

| Type overview | |
|---------------|----|
| Туре | DN |
| B330 | 32 |

Technical data

| Functional data | Valve size [mm] | 1.25" [32] |
|-----------------|-----------------|------------|
| | | |

| vaive size [iiiiii] | 1.23 [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 Δps | 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 | |
| W.L. 1. 1. | API I I I I I I I | |

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 | |
| Non-Spring | ARB(X) | |
| | | |

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

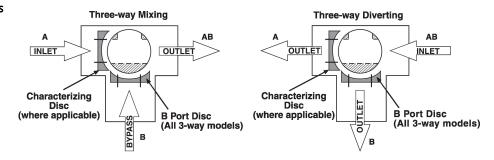


Product features

Application

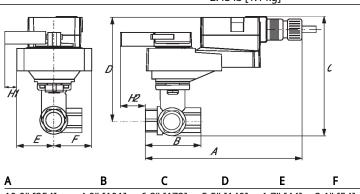
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.

Flow/Mounting details

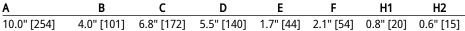


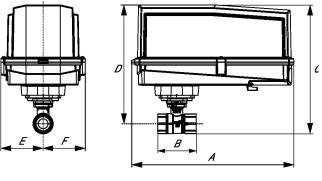
Dimensions

| Туре | DN | Weight |
|------|----|------------------|
| B330 | 32 | 2.43 lb [1.1 kg] |



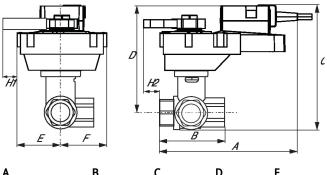
ARB, ARX





ARB N4, ARX N4, NRB N4, NRX N4

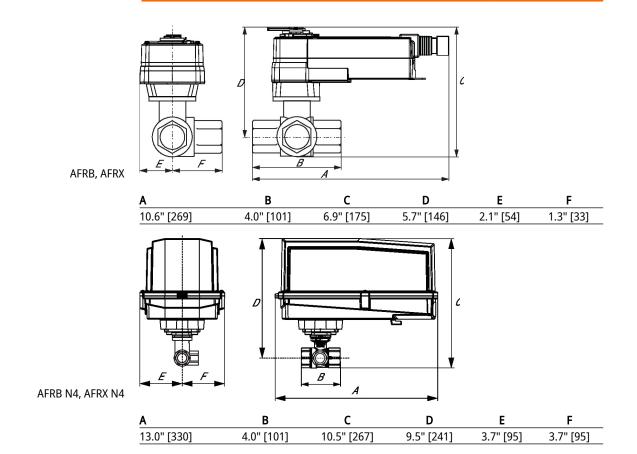
| Α | В | С | D | E | F |
|-------------|------------|------------|------------|-----------|-----------|
| 11.4" [289] | 4.0" [101] | 8.9" [226] | 7.6" [194] | 3.1" [80] | 3.1" [80] |



ARQB, ARQX

| Α | В | C | D | E | F | H1 | H2 |
|------------|------------|------------|------------|-----------|-----------|-----------|-----------|
| 9.7" [246] | 4.0" [101] | 7.5" [191] | 6.2" [158] | 1.7" [44] | 2.1" [54] | 1.4" [34] | 0.8" [20] |











| echnical data | | |
|-----------------|------------------------------------|--|
| Electrical data | Nominal voltage | AC/DC 24 V |
| Electrical data | Nominal voltage frequency | 50/60 Hz |
| | Nominal voltage range | AC 19.228.8 V / DC 21.628.8 V |
| | Power consumption in operation | 2.5 W |
| | Power consumption in rest position | 0.5 W |
| | Transformer sizing | 5.5 VA |
| | Electrical Connection | 18 GA plenum cable with 1/2" conduit connector, degree of protection NEMA 2 / IP54 1 m 3 m and 5 m |
| | Overload Protection | electronic thoughout 090° rotation |
| Functional data | 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° |
| | Running time motor variable | 90 or 150 s |
| | Noise level, motor | 45 dB(A) |
| | Position indication | Mechanically, pluggable |
| Safety data | Power source UL | Class 2 Supply |
| | 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 and 2014/35/EU |
| | Quality Standard | ISO 9001 |
| | UL 2043 Compliant | Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC |
| | Ambient humidity | Max. 95% RH, non-condensing |
| | Ambient temperature | -22122°F [-3050°C] |
| | Storage temperature | -40176°F [-4080°C] |
| | Servicing | maintenance-free |
| Weight | Weight | 2.2 lb [1.0 kg] |

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

Materials

Housing material

Galvanized steel and plastic housing



Accessories

Electrical accessories Description Type Battery backup system, for non-spring return models NSV24 US Battery, 12 V, 1.2 Ah (two required) NSV-BAT

Electrical installation

X INSTALLATION NOTES

A Provide overload protection and disconnect as required.

Actuators may be connected in parallel. Power consumption and input impedance must be observed.

Actuators may also be powered by DC 24 V.

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.

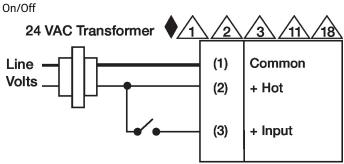
Actuators with plenum cable do not have numbers; use color codes instead.

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

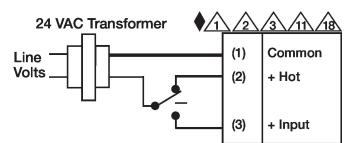
Warning! Live electrical components!

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.

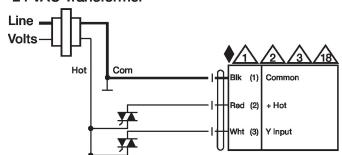
Wiring diagrams



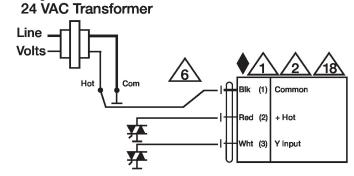
Floating Point



24 VAC Transformer



Floating Point - Triac Sink





Dimensions

