B332L, 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.

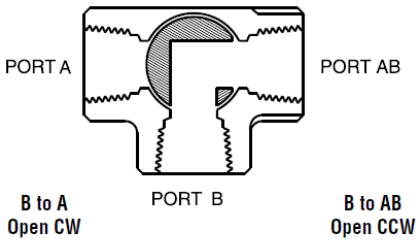
Suitable Actuators

	Non-Spring	Spring
B332L	NRB(X)	AFRB(X)

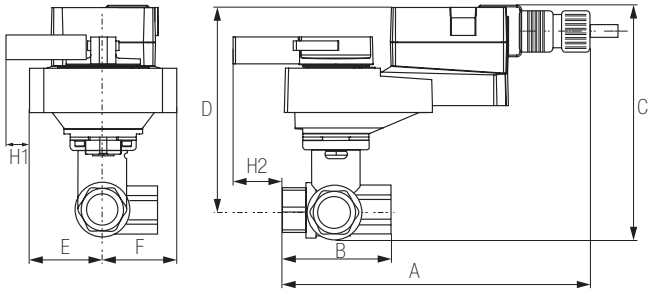
Technical Data

Service	chilled, hot water, up to 60% glycol
Flow Characteristic	modified linear
Controllable Flow Range	75°
Size [mm]	1.25" [32]
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 (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	34
Weight	2.6 lb [1.2 kg]
Leakage	ANSI Class VI
Servicing	maintenance free

Flow Pattern



Dimensions (Inches [mm])



NRB NRX

A	B	C	D	E	F	H1	H2
4.90" [124.5]	2.68" [68.1]	6.74" [171]	5.49" [140]	1.73" [45]	2.14" [54]	0.75" [20]	0.5" [15]

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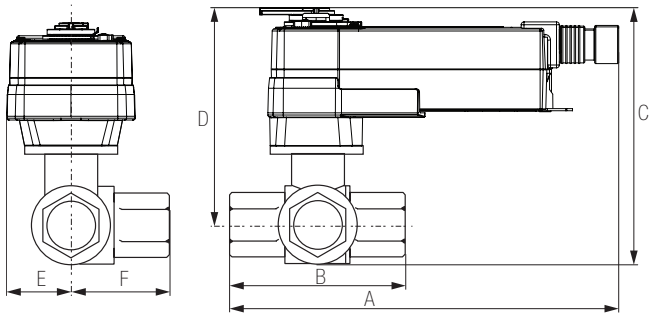
Dimensions (Inches [mm])

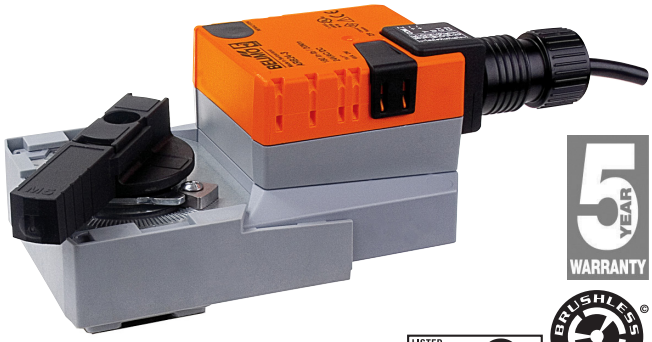


AFRB, AFRX

A	B	C	D	E	F
10.57” [269]	3.96” [101]	6.9” [175]	5.65” [144]	2.14” [54]	1.26” [32]

NRB24-3

On/Off, Floating Point, Non-Spring Return, 24 V



Technical Data	
Power Supply	24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%
Power Consumption Running	2 W
Power Consumption Holding	0.2 W
Transformer Sizing	4 VA (class 2 power source)
Electrical Connection	3 ft [1 m], 18 GA plenum cable with 1/2" conduit connector
Overload Protection	electronic throughout 0° to 95° rotation
Input Impedance	600 Ω
Angle of Rotation	max. 90°, adjustable with mechanical stop
Direction of Rotation (Motor)	reversible with built-in switch
Position Indication	handle
Manual Override	external push button
Running Time (Motor)	90 sec
Humidity	5 to 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, IP54, 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 and 2006/95/EC
Noise Level (Motor)	max. 45 dB (A)
Servicing	maintenance free
Quality Standard	ISO 9001
Weight	2.0 lb [0.9 kg]

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

Wiring Diagrams

INSTALLATION NOTES

A — Actuators with appliance cables are numbered.

