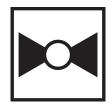






5-year warranty



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	85	
Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB	
	Cv	

Materials

Valve body	Nickel-plated brass body	
Spindle	stainless steel	
Spindle seal	EPDM (lubricated)	
Seat	PTFE	
Characterized disc	stainless steel	
Pipe connection	NPT female ends	
O-ring	EPDM (lubricated)	
Ball	stainless steel	
Non-Spring	ARB(X)	

Suitable actuators

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

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

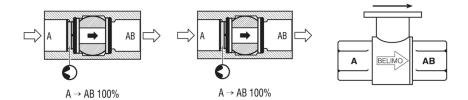
Product features

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

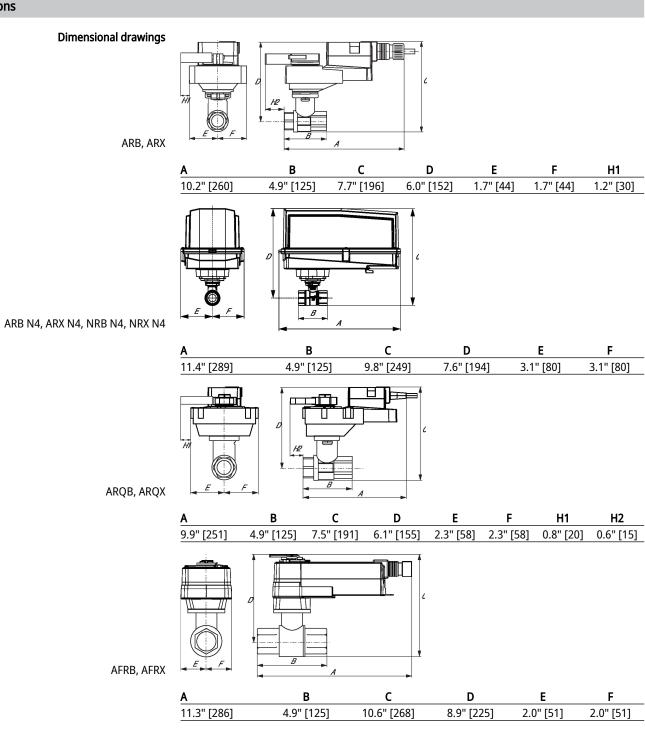


Flow/Mounting details



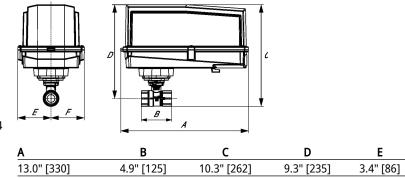
Two-way valves should be installed with the disc upstream.

Dimensions



3.4" [86]





AFRB N4, AFRX N4



On/Off, Floating Point, Non-Spring Return, AC 100...240 V







echnical data			
Electrical data	Nominal voltage	AC 100240 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	3 W	
	Power consumption in rest position	0.6 W	
	Transformer sizing	7 VA (class 2 power source)	
	Electrical Connection	18 GA appliance cable, 3ft [1m] 10ft [3m] and 16ft [5m], with 1/2" conduit connector, degree of protection NEMA 2 / IP54	
	Overload Protection	electronic thoughout 090° rotation	
Functional data	Direction of motion motor	selectable with switch 0/1	
	Manual override	external push button	
	Angle of rotation	90°	
	Angle of rotation note	adjustable with mechanical stop	
	Running Time (Motor)	90 s / 90°	
	Running time motor variable	90 or 150 s	
	Noise level, motor	45 dB(A)	
	Position indication	Mechanically, pluggable	
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]	
	Ambient humidity	Max. 95% RH, non-condensing	
	Servicing	maintenance-free	

Footnotes †Rated Impulse Voltage 4kV, Type of action 1, Control Pollution Degree 3.

Electrical installation



Housing material

Materials

Actuators with appliance cables are numbered.

A Provide overload protection and disconnect as required.

Galvanized steel and plastic housing

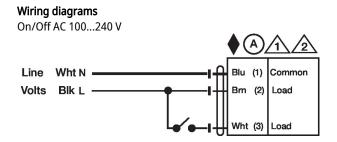
Actuators may be connected in parallel. Power consumption and input impedance must be

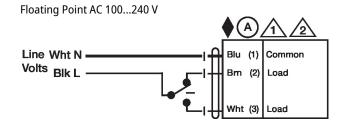


Meets cULus requirements without the need of an electrical ground connection.

/ 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.





Dimensions