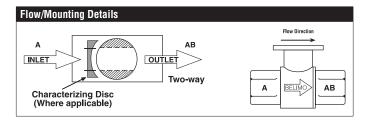






Technical Data	
Fluid	chilled, hot water, up to 60% glycol
Flow characteristic	equal percentage
Controllable flow range	75°
Valve Size [mm]	2" [50]
Pipe connection	NPT female ends
Housing	Nickel-plated brass body
Ball	stainless steel
Stem	stainless steel
Stem seal	EPDM (lubricated)
Seat	PTFE
0-ring	EPDM (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

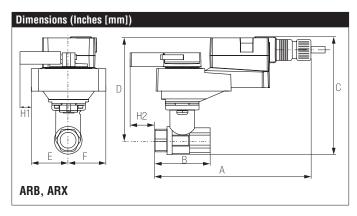


Application

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

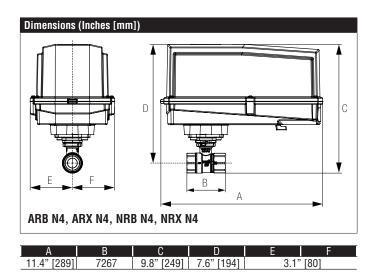
	Non-Spring	Spring
B250	ARB(X)	AFRB(X)

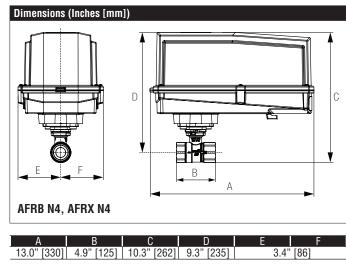


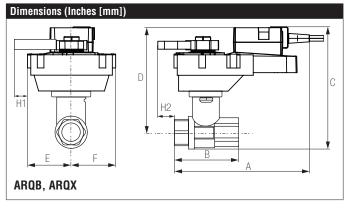
А	В	C	D	E	F	H1	H2
10.0"	4.2"	6.9"	5.5"	1.7"	[44]	1.2"	0.6" [15]
[254]	[107]	[175]	[140]			[30]	

Safety Notes

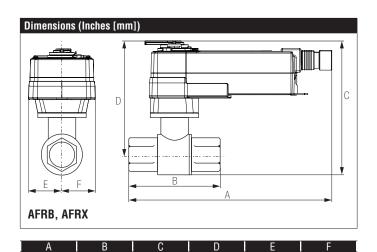
WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov







Α	В	С	D	E	F	H1	H2
9.9"	4.2"	7.5"	6.1"	2.3"	[58]	0.8"	0.6" [15]
[251]	[107]	[191]	[155]			[20]	



10.8" [275] | 4.2" [107] | 9.5" [241] | 8.1" [206] |

2.0" [51]











incoregopii
24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%
3.5 W
1.3 W
6 VA (class 2 power source)
18 GA plenum cable with 1/2" conduit
connector, degree of protection NEMA 2 /
IP54, 3 ft [1 m] 10 ft [3 m] and 16ft [5 m]
electronic thoughout 090° rotation
210 V (default), 420 mA w/ ZG-R01 (500
Ω , 1/4 W resistor), variable (VDC, on/off, floating point)
Start point 0.530 V
End point 2.532 V
100 kΩ for 210 V (0.1 mA), 500 Ω for
420 mA, 1500 Ω for PWM, On/Off and
Floating point
210 V, Max. 0.5 mA, VDC variable
90°
reversible with built-in switch
Mechanically, pluggable
external push button
default 150 s, variable 90150 s
max. 95% r.H., non-condensing
-22122°F [-3050°C]
-40176°F [-4080°C]
IP54, NEMA 2, UL Enclosure Type 2
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
2.6 lb [1.2 kg]

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

Safety Notes

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ARX24-MFT Technical Data Sheet

Modulating, Non-Spring Return, 24 V, Multi-Function Technology®

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



Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 VAC line.



For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller; the actuator internal common reference is not compatible.



IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).



Actuators with plenum cable do not have numbers; use color codes

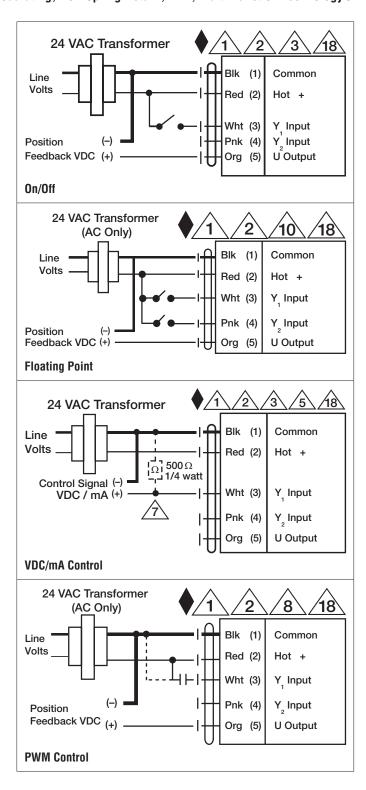


Meets cULus requirements without the need of an electrical ground



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.



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Modulating, Non-Spring Return, 24 V, Multi-Function Technology®



