



5-year warranty

## Type overview

| Type      | DN |
|-----------|----|
| B215HT455 | 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 Δps            | 200 psi                                                         |
|                    | Flow characteristic               | A-port equal percentage                                         |
|                    | Servicing                         | maintenance-free                                                |
|                    | Max Differential Pressure (Steam) | 15 psi                                                          |
|                    | Flow Pattern                      | 2-way                                                           |
|                    | Leakage rate                      | 0%                                                              |
|                    | Controllable flow range           | 75°                                                             |
|                    | Cv                                | 4.55                                                            |
|                    | Maximum Inlet Pressure (Steam)    | 15 psi                                                          |
| Materials          | Valve body                        | Nickel-plated brass (DZR) P-CuZn35Pb2                           |
|                    | Spindle                           | stainless steel                                                 |
|                    | Spindle seal                      | Viton O-ring                                                    |
|                    | Seat                              | ETFE                                                            |
|                    | Characterized disc                | ETFE                                                            |
|                    | Pipe connection                   | NPT female ends                                                 |
|                    | O-ring                            | EPDM (lubricated)                                               |
| Suitable actuators | Ball                              | stainless steel                                                 |
|                    | Non-Spring                        | TR<br>LRB(X)                                                    |
|                    | Spring                            | TFRB(X)                                                         |

