## UGVL Universal Globe Valve Linkage For Use with LV and SV Series Actuators





### Application

The UGVL retrofit kit is designed to easily attach LV and SV series actuators to select globe valves. Its unique adjustable design allows the UGVL to be mounted on  $\frac{1}{2}$  to 2" two-way or three-way valves in both normally open and normally closed configurations.

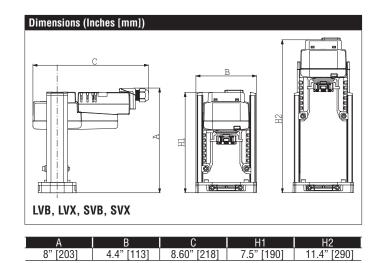
### Operation

The UGVL linkage with actuator will provide 20 mm of linear travel to accommodate a wide range of valves.

#### **Default/Configuration**

The default set up for a UGVL 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 valve.

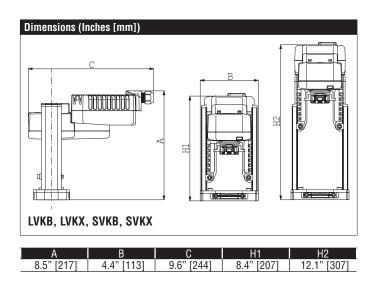
Suitable Actuators		
	Non-Spring	Electronic Fail-Safe
UGVL	LVB(X), SVB(X)	LVKB(X), SVKB(X)



Technical Data	
Service	chilled or hot water and steam
Applicable Valve Size	1/2" [13], 3/4" [19], 1" [25], 1-1/4" [32], 1-1/2" [38], 2" [50]
Frame, plate, base	aluminum, steel
Collar	aluminum, steel, (fits bonnets up to 1.7" dia both threaded or notched.)
Coupling	GF Nylon supplied
Stem Adaptor	aluminum, steel (fits stems up to .66" dia both threaded or slotted.)
Stroke	0.6" [15 mm] LV, 3/4" [20 mm] SV
Mounting Position	360°
Media Temperature Range (Water)	20°F to 250°F [-7°C to 120°C]
Media Temperature Range (Steam)	32°F to 338°F [0°C to 170°C]
Weight	4.2 lb [1.9 kg]
For close off proceurs reference	Select Pro or Patrofit Technical Documentation

For close-off pressure reference Select Pro or Retrofit Technical Documentation.









Power Supply24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%Power Consumption Holding3 WPower Consumption Holding2 WTransformer Sizing7 VA (class 2 power source)Electrical Connection3 ft, 18 GA plenum rated cable with 1/2" conduit connector protected NEMA 2 (IP54)Overload Protectionelectronic throughout full strokeElectrical Protectionactuators are double insulatedOperating Range Y2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)Input Impedance100 k Ω for 2 to 10 VDC (0.1 mA), 500 Ω for 4 to 20 mAFeedback Output U2 to 10 VDCStroke0.6" [15 mm] LV, 3/4" [20 mm] SVLinear Force337 lbf [1500 N force]Direction of Rotation (Motor)reversible with switchDirection of Rotation (Motor)90 sec (default), Optional (90 or 150 sec)Running Time (Motor)90 sec (default), Optional (90 or 150 sec)Running Time (Fail-Safe)35 secBridge Time2 sec delay before fail-safe activatesPre-charging Time5 to 20 secondsHumidity5 to 95% RH non-condensingAmbient Temperature Range-40°F to +176°F [-40°C TO +80°C]Housing MaterialAluminum die cast and plastic casingAgