# **B222 Technical Data Sheet**

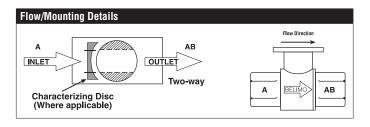
## Stainless Steel Ball and Stem







Technical Data	
Fluid	chilled, hot water, up to 60% glycol
Flow characteristic	equal percentage
Controllable flow range	75°
Valve Size [mm]	1" [25]
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 ∆ps	200 psi
Cv	7.4
Weight	1.1 lb [0.50 kg]
Fluid Temp Range (water)	0250°F [-18120°C]
Leakage rate	0% for A – AB
Maintenance	maintenance-free

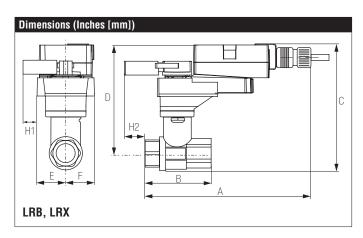


## **Application**

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** 

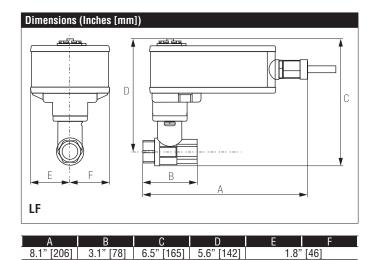
	Non-Spring	Spring
B222	LRB(X), NR	LF

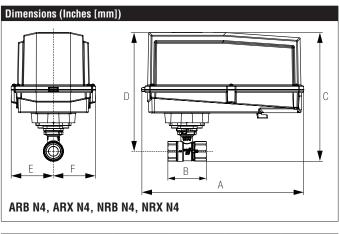


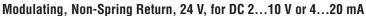
Α	В	C	D	E	F	H1	H2
9.4"	3.1"	7.2"	6.3"	1.3"	[33]	1.2"	0.9" [23]
[239]	[78]	[184]	[161]			[30]	

## 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.

















24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%				
1.5 W				
0.4 W				
3 VA (class 2 power source)				
18 GA plenum cable, 3 ft [1 m], with 1/2"				
conduit connector				
electronic thoughout 090° rotation				
DC 210 V, 420 mA w/ ZG-R01 (500 $\Omega$ , 1/4 W resistor)				
100 k $\Omega$ for DC 210 V (0.1 mA), 500 $\Omega$ for 420 mA				
DC 210 V				
90°				
reversible with built-in switch				
Mechanically, pluggable				
external push button				
90 s				
max. 95% r.H., non-condensing				
-22122°F [-3050°C]				
-40176°F [-4080°C]				
IP54, NEMA 2, UL Enclosure Type 2				
cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC				
35 dB(A)				
maintenance-free				
ISO 9001				
1.1 lb [0.50 kg]				

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

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## **LRB24-SR Technical Data Sheet**

Modulating, Non-Spring Return, 24 V, for DC 2...10 V or 4...20 mA

#### 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.



Only connect common to negative (-) leg of control circuits. A 500  $\Omega$  resistor (ZG-R01) converts the 4 to 20 mA control signal to 2



to 10 VDC.

Actuators with plenum cable do not have numbers; use color codes



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.

