Date created, 10/27/2017 - Subject to change. © Belimo Aircontrols (USA), Inc.

B325, **3-Way**, **Characterized Control Valve** Stainless Steel Ball and Stem

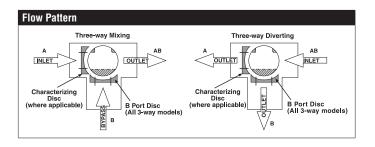








| Technical Data | |
|-----------------------------------|--|
| Service | chilled, hot water, up to 60% glycol |
| Flow Characteristic | A-port equal percentage, B-port modified |
| | for constant common port flow |
| Controllable Flow Range | 75° |
| Size [mm] | 1" [25] |
| End Fitting | NPT female 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] | 600 |
| Media Temperature Range | 0°F to 250°F [-18°C to 120°C] |
| (Water) | FO ==: (04F L-D=) |
| Max Differential Pressure (Water) | 50 psi (345 kPa) |
| Close-Off Pressure | 200 psi |
| Cv | 30 |
| Weight | 1.3 lb [0.6 kg] |
| Leakage | 0% for A to AB, <2.0% for B to AB |
| Servicing | maintenance free |

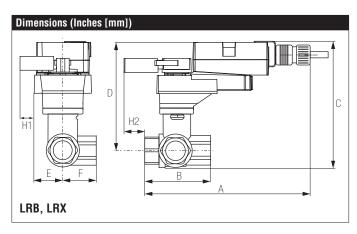


Application

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

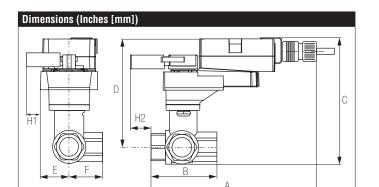
| | Non-Spring | Spring |
|------|------------|--------|
| B325 | LR, NRB(X) | LF |



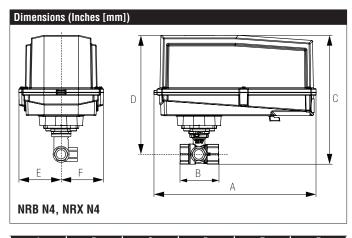
| Α | В | C | D | E | F | H1 | H2 |
|-------|-------|----------|-------|------|-------|-------|-----------|
| 8.5" | 3.07" | 6" [150] | 5.09" | 1.3" | 1.59" | 1.18" | 0.9" [23] |
| [216] | [78] | | [129] | [33] | [40] | [30] | |

LRB, LRX

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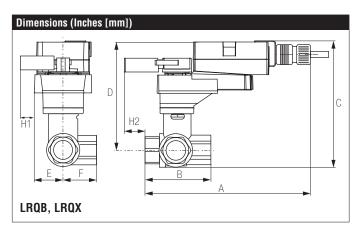


| Α | В | С | D | E | F | H1 | H2 |
|-------|-------|-------|-------|------|------|-------|-----------|
| 9.4" | 3.07" | 7.25" | 6.31" | 1.3" | [33] | 1.18" | 0.9" [23] |
| [239] | [78] | [184] | [160] | | | [30] | |

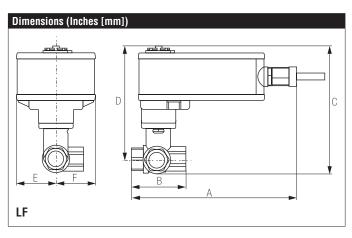


7.85" [199] 7.15" [181]

[289]



| Α | В | С | D | E | F | H1 | H2 |
|-------|-------|-------|-------|------|--------|-------|---------|
| 8.9" | 3.07" | 6.64" | 5.64" | 1.58 | " [40] | 1.18" | 1" [25] |
| [226] | [78] | [169] | [143] | | | [30] | |



| Α | В | C | D | E F |
|-------------|------------|------------|-------------|------------|
| 8.12" [206] | 3.07" [78] | 6.5" [165] | 5.57" [141] | 1.89" [48] |

LRQX24-1 On/Off, Non-Spring Return, 24 V





| 24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10% |
|--|
| 13 W |
| 1.5 W |
| 23 VA (class 2 power source) (I max |
| 20A@5ms) |
| 18 GA plenum rated cable with 1/2" conduit |
| connector protected NEMA 2 (IP54) 3ft [1m] |
| 10ft [3m] and 16ft [5m] |
| electronic thoughout 0° to 90° rotation |
| actuators are double insulated |
| on/off |
| 1000 Ω |
| 90° |
| reversible with built-in switch |
| integrated into handle |
| external push button |
| -22°F to 122°F [-30°C to 50°C] |
| -40°F to 176°F [-40°C to 80°C] |
| NEMA 2, IP42, UL Enclosure Type 2 |
| cULus acc. to UL60730-1A/-2-14, CAN/CSA |
| E60730-1:02, CE acc. to 2004/108/EC |
| max. 52 dB (A) |
| maintenance free |
| ISO 9001 |
| |







Wiring Diagrams



X INSTALLATION NOTES



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 24 VDC.



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.

