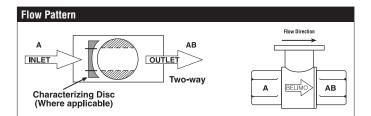
# **B278, 2-Way, Characterized Control Valve** Stainless Steel Ball and Stem





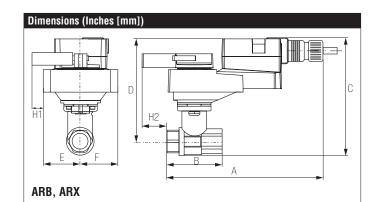
Technical Data	
Service	chilled, hot water, up to 60% glycol
Flow Characteristic	equal percentage
Controllable Flow Range	75°
Size [mm]	3" [80]
End Fitting	NPT female ends
Body	forged brass, nickel plated
Ball	stainless steel
Stem	stainless steel
Stem Packing	EPDM (lubricated)
Seat	Teflon® PTFE
Seat O-ring	EPDM (lubricated)
Characterized Disc	TEFZEL®
Body Pressure Rating [psi]	400
Media Temperature Range	0°F to 212°F [-18°C to 100°C]
(Water)	
Max Differential Pressure (Water)	30 psi
Close-Off Pressure	100 psi
Cv	130
Weight	9 lb [4.1 kg]
Leakage	0% for A 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 flow.

Suitable Actuators		
	Non-Spring	Spring
B278	ARB(X)	AFRB(X)

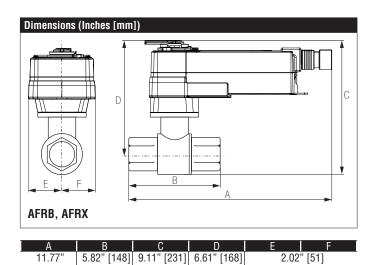


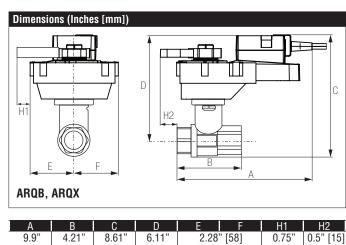
А	В	С	D	E	F	H1	H2
11"	5.82"	8.48"	5.95"	2.78	" [71]	2.07"	0.75"
[280]	[148]	[217]	[152]		-	[53]	[20]



[299]

## B278, 2-Way, Characterized Control Valve Stainless Steel Ball and Stem





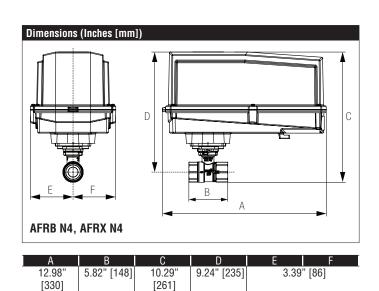
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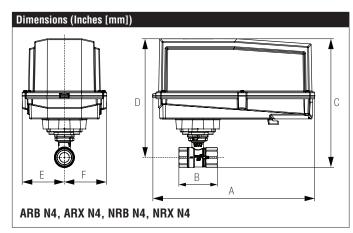
[20]

[220]

[251]

[107]





A	В	С	D	E	F
11.36"	5.82" [148]	10.74"	8.01" [204]	3.15	" [80]
[289]		[274]			





24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%
2.5 W
0.5 W
5.5 VA (class 2 power source)
terminal block
electronic thoughout 0° to 90° rotation
600 Ω
90°
reversible with built-in switch
integrated into handle
external push button
90 sec
-22°F to 122°F [-30°C to 50°C]
-40°F to 176°F [-40°C to 80°C]
NEMA 2, IP54, UL Enclosure Type 2
CULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC
<45 dB (A)
maintenance free
ISO 9001

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



#### Wiring Diagrams

# 🔀 INSTALLATION NOTES

Provide overload protection and disconnect as required.

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

Actuators may also be powered by 24 VDC.

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.

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.

