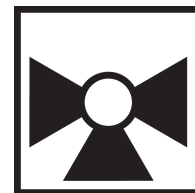




5-year warranty



## Technical data

|                           |                                 |   |
|---------------------------|---------------------------------|---|
| <b>Functional data</b>    | Valve Size                      | 0.5" [15]   |
|                           | Fluid                           | chilled or hot water, up to 60% glycol              |
|                           | Fluid Temp Range (water)        | 0...250°F [-18...120°C]                             |
|                           | Body Pressure Rating            | 600 psi   |
|                           | Close-off pressure $\Delta p_s$ | 200 psi   |
|                           | Servicing                       | maintenance-free                                    |
|                           | Flow Pattern                    | 3-way Mixing/Diverting                              |
|                           | Leakage rate                    | 0% for A – AB, <2.0% for B – AB                     |
|                           | Controllable flow range         | 75°   |
|                           | Cv                              | 3   |
|                           | Body pressure rating note       | 600 psi   |
|                           | Cv Flow Rating                  | A-port: as stated in chart B-port: 70% of A – AB Cv |
| <b>Materials</b>          | Seat                            | PTFE  |
|                           | End fitting                     | NPT female ends                                     |
|                           | O-ring                          | EPDM (lubricated)                                   |
|                           | Ball                            | stainless steel                                     |
| <b>Suitable actuators</b> | Non-Spring                      | TR<br>LRB(X)<br>NRB(X) N4                           |

## Safety notes

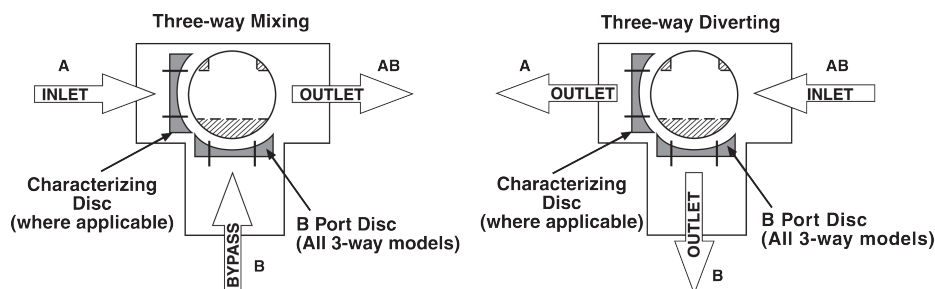


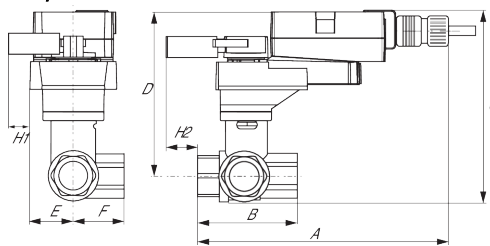
- **WARNING:** This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

## Product features

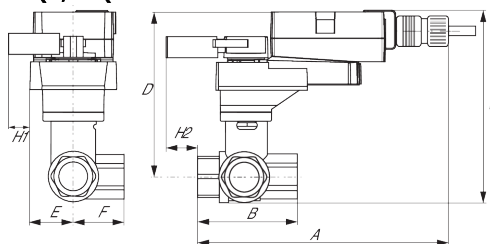
**Application** This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.

### Flow/Mounting details

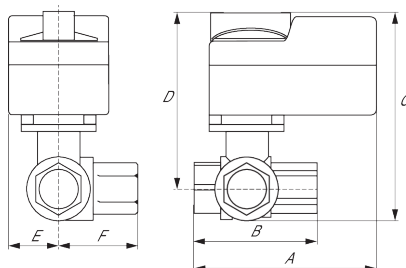


**Dimensions**
**Dimensional drawings**
**LRB, LRX**


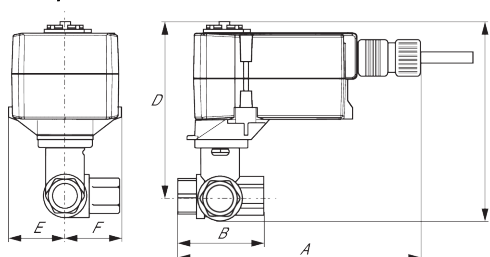
| A          | B         | C          | D          | E         | F         | H1        | H2        |
|------------|-----------|------------|------------|-----------|-----------|-----------|-----------|
| 8.5" [216] | 2.4" [60] | 5.2" [132] | 5.0" [127] | 1.3" [33] | 1.3" [33] | 1.2" [30] | 1.1" [28] |

**LRQB, LRQX**


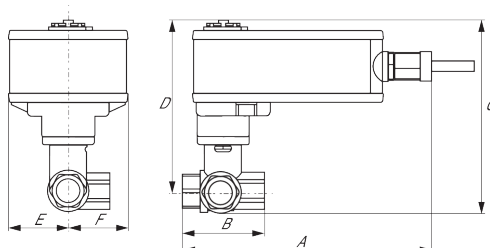
| A          | B         | C          | D          | E         | F         | H1        | H2        |
|------------|-----------|------------|------------|-----------|-----------|-----------|-----------|
| 8.9" [226] | 2.4" [60] | 5.7" [146] | 5.2" [131] | 1.6" [40] | 1.6" [40] | 1.2" [30] | 1.3" [33] |

**TR**


| A         | B         | C          | D          | E         | F         |
|-----------|-----------|------------|------------|-----------|-----------|
| 3.7" [95] | 2.4" [60] | 4.8" [122] | 4.2" [107] | 1.3" [33] | 1.2" [31] |

**TFRB, TFRX**


| A          | B         | C          | D          | E         | F         |
|------------|-----------|------------|------------|-----------|-----------|
| 6.6" [167] | 2.4" [60] | 4.9" [124] | 4.3" [110] | 1.5" [39] | 1.5" [39] |

**LF**


| A          | B         | C          | D          | E         | F         |
|------------|-----------|------------|------------|-----------|-----------|
| 7.9" [200] | 2.4" [60] | 5.7" [146] | 5.1" [129] | 1.8" [46] | 1.8" [46] |