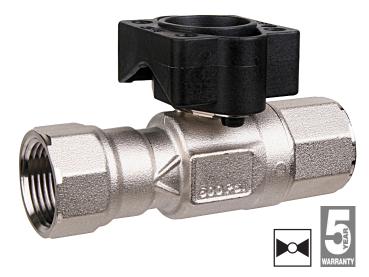
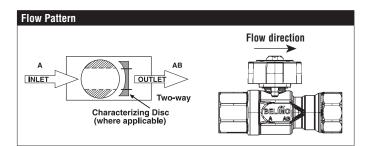
B225HT731, 1", High Temperature CCV Stainless Steel Ball and Stem





| Technical Data | | | | |
|--|---|--|--|--|
| Service | high temperature hot water/low pressure | | | |
| | steam, up to 60% glycol | | | |
| Flow Characteristic | A-port equal percentage | | | |
| Controllable Flow Range | 75° | | | |
| Size [mm] | 1" [25] | | | |
| End Fitting | NPT female ends | | | |
| Body | nickel plated brass (DZR) P-CuZn35Pb2 | | | |
| Ball | stainless steel | | | |
| Stem | stainless steel | | | |
| Stem Packing | Vition O-ring | | | |
| Seat | ETFE | | | |
| Seat O-ring | EPDM (lubricated) | | | |
| Characterized Disc | ETFE | | | |
| Body Pressure Rating [psi] | 600 | | | |
| Max Inlet Pressure (Steam) | 15 psi | | | |
| Media Temperature Range (Water) | 60°F to 266°F [16°C to 130°C] | | | |
| Media Temperature Range (Steam) | 250°F [120°C] | | | |
| Maximum Differential Pressure (Steam) | 15 psi | | | |
| Max Differential Pressure (Water) | 60 psi partially open ball, 116 psi full open | | | |
| Close-Off Pressure | 200 psi | | | |
| Cv | 7.31 | | | |
| Weight | 1.8 lb [0.8 kg] | | | |
| Leakage | 0% | | | |
| Servicing | maintenance free | | | |
| | | | | |



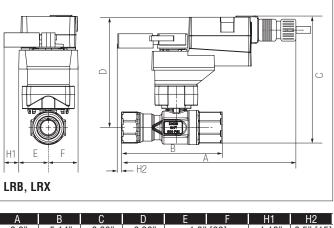
Application

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.

This valve is designed to fit in compact areas where on/off, floating point and modulating control is required using 24 VAC.

| Suitable Actuators | | | | | |
|--------------------|------------|--------|--|--|--|
| | Non-Spring | Spring | | | |
| B225HT731 | LR | LF | | | |

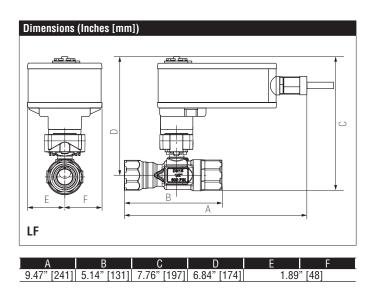
Dimensions (Inches [mm])



| A | В | C | D | E | F | H1 | H2 |
|-------|-------|-------|-------|------|------|-------|-----------|
| 8.6" | 5.14" | 6.89" | 6.36" | 1.3" | [33] | 1.18" | 0.5" [15] |
| [218] | [131] | [175] | [162] | | | [30] | |
| | | | | | | | |



B225HT731, 1", High Temperature CCV Stainless Steel Ball and Stem





LRX24-MFT

Modulating, Non-Spring Return, 24 V, Multi-Function Technology®



| Technical Data | | | |
|-------------------------------|---|--|--|
| Power Supply | 24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10% | | |
| Power Consumption Running | 2.5 W | | |
| Power Consumption Holding | 1.2 W | | |
| Transformer Sizing | 5 VA (class 2 power source) | | |
| Electrical Connection | 18 GA plenum rated cable with 1/2" conduit connector protected NEMA 2 (IP54) 3ft [1m] 10 ft [3m] and 16 ft [5m] | | |
| Overload Protection | electronic thoughout 0° to 90° rotation | | |
| Operating Range Y | 2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 Ω, 1/4 W resistor), variable (VDC, floating point, on/off) | | |
| Input Impedance | 100 k Ω for 2 to 10 VDC (0.1 mA), 500 Ω for 4 to 20 mA, 1500 Ω for PWM and on/off | | |
| Feedback Output U | 2 to 10 VDC, 0.5 mA max, VDC variable | | |
| Angle of Rotation | 90° | | |
| Direction of Rotation (Motor) | reversible with built-in switch | | |
| Position Indication | integrated into handle | | |
| Manual Override | external push button | | |
| Running Time (Motor) | 150 sec (default), variable (35 to 150 sec) | | |
| Ambient Temperature Range | -22°F to 122°F [-30°C to 50°C] | | |
| Storage Temperature Range | -40°F to 176°F [-40°C to 80°C] | | |
| Housing | NEMA 2, IP42, UL enclosure type 2 | | |
| Agency Listings† | CULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC | | |
| Noise Level (Motor) | <35 dB (A) | | |
| Servicing | maintenance free | | |
| Quality Standard | ISO 9001 | | |

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





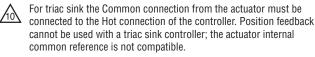


Provide overload protection and disconnect as required.

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

- Actuators may also be powered by 24 VDC.
- Only connect common to negative (-) leg of control circuits.
- A 500 Ω resistor (ZG-R01) converts the 4 to 20 mA control signal to 2 to 10 VDC.

Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 VAC line.



IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).

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.

