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

Tefzel® is a registered trademark of DuPont

Dimensions OCEST-LOSSI-ANIENTENTE A A

Valve Nominal Size			Dimen	sions (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	Type	5	Suitable .	Actuator	S	
Cv	Inches	DN [mm]	3-way NPT Non-Spring S		Non-Spring		ing
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

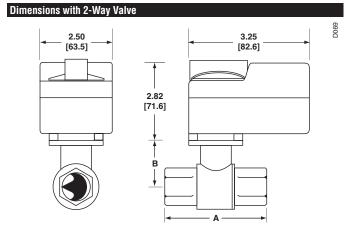
TR24-SR Actuators, Proportional











	Valve Nor	ninal 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]	

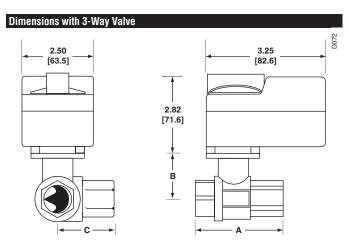
Models TR24-SR-T US

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

Technical Data	
Control	proportional
Nominal voltage	24 VAC 50/60 Hz, 24 VDC
Nominal voltage range	19.228.8 VAC, 21.628.8 VDC
Power consumption	0.5 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	100 kΩ
Angle of rotation	90°
Direction of rotation	reversible with switch under cover
Position indication	integrated into handle
Manual override	push down handle
Running time	90 seconds
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 500V, Control pollution degree 2, Type of action 1

NOTE: Response sensitivity is 75mV



	Valve Nominal Size		Dimen	[mm])	
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B307(B)-B311(B)	1/2"	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]



TR24-SR Actuators, Proportional

Wiring Diagrams



X INSTALLATION NOTES



Actuators with color coded wires are optional. Wire numbers are provided for reference.

CAUTION Equipment damage!

Actuators may be connected in parallel.

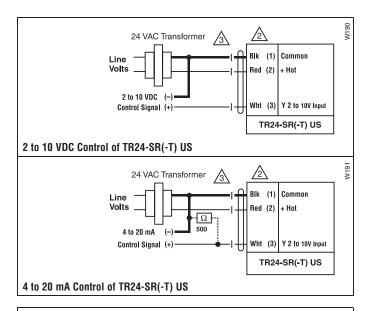
Power consumption and input impedance must be observed.



Actuators may also be powered by 24 VDC.

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.



Direct/Reverse acting switch is under wiring cover.

R = CW with decrease in signal

L = CCW with decrease in signal

No feedback