B340L, 3-Way, Diverting Ball Valve Chrome Plated Brass Ball and Nickel Plated Brass Stem

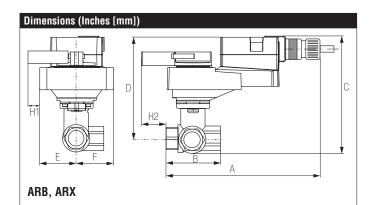




Application

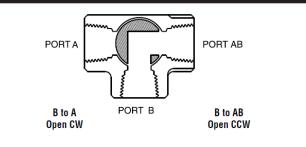
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.

Suitable Actuators					
	Non-Spring	Spring			
B340L	ARB(X)	AFRB(X)			



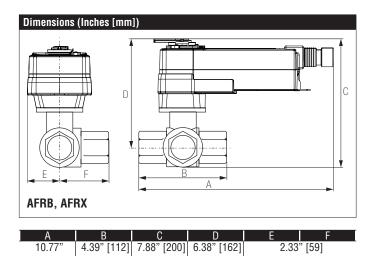
A	В	С	D	E	F	H1	H2
9.41"	4.39"	2.74"	5.73"	1.73"	2.33"	0.75"	0.5" [15]
[239]	[112]	[69.7]	[146]	[45]	[59]	[20]	

Technical Data	
Service	chilled, hot water, up to 60% glycol
Flow Characteristic	modified linear
Controllable Flow Range	75°
Size [mm]	1.5" [40]
End Fitting	NPT female ends
Body	forged brass, nickel plated
Ball	chrome plated brass
Stem	nickel plated brass
Seat	Teflon® PTFE
Body Pressure Rating [psi]	400
Media Temperature Range	0°F to 250°F [-18°C to 120°C]
(Water)	
Max Differential Pressure (Water)	50 psi (345 kPa)
Close-Off Pressure	200 psi
Cv	57
Weight	3.7 lb [1.7 kg]
Leakage	ANSI Class VI
Servicing	maintenance free





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Technical Data				
Power Supply	24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%			
Power Consumption Running	7.5 W			
Power Consumption Holding	3 W			
Transformer Sizing	10 VA (class 2 power source)			
Electrical Connection	3ft [1m], 18 GA appliance cable with 1/2" conduit connector			
Overload Protection	electronic throughout 0° to 95° rotation			
Operating Range Y	2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 Ω , 1/4 W resistor), variable (VDC, PWM, floating point, on/off)			
Input Impedance	100 k Ω for 2 to 10 VDC (0.1 mA), 500 Ω for 4 to 20 mA, 1500 Ω for PWM, floating point and On/Off			
Feedback Output U	2 to 10 VDC, 0.5 mA max, VDC variable			
Angle of Rotation	90°			
Direction of Rotation (Motor)	reversible with switch			
Direction of Rotation (Fail-Safe)	reversible with CW/CCW mounting			
Position Indication	visual indicator, 0° to 95° (0° is full spring			
Marchonella	return position)			
Manual Override	5 mm hex crank (3/16" Allen), supplied			
Running Time (Motor)	150 sec (default), variable (70 to 220 sec)			
Running Time (Fail-Safe)	<20 sec			
Angle of Rotation Adaptation	Off (default)			
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, IP54, UL enclosure type 2			
Agency Listings†	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC			
Noise Level (Motor)	<45 dB (A)			
Noise Level (Fail-Safe)	<62 dB (A)			
Servicing	maintenance free			
Quality Standard	ISO 9001			

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



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Actuators with appliance cables are numbered.

Provide overload protection and disconnect as required.

- Actuators may also be powered by 24 VDC.
- Only connect common to negative (-) leg of control circuits.

A 500 Ω resistor (ZG-R01) converts the 4 to 20 mA control signal to 2 to 10 VDC.

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.
- 12

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

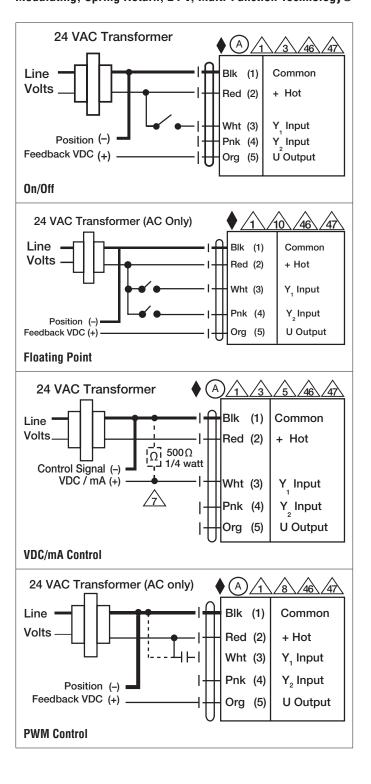
Actuators may be controlled in parallel. Current draw and input impedance must be observed.

A Master-Slave wiring required for piggy-back applications. Feedback from Master to conrol input(s) of Slave(s).

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.





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