









Technical data

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|-----|------|------|---|-----|
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| I U | 1111 | viia | · | ala |

| 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 | A-port equal percentage, B-port modified for constant common port flow | |
| Servicing | maintenance-free | |
| Flow Pattern | 3-way Mixing/Diverting | |
| Leakage rate | 0% for A – AB, <2.0% for B – AB | |
| Controllable flow range | 75° | |
| Cv | 46 | |
| 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 | |
| Pipe connection | NPT female ends | |
| O-ring | EPDM (lubricated) | |
| Ball | stainless steel | |
| Non-Spring | ARB(X) | |

Safety notes



Suitable actuators

Materials

• 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

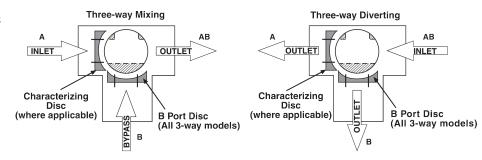
Product features

Application

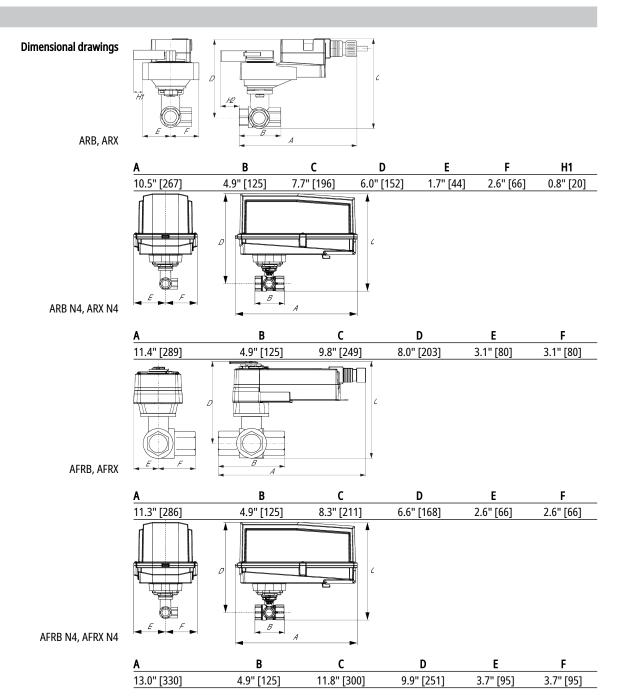
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.



Flow/Mounting details



Dimensions





On/Off, Floating Point, Non-Spring Return, 24 V







| echnical data | | | |
|-----------------|------------------------------------|---|--|
| Electrical data | Nominal voltage | AC/DC 24 V | |
| | Nominal voltage frequency | 50/60 Hz | |
| | Power consumption in operation | 2.5 W | |
| | Power consumption in rest position | 0.5 W | |
| | Transformer sizing | 5.5 VA (class 2 power source) | |
| | Electrical Connection | 18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector | |
| | Overload Protection | electronic thoughout 090° rotation | |
| Functional data | Input Impedance | 600 Ω | |
| | 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 | |
| | 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 UL Enclosure Type 2 | |
| | Agency Listing | cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU | |
| | 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 | |
| | | | |

Safety notes



- 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

Provide overload protection and disconnect as required.

Actuators may also be powered by 24 VDC.



Technical data sheet ARB24-3

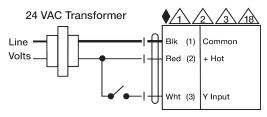
Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.

Actuators with plenum cable do not have numbers; use color codes instead.

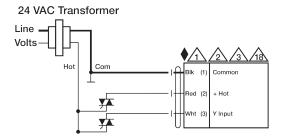
Meets cULus requirements without the need of an electrical ground connection.

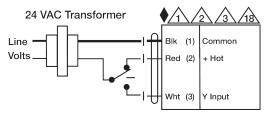
Warning! Live Electrical Components!

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.

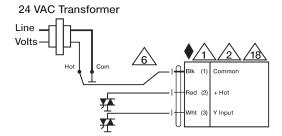


On/Off





Floating Point



Floating Point - Triac Sink

Dimensions

Dimensional drawings

