# BELIMO®

• Belimo Globe Valve Linkage with LV and SV series actuators

**5**

5-year warranty

## Type overview

| Type | Stroke |
| --- | --- |
| BGVL | 0.6" [15 mm] LV, 3/4" [20 mm] SV |

## Technical data

| | | |
| --- | --- | --- |
| Functional data | Fluid | chilled or hot water and steam |
| | Fluid Temp Range (water) | Please Refer to Manufacturer's Valve Specifications |
| | Mounting Position | 360° |
| | Applicable valve size | 0.5...2" [15...50] |
| Materials | Hardware | SS and Nickel plated steel |
| | Frame, plate, base | aluminum |
| | Coupling | GF Nylon supplied |
| Suitable actuators | Non-Spring | LVB(X) SVB(X) |
| | Electrical fail-safe | LVKB(X) SVKB(X) |

For close-off pressure reference Select Pro or retrofit technical documentation.

## Product features

**Default/Configuration** The default set up for a BGVL linkage will be factory installed along with a LV or SV series actuator. Included in the kit will be all the necessary hardware to facilitate mounting to the Belimo Globe Valve.

**Application** The BGVL kit is designed to easily attach LV and SV series actuators to Belimo Globe Valves. The tapered bonnet and notched stem design allow easy installation of the BGVL on ½" to 2" two-way or three-way valves in both normally open and normally closed configurations.

**Operation** The BGVL linkage with actuator will provide 20 mm of linear travel to accommodate a wide range of valve sizes.
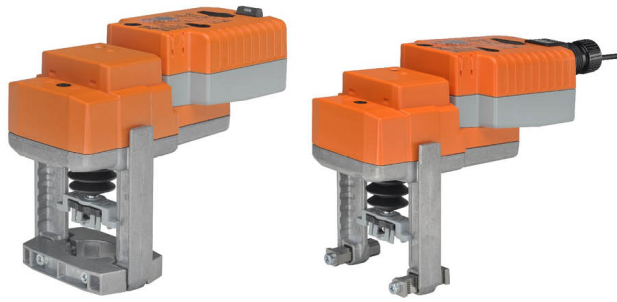
## Dimensions

| Type | Weight |
| --- | --- |
| BGVL | 1.1 lb [0.50 kg] |

LVB, LVX, SVB, SVX

| A | B | C |
|---|---|---|
| 6.0" [152] | 3.8" [97] | 7.9" [201] |

LVKB, LVKX, SVKB, SVKX

| A | B | C |
|---|---|---|
| 6.7" [171] | 3.8" [97] | 8.1" [206] |

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CE | LISTED 94 D5 TEMP. IND. & REG. EQUIP. | c UL us

## Technical data

| | | |
|---|---|---|
| **Electrical data** | Nominal voltage | AC 100...240 V |
| | Nominal voltage frequency | 50/60 Hz |
| | Power consumption in operation | 2.5 W |
| | Power consumption in rest position | 1.5 W |
| | Transformer sizing | 6 VA (class 2 power source) |
| | Electrical Connection | 18 GA appliance cable with 1/2" conduit connector, 3 ft [1 m], degree of protection NEMA 2 / IP54 |
| | Overload Protection | electronic throughout full stroke |
| | Electrical Protection | actuators are double insulated |
| **Functional data** | Actuating force motor | 500 N [115 lbf] |
| | Position feedback U note | No Feedback |
| | Bridging time (PF) | 2 s |
| | Pre-charging time | 5...20 s |
| | Direction of motion motor | selectable with switch |
| | Direction of motion fail-safe | reversible with switch |
| | Manual override | 4 mm hex crank (shipped w/actuator) |
| | Stroke | 0.75" [19 mm] |
| | Running Time (Motor) | 90 s / |
| | Running time motor variable | 90 or 150 s |
| | Noise level, motor | 55 dB(A) |
| | Noise level, fail-safe | 60 dB(A) |
| | Position indication | Mechanically, with pointer |
| **Safety data** | Degree of protection IEC/EN | IP54 |
| | Degree of protection NEMA/UL | NEMA 2 |
| | Enclosure | UL Enclosure Type 2 |
| | Agency Listing | cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU |
| | 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 |
| **Materials** | Housing material | Die cast aluminium and plastic casing |

**Footnotes** † Use flexible metal conduit. Push the listed conduit fitting device over the actuator's cable to butt against the enclosure. Screw in conduit connector. Jacket the actuators input wiring with listed flexible conduit. Properly terminate the conduit in a suitable junction box. Rated impulse Voltage 800V. Type of action 1. Control pollution degree 3.

## ⚒ INSTALLATION NOTES

Ⓐ Actuators with appliance cables are numbered.

⚠2 Actuators may be connected in parallel. Power consumption and input impedance must be observed.

◆ Meets cULus requirements without the need of an electrical ground connection.

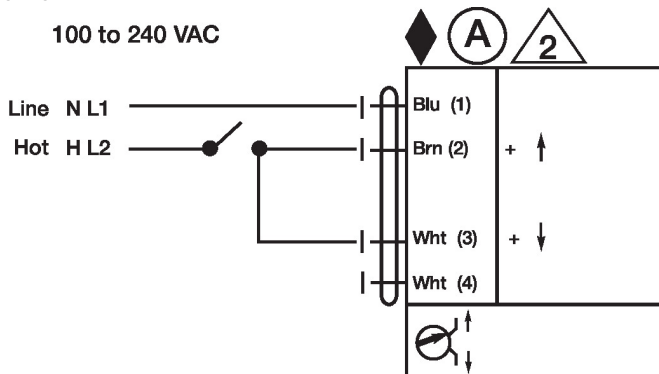⚠ **Warning! Live electrical components!**
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components 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

**100 to 240 VAC**

Floating Point

**100 to 240 VAC**