

5-year warranty



Technical data

| Functional data | 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 ∆ps | 100 psi |
| | Flow characteristic | equal percentage |
| | Servicing | maintenance-free |
| | Flow Pattern | 2-way |
| | Leakage rate | 0% for A – AB |
| | Controllable flow range | 75° |
| | Cv | 110 |
| | Body pressure rating note | 400 psi |
| | Cv Flow Rating | A-port: as stated in chart B-port: 70% of A – AB Cv |
| Materials | Valve body | Nickel-plated brass body |
| | Stem seal | EPDM (lubricated) |
| | Seat | PTFE |
| | Pipe connection | NPT female ends |
| | O-ring | EPDM (lubricated) |
| | Ball | stainless steel |
| Suitable actuators | Non-Spring | ARB(X) |

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Safety notes



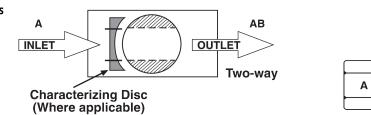
• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

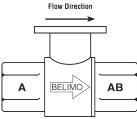
Product features

Application

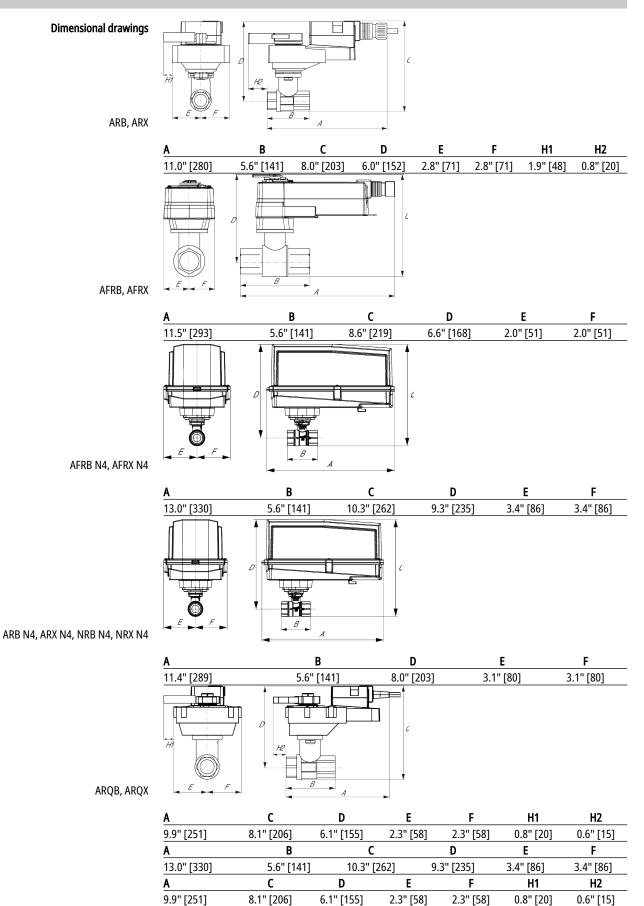
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

Flow/Mounting details











Technical data sheet

AFRB24-S



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) |
| | Auxiliary switch | 2 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, one set at 10°, one adjustable 1090° |
| | Switching capacity auxiliary switch | 3 A resistive (0.5 A inductive) @ AC 250 V |
| | Electrical Connection | (2) 18 GA appliance cables with 1/2" conduit connectors, 3 ft [1 m], |
| | 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 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 | 5.7 lb [2.6 kg] |

Electrical installation

Actuators with appliance cables are numbered. Provide overload protection and disconnect as required.

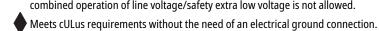


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4 Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc. As Actuators may be powered in parallel. Power consumption must be observed.

A Parallel wiring required for piggy-back applications.

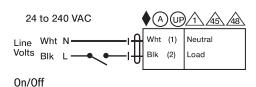
Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.

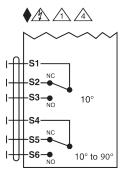


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Warning! Live Electrical Components!

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.





Auxiliary Switches