CULus acc. To UL 873 and CAN/CSA C22.2 No. 24-93
Noise Level (Motor)	<50 dB (A)
Noise Level (Fail-Safe)	<62 dB (A)
Servicing	maintenance free
Quality Standard	ISO 9001

†Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3 *Variable when configured with MFT options.



to 10 VDC.

40155).

Α

Blk (1)

Red (2)

Wht (3)

Wht (5)

А

Blk (1)

Modulating, Spring Return, Multi-Function Technology® Wiring Diagrams 24 VAC Transformer 🔀 INSTALLATION NOTES Actuators with appliance cables are numbered. Line Volts Provide overload protection and disconnect as required. Actuators may be connected in parallel. Power consumption and input impedance must be observed. Position Apply only AC line voltage or only UL-Class 2 voltage to the terminals of Feedback VDC (+) auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed. On/Off Actuators may also be powered by 24 VDC. 24 VAC Transformer (AC Only) Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc. Line Only connect common to negative (-) leg of control circuits. Volts A 500 Ω resistor (ZG-R01) converts the 4 to 20 mA control signal to 2 Control signal may be pulsed from either the Hot (Source) or Common Position (-) (Sink) 24 VAC line. Feedback VDC (+) For triac sink the Common connection from the actuator must be **Floating Point** connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller; the actuator internal 24 VAC Transformer common reference is not compatible. Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed. Line Volts IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number ¦Ωi Meets cULus requirements without the need of an electrical ground Control Signal (-) VDC / mA (+) connection. Actuators are provided with color coded wires. Wire numbers are provided for reference. WARNING! LIVE ELECTRICAL COMPONENTS! During installation, testing, servicing and troubleshooting of this **VDC/mA Control** 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. Line Volts

11

Common

+ Hot

Y Input

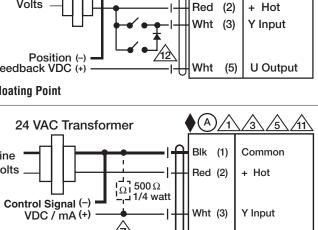
U Output

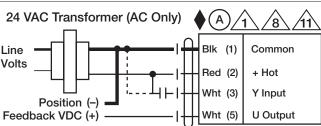
10

Common

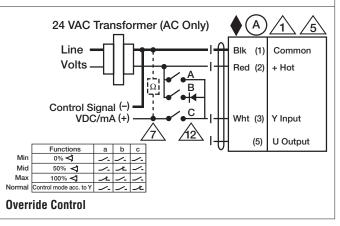
U Output

Wht (5)









Date created, 11/29/2017 - Subject to change. © Belimo Aircontrols (USA), Inc

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