



5-year warranty



Type overview

Туре	DN
B231	32

BERLIN

Technical data

Functional data	Valve size	1.25" [32]			
	Fluid	chilled or hot water, up to 60% glycol			
	Fluid Temp Range (water)	0250°F [-18120°C]			
	Body Pressure Rating	400 psi 200 psi equal percentage			
	Close-off pressure Δps				
	Flow characteristic				
	Servicing	maintenance-free			
	Flow Pattern	2-way			
	Leakage rate	0% for A – AB			
	Controllable flow range	75°			
	Cv	25			
	Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv			
Materials	Valve body	Nickel-plated brass body			
	Stem	stainless steel			
	Stem seal	EPDM (lubricated)			
	Seat	PTFE TEFZEL®			
	Characterized disc				
	Pipe connection	NPT female ends			
	O-ring	EPDM (lubricated)			
	Ball	stainless steel			
Suitable actuators	Non-Spring	ARB(X) NRQB(X)			
	Spring	AFRB(X)			

Safety notes



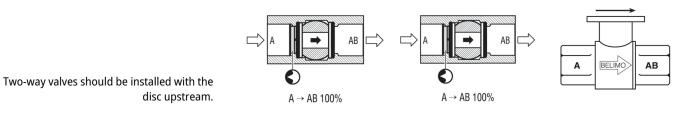
• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov



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

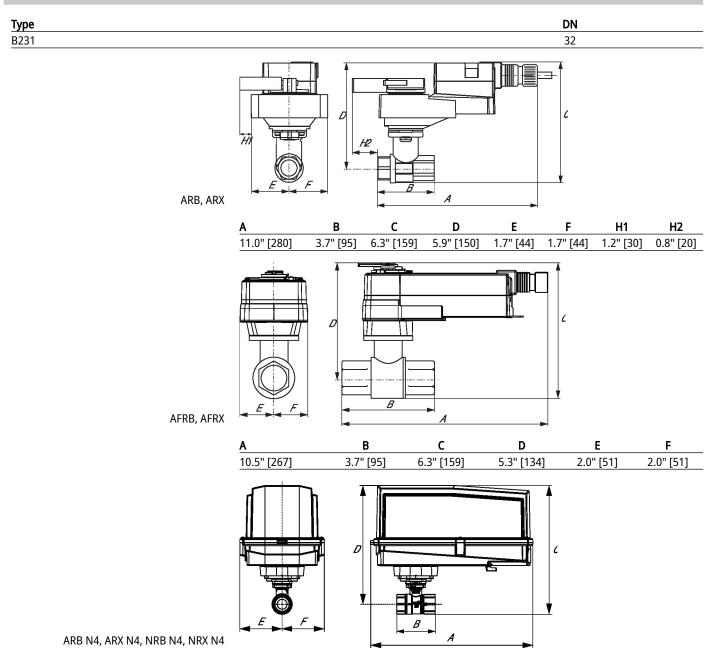


Product features

Mode of operation

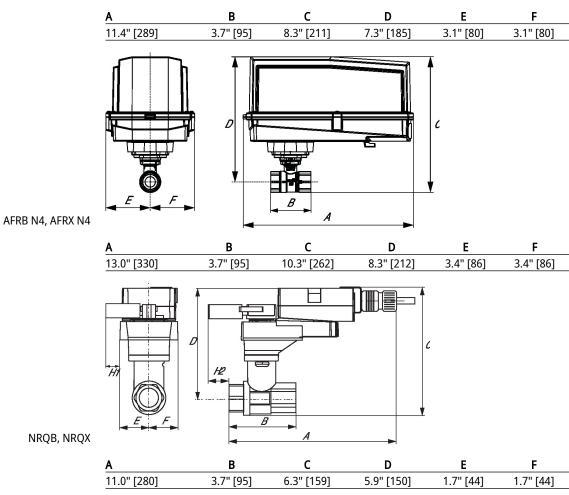
tion Local Control SY2~12, 110vac Mod

Dimensions





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Technical data sheet

AFRX24 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				
	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 / 90°				
	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	IP66				
	Degree of protection NEMA/UL	NEMA 4X				
	Enclosure	UL Enclosure Type 4X				
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU				
	Quality Standard	ISO 9001				
	Ambient temperature	-22122°F [-3050°C]				
	Ambient temperature note	-4050°C for actuator with integrated heating				
	Storage temperature	-40176°F [-4080°C]				
	Ambient humidity	Max. 100% RH				
	Servicing	maintenance-free				
Materials	Housing material	Die cast aluminium and plastic casing				

Footnotes †Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3

Electrical installation

Actuators with appliance cables are numbered.

A Provide overload protection and disconnect as required.



Technical data sheet

Actuators may also be powered by DC 24 V.

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

A Parallel wiring required for piggy-back applications.

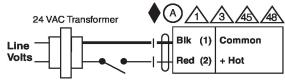
Meets cULus requirements without the need of an electrical ground connection.

Marning! 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