

Type overview

| Туре | DN |
|------|----|
| B213 | 15 |
| | 15 |

Technical data

| Functional data | Valve size [mm] | 0.5" [15] | |
|--------------------|--------------------------|--|--|
| | Fluid | chilled or hot water, up to 60% glycol | |
| | Fluid Temp Range (water) | 0250°F [-18120°C] | |
| | Body Pressure Rating | 600 psi | |
| | Close-off pressure Δps | 200 psi | |
| | Flow characteristic | equal percentage | |
| | Servicing | maintenance-free | |
| | Flow Pattern | 2-way | |
| | Leakage rate | 0% for A – AB | |
| | Controllable flow range | 75° | |
| | Cv | 4.7 | |
| 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 | |
| Suitable actuators | Non-Spring | TR | |
| | | LRB(X) | |
| | | NR | |
| | Spring | TFRB(X) | |
| | | LF | |

Safety notes



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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

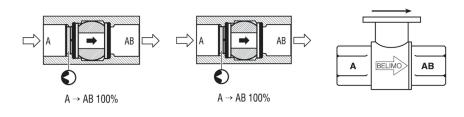
Application

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 flow.



Technical data sheet

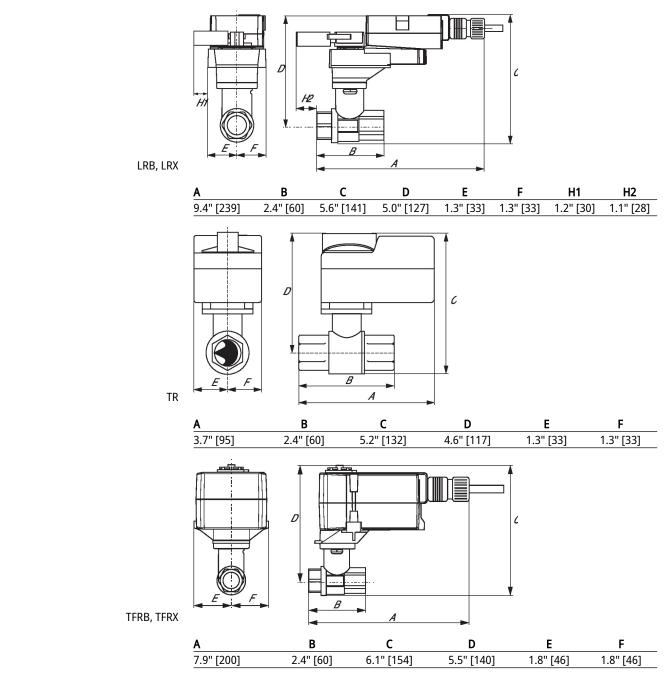
Flow/Mounting details



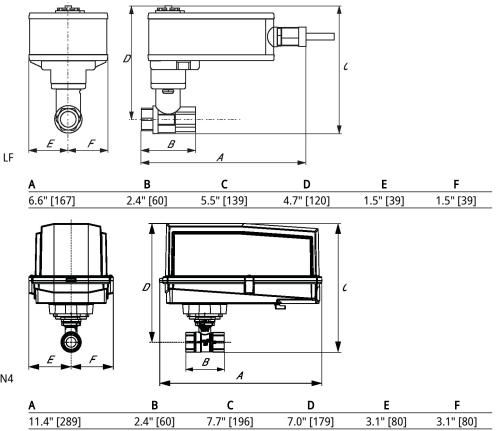
Two-way valves should be installed with the disc upstream.

Dimensions

| Туре | DN | Weight |
|------|----|-------------------|
| B213 | 15 | 0.66 lb [0.30 kg] |







ARB N4, ARX N4, NRB N4, NRX N4



Modulating, Spring Return, Multi-Function Technology®

Technical data sheet

LF24-MFT US



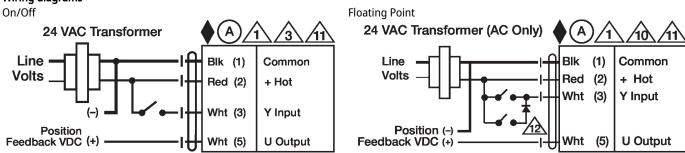
Technical data

| Electrical data | Nominal voltage | AC/DC 24 V | |
|-----------------|------------------------------------|---|--|
| | 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 | 1 W | |
| | Transformer sizing | 5 VA | |
| | Electrical Connection | 18 GA appliance cable, 1 m, with 1/2" conduit connector | |
| | Overload Protection | electronic throughout 095° rotation | |
| Functional data | Operating range Y | 210 V | |
| | Operating range Y note | 420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor) | |
| | Input Impedance | 100 kΩ for 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω for PWM, On/Off and Floating point | |
| | Operating range Y variable | Start point 0.530 V End point 2.532 V | |
| | Operating modes optional | variable (VDC, on/off, floating point) | |
| | Position feedback U | 210 V | |
| | Position feedback U note | Max. 0.5 mA | |
| | Position feedback U variable | VDC variable | |
| | Direction of motion motor | selectable with switch 0/1 | |
| | Direction of motion fail-safe | reversible with cw/ccw mounting | |
| | Angle of rotation | 90° | |
| | Running Time (Motor) | 150 s / 90° | |
| | Running time motor variable | 75300 s | |
| | Running time fail-safe | <25 s @ -4122°F [-2050°C], <60 s @ -22°F [-30°C] | |
| | Noise level, motor | 50 dB(A) | |
| | Noise level, fail-safe | 62 dB(A) | |
| | Position indication | Mechanical | |
| 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 UL 873 and CAN/CSA C22.2 No. 24-93 | |
| | 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] | |



| | Safety data | Servicing maintenance-free | | | |
|------------------------|-----------------------|--|--|--------------|--|
| | Weight | Weight | 3.3 lb [1.5 kg] | | |
| | Materials | Housing material | galvanized steel | | |
| Footnotes | | *Variable when configured with MFT options. | | | |
| ccessories | | | | | |
| E | lectrical accessories | Description | | Туре | |
| | | Service Tool, with ZIP-USB functi communicative Belimo actuators devices | on, for programmable and ;, VAV controller and HVAC performan | ZTH US ce | |
| lectrical installation | | | | | |
| | | observed. Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed. Actuators may also be powered by DC 24 V. Actuators may also be powered by DC 24 V. Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc. Only connect common to negative (-) leg of control circuits. A 500 Ω resistor (ZG-R01) converts the 420 mA control signal to 210 V. Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 V line. For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller; the actuator internal common reference is not compatible. Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed. IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155). Meets cULus requirements without the need of an electrical ground connection. Actuators are provided with color coded wires. Wire numbers are provided for reference. Warning! Live electrical components! During installation, testing, servicing and troubleshooting of this product, it may be necessat to work with live electrical components. Have a qualified licensed electrician or other individ 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 | | | |

Wirin





Technical data sheet



