RGVI

Belimo Globe Valve Linkage with LV and SV series actuators





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IVIDA	overview
IVDC	OACIAICAA

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)

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.

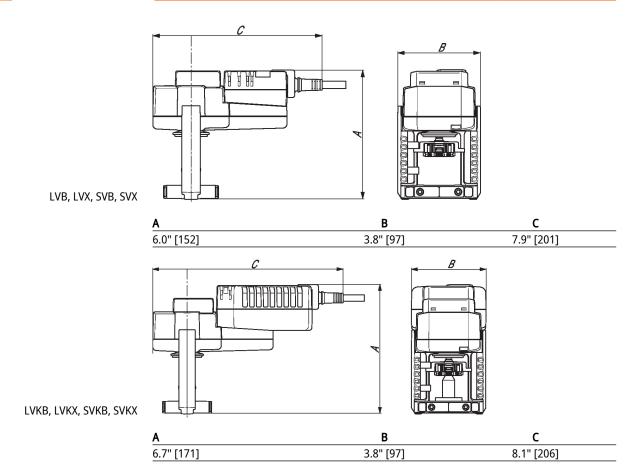
Operation The BGVL linkage with actuator will provide 20 mm of linear travel to accommodate a wide

range of valve sizes.

Dimensions

Туре	Weight	
BGVL	1.1 lb [0.50 kg]	





Technical data sheet

SVB24-SR

Modulating, Non-Spring Return, Linear, 24 V, for DC 2...10 V or 4...20 mA



		REG. EQUIP.
Technical data		
Electrical data	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
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 Ω for 210 V (0.1 mA), 500 Ω for 420 mA
	Position feedback U	210 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
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]
	Storage temperature	-40176°F [-4080°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.



Electrical installation

X INSTALLATION NOTES

Actuators may also be powered by DC 24 V.

6 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

