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B329, **3-Way**, **Characterized Control Valve** Stainless Steel Ball and Stem

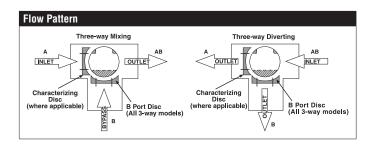






NAI WAI	RRANTY

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]	1.25" [32]
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	stainless steel
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	10
Weight	2.6 lb [1.2 kg]
Leakage	0% for A to AB, <2.0% for B to AB
Servicing	maintenance free

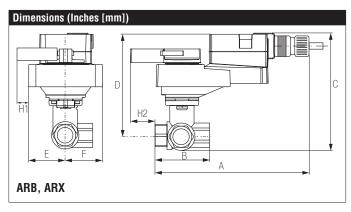


Application

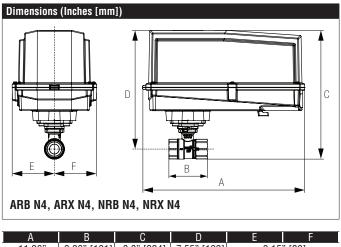
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.

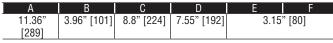
Suitable Actuators

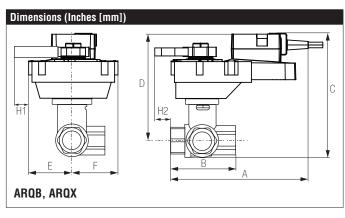
	Non-Spring	Spring			
B329	ARB(X)	AFB(X)			



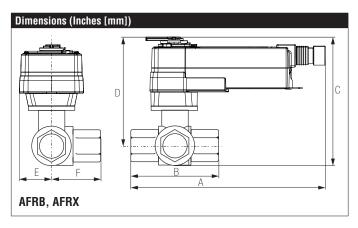
Α	В	C	D	Е	F	H1	H2
10"	3.96"	6.76"	5.51"	1.73"	2.14"	0.75"	0.5" [15]
[254]	[101]	[172]	[140]	[44]	[54]	[20]	







Α	В	С	D	E	F	H1	H2
9.69"	3.96"	7.45"	6.2"	1.73"	2.14"	1.39"	0.75"
[246]	[101]	[190]	[158]	[44]	[54]	[34]	[20]



Α	В	С	D	E	F
10.57"	3.96" [101]	6.9" [175]	5.65" [144]	2.14" [54]	1.26" [32]
[269]					

ARX24-SR

Modulating, Non-Spring Return, 24 V, for 2 to 10 VDC or 4 to 20 mA

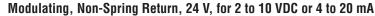




Technical Data	
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%
Power Consumption Running	2.5 W
Power Consumption Holding	0.4 W
Transformer Sizing	5 VA (class 2 power source)
Electrical Connection	18 GA plenum rated cable with 1/2" conduit connector protected NEMA 2 (IP54) 3ft [1m] 10ft [3m] and 16ft [5m]
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
	5
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
Noise Level (Motor)	<45 dB (A)
Servicing	maintenance free
Quality Standard	ISO 9001

 \dagger Rated Impulse Voltage 800V, Type action 1, Control Pollution Degree 3.







Wiring Diagrams



💢 INSTALLATION NOTES



Provide overload protection and disconnect as required.

Only connect common to negative (-) leg of control circuits.



Actuators may be connected in parallel. Power consumption and input impedance must be observed.



Actuators may also be powered by 24 VDC.



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



Actuators with plenum cable do not have numbers; use color codes



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.