1 — Provide overload protection and disconnect as required.

3 — Actuators may also be powered by 24 VDC.

6 — Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.

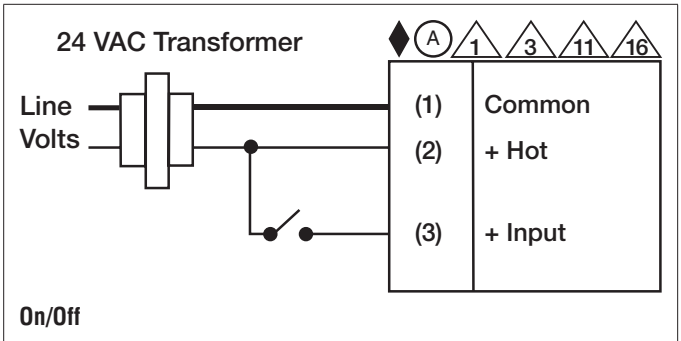
11 — Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

16 — Actuators are provided with a numbered screw terminal strip instead of a cable.

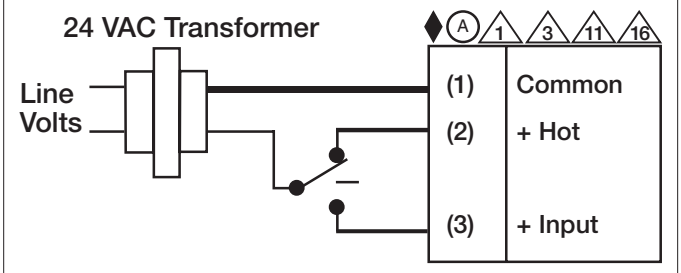
◆ — Meets cULus requirements without the need of an electrical ground connection.

WARNING! LIVE ELECTRICAL COMPONENTS!

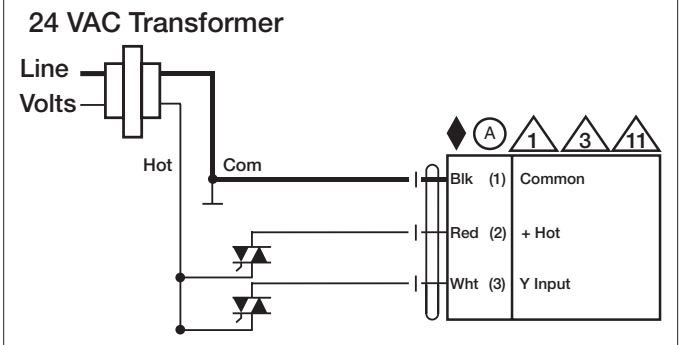
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.



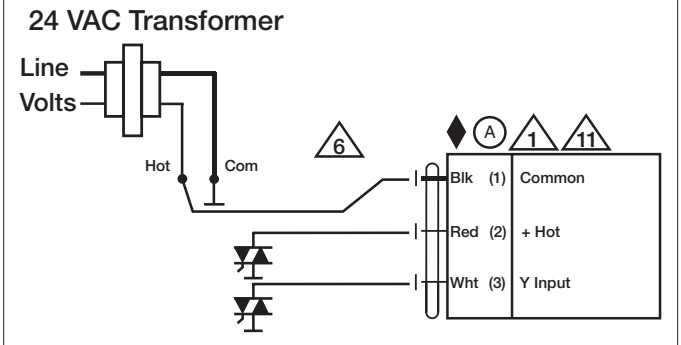
On/Off



Floating Point



Floating Point - Triac Source



Floating Point - Triac Sink