

Don't sweat the small stuff.



Actuator Retrofit Solution for the Small Valve.

If replacing the Powermite MZ/MT valve with a Characterized Control Valve or High Temperature Characterized Control valve is not an option, keep the valve in service and only retrofit the actuator. The new UGSL1200 retrofit linkage provides a compact solution that saves you time and money when budgets are tight.

This direct fit linkage will keep your system online while paving the way for superior actuation with Belimo CM or TF actuators – each with Belimo's exclusive 5-year warranty.

Typical control applications for the Powermite and UGSL1200 combination include hot/chilled water or steam for convectors, fan coil units, unit conditioners, radiation, reheat coils, and other terminal units.

Accommodates Multiple Control Scenarios

The UGSL1200 returns the Powermite MZ/MT short stroke valve back into service when the original actuator has failed. The linkage easily attaches to the existing valve bonnet and accommodates either a Belimo CM non-spring return actuator or a TF spring return actuator. It is the ideal replacement solution for any 1/2" to 1 1/4" two or three-way Powermite MZ/MT valve and is suited for both normally open and normally closed valves.

Compact Yet Powerful

The UGSL1200 unique design linkage converts rotary actuator movement to a linear stroke of 5.5 mm with just 95° rotation. The movement is compact, yet powerful with a maximum downward force of 67 lbs. A slot located on the linkage housing indicates when the maximum stroke has occurred.


One kit includes all the parts you need to mount either spring return or non-spring return replacement actuators.

RETRO  **FIT**®


BELIMO®

Versatile and adaptable

Recommended Actuator Product Range / Technical Data Actuator and Linkage Sold Separately

|  | Torque | Running Time | | Power Supply | | | Control Input | | Position Feedback | Enclosure Rating | Auxiliary Switches |
|---|-------------|-----------------------|---------------|--------------|-------------|-----------|----------------|--|--------------------|---|--------------------------------------|
| | in-lbs [Nm] | Motor Drive (Default) | Spring Return | 24 VAC/DC | 120-230 VAC | VA Rating | Floating Point | 2-10 VDC (Default) 4-20 mA (w/500 Ω Resistor) | 2-10 VDC (Default) | VDC Variable, Start 0 to 8, Span 2 to 10 VDC | NEMA2 (IP42), UL Enclosure Type 2 |

| Non-Spring Return Actuators | | | | | | | | | | | | |
|-----------------------------|--------|----|---|---|---|-----|---|---|---|---|---|---|
| CMB24-3 | 18 [2] | 35 | - | • | - | 1.5 | • | - | - | - | • | - |
| CMB24-3-T | 18 [2] | 35 | - | • | - | 1.5 | • | - | - | - | - | - |
| CMB120-3 | 18 [2] | 35 | - | - | • | 3.5 | • | - | - | - | • | - |
| CMB24-SR-L (2-10V CW)* | 18 [2] | 35 | - | • | - | 2.5 | - | • | • | - | • | - |
| CMB24-SR-R (10-2 CCW)* | 18 [2] | 35 | - | • | - | 2.5 | - | • | • | - | • | - |

|  | Torque | Running Time | | Power Supply | | | Control Input | | Position Feedback | Enclosure Rating | Auxiliary Switches | | |
|--|-------------|-----------------------|---------------|--------------|--------|---------|---------------|--------|-------------------|--|--------------------|---|---------------------------------------|
| | in-lbs [Nm] | Motor Drive (Default) | Spring Return | 24 VAC/DC | 24 VAC | 120 VAC | VA Rating | On/Off | Floating Point | 2-10 VDC (Default) 4-20 mA (w/500 Ω Resistor) | 2-10 VDC (Default) | VDC Variable, Start 0 to 8, Span 2 to 10 VDC | NEMA 2 (IP42), UL Enclosure Type 2 |

| Spring Return Actuators | | | | | | | | | | | | | | |
|-------------------------|----------|-------------------|-----|---|---|---|---|---|---|---|---|---|---|---|
| TFB24-SR | 22 [2.5] | 75 | <25 | • | - | - | 4 | - | - | • | • | - | • | - |
| TFB24-SR-S | 22 [2.5] | 75 | <25 | • | - | - | 4 | - | - | • | • | - | • | • |
| TFB24-3 | 22 [2.5] | 75 | <25 | - | • | - | 4 | - | • | - | - | - | • | - |
| TFB24-3-S | 22 [2.5] | 75 | <25 | - | • | - | 4 | - | • | - | - | - | • | • |
| TFB24-MFT | 22 [2.5] | 75...300 (150) | <25 | • | - | - | 4 | - | • | • | • | • | • | - |
| TFLB24** | 22 [2.5] | 75 | 75 | • | - | - | 5 | • | - | - | - | - | • | • |
| TFLB120** | 22 [2.5] | 75 | 75 | - | - | • | 5 | - | • | - | - | - | • | • |

*CM has a -R (right) and -L (left) for modulating direction. Linkage runs in the CW direction.
**For on/off applications, use TFL series actuator.

Linkage/Actuator Technical Specifications:

- Height: 2.8" with CM and 3.7" with TF
- Linkage materials: aluminum, brass, stainless steel
- Stroke: 5.5mm
- Max output force: 67 lbs
- Mounting position: 360° rotation
- Close-off pressure: valve dependent within original manufactures rating
- Ambient temperature: -22°F to +122°F [-30°C to +50°C]
- Storage temperature: -40°F to +176°F [-40°C to +50°C]
- Servicing: chilled or hot water and steam
- Linkage weight: 1.25 lbs [0.57 kg]

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