Technical data sheet

BGVI







Type		

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 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.

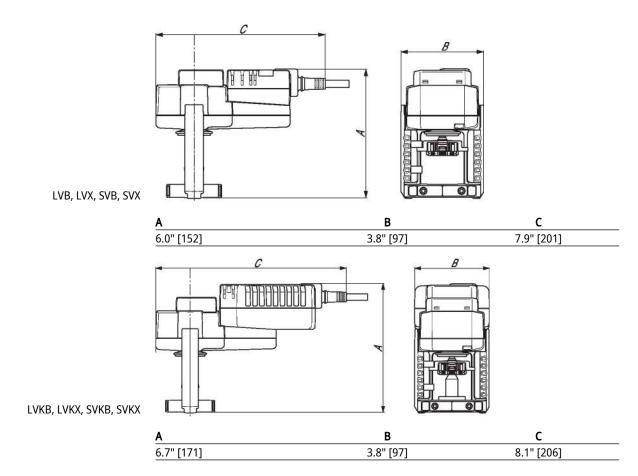
Operation The BGVL linkage with actuator will provide 20 mm of linear travel to accommodate a wide

range of valve sizes.

Dimensions

Туре	Weight
BGVL	1.1 lb [0.50 kg]







Modulating, Fail-Safe Operation, Linear, 24 V, Multi-Function Technology®

Technical data sheet

LVKX24-MFT







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Electrical data	Nominal voltage	AC/DC 24 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 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	500 N [115 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, 1500 Ω 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	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
		00 10005500 50005

Ambient temperature

-22...122°F [-30...50°C]



Technical data sheet	LVKX24-MFT
Storage temperature	-40176°F [-4080°C]
Ambient humidity	Max. 95% RH, non-condensing
Servicing	maintenance-free

Die cast aluminium and plastic casing

Footnotes

Materials

Housing material

Safety data

† 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.

Accessories

Gateways	Description	Туре
	Gateway MP to BACnet MS/TP	UK24BAC
	Gateway MP to Modbus RTU	UK24MOD
	Gateway MP to LonWorks	UK24LON
Electrical accessories	Description	Туре
	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

Electrical installation



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.

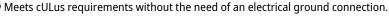


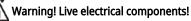
 \bigwedge A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

(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.





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

