

2-way, Characterized Control Valve, Stainless Steel Ball and Stem



5-year warranty

## Type overview

| Type      | DN |
|-----------|----|
| B215HT186 | 15 |

## Technical data

| Functional data                   | Valve size [mm]   | 0.5" [15]                             |
|-----------------------------------|---|---------------------------------------|
| Fluid                             | high temperature hot water/low pressure steam, up to 60% glycol |                                       |
| Fluid Temp Range (water)          | 60...266°F [16...130°C]   |                                       |
| Fluid Temp Range (steam)          | 250°F [120°C]   |                                       |
| Body Pressure Rating              | 600 psi   |                                       |
| Close-off pressure $\Delta$ ps    | 200 psi   |                                       |
| Flow characteristic               | equal percentage  |                                       |
| Pipe connection                   | Internal thread<br>NPT (female)                                 |                                       |
| Servicing                         | maintenance-free  |                                       |
| Max Differential Pressure (Steam) | 15 psi  |                                       |
| Flow Pattern                      | 2-way   |                                       |
| Leakage rate                      | 0%  |                                       |
| Controllable flow range           | 75°   |                                       |
| Cv                                | 1.86  |                                       |
| Maximum Inlet Pressure (Steam)    | 15 psi  |                                       |
| Materials                         | Valve body  | Nickel-plated brass (DZR) P-CuZn35Pb2 |
|                                   | Stem  | stainless steel                       |
|                                   | Stem seal   | Viton O-ring                          |
|                                   | Seat  | ETFE                                  |
|                                   | Characterized disc  | ETFE                                  |
|                                   | O-ring  | EPDM (lubricated)                     |
|                                   | Ball  | stainless steel                       |
| Suitable actuators                | Non Fail-Safe   | TR<br>LRB(X)                          |
|                                   | Spring  | TFRB(X)                               |

## Safety notes

- 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](http://www.p65warnings.ca.gov)

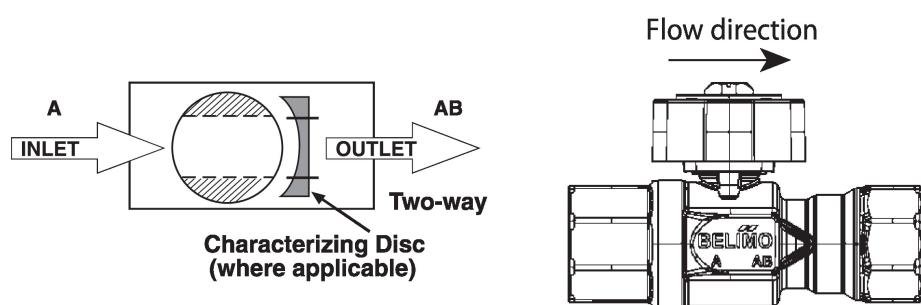


## Product features

## Application

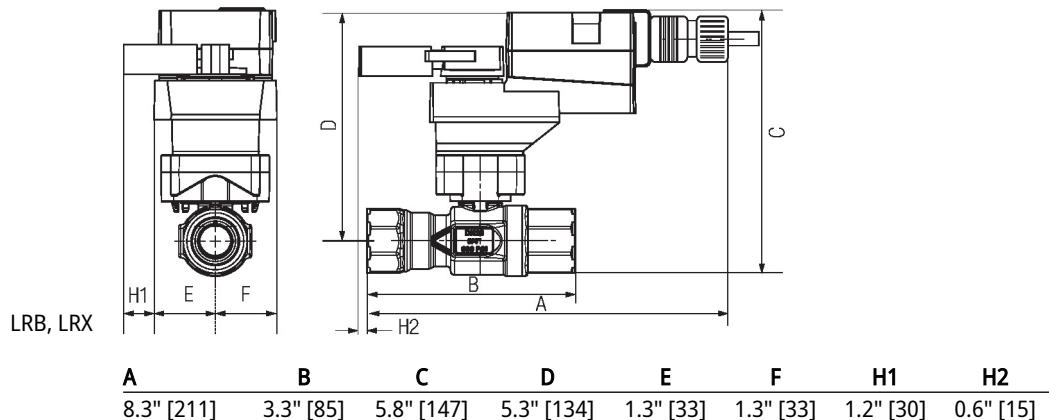
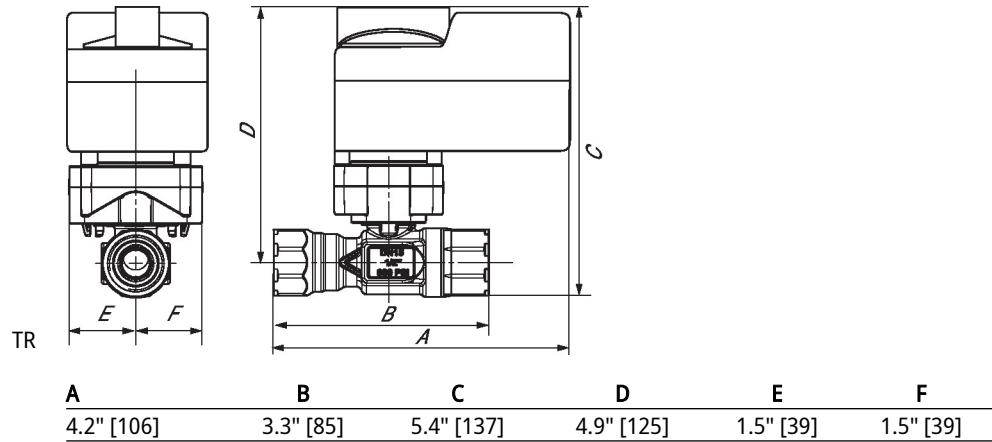
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include unit ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow. This valve is designed to fit in compact areas where on/off, floating point and modulating control is required using 24 VAC.

