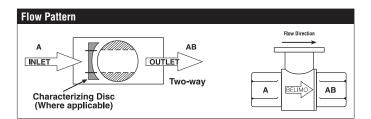
B231, 2-Way, Characterized Control Valve Stainless Steel Ball and Stem





| WARRANTY |
|----------|

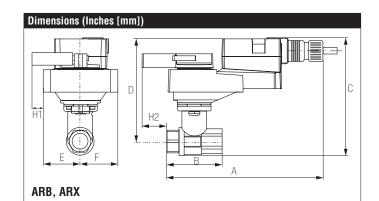
| Technical Data | |
|------------------------------------|--------------------------------------|
| Service | chilled, hot water, up to 60% glycol |
| Flow Characteristic | equal percentage |
| Controllable Flow Range | 75° |
| Size [mm] | 1.25" [32] |
| End Fitting | NPT female ends |
| Body | forged brass, nickel plated |
| Ball | stainless steel |
| Stem | stainless steel |
| Stem Packing | EPDM (lubricated) |
| Seat | Teflon® PTFE |
| Seat O-ring | EPDM (lubricated) |
| Characterized Disc | TEFZEL® |
| Body Pressure Rating [psi] | 400 |
| Media Temperature Range (Water) | 0°F to 250°F [-18°C to 120°C] |
| Max Differential Pressure (Water) | 50 psi (345 kPa) |
| Close-Off Pressure | 200 psi |
| Cv | 25 |
| Weight | 1.5 lb [0.7 kg] |
| Leakage | 0% for A to AB |
| Servicing | maintenance free |



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.

| | Suitable Actua | tors |
|------|-----------------|---------|
| | Non-Spring | Spring |
| B231 | ARB(X), NRQB(X) | AFRB(X) |

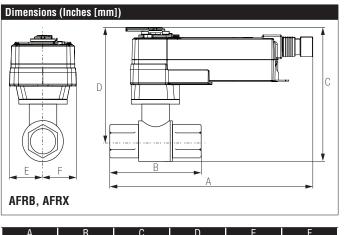


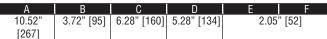
| A | В | C | D | E | F | H1 | H2 |
|-------|-------|-------|-------|------|--------|-------|-------|
| 11" | 3.72" | 6.28" | 5.91" | 1.73 | " [44] | 1.18" | 0.75" |
| [279] | [95] | [160] | [150] | | | [30] | [20] |

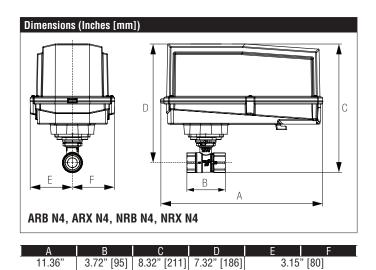


[289]

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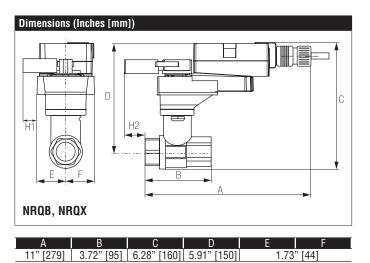






| Dimensions (Inches [mm | |
|------------------------|--|
| AFRB N4, AFRX N4 | |

| A | В | С | D | E | F |
|--------|------------|--------|-------------|------|--------|
| 12.98" | 3.72" [95] | 10.29" | 8.35" [212] | 3.39 | " [86] |
| [330] | | [261] | | | |









| 1 VAC, ±20%, 50/60 Hz, 24 VDC, ±10% 5 W 5 W 5 VA (class 2 power source) rminal block |
|--|
| 5 W 5 VA (class 2 power source) rminal block |
| 5 VA (class 2 power source) rminal block |
| rminal block |
| |
| |
| ectronic thoughout 0° to 90° rotation |
| Ω 00 |
| ٥ |
| versible with built-in switch |
| vinter |
| ider cover |
|) sec (default), Optional (90 or 150 sec) |
| 2°F to 122°F [-30°C to 50°C] |
| 0°F to 176°F [-40°C to 80°C] |
| EMA 4X, IP66/67, UL Enclosure Type 4 |
| JLus acc. to UL60730-1A/-2-14, CAN/CSA 60730-1:02, CE acc. to 2004/108/EC and 106/95/EC |
| 15 dB (A) |
| aintenance free |
| 0 9001 |
| |

†Rated Impulse Voltage 800V, Type of action 1, Control Pollution Degree 4.



Wiring Diagrams

🔀 INSTALLATION NOTES

Provide overload protection and disconnect as required.

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

Actua

/2

Actuators may also be powered by 24 VDC.

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 are provided with a numbered screw terminal strip instead of a cable.

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.

