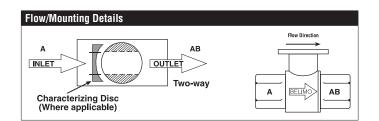
# **B240 Technical Data Sheet** Stainless Steel Ball and Stem







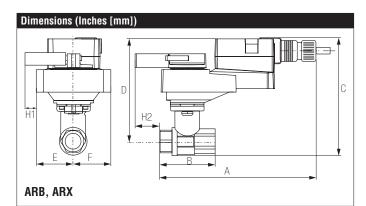
Technical Data	
Fluid	chilled, hot water, up to 60% glycol
Flow characteristic	equal percentage
Controllable flow range	75°
Valve Size [mm]	1.5" [40]
Pipe connection	NPT female ends
Housing	Nickel-plated brass body
Ball	stainless steel
Stem	stainless steel
Stem seal	EPDM (lubricated)
Seat	PTFE
O-ring	EPDM (lubricated)
Characterised disc	No Disc (full flow)
Body Pressure Rating	400 psi
Close-off pressure $\Delta ps$	200 psi
Cv	37
Weight	1.98 lb [0.90 kg]
Fluid Temp Range (water)	0250°F [-18120°C]
Leakage rate	0% for A – AB
Maintenance	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		
B240	ARB(X), NRQB(X)	AFRB(X)		



A	В	С	D	E	F	H1	H2
11.0"	3.9"	6.4"	5.3"	1.7"	[44]	1.2"	0.6" [15]
[280]	[100]	[163]	[134]			[30]	

## Safety Notes

WARNING: For Belimo products sold in California: these products do or may contain chemicals which are known to the State of California to cause cancer and or birth defects or other reproductive harms. For more information see www.p65warnings.ca.gov.



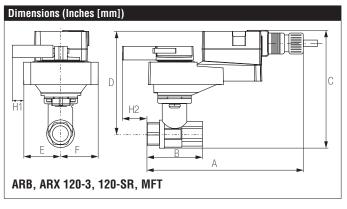
[280]

[100]

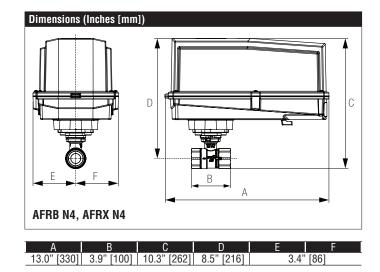
[181]

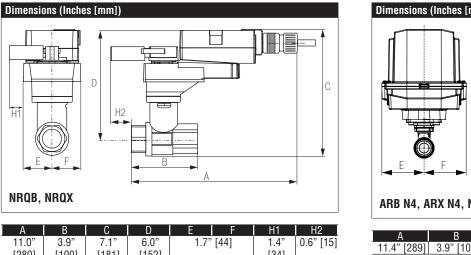
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## **B240 Technical Data Sheet Stainless Steel Ball and Stem**

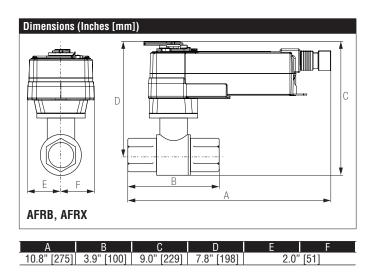


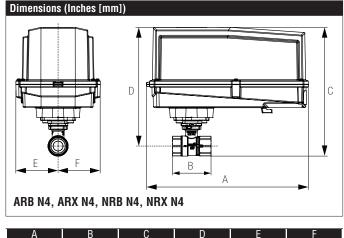
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[280]	[100]	[163]	[134]			[30]	





[34]





А	В	С	D	E	F
.4" [289]	3.9" [100]	8.5" [217]	7.3" [185]	3.1" [80]	

# AFRX24-S N4 Technical Data Sheet

NEMA 4, On/Off, Spring Return, 24 V





Technical Data	
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%
Power consumption in operation	5 W
Power consumption in rest	2.5 W
position	
Transformer sizing	7.5 VA (class 2 power source)
Electrical Connection	(2) 18 GA appliance cables with 1/2" conduit
	connectors, 3 ft [1 m],
Overload Protection	electronic throughout 095° rotation
Angle of rotation	90°
Torque motor	180 in-lb [20 Nm]
Direction of rotation motor	reversible with CW/CCW mounting
Direction of motion fail-safe	reversible with cw/ccw mounting
Position indication	Mechanical
Manual override	5 mm hex crank (3/16" Allen), supplied
Running Time (Motor)	<75 s
Running time fail-safe	<20 s
Ambient humidity	max. 95% r.H., non-condensing
Ambient temperature	-22122°F [-3050°C]
Storage temperature	-40176°F [-4080°C]
Degree of Protection	IP66, NEMA 4X, UL Enclosure Type 4X
Agency Listing	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)
Maintenance	maintenance-free
Quality Standard	ISO 9001
Weight	10 lb [4.5 kg]
Auxiliary switch	2 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, one set at 10°, one adjustable 1090°

## Safety Notes

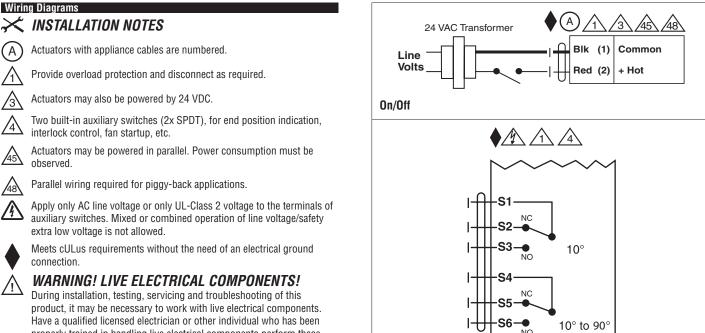
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†Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3



# AFRX24-S N4 Technical Data Sheet

NEMA 4, On/Off, Spring Return, 24 V



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.

**Auxiliary Switches** 

NO