## Flow/Mounting details

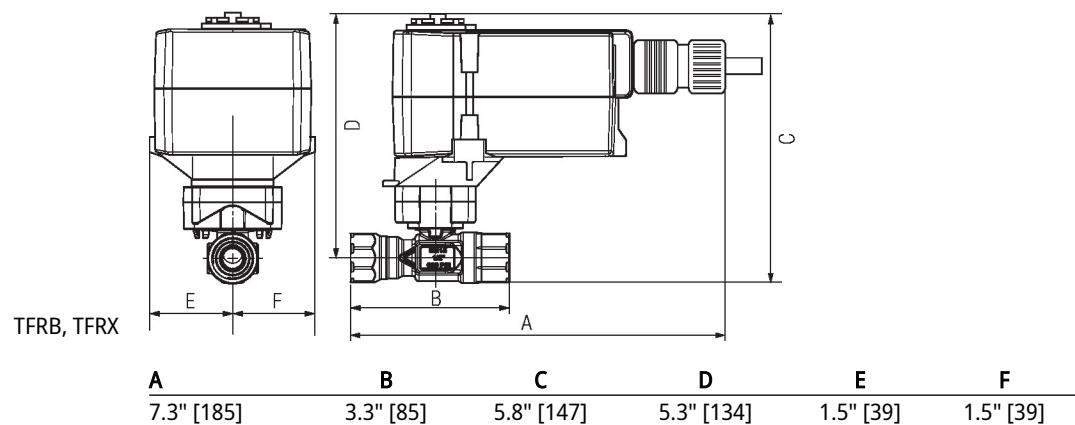


## Dimensions

| Type      | DN | Weight            |
|-----------|----|-------------------|
| B215HT186 | 15 | 0.61 lb [0.28 kg] |



## Dimensions





5-year warranty



## Technical data

|                        |                                    |   |
|------------------------|------------------------------------|---|
| <b>Electrical data</b> | Nominal voltage                    | AC 100...240 V  |
|                        | Nominal voltage frequency          | 50/60 Hz  |
|                        | Nominal voltage range              | AC 85...265 V   |
|                        | Power consumption in operation     | 2.5 W   |
|                        | Power consumption in rest position | 1.3 W   |
|                        | Transformer sizing                 | 5 VA  |
|                        | Electrical Connection              | 18 GA appliance cable, 1 m, with 1/2" NPT conduit connector                                 |
|                        | Overload Protection                | electronic throughout 0...95° rotation  |
| <b>Functional data</b> | Position feedback U note           | No Feedback   |
|                        | Direction of motion motor          | selectable by ccw/cw mounting   |
|                        | Direction of motion fail-safe      | reversible with cw/ccw mounting   |
|                        | Angle of rotation                  | Max. 95°  |
|                        | Running Time (Motor)               | 75 s  |
|                        | Running time fail-safe             | <75 s   |
|                        | Noise level, motor                 | 50 dB(A)  |
|                        | Noise level, fail-safe             | 50 dB(A)  |
|                        | Position indication                | Mechanical  |
| <b>Safety data</b>     | Power source UL                    | Class 2 Supply  |
|                        | Degree of protection IEC/EN        | IP42  |
|                        | Degree of protection NEMA/UL       | NEMA 2  |
|                        | Enclosure                          | UL Enclosure Type 2   |
|                        | Agency Listing                     | cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU                  |
|                        | 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                | -22...122°F [-30...50°C]  |
|                        | Storage temperature                | -40...176°F [-40...80°C]  |
|                        | Servicing                          | maintenance-free  |
| <b>Weight</b>          | Weight                             | 1.3 lb [0.58 kg]  |
| <b>Materials</b>       | Housing material                   | UL94-5VA  |

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

 **INSTALLATION NOTES**

-  **A** Actuators with appliance cables are numbered.
-  **1** Provide overload protection and disconnect as required.
-  **2** Actuators may be connected in parallel. Power consumption and input impedance must be observed.
-  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.

**Wiring diagrams**

On/Off

