ELIMO

B3 Series, 3-Way, Characterized Control Valve Chrome Plated Brass Ball and Brass Stem







chilled or hot water, 60% glycol
A-port equal percentage
B-port modified for constant common port
flow
75°
1/2", 3/4"
NPT female ends
forged brass, nickel plated
chrome plated brass
nickel plated brass
PTFE
Tefzel®
2 EPDM O-rings, lubricated
600 psi
0°F to 250°F [-18°C to 120°C]
200 psi
50 psi for typical applications
0% for A to AB
<2.0% for B to AB
according to EN 12266-1:2003
A-port: see product chart for values
B-port: 70% of A to AB C _v

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Dimensions OCEST-LOSSI-ANIENTENTE A A

	Valve Nor	ninal Size	Dimensions (Inches [mm])			
Valve Body	Inches	DN [mm]	Α	В	С	
B307B-B311B	1/2"	15	2.41" [61.1]	1.39" [35.2]	1.20" [30.6]	
B312B-B316B	1/2"	15	2.38" [60.4]	1.78" [45.2]	1.29" [32.8]	
B317B-B321B	3/4"	20	2.73" [69.3]	1.87" [47.4]	1.47" [37.3]	

Flow Patterns "B" Port must be piped to the bypass leg. AB OUTLET Characterizing Disc (where applicable) B Port Disc (All 3-way models)

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 or constant flow.

* (Not for use in change over applications)

	Valve No	ninal Size	Type	5	Suitable .	Actuator	S	
Cv	Inches	DN [mm]	3-way NPT	Non-S	Non-Spring		Spring	
0.3	1/2	15	B307B					
0.46	1/2	15	B308B					
8.0	1/2	15	B309B					
1.2	1/2	15	B310B					
1.9	1/2	15	B311B					
3	1/2	15	B312B			Series	ies	
4.7	1/2	15	B313B			Ser	LF Series	
10	1/2	15	B315B		4	E	造	
16	1/2	15	B316B					
4.7	3/4	20	B317B					
7.4	3/4	20	B318B					
14	3/4	20	B320B					
24	3/4	20	B321B					

^{*}Models without characterizing disc









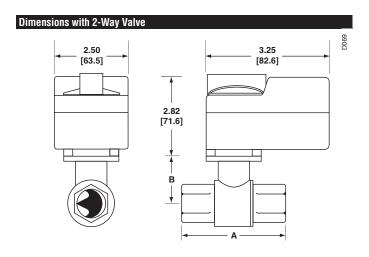




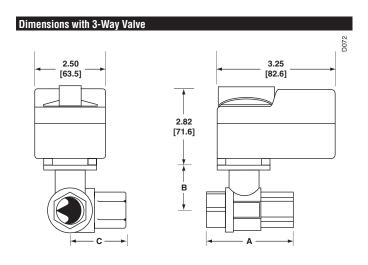
TR24-3 US TR24-3-T US with 3 ft plenum rated cable TR24-3/300 US TR24-3-T US with 10 ft plenum rated cable TR24-3/500 US TR24-3-T US with 16 ft plenum rated cable

Technical Data	
Control	on/off, floating point
Nominal voltage	24 VAC 50/60 Hz
Nominal voltage range	19.228.8 VAC
Power consumption	1 W
Transformer sizing	1VA (class 2 power source)
Electrical connection	screw terminals accessible after removal of small cover (3 ft, 10 ft, 16 ft cables optional)
Input impedance	0.36 kΩ
Angle of rotation	90°
Position indication	integrated into handle
Manual override	push down handle
Running time	90 seconds @ 60 hz, 108 seconds @ 50 hz
Humidity	5 to 95% non-condensing
Ambient temperature	-22°F to 122°F (-30°C to 50°C)
Storage temperature	-40°F to 176°F (-40°C to 80°C)
Housing	NEMA 1/IP40
Housing rating	UL94-5V(B)
Agency listing†	cULus according to UL 60730-1A/-2-14, CAN/ CSA E60730-1:02, CE according to 2004/108/ EC and 2006/95/EC for line voltage and/or –S versions
Noise level	max. 35 db (A)
Quality standard	ISO 9001

[†] Rated impulse voltage 330V, Control pollution degree 2, Type of action 1



	Valve Nominal Size		Dimensions (Inches [mm])
Valve Body	Inches DN [mm]		Α	В
B207(B)-B211(B)	1/2"	15	2.41" [61.1]	1.39" [35.2]
B212(B)-B215(B)	1/2"	15	2.38" [60.4]	1.78" [45.2]
B217(B)-B221(B)	3/4"	20	2.73" [69.3]	1.87" [47.4]



	Valve Nominal Size			Dimensions (Inches [mm])			
Valve Body In	ches Di	N [mm]	Α	В	C		
B307(B)-B311(B)	½"	15	2.41" [61.1]	1.39" [35.2]	1.20" [30.6]		
B312(B)-B315(B)	1/2"	15	2.38" [60.4]	1.78" [45.2]	1.29" [32.8]		
B317(B)-B321(B)	3/4"	20	2.73" [69.3]	1.87" [47.4]	1.47" [37.3]		



Wiring Diagrams



X INSTALLATION NOTES



The common connection from the actuator must be connected to the Hot connection of the controller.



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



The actuator Hot must be connected to the control board Hot.

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.

TR24-3 Actuators, On-Off, Floating Point

NOTE: TR24-3(-T) US cannot be wired in parallel with themselves or any other actuator.

