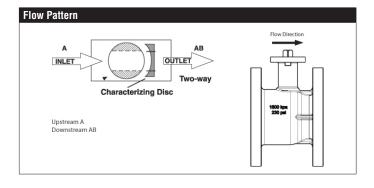
B6300S-110, **2-Way**, **Characterized Control Valve** Stainless Steel Ball and Stem





Technical Data	
Service	chilled, hot water, up to 60% glycol
Flow Characteristic	equal percentage
Controllable Flow Range	75°
Valve Size	3 " [80]
End Fitting	pattern to mate with ANSI 125 flange
Body	cast iron - GG25
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	ANSI Class 125, standard class B
ANSI Class	125
Number of Bolt Holes	4
Media Temperature Range	0°F to 250°F [-18°C to 120°C]
(Water)	
Max Differential Pressure (Water)	50 psi (345 kPa)
Close-Off Pressure	100 psi
Cv	110
Weight	32 lb [14.5 kg]
Leakage	0% for A to AB
Servicing	maintenance free

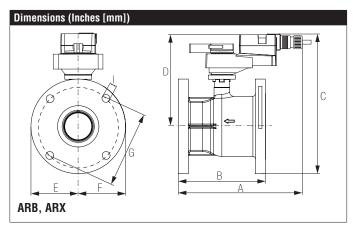


Application

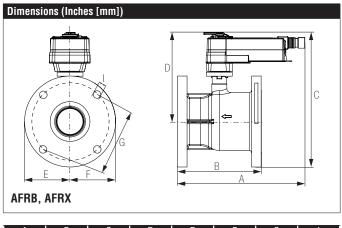
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.

Suitable Actuators

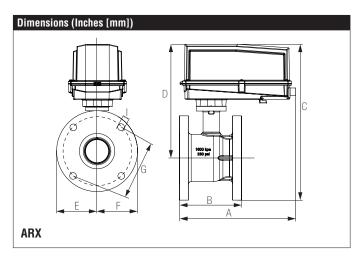
	Non-Spring	Spring		
B6300S-110	ARB(X)	AFRB(X)		



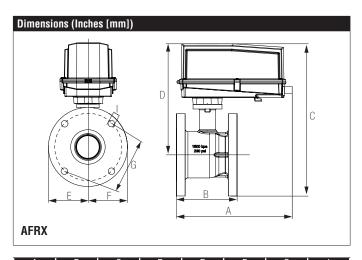
А	В	C	D	E	F	G	
9.61"	6.61"	12.01"	7.79"	3.94"	[100]	6" [152]	0.75"
[244]	[168]	[309]	[198]				[19]



Α	В	С	D	E	F	G	
9.61"	6.61"	12.79"	9.37"	3.94"	[100]	6" [152]	0.75"
[244]	[168]	[325]	[238]				[19]



Α	В	С	D	E	F	G	
13.25"	6.61"	15.00"	10.47"	3.94"	[100]	6" [152]	0.75"
[337]	[168]	[381]	[266]				[19]



Α	В	C	D	E	F	G	
16"	6.61"	16.61"	11.94"	3.94"	[100]	6" [152]	0.75"
[406]	[168]	[421.9]	[302.23]				[19]

AFRX24 N4 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	3ft [1m], 18 GA appliance cable with 1/2"
	conduit connector
Overload Protection	electronic throughout 0° to 95° rotation
Angle of rotation	90°
direction of rotation motor	reversible with CW/CCW mounting
direction of rotation spring-return	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 emergency control	<20 sec
position	
Ambient humidity	5 to 95% RH non condensing (EN 60730-1)
Ambient temperature	-22122 °F [-3050 °C]
Non-operating 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	9.7 lbs (4.4 kg); 10 lbs (4.5 kg) with switches

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



AFRX24 N4

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

Wiring Diagrams



X INSTALLATION NOTES



Actuators with appliance cables are numbered.



Provide overload protection and disconnect as required.



Actuators may also be powered by 24 VDC.



Actuators may be powered in parallel. Power consumption must be



Parallel wiring required for piggy-back applications.



Meets cULus requirements without the need of an electrical ground



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.

