







Technical data

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" [40] lled or hot water, up to 60% glycol 250°F [-18120°C]		
· · · · · · · · · · · · · · · · · · ·		
250°F [-18120°C]		
400 psi		
200 psi		
equal percentage		
intenance-free		
vay		
for A – AB		
75°		
19		
400 psi		
A-port: as stated in chart B-port: 70% of A – AB Cv		
kel-plated brass body		
EPDM (lubricated)		
PTFE		
NPT female ends		
EPDM (lubricated)		

Safety notes



Suitable actuators

Materials

Ball

Non-Spring

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

stainless steel

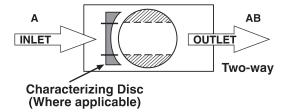
ARB(X) NRQB(X)

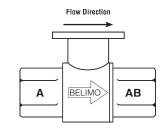
Product features

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.

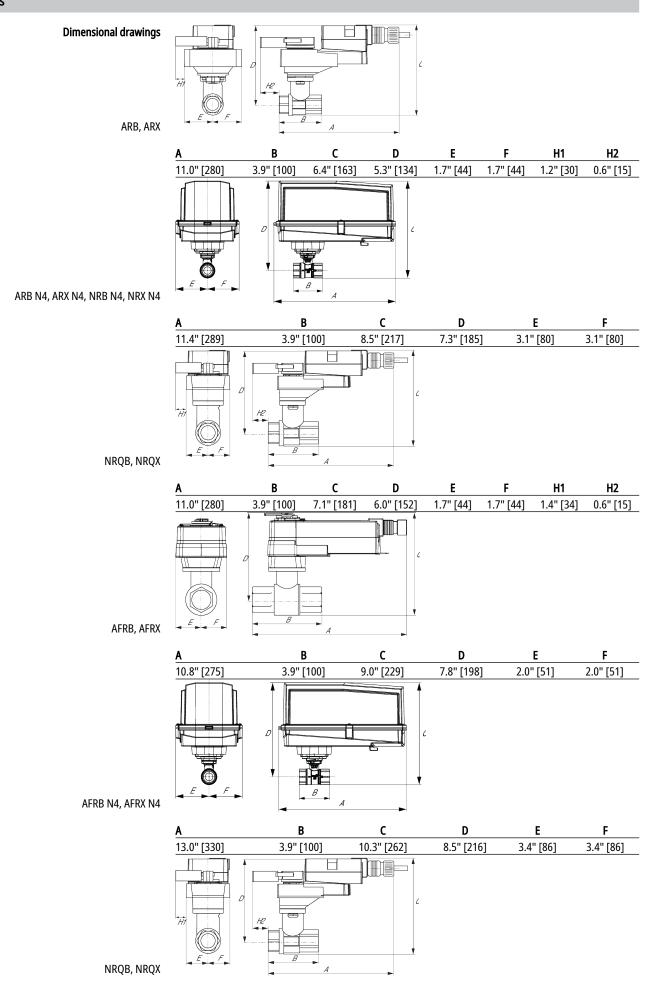
Flow/Mounting details



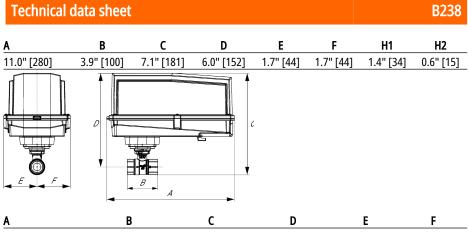




Dimensions







AFRB N4, AFRX N4

A	В	c	D	E	F
13.0" [330]	3.9" [100]	10.3" [262]	8.5" [216]	3.4" [86]	3.4" [86]



Technical data sheet AFRXUP-S



Nominal voltage	AC 24240 V / DC 24125 V	
_ 	50/60 Hz	
	7 W	
	3.5 W	
Transformer sizing	7 VA @ AC 24 V (class 2 power source), 8.5 VA @ AC 120 V, 18 VA @ AC 240 V	
Auxiliary switch	2 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, one set at 10°, one adjustable 1090°	
Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V	
Electrical Connection	(2) 18 GA appliance cables with 1/2" conduit connectors, 3 ft [1 m],	
Overload Protection	electronic throughout 095° rotation	
Direction of motion motor	selectable by ccw/cw mounting	
Direction of motion fail-safe	reversible with cw/ccw mounting	
Manual override	5 mm hex crank (3/16" Allen), supplied	
Angle of rotation	90°	
Running Time (Motor)	75 s	
Running time fail-safe	<20 s	
Noise level, motor	45 dB(A)	
Noise level, fail-safe	62 dB(A)	
Position indication	Mechanical	
Degree of protection IEC/EN	IP54	
Degree of protection NEMA/UL	NEMA 2 UL Enclosure Type 2	
Agency Listing cULus acc. to UL60730-1A/-2-14, CAN/ E60730-1:02, CE acc. to 2014/30/EU at EU; Listed to UL 2043 - suitable for use plenums per Section 300.22(c) of the I Section 602.2 of the IMC		
Quality Standard	ISO 9001	
Ambient temperature	-22122°F [-3050°C]	
Storage temperature	-40176°F [-4080°C]	
Ambient humidity	max. 95% r.H., non-condensing	
Servicing	maintenance-free	
	Auxiliary switch Switching capacity auxiliary switch Electrical Connection Overload Protection Direction of motion motor Direction of motion fail-safe Manual override Angle of rotation Running Time (Motor) Running time fail-safe Noise level, motor Noise level, fail-safe Position indication Degree of protection IEC/EN Degree of protection NEMA/UL Agency Listing Quality Standard Ambient temperature Storage temperature Ambient humidity	

Electrical installation





Technical data sheet AFRXUP-S

(UP) Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC. 1 Provide overload protection and disconnect as required.

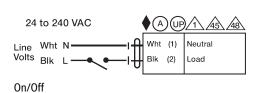
Actuators may be powered in parallel. Power consumption must be observed.

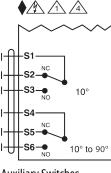
As Parallel wiring required for piggy-back applications.

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.





Auxiliary Switches