





Type overview

| Туре | DN |
|------|----|
| B330 | 32 |

Technical data

| Functional data | Valve size [mm] | 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 | |
| | Close-off pressure ∆ps | 200 psi | |
| | Flow | A-port: as stated in chart B-port: 70% of A – AB Cv | |
| | 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 | 19 | |
| Materials | Valve body | Nickel-plated brass body | |
| | Stem | stainless steel | |
| | Stem seal | EPDM (lubricated) | |
| | Seat | PTFE | |
| | Characterized disc | TEFZEL® | |
| | Pipe connection | NPT | |
| | O-ring | EPDM (lubricated) | |
| | Ball | stainless steel | |
| Suitable actuators | Non-Spring | ARB(X) | |
| | Spring | AF | |
| | | | |

Safety notes

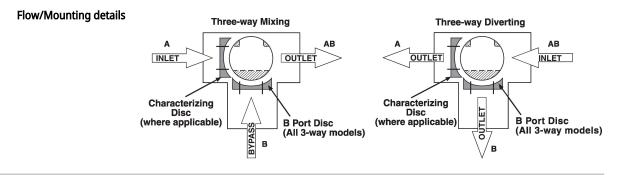


• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

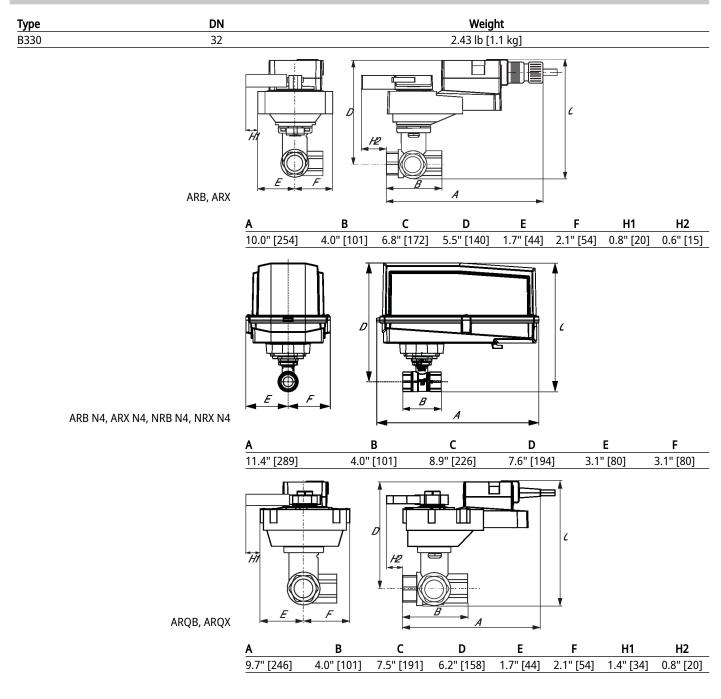


Application

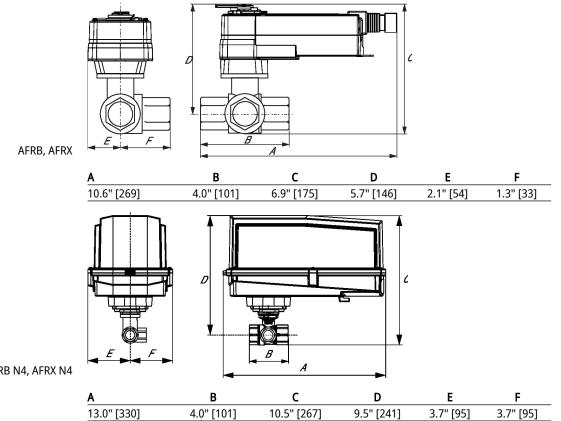
n This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.



Dimensions







AFRB N4, AFRX N4



Technical data sheet

ARB24-SR-T

Modulating, Non-Spring Return, 24 V, for DC 2...10 V or 4...20 mA





Technical 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 | 0.4 W | |
| | Power consumption for wire sizing | 5 VA | |
| | Transformer sizing | 5 VA (class 2 power source) | |
| | Electrical Connection | Terminal blocks | |
| | Overload Protection | electronic thoughout 090° rotation | |
| Functional data | Operating range Y | 210 V | |
| | Operating range Y note | 420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor) | |
| | Input Impedance | 100 k Ω for 210 V (0.1 mA), 500 Ω for 420 mA | |
| | Position feedback U | 210 V | |
| | Position feedback U note | Max. 1 mA | |
| | 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 / 90° | |
| | 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 E60730-1:02, CE acc. to 2014/30/EU Listed to UL 2043 - suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 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 | |
| Materials | Housing material | Galvanized steel and plastic housing | |

Footnotes TRated Impulse Voltage 800V, Type of Action 1, Control Pollution Degree 2.



| Electrical accesso | ies Description | | Туре | |
|--|--|---|---------------------------|--|
| | Battery backup system, for non- | spring return models | NSV24 US | |
| | Battery, 12 V, 1.2 Ah (two requir | ed) | NSV-BAT | |
| Electrical installation | | | | |
| | INSTALLATION NOTES | | | |
| | Actuators may be connected in observed. | parallel. Power consumption and | d input impedance must be | |
| | Actuators may also be powered | | | |
| | Only connect common to negat | | | |
| | | A 500 Ω resistor (ZG-R01) converts the 420 mA control signal to 210 V. | | |
| | | Actuators are provided with a numbered screw terminal strip instead of a cable. | | |
| | Meets cULus requirements with | nout the need of an electrical gro | ound connection. | |
| | Warning! Live electrical compor | ients! | | |
| | During installation, testing, servicing and troubleshooting of this product, it may be necessar to work with live electrical components. Have a qualified licensed electrician or other individu 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 210 V / 420 mA Control | | | | |
| 24 VAC Transformer | 2 3 5 16 | | | |
| | | | | |

