Date created, 10/27/2017 - Subject to change. © Belimo Aircontrols (USA), Inc.

B263, **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]	2.5" [65]
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	110
Weight	8.2 lb [3.7 kg]
	0% for A to AB
Leakage	
Servicing	maintenance free

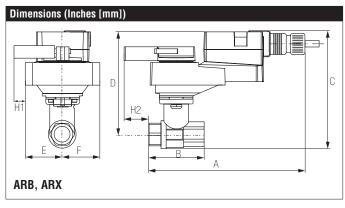


Application

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

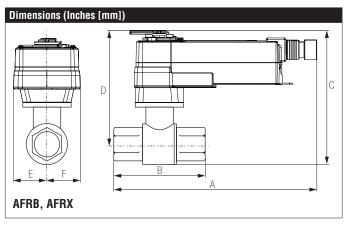
	Non-Spring	Spring		
B263	ARB(X)	AFRB(X)		



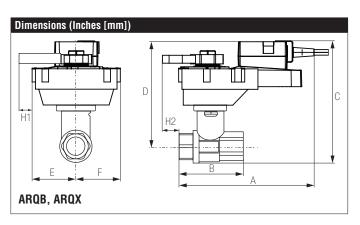
Α	В	С	D	E I F	l H1	H2
11"	5.55"	7.98"	5.98"	2.78" [71]	1.88"	0.75"
[280]	[141]	[202]	[152]		[48]	[20]

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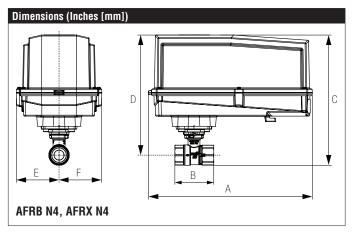




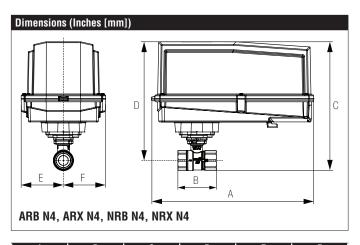
A	В	С	D	E	F
11.52"	5.55" [141]	8.61" [220]	6.61" [168]	2.02	" [51]
[293]					



Α	В	С	D	E	F	H1	H2
9.9"	4.21"	8.11"	6.11"	2.28	" [58]	0.75"	0.5" [15]
[251]	[107]	[195]	[155]			[20]	



Α	В	С	D	E	F	
12.98"	5.55" [141]	10.29"	9.24" [235]	3.39	" [86]	
[330]		[261]				



A	В	C	D	E	F
11.36"	5.55" [141]	10.74"	8.01" [204]	3.15	" [80]
[289]		[274]			

ARX24-SR-T N4













24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%
2.5 W
0.4 W
5 VA (class 2 power source)
terminal block
electronic thoughout 0° to 90° rotation
2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 Ω,
1/4 W resistor)
100 k Ω for 2 to 10 VDC (0.1 mA), 500 Ω for 4
to 20 mA
2 to 10 VDC
90°
reversible with built-in switch
pointer
under cover
90 sec
-22°F to 122°F [-30°C to 50°C]
-40°F to 176°F [-40°C to 80°C]
NEMA 4X, IP66/67, UL Enclosure Type 4
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 of action 1, Control Pollution Degree 4.





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

Wiring Diagrams



X 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 are provided with a numbered screw terminal strip instead of



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.

