

# Zone Valves:

## Quality and performance that hits the mark.



### Flexible and Reliable

For high rise and commercial applications where higher close off is required; Belimo zone valves control the flow of hot water and chilled water through coils and heat exchangers. This zone valve series offers a variety of models to handle all water system control needs.

Installation of the Belimo zone valve actuator is a snap with an easy, one-handed removal or engagement of the actuator to a 2- or 3-way valve body—push the button and lift. Available in 24 or 120 volt, normally open (NO) or normally closed (NC) versions. The actuator has a synchronous motor that winds the return spring and moves the valve paddle to the desired position. When power is removed the actuator spring returns the valve paddle to the initial position. The economical operation allows for low current draw and multiple valves per transformer, helping you to achieve your ultimate control target.

### Belimo Advantages

The Zone Valve combines the proven performance of a synchronous motor technology with “enhanced motion” gear action which reduces motor wear while providing smooth, quiet (no water hammer), and constant close off. The crafted brass forged body is rated at 300 psi, and the high temperature paddle design assures years of trouble free operation. Precision formed components and an exclusive spring calibration process ensure uniform spring return and long valve life.

- Compact in design, fits inside fin tube casing and fan coils
- Wide service range, rated from 32°F to 212°F medium with up to a 50% glycol mix
- Up to 75 psi  $\Delta P$  close off



# Belimo Zone Valves.

## A compact, cost-effective solution.



Two-way



Three-way

### Product Range / Technical Data

| Valve Body                 |  | Actuator                   |   |
|----------------------------|--|----------------------------|---|
| Material:                  | <ul style="list-style-type: none"> <li>- body: forged brass</li> <li>- seat: machine brass</li> <li>- stem: stainless steel</li> <li>- two o-ring seals: EPDM</li> <li>- paddle: EPDM</li> </ul> | Material:                  | <ul style="list-style-type: none"> <li>- base and cover: polycarbonate</li> <li>- base plate: aluminum</li> </ul> |
|                            |  | Motor:                     | - AC voltage: 24 V, 120 V; 50/60 Hz   |
|                            |  | Wire lead length:          | 6" [15 cm] 120 V<br>18" [45 cm] 24 V  |
| Flow:                      | from 1 to 8 C <sub>v</sub>   | Power requirements:        | 6.5 W, 7 VA   |
| Medium:                    | water and glycol   | Ambient temperature range: | 32 to 104°F [0 to 40°C]   |
| Maximum percent of glycol: | 50%  | Micro switch:              | 5 A, 250 V  |
| Temperature range:         | 32 to 212°F (0 - 100°C)  | Humidity:                  | 95% non-condensing  |
| Connection: - sweat:       | 1/2", 3/4" and 1"  | Approvals:                 | UL, cUL Listed and CE   |
| - NPT:                     | 1/2", 3/4" and 1"  | Housing:                   | Corrosion and oxidation resistant enclosure   |
| PSI:                       | 300 psi static pressure  |                            |   |



Belimo worldwide: [www.belimo.com](http://www.belimo.com)

#### BELIMO Americas

**USA Locations**, 43 Old Ridgebury Road, Danbury, CT 06810

Tel. 800-543-9038, Fax 800-228-8283, [marketing@us.belimo.com](mailto:marketing@us.belimo.com)

**Canada Locations**, 14/16 – 5716 Coopers Avenue, Mississauga, Ontario L4Z 2E8

Tel. 866-805-7089, Fax 905-712-3124, [marketing@us.belimo.com](mailto:marketing@us.belimo.com)

**Latin America Customer Service**, Tel. 203-791-8396, Fax 203-791-9139, [marketing@us.belimo.com](mailto:marketing@us.belimo.com)

- Engineered with 21:1 gear train ratio and transmission disengagement upon valve seating ensure long life.
- Superior close off pressure (close off  $\geq 30$  psi at 3.5 C<sub>v</sub>).
- Easily removable actuator without tools or linkage.
- Valve serviceable in the pipe.
- Designed specifically for high boiler feed and open system applications.

**BELIMO**<sup>®</sup>