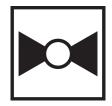






5-year warranty



Technical data

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Valve Size	2" [50]		
Fluid	chilled or hot water, up to 60% glycol		
Fluid Temp Range (water)	0250°F [-18120°C]		
Body Pressure Rating	400 psi		
Close-off pressure Δps	200 psi		
Flow characteristic	equal percentage		
Servicing	maintenance-free		
Flow Pattern	2-way		
Leakage rate	0% for A – AB		
Controllable flow range	75°		
Cv	240		
No Characterized Disc	TRUE		
Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv		
Valve body	Nickel-plated brass body		
Spindle	stainless steel		
Spindle seal	EDDM (lubricated)		

Materials

Valve body	Nickel-plated brass body		
Spindle	stainless steel		
Spindle seal	EPDM (lubricated)		
Seat	PTFE		
Characterized disc	No Disc (full flow)		
Pipe connection	NPT female ends		
O-ring	EPDM (lubricated)		
Ball	stainless steel		
Non-Spring	ARB(X)		
Spring	AFRB(X)		



Suitable actuators

• 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

Product features

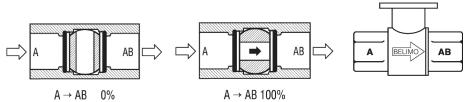
Safety notes

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 reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

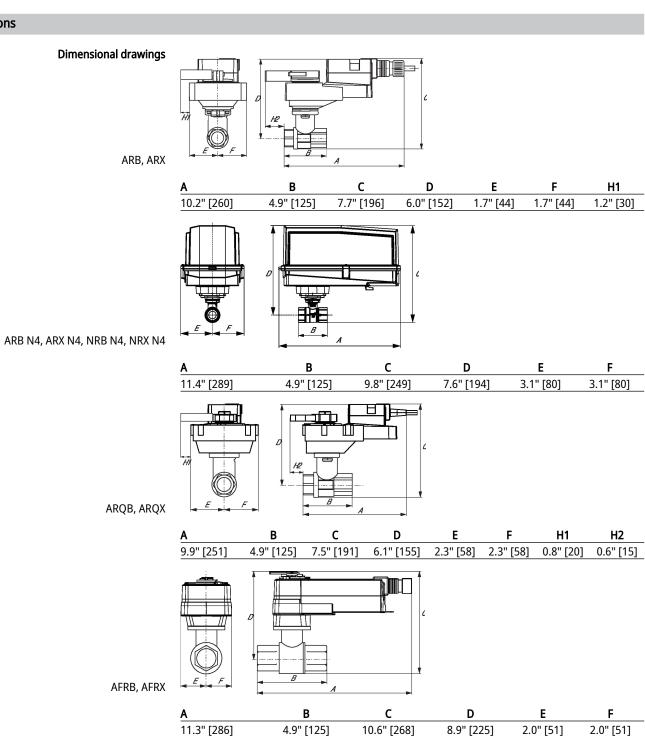


Flow/Mounting details

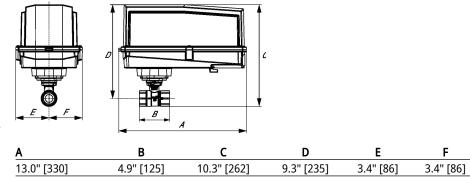


Two-way valves should be installed with the disc upstream.

Dimensions







AFRB N4, AFRX N4



Technical data			
Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	5 W	
	Power consumption in rest position	2.5 W	
	Power consumption for wire sizing	7.5 VA	
	Transformer sizing	7.5 VA (class 2 power source)	
	Electrical Connection	18 GA appliance cable, 3 ft [1 m], with 1/2" conduit connector	
	Overload Protection	electronic throughout 095° rotation	
Functional data	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	
Safety data	Degree of protection IEC/EN	IP54	
	Degree of protection NEMA/UL	NEMA 2	
	Enclosure	UL Enclosure Type 2	
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC	
	Quality Standard	ISO 9001	
	Ambient temperature	-22122°F [-3050°C]	
	Storage temperature	-40176°F [-4080°C]	

Electrical installation



X INSTALLATION NOTES

Ambient humidity

Servicing

(A) Actuators with appliance cables are numbered.

A Provide overload protection and disconnect as required.

Actuators may also be powered by DC 24 V.

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

Max. 95% RH, non-condensing

maintenance-free

A Parallel wiring required for piggy-back applications.



Technical data sheet AFRB24

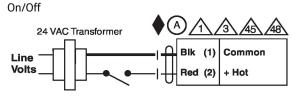


Meets cULus requirements without the need of an electrical ground connection.

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.

Wiring diagrams



Dimensions