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B347, **3-Way**, **Characterized Control Valve** Stainless Steel Ball and Stem

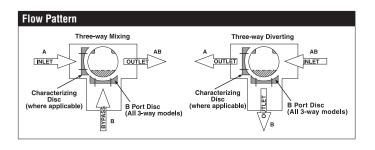






X	WARRANT

Technical Data	
Service	chilled, hot water, up to 60% glycol
Flow Characteristic	A-port equal percentage, B-port modified
	for constant common port flow
Controllable Flow Range	75°
Size [mm]	2" [50]
End Fitting	npt female ends
Body	forged brass, nickel plated
Ball	stainless steel
Stem	stainless steel
Stem Packing	EPDM (lubricated)
Seat	Teflon® PTFE
Seat O-ring	EPDM (lubricated)
Characterized Disc	TEFZEL®
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	29
Weight	5.5 lb [2.5 kg]
Leakage	0% for A to AB, <2.0% for B to AB
Servicing	maintenance free

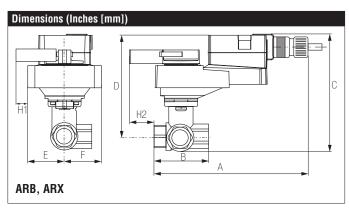


Application

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
B347	ARB(X)	AFB(X)

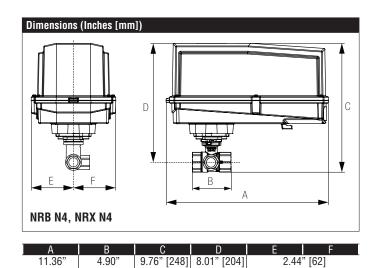


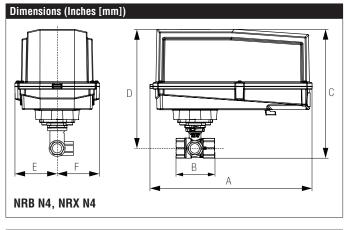
А	В	C	D	E	F	H1
10.5"	4.90"	7.73"	5.98"	1.73" [44]	2.6" [66]	0.75" [20]
[267]	[124.5]	[196]	[152]			

[289]

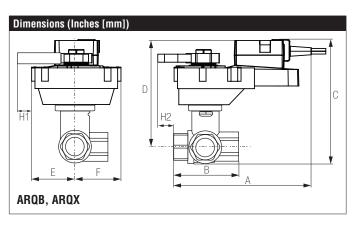
[124.5]

B347, 3-Way, Characterized Control Valve Stainless Steel Ball and Stem

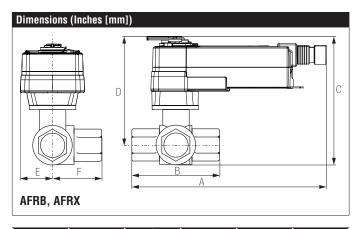




А	В	С	D	Е	F
12.98"	4.90"	10.29"	9.24" [235]	3.39	" [86]
[330]	[124.5]	[261]			



Α	В	С	D	Е	F	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



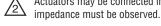
X INSTALLATION NOTES



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.

