## **B216 Technical Data Sheet**

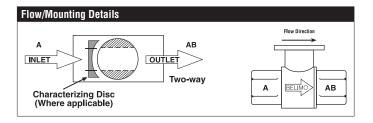
### Stainless Steel Ball and Stem







Technical Data		
Fluid	chilled, hot water, up to 60% glycol	
Flow characteristic	equal percentage	
Controllable flow range	75°	
Valve Size [mm]	0.5" [15]	
Pipe connection	NPT female ends	
Housing	Nickel-plated brass body	
Ball	stainless steel	
Stem	stainless steel	
Stem seal	EPDM (lubricated)	
Seat	PTFE	
0-ring	EPDM (lubricated)	
Characterised disc	No Disc (full flow)	
Body Pressure Rating	600 psi	
Close-off pressure ∆ps	200 psi	
Cv	16	
Weight	0.66 lb [0.30 kg]	
Fluid Temp Range (water)	0250°F [-18120°C]	
Leakage rate	0% for A – AB	
Maintenance	maintenance-free	

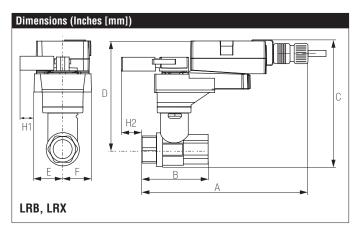


### **Application**

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** 

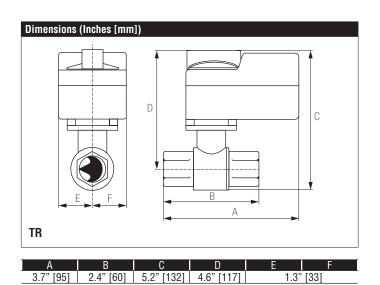
	Non-Spring	Spring
B216	TR, LRB(X), NR	TFRB(X), LF

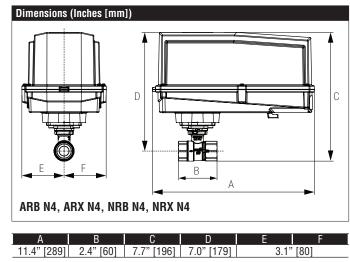


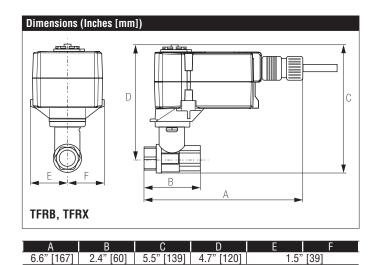
Α	В	С	D	E	F	H1	H2
9.4"	2.4"	5.6"	5.0"	1.3"	[33]	1.2"	1.1" [28]
[239]	[60]	[141]	[127]			[30]	

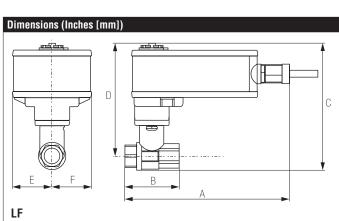
### Safety Notes

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.









A	В	С	D	E	F
7.9" [200]	2.4" [60]	6.1" [154]	5.5" [140]	1.3"	[33]

### Modulating, Non-Spring Return, 24 V, Multi-Function Technology®











	TEGE EQUIT
Technical Data	
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%
Power consumption in operation	2.5 W
Power consumption in rest	1.2 W
position	
Transformer sizing	5 VA (class 2 power source)
Electrical Connection	18 GA plenum cable with 1/2" conduit
	connector, degree of protection NEMA 2 /
Overload Protection	IP54, 3 ft [1 m] 10 ft [3 m] and 16ft [5 m]
	electronic thoughout 090° rotation
Operating Range	DC 210 V (default), 420 mA w/ ZG-R01
	$(500 \Omega, 1/4 \text{ W resistor})$ , variable (VDC, on/off, floating point)
Operating range Y variable	Start point DC 0.530 V
operating range i variable	End point DC 2.532 V
Input Impedance	100 kΩ for DC 210 V (0.1 mA), 500 $\Omega$ for
	420 mA, 1500 Ω for PWM and On/Off
Position Feedback	DC 210 V, Max. 0.5 mA, VDC variable
Angle of rotation	90°
Direction of rotation motor	reversible with built-in switch
Position indication	Mechanically, pluggable
Manual override	external push button
Running Time (Motor)	default 150 s, variable 35150 s
Ambient humidity	max. 95% r.H., non-condensing
Ambient temperature	-22122°F [-3050°C]
Storage temperature	-40176°F [-4080°C]
Degree of Protection	IP54, NEMA 2, UL Enclosure Type 2
Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA
	E60730-1:02, CE acc. to 2004/108/EC
Noise level, motor	35 dB(A)
Maintenance	maintenance-free
Quality Standard	ISO 9001
Weight	1.5 lb [0.70 kg]

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

### 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.



### **LRX24-MFT Technical Data Sheet**

Modulating, Non-Spring Return, 24 V, Multi-Function Technology®

#### Wiring Diagrams



### X INSTALLATION NOTES



Provide overload protection and disconnect as required.

Only connect common to negative (-) leg of control circuits.



Actuators may be connected in parallel. Power consumption and input impedance must be observed.



Actuators may also be powered by 24 VDC.



A 500  $\Omega$  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 (Sink) 24 VAC line.



For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller; the actuator internal common reference is not compatible.



IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).



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

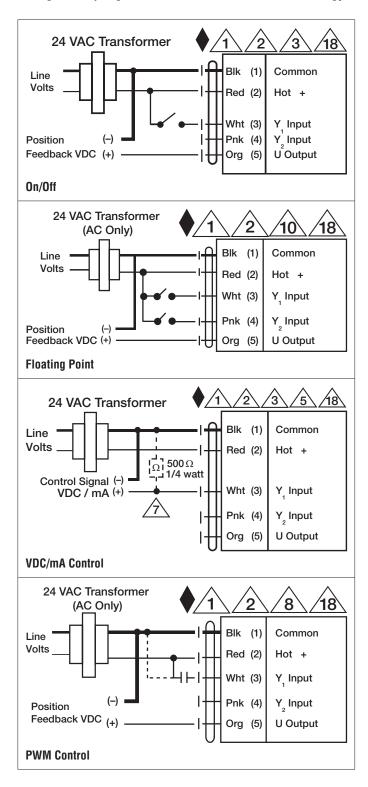


Meets cULus requirements without the need of an electrical ground connection



### 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.



# **LRX24-MFT Technical Data Sheet**

Modulating, Non-Spring Return, 24 V, Multi-Function Technology®



