

Technical data

	iona	

Valve Size	2.5" [65]		
Fluid	chilled or hot water, up to 60% glycol		
Fluid Temp Range (water)	0212°F [-18100°C]		
Body Pressure Rating	400 psi		
Close-off pressure Δps	100 psi		
Flow characteristic	equal percentage		
Servicing	maintenance-free		
Flow Pattern	2-way		
Leakage rate	0% for A – AB		
Controllable flow range	75°		
Cv	150		
Body pressure rating note	400 psi		
Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv		
Valve body	Nickel-plated brass body		
Stem seal	EPDM (lubricated)		
Seat	PTFE		

Materials

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

Suitable actuators

Safety notes



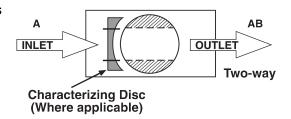
 WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

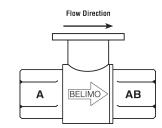
Product features

Application

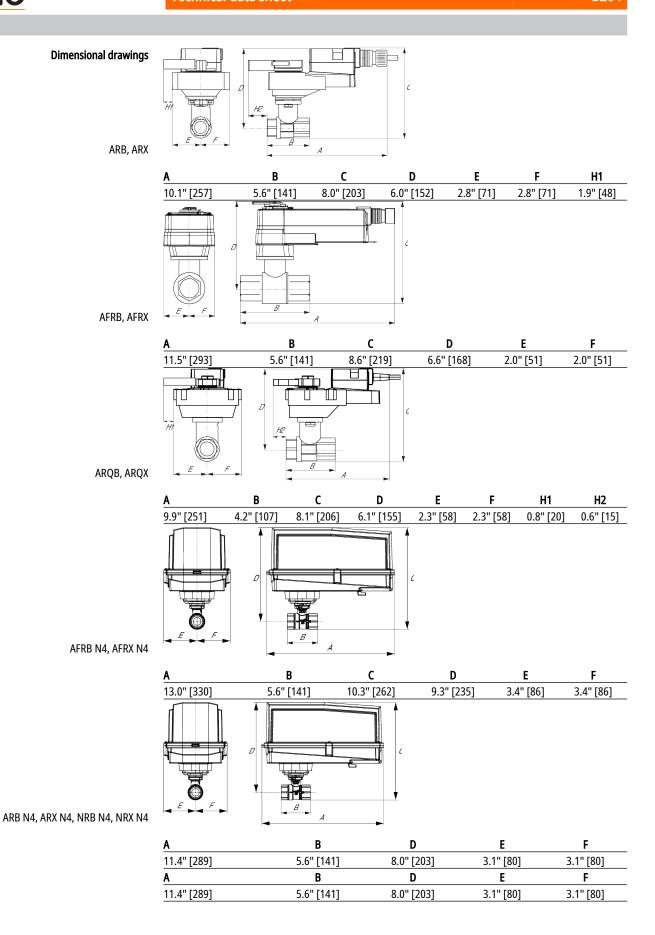
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

Flow/Mounting details











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







Technical data				
	Electrical data	Nominal voltage	AC/DC 24 V	
		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	
	Functional data	Operating range Y	020 V PhC	
		Operating range Y note	Phasecut control (PhC) is only for the positive part of the sine wave (max. of 10 volts)	
		Input Impedance	8000 Ω (50mW)	
		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		
	Safety data	Noise level, motor	45 dB(A)	
		Position indication	Mechanically, pluggable	
		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/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% r.H., non-condensing	
		Servicing	maintenance-free	
	Weight	Weight	2.2 lb [1.0 kg]	
	Materials	Housing material	UL94-5VA	

Safety notes



Technical data sheet ARX24-PC



- NEMA 4X, 316L stainless steel enclosure.
- Battery Back Up System for SY(7~10)-110
- ZS-300 without brackets.
- NEMA 4X, 304 stainless steel enclosure.
- MFT95 resistor kit for 4 to 20 mA control applications.

Electrical installation

> INSTALLATION NOTES

1 Provide overload protection and disconnect as required.

Actuators may also be powered by 24 VDC.

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

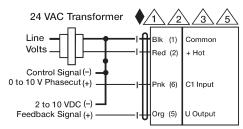
Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.



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.



Phasecut Control