







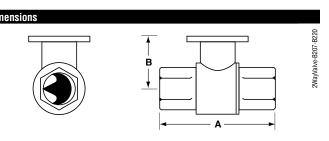
B2 Series, 2-Way, Characterized Control Valve Chrome Plated Brass Ball and Brass Stem

Application

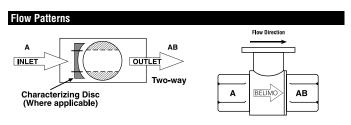
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

Technical Data	
Service	chilled or hot water, 60% glycol
Flow characteristic	A-port equal percentage
Action	90° rotation
Sizes	1/2", 3/4"
Type of end fitting	NPT female ends
Materials:	
Body	forged brass, nickel plated
Ball	chrome plated brass
Stem	nickel plated brass
Seats	PTFE
Characterizing disc	Tefzel®
Packing	2 EPDM O-rings, lubricated
Body pressure rating	600 psi
Media temp. range	0°F to 212°F [-18°C to 100°C]
Close off pressure	200 psi
Maximum differential	30 psi for typical applications
pressure (∆P)	
Leakage	0% for A to AB
External leakage	according to EN 12266-1:2003
C _v rating	A-port: see product chart for values

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	Valve Nor	ninal Size	Dimensions (Inches [mm])
Valve Body	Inches	DN [mm]	Α	В
B207B-B211B	1/2"	15	2.41" [61.1]	1.39" [35.2]
B212B-B215B	1/2"	15	2.38" [60.4]	1.78" [45.2]
B217B-B220B	3/4"	20	2.73" [69.3]	1.87" [47.4]



		Type			Actuators	S	
Cv	Inches	DN [mm]	2-way NPT	Non-S	Spring	Spr	ring
0.3	1/2	15	B207B				
0.46	1/2	15	B208B				
0.8	1/2	15	B209B				
1.2	1/2	15	B210B				
1.9	1/2	15	B211B				
3	1/2	15	B212B		Series	Series	LF Series
4.7	1/2	15	B213B		Sei	Ser	Ser
7.4	1/2	15	B214B		5	ഥ 변	造
10	1/2	15	B215B*				
4.7	3/4	20	B217B				
7.4	3/4	20	B218B				
10	3/4	20	B219B				
24	3/4	20	B220B*				

^{*}Models without characterizing disc









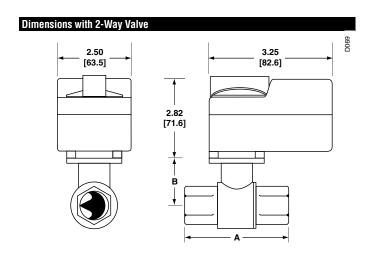


Models TR24-3-T US

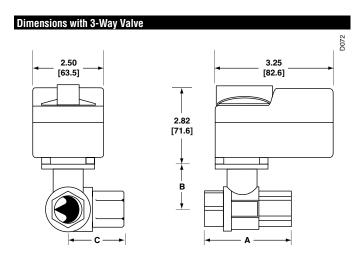
TR24-3 US TR24-3-T US with 3 ft plenum rated cable TR24-3/300 US TR24-3-T US with 10 ft plenum rated cable TR24-3/500 US TR24-3-T US with 16 ft plenum rated cable

on/off, floating point
24 VAC 50/60 Hz
19.228.8 VAC
1 W
1VA (class 2 power source)
screw terminals accessible after removal of
small cover (3 ft, 10 ft, 16 ft cables optional)
0.36 kΩ
90°
integrated into handle
push down handle
90 seconds @ 60 hz, 108 seconds @ 50 hz
5 to 95% non-condensing
-22°F to 122°F (-30°C to 50°C)
-40°F to 176°F (-40°C to 80°C)
NEMA 1/IP40
UL94-5V(B)
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
max. 35 db (A)
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)-B220(B)	3/4"	20	2.73" [69.3]	1.87" [47.4]



	Valve Nominal Size		Dimensions (Inches [mm])			
Valve Body	Inches	DN [mm]	Α	В	C	
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)-B320(B)	3/4"	20	2.73" [69.3]	1.87" [47.4]	1.47" [37.3]	



Wiring Diagrams



💢 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.

