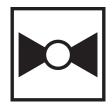






5-year warranty



Technical data

E.	ın	cti	or	lدر	А	ata

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	120
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)		

AFRB(X)



Spring

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

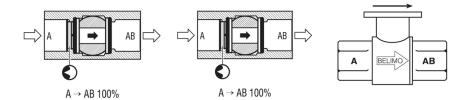
Safety notes

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.

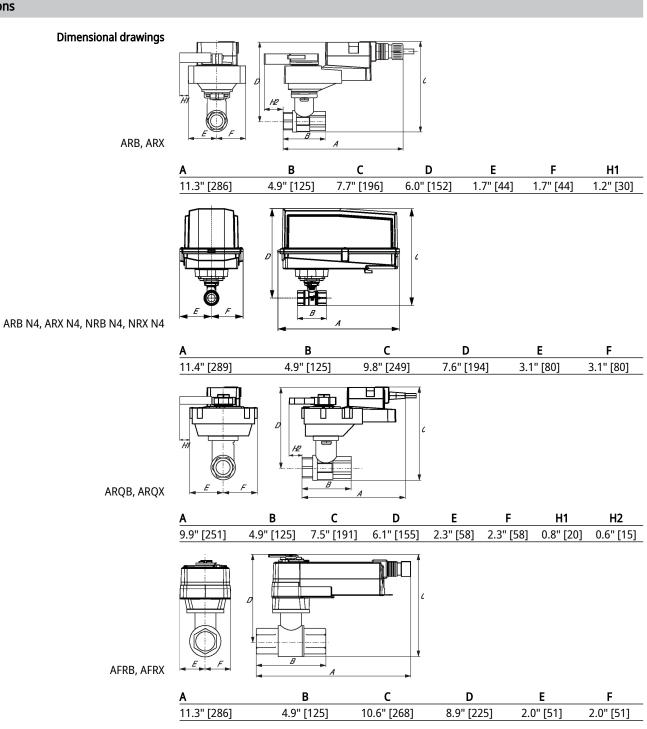


Flow/Mounting details

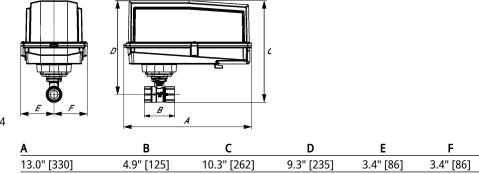


Two-way valves should be installed with the disc upstream.

Dimensions







AFRB N4, AFRX N4



Modulating, Non-Spring Return, 24 V, 0 to 20 **V** Phasecut







chnical data		
Electrical data	Nominal voltage	AC/DC 24 V
Lietti tai data	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	3.5 W
	Power consumption in rest position	1.3 W
	Transformer sizing	5.5 VA (class 2 power source)
	Electrical Connection	Cable with conduit connector
	Overload Protection	electronic thoughout 090° rotation
Franchis and data		
Functional data	Operating range Y	020 V PhC
	Operating range Y note	Phasecut control (PhC) is only for the positive
	Input Impedance	part of the sine wave (max. of 10 volts) $8000 \Omega (50mW)$
	Input Impedance Position feedback U	
		210 V
	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)	default 90 s, variable 90 or 150 s
	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
	rigericy Listing	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

Electrical installation



Housing material

Materials

INSTALLATION NOTES

Provide overload protection and disconnect as required.

UL94-5VA





Actuators may also be powered by DC 24 V.



6 Only connect common to negative (-) leg of control circuits.

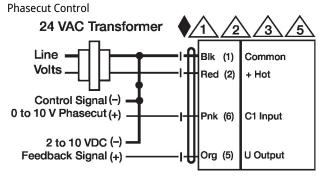
Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

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