

series actuators

• Belimo Globe Valve Linkage with LV and SV

## **Technical data sheet**





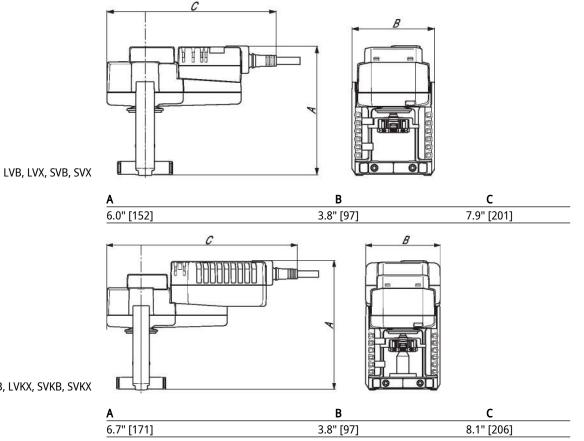
# Type overview

Туре	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	0.52" [1550]
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 Selec	t Pro or retrofit technical documentation.
Product features		
Default/Configuration		will be factory installed along with a LV or SV series the necessary hardware to facilitate mounting to the
Application	tapered bonnet and notched stem de	ach LV and SV series actuators to Belimo Globe Valves. The sign allow easy installation of the BGVL on ½" to 2" two- nally open and normally closed configurations.
Operation	The BGVL linkage with actuator will p range of valve sizes.	rovide 20 mm of linear travel to accommodate a wide
Dimensions		
Туре		Weight
BGVL	1	.1 lb [0.50 kg]





LVKB, LVKX, SVKB, SVKX



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# SVKB24-MFT





## **Technical data**

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	3 W
	Power consumption in rest position	2 W
	Transformer sizing	7 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
Functional data	Actuating force motor	1500 N [340 lbf]
	Operating range Y	210 V
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
	Input Impedance	100 k $\Omega$ for 210 V (0.1 mA), 500 $\Omega$ for 420 mA, 1500 $\Omega$ for PWM, On/Off and Floating point
	Operating range Y variable	Start point 0.530 V End point 2.532 V
	Options positioning signal	variable (VDC, PWM, on/off, floating point)
	Position feedback U	210 V
	Position feedback U note	Max. 0.5 mA
	Position feedback U variable	VDC variable
	Bridging time (PF)	2 s
	Pre-charging time	520 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	35150 s
	Running time fail-safe	<35 s
	Noise level, motor	45 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	-22122°F [-3050°C]



Technical data sheet

Storage temperature

Ambient humidity

Housing material

Servicing

Safety data

Materials

Footnotes

SVKB24-MFT

-40...176°F [-40...80°C]

maintenance-free

<sup>†</sup> 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

Max. 95% RH, non-condensing

Die cast aluminium and plastic casing

Accessories	

Gateways	Description	Туре
	Gateway MP to BACnet MS/TP	UK24BAC
	Gateway MP to Modbus RTU	UK24MOD
	Gateway MP to LonWorks	UK24LON
lectrical accessories	Description	Туре
	Belimo PC-Tool, Software for adjustments and diagnostics	MFT-P
	Auxiliary switch 2 x SPDT for NG GV Actuators	S2A-GV
	Service Tool, with ZIP-USB function, for programmable and	ZTH US
	communicative Belimo actuators, VAV controller and HVAC performance	
	devices	
Service tools	Description	Туре
	Connection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidmüller and supply connection	ZK4-GEN
	Service Tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US

Voltage 800V. Type of action 1. Control pollution degree 3.

## **Electrical installation**

## X INSTALLATION NOTES

- Actuators may be connected in parallel. Power consumption and input impedance must be observed.
- Actuators may also be powered by DC 24 V.
- A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.
- 🚯 Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 V line.
- For triac sink the common connection from the actuator must be connected to the hot connection of the controller. Contact closures A & B also can be triacs. A & B should both be closed for the triac source and open for triac sink.

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.



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