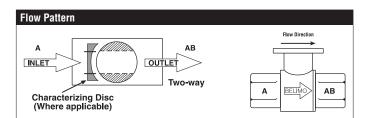
# **B217, 2-Way, Characterized Control Valve** Stainless Steel Ball and Stem





WARRANTY

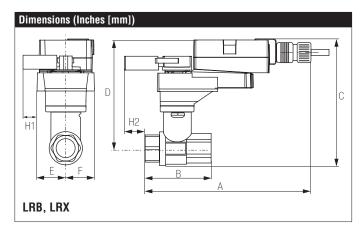
Tested at Date	
Technical Data	
Service	chilled, hot water, up to 60% glycol
Flow Characteristic	equal percentage
Controllable Flow Range	75°
Size [mm]	0.75" [20]
End Fitting	NPT female ends
Body	forged brass, nickel plated
Ball	stainless steel
Stem	stainless steel
Stem Packing	EPDM (lubricated)
Seat	Teflon® PTFE
Seat O-ring	EPDM (lubricated)
Characterized Disc	TEFZEL®
Body Pressure Rating [psi]	600
Media Temperature Range (Water)	0°F to 250°F [-18°C to 120°C]
Max Differential Pressure (Water)	50 psi (345 kPa)
Close-Off Pressure	200 psi
Cv	4.7
Weight	0.7 lb [0.3 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.

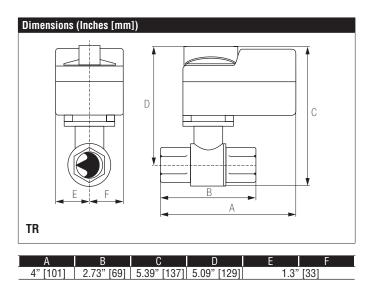
Suitable Actuators				
	Non-Spring	Spring		
B217	TR, LR, NR	TFR, LF		

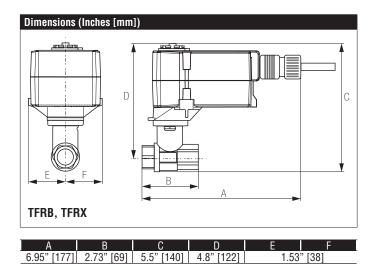


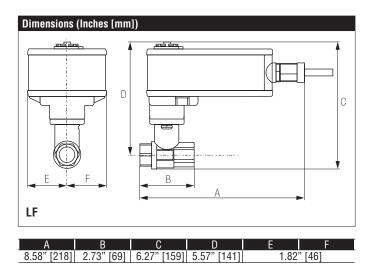
A	В	С	D	E	F	H1	H2
9.4"	2.73"	5.79"	5.09"	1.3"	[33]	1.18"	1" [25]
[239]	[69]	[147]	[129]			[30]	

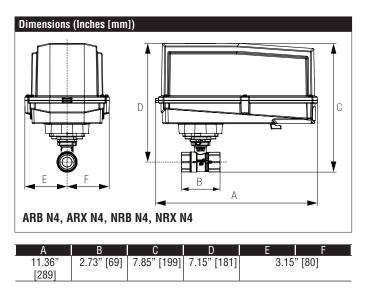


## B217, 2-Way, Characterized Control Valve Stainless Steel Ball and Stem













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	4 VA (class 2 power source)			
Electrical Connection	3ft [1m], 18 GA plenum cable with 1/2"			
	conduit connector			
Overload Protection	electronic throughout 0° to 95° rotation			
Input Impedance	1000 Ω (0.6 W)			
Feedback Output U	No Feedback			
Angle of Rotation	Max. 95°, 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)	95 sec			
Running Time (Fail-Safe)	<25 sec			
Ambient Humidity	max. 95% RH non-condensing			
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			
Housing Material	UL94-5VA			
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)			
Noise Level (Fail-Safe)	<62 dB (A)			
Servicing	maintenance free			
Quality Standard	ISO 9001			
Weight	1.8 lb [0.8 kg]			
Degree of Protection IEC/EN	IP54			

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



### Wiring Diagrams

/2

 $\sqrt{3}$ 

/18\

/i/

## 🔀 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 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.

