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

# **B262**, **2-Way**, **Characterized Control Valve** Stainless Steel Ball and Stem







	WARRANT
60% alve	nΙ

	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	75
	Weight	8.2 lb [3.7 kg]
	Leakage	0% for A to AB
	Servicing	maintenance free

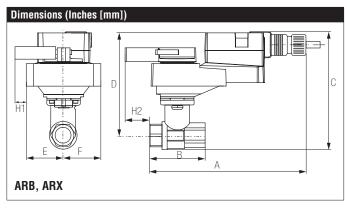


# **Application**

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.

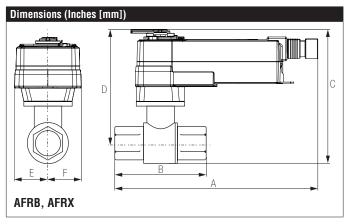
**Suitable Actuators** 

		Non-Spring	Spring		
	B262	ARB(X)	AFRB(X)		

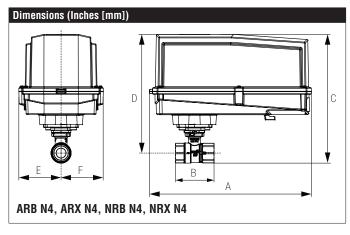


А	В	С	D	E	F	H1
10.1"	5.55"	7.98"	5.98"	2.78	" [71]	1.88" [48]
[257]	[141]	[202]	[152]			

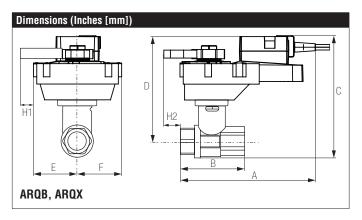
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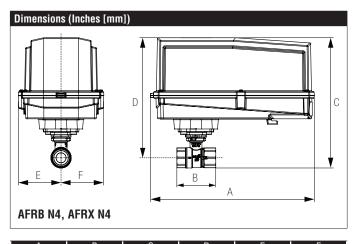
Α	В	С	D	E	F	
11.52"	5.55" [141]	8.61" [220]	6.61" [168]	2.02	" [51]	
[293]						







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



A	В	C	ט	Ŀ	F
11.36"	5.55" [141]	10.74"	8.01" [204]	2.44	" [62]
[289]		[274]			

# AFRB24-S On/Off, Spring Return, 24 VAC/DC





Technical Data	
Power Supply	24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%
Power Consumption Running	5 W
Power Consumption Holding	2.5 W
Transformer Sizing	7.5 VA (class 2 power source)
Electrical Connection	(2) 3ft [1m], 18 GA appliance cables with 1/2" conduit connectors
Overload Protection	electronic throughout 0° to 95° rotation
Operating Range Y	on/off
Angle of Rotation	90°
Direction of Rotation (Motor)	reversible with CW/CCW mounting
Direction of Rotation (Fail-Safe)	reversible with CW/CCW mounting
Position Indication	visual indicator, 0° to 95° (0° is full spring
	return position)
Manual Override	5 mm hex crank (3/16" Allen), supplied
Running Time (Motor)	<75 sec
Running Time (Fail-Safe)	20 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, UL enclosure type 2
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)
Noise Level (Fail-Safe)	<62 dB (A)
Servicing	maintenance free
Quality Standard	ISO 9001
Auxiliary Switch	2 x SPDT, 3A resistive (0.5A inductive) @ 250 VAC, one set at +10°, one adjustable 10° to 90°

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





### Wiring Diagrams



# X INSTALLATION NOTES



Actuators with appliance cables are numbered.



Provide overload protection and disconnect as required.



Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.



Actuators may be powered in parallel. Power consumption must be observed.



Parallel wiring required for piggy-back applications.



Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.



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.

