



5-year warranty

**Type overview**

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

**Technical data**

<b>Functional data</b>	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]
<b>Materials</b>	Hardware	SS and Nickel plated steel
	Frame, plate, base	aluminum
	Coupling	GF Nylon supplied
<b>Suitable actuators</b>	Non-Spring	LVB(X) SVB(X)
	Electrical fail-safe	LVKB(X) SVKB(X)

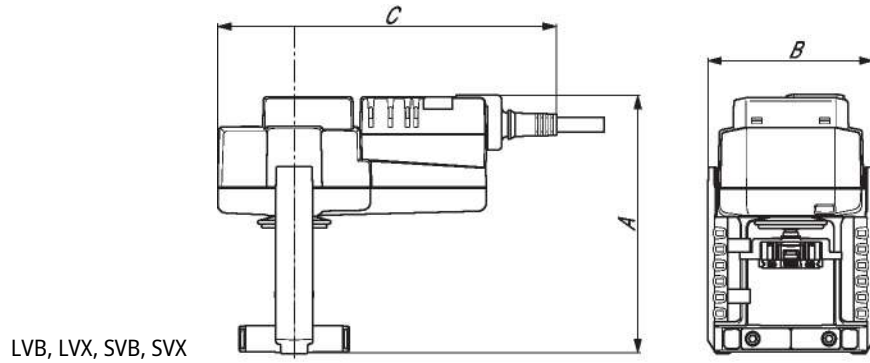
For close-off pressure reference Select Pro or retrofit technical documentation.

**Product features**

<b>Default/Configuration</b>	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.
<b>Application</b>	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 1/2" to 2" two-way or three-way valves in both normally open and normally closed configurations.
<b>Operation</b>	The BGVL linkage with actuator will provide 20 mm of linear travel to accommodate a wide range of valve sizes.

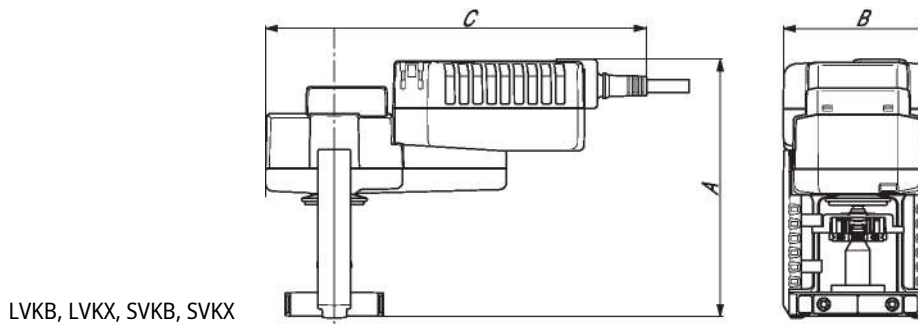
**Dimensions**

Type	Weight
BGVL	1.1 lb [0.50 kg]



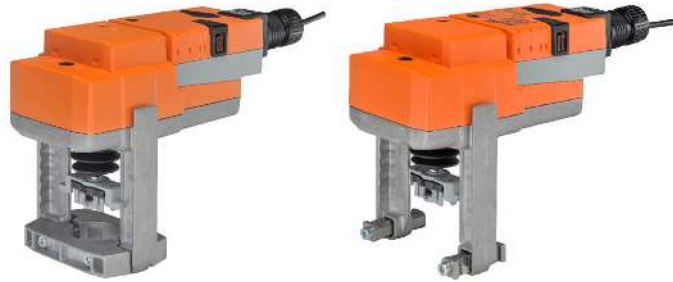
LVB, LVX, SVB, SVX

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]



5-year warranty



## Technical data

<b>Electrical data</b>	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	1.5 W
	Power consumption in rest position	2 W
	Transformer sizing	4 VA (class 2 power source)
	Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector, degree of protection NEMA 2 / IP54
	Overload Protection	electronic throughout full stroke
	Electrical Protection	actuators are double insulated
	<b>Functional data</b>	Actuating force motor
Operating range Y		2...10 V
Operating range Y note		4...20 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
Input Impedance		100 kΩ for 2...10 V (0.1 mA), 500 Ω for 4...20 mA
Position feedback U		2...10 V
Position feedback U note		Max. 0.5 mA
Direction of motion motor		selectable with switch
Manual override		4 mm hex crank (shipped w/actuator)
Stroke		0.75" [19 mm]
Running Time (Motor)		90 s /
Running time motor note		constant, independent of load
Noise level, motor		45 dB(A)
Position indication		Mechanically, with pointer
<b>Safety data</b>		Degree of protection IEC/EN
	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
	<b>Materials</b>	Housing material

**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.

## Electrical installation

**INSTALLATION NOTES**

- Actuators may also be powered by DC 24 V.
- Only connect common to negative (-) leg of control circuits.
- A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.
- Actuators with plenum cable do not have numbers; use color codes instead.
- 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**

VDC / 4 to 20 mA

