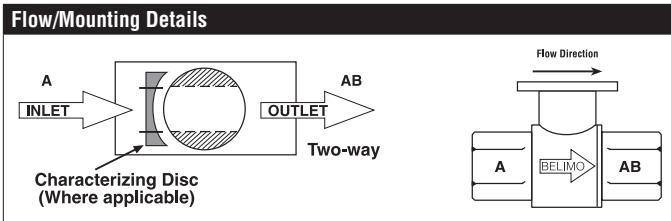


# B216 Technical Data Sheet

## Stainless Steel Ball and Stem



| Technical Data                 |                                      |
|--------------------------------|--------------------------------------|
| Fluid                          | chilled, hot water, up to 60% glycol |
| Flow characteristic            | equal percentage                     |
| Controllable flow range        | 75°                                  |
| Valve Size [mm]                | 0.5" [15]                            |
| Pipe connection                | NPT female ends                      |
| Housing                        | Nickel-plated brass body             |
| Ball                           | stainless steel                      |
| Stem                           | stainless steel                      |
| Stem seal                      | EPDM (lubricated)                    |
| Seat                           | PTFE                                 |
| O-ring                         | EPDM (lubricated)                    |
| Characterised disc             | No Disc (full flow)                  |
| Body Pressure Rating           | 600 psi                              |
| Close-off pressure $\Delta$ ps | 200 psi                              |
| Cv                             | 16                                   |
| Weight                         | 0.66 lb [0.30 kg]                    |
| Fluid Temp Range (water)       | 0...250°F [-18...120°C]              |
| Leakage rate                   | 0% for A – AB                        |
| Maintenance                    | 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.

### Suitable Actuators

|      | Non-Spring     | Spring      |
|------|----------------|-------------|
| B216 | TR, LRB(X), NR | TFRB(X), LF |

### Dimensions (Inches [mm])

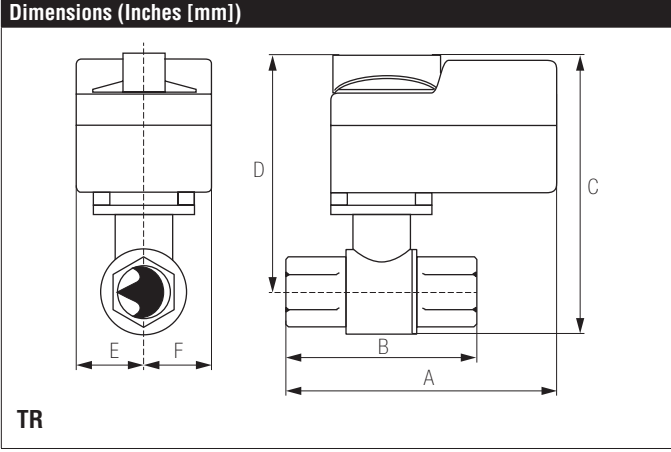


| A          | B         | C          | D          | E         | F | H1        | H2        |
|------------|-----------|------------|------------|-----------|---|-----------|-----------|
| 9.4" [239] | 2.4" [60] | 5.6" [141] | 5.0" [127] | 1.3" [33] |   | 1.2" [30] | 1.1" [28] |

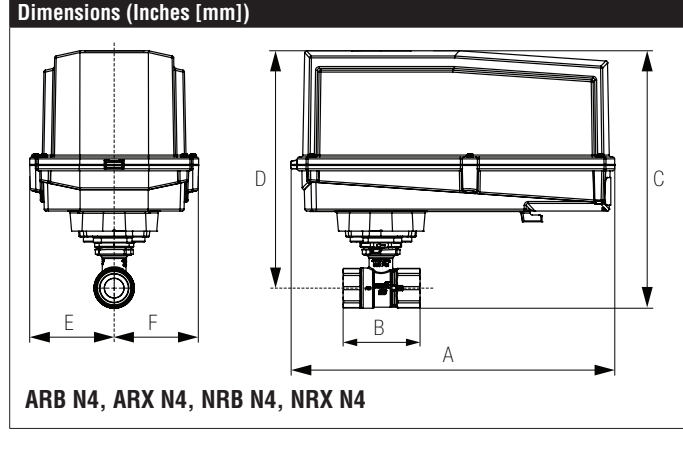
### Safety Notes

**WARNING:** For Belimo products sold in California: these products do or may contain chemicals which are known to the State of California to cause cancer and or birth defects or other reproductive harms. For more information see [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

