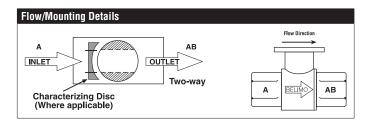
B250 Technical Data Sheet







Technical Data	
Fluid	chilled, hot water, up to 60% glycol
Flow characteristic	equal percentage
Controllable flow range	75°
Valve Size [mm]	2" [50]
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)
Characterized disc	No Disc (full flow)
Body Pressure Rating	400 psi
Close-off pressure ∆ps	200 psi
Cv	57
Weight	2.87 lb [1.3 kg]
Fluid Temp Range (water)	0250°F [-18120°C]
Leakage rate	0% for A – AB
Servicing	maintenance-free

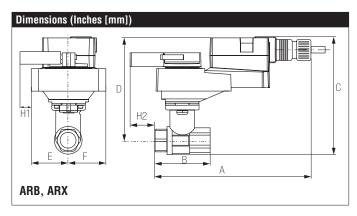


Application

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	
B250	ARB(X)	AFRB(X)	



Α	В	С	D	E	F	H1	H2
10.0"	4.2"	6.9"	5.5"	1.7"	[44]	1.2"	0.6" [15]
[254]	[107]	[175]	[140]			[30]	

Safety Notes

WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

9.9

[251]

AFRB, AFRX

4.2

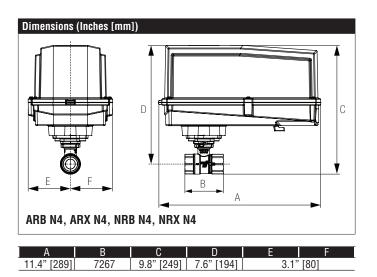
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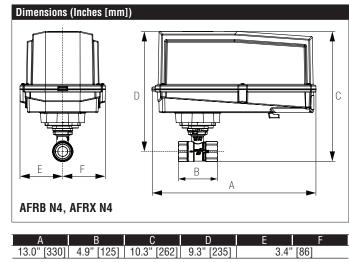
7.5

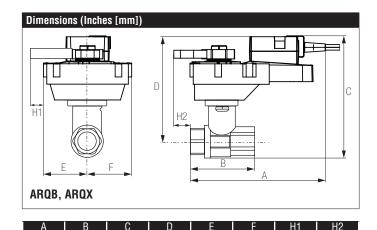
[191]

6.1

[155]





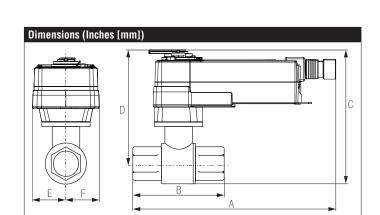


0.8

[20]

0.6" [15]

2.3" [58]



Α	В	C	D	F	F
10.8" [275]	4 2" [107]	9.5" [241]	8 1" [206]	2 0"	[51]
10.0 [270]	1.2 [107]	0.0 [2.11]	0.1 [200]		[01]

ARX24-3-T N4 Technical Data Sheet

NEMA 4X, On/Off, Floating Point Control, Non-Spring Return, 24 V





24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%
2.5 W
0.5 W
5.5 VA (class 2 power source)
Terminal blocks
electronic thoughout 090° rotation
600 Ω
90°
selectable with switch 0/1
pointer
under cover
default 90 s, variable 90 or 150 s
max. 95% r.H., non-condensing
-22122°F [-3050°C]
-40176°F [-4080°C]
IP66/67, NEMA 4X, UL Enclosure Type 4X
cULus acc. to UL60730-1A/-2-14, CAN/CSA
E60730-1:02, CE acc. to 2004/108/EC and
2006/95/EC
45 dB(A)
maintenance-free
ISO 9001
3.3 lb [1.5 kg]

†Rated Impulse Voltage 800V, Type of action 1, Control Pollution Degree 4.



ARX24-3-T N4 Technical Data Sheet

NEMA 4X, On/Off, Floating Point Control, Non-Spring Return, 24 V

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.

