B316B, 3-Way, Characterized Control Valve Chrome Plated Brass Ball and Nickel Plated Brass Stem

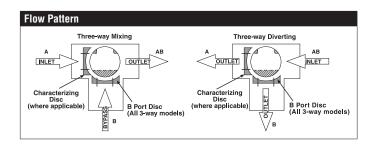






| X | WARRANTY |
|---|----------|
| | WARRANTY |

| Technical Data | |
|-----------------------------------|--|
| Service | chilled, hot water, up to 60% glycol |
| Flow Characteristic | A-port Equal percentage; B-port modified |
| | linear for constant flow |
| Controllable Flow Range | 75° |
| Size [mm] | 0.5" [15] |
| End Fitting | npt female ends |
| Body | forged brass, nickel plated |
| Ball | chrome plated brass |
| Stem | nickel plated brass |
| Stem Packing | EPDM (lubricated) |
| Seat | Teflon® PTFE |
| Seat O-ring | EPDM (lubricated) |
| Characterized Disc | No Disc (full flow) |
| Body Pressure Rating [psi] | 600 |
| Media Temperature Range | 0°F to 250°F [-18°C to 120°C] |
| (Water) | |
| Max Differential Pressure (Water) | 50 psi (345 kPa) |
| Close-Off Pressure | 200 psi |
| Cv | 16 |
| Weight | 0.7 lb [0.3 kg] |
| Leakage | 0% for A to AB, <2.0% for B to AB |
| Servicing | maintenance free |

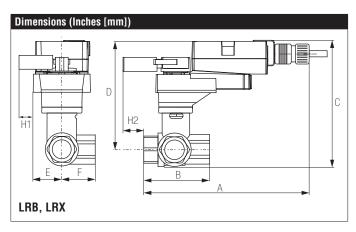


Application

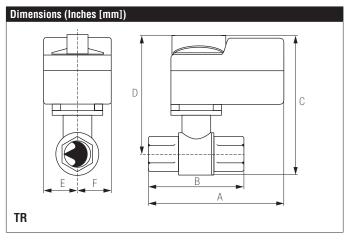
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.

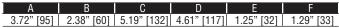
Suitable Actuators

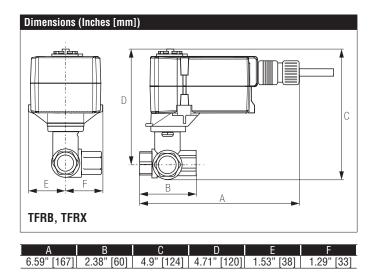
| | Non-Spring | Spring |
|-------|------------|---------|
| B316B | TR, LR, NR | TFR, LF |

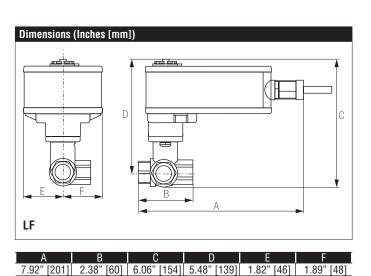


| Α | В | С | D | Е | F | H1 | H2 |
|-------|-------|-------|----------|------|------|-------|-----------|
| 8.5" | 2.38" | 5.19" | 5" [127] | 1.3" | [33] | 1.18" | 1.1" [28] |
| [216] | [60] | [132] | | | | [30] | |









LF24-3 US, Valve Actuator Floating Point, Spring Return, 24 V







| 24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10% |
|---|
| 2.5 W |
| 1 W |
| 5 VA (class 2 power source) |
| 3ft [1m], 18 GA appliance cable with 1/2" conduit connector |
| electronic throughout 0° to 95° rotation |
| floating point |
| 1000 Ω (0.6 W) |
| No Feedback |
| 90° |
| reversible with built-in switch |
| reversible with CW/CCW mounting |
| visual indicator, 0° to 95° (0° is full spring return position) |
| 150 sec |
| <25 sec @ -4°F to 122°F [-20°C to 50°C], <60 sec @ -22°F [-30°C] |
| -22°F to 122°F [-30°C to 50°C] |
| -40°F to 176°F [-40°C to 80°C] |
| NEMA 2, IP54 |
| cULus acc. To UL 873 and CAN/CSA C22.2 No. 24-93 |
| <50 dB (A) |
| <62 dB (A) |
| maintenance free |
| ISO 9001 |
| |

†Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3





Wiring Diagrams



X INSTALLATION NOTES



Actuators with appliance cables are numbered.



Provide overload protection and disconnect as required.



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 may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.



Meets cULus requirements without the need of an electrical ground



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.