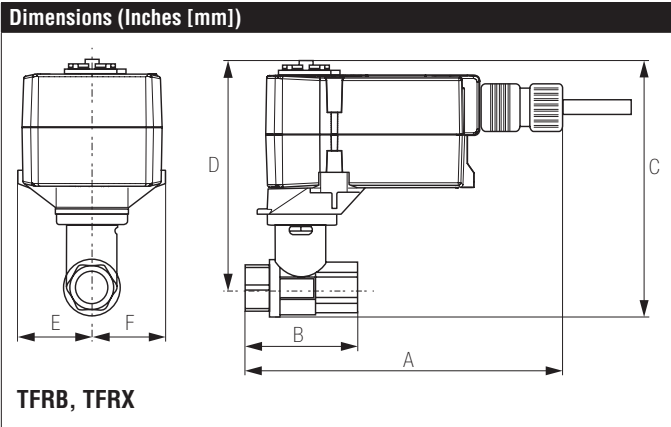
Date created, 09/11/2019 - Subject to change. © Belimo Aircontrols (USA), Inc.



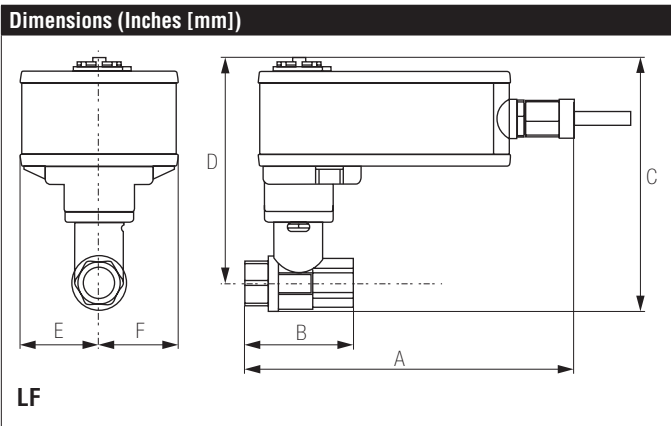
| A         | B         | C          | D          | E         | F |
|-----------|-----------|------------|------------|-----------|---|
| 3.7" [95] | 2.4" [60] | 5.2" [132] | 4.6" [117] | 1.3" [33] |   |



| A           | B         | C          | D          | E         | F |
|-------------|-----------|------------|------------|-----------|---|
| 11.4" [289] | 2.4" [60] | 7.7" [196] | 7.0" [179] | 3.1" [80] |   |



| A          | B         | C          | D          | E         | F |
|------------|-----------|------------|------------|-----------|---|
| 6.6" [167] | 2.4" [60] | 5.5" [139] | 4.7" [120] | 1.5" [39] |   |



| A          | B         | C          | D          | E         | F |
|------------|-----------|------------|------------|-----------|---|
| 7.9" [200] | 2.4" [60] | 6.1" [154] | 5.5" [140] | 1.3" [33] |   |

# TR24-3-T US Technical Data Sheet

## On/Off Floating Point, Non-Spring Return, 24 V



5-year warranty



### Technical Data






|                                |  |
|--------------------------------|--|
| Power Supply                   | 24 VAC, ±20%, 50/60 Hz   |
| Power consumption in operation | 1 W  |
| Transformer sizing             | 1 VA (class 2 power source)  |
| Electrical Connection          | Screw terminal (for 26 to 14 GA wire)  |
| Overload Protection            | electronic throughout full rotation  |
| Input Impedance                | 0.36 kΩ  |
| Angle of rotation              | 90°  |
| Position indication            | Mechanically, pluggable  |
| Manual override                | push down handle   |
| Running Time (Motor)           | 90 s   |
| Ambient humidity               | max. 95% r.H., non-condensing  |
| Ambient temperature            | -22...122°F [-30...50°C]   |
| Storage temperature            | -40...176°F [-40...80°C]   |
| Degree of Protection           | IP40, NEMA 1   |
| Agency Listing                 | cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC |
| Noise level, motor             | 35 dB(A)   |
| Maintenance                    | maintenance-free   |
| Quality Standard               | ISO 9001   |
| Weight                         | 0.62 lb [0.28 kg]  |

### Safety Notes

**WARNING:** For Belimo products sold in California: these products do or may contain chemicals which are known to the State of California to cause cancer and or birth defects or other reproductive harms. For more information see [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

**Wiring Diagrams**

**✂ INSTALLATION NOTES**

-  Provide overload protection and disconnect as required.
-  Actuators may also be powered by 24 VDC.
-  Actuators are provided with a numbered screw terminal strip instead of a cable.
-  Actuators cannot be wired in parallel.
-  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.

