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B352, 3-Way, Characterized Control Valve Stainless Steel Ball and Stem







VEAR
WARRANT

chilled, hot water, up to 60% glycol
A-port equal percentage, B-port modified
for constant common port flow
75°
2" [50]
npt female ends
forged brass, nickel plated
stainless steel
stainless steel
EPDM (lubricated)
Teflon® PTFE
EPDM (lubricated)
TEFZEL®
400
0°F to 250°F [-18°C to 120°C]
50 psi (345 kPa)
200 psi
83
5.5 lb [2.5 kg]
0% for A to AB, <2.0% for B to AB
maintenance free

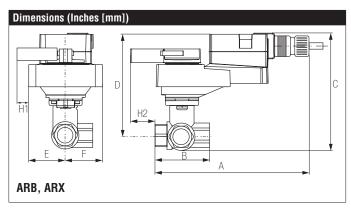


Application

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

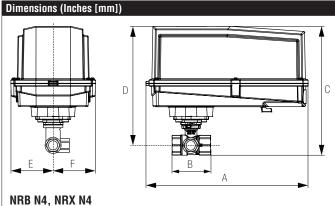
	Non-Spring	Spring				
B352	ARB(X)	AFB(X)				



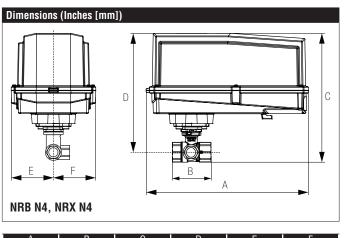
Α	В	С	D	Е	F	H1
10.5"	4.90"	7.73"	5.98"	1.73" [44]	2.6" [66]	0.75" [20]
[267]	[124.5]	[196]	[152]			

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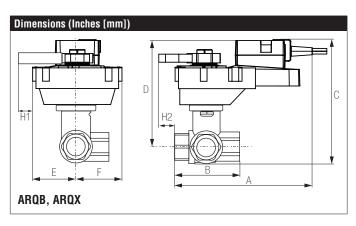




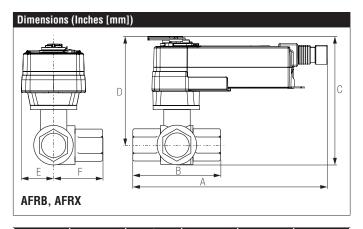
Α	В	С	l D	Е	F
12.98"	4.90"	10.29"	9.24" [235]	3.39	" [86]
[330]	[124.5]	[261]			



Α	В	С	D	Е	F
11.36"	4.90"	9.76" [248]	8.01" [204]	2.44	" [62]
[289]	[124.5]				



Α	В	С	D	E	F	H1	H2
9.9"	4.90"	8.32"	6.57"	2.28"	2.6"	0.75"	0.5" [15]
[251]	[124.5]	[211]	[167]	[58]	[66]	[20]	



Α	В	С	D	E	F
11.27"	4.90"	8.36" [212]	6.61" [168]	2.6"	[66]
[286]	[124.5]				





Technical Data	
Power Supply	nominal 100 to 240 VAC, 50/60 Hz, tolerance
	85 to 265 VAC 50/60 Hz
Power Consumption Running	4 W
Power Consumption Holding	1 W
Transformer Sizing	7.5 VA (class 2 power source)
Electrical Connection	3ft [1m], 18 GA appliance cable with 1/2"
	conduit connector
Overload Protection	electronic thoughout 0° to 90° rotation
Operating Range Y	2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 Ω,
	1/4 W resistor)
Input Impedance	100 k Ω for 2 to 10 VDC (0.1 mA), 500 Ω for 4
	to 20 mA
Feedback Output U	2 to 10 VDC
Angle of Rotation	90°
Direction of Rotation (Motor)	reversible with built-in switch
Position Indication	integrated into handle
Manual Override	external push button
Running Time (Motor)	90 sec
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
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)
Servicing	maintenance free
Quality Standard	ISO 9001

†Rated Impulse Voltage 4kV, Type of action 1, Control Pollution Degree 3.

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Modulating, Non-Spring Return, 100 to 240 VAC, for 2 to 10 VDC or 4 to 20 mA

Wiring Diagrams



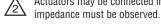
X INSTALLATION NOTES



Actuators with appliance cables are numbered.



Provide overload protection and disconnect as required.



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.

Actuators may be connected in parallel. Power consumption and input



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.

