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

B229, **2-Way**, **Characterized Control Valve** Stainless Steel Ball and Stem







VEAR
WARRANTY

Technical Data			
Service	chilled, hot water, up to 60% glycol		
Flow Characteristic	equal percentage		
Controllable Flow Range	75°		
Size [mm]	1.25" [32]		
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	10		
Weight	1.3 lb [0.6 kg]		
Leakage	0% for A to AB		
Servicing	maintenance free		



Application

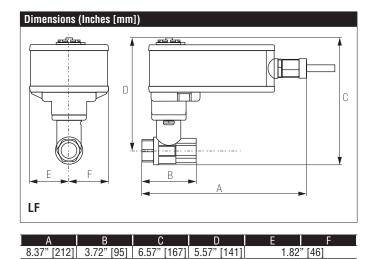
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

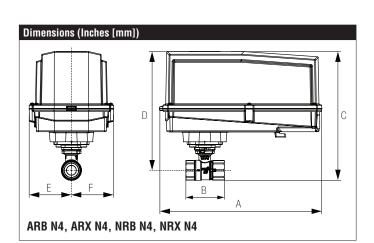
Suitable Actuators

	Non-Spring	Spring	
B229	LR, NR	LF	



Α	В	C	D	E	F	H1	H2
9.4"	3.72"	7.25"	6.31"	1.3"	[33]	1.18"	0.5" [15]
[239]	[95]	[184]	[160]			[30]	





Α	В	С	D	E	F
11.36"	3.72" [95]	7.85" [199]	7.15" [181]	3.15	" [80]
[289]					

LRCB24-3 On/Off, Floating Point, Non-Spring Return, 24 V

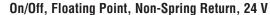




24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%		
1.5 W		
0.2 W		
2.5 VA (class 2 power source)		
3ft [1m], 18 GA plenum cable with 1/2" conduit connector		
electronic thoughout 0° to 90° rotation		
600 Ω		
90°, adjustable with mechanical stop		
reversible with built-in switch		
integrated into handle		
external push button		
40 sec		
5 to 95% RH non condensing (EN 60730-1)		
-22°F to 122°F [-30°C to 50°C]		
-40°F to 176°F [-40°C to 80°C]		
NEMA 2, IP42, UL Enclosure Type 2		
UL94-5VA		
cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC		
<45 dB (A)		
maintenance free		
ISO 9001		
1.1 lb [0.5 kg]		

 $\ensuremath{\uparrow}\xspace$ Rated Impulse Voltage 800V, Type action 1.B , Control Pollution Degree 3.







Wiring Diagrams



X INSTALLATION NOTES



Actuators with appliance cables are numbered.



Provide overload protection and disconnect as required.



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 may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.



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.