## Safety notes

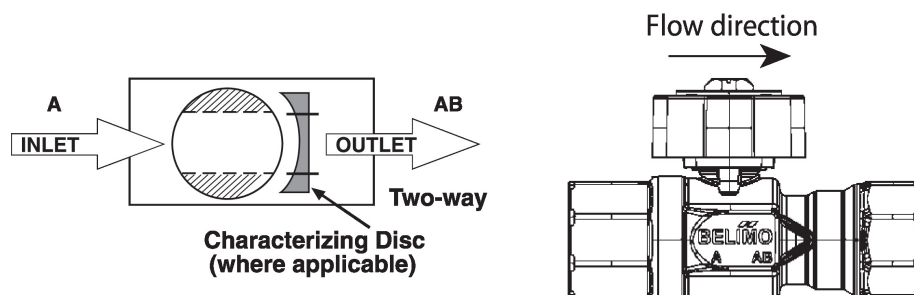


- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

## 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 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.

## Flow/Mounting details



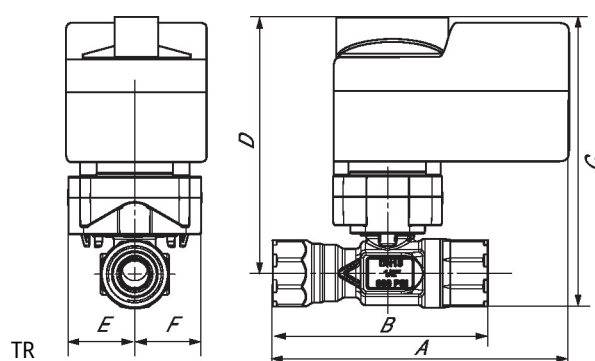
## Dimensions

## Type

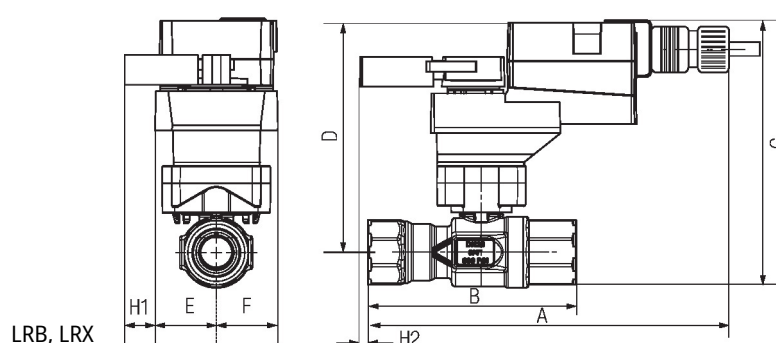
B215HT455

## DN

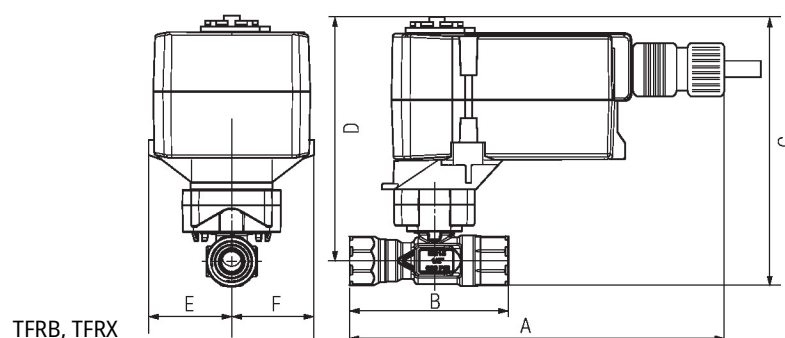
15



| A          | B         | C          | D          | E         | F         |
|------------|-----------|------------|------------|-----------|-----------|
| 4.2" [106] | 3.3" [85] | 5.4" [137] | 4.9" [125] | 1.5" [39] | 1.5" [39] |



| A          | B         | C          | D          | E         | F         | H1        | H2        |
|------------|-----------|------------|------------|-----------|-----------|-----------|-----------|
| 8.3" [211] | 3.3" [85] | 5.8" [147] | 5.3" [134] | 1.5" [39] | 1.5" [39] | 1.2" [30] | 0.6" [15] |



| A          | B         | C          | D          | E         | F         |
|------------|-----------|------------|------------|-----------|-----------|
| 7.3" [185] | 3.3" [85] | 5.8" [147] | 5.3" [134] | 1.5" [39] | 1.5" [39] |



5-year warranty



## Technical data

|                        |                                |                                                                                                                                                                                                              |
|------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Electrical data</b> | Nominal voltage                | AC 24 V                                                                                                                                                                                                      |
|                        | Nominal voltage frequency      | 50/60 Hz                                                                                                                                                                                                     |
|                        | Power consumption in operation | 1 W                                                                                                                                                                                                          |
|                        | Transformer sizing             | 1 VA (class 2 power source)                                                                                                                                                                                  |
|                        | Electrical Connection          | 18 GA plenum cable, 3 ft [1 m]                                                                                                                                                                               |
|                        | Overload Protection            | electronic throughout full rotation                                                                                                                                                                          |
| <b>Functional data</b> | Manual override                | push down handle                                                                                                                                                                                             |
|                        | Angle of rotation              | 90°                                                                                                                                                                                                          |
|                        | Running Time (Motor)           | 90 s / 90°                                                                                                                                                                                                   |
|                        | Noise level, motor             | 35 dB(A)                                                                                                                                                                                                     |
|                        | Position indication            | integrated into handle                                                                                                                                                                                       |
| <b>Safety data</b>     | Degree of protection IEC/EN    | IP40                                                                                                                                                                                                         |
|                        | Degree of protection NEMA/UL   | NEMA 1                                                                                                                                                                                                       |
|                        | Enclosure                      | UL Enclosure Type 1                                                                                                                                                                                          |
|                        | Agency Listing                 | cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC |
|                        | Quality Standard               | ISO 9001                                                                                                                                                                                                     |
|                        | Ambient temperature            | -22...122°F [-30...50°C]                                                                                                                                                                                     |
|                        | Storage temperature            | -40...176°F [-40...80°C]                                                                                                                                                                                     |
|                        | Ambient humidity               | Max. 95% RH, non-condensing                                                                                                                                                                                  |
|                        | Servicing                      | maintenance-free                                                                                                                                                                                             |
|                        |                                |                                                                                                                                                                                                              |

**Footnotes** † Rated impulse voltage 330 V, Control pollution degree 2, Type of action 1

## Electrical installation

### INSTALLATION NOTES

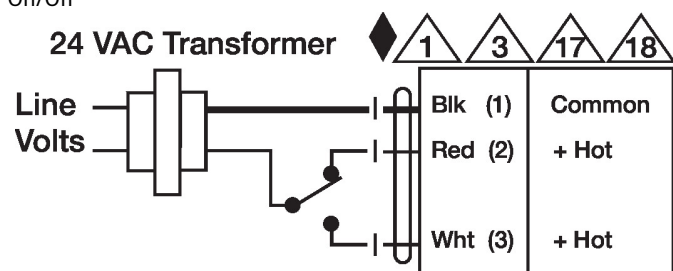
-  Provide overload protection and disconnect as required.
-  Actuators cannot be wired in parallel.
-  Actuators with plenum cable do not have numbers; use color codes instead.
-  Meets cULus requirements without the need of an electrical ground connection.

### **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.

## Wiring diagrams

On/Off



Floating Point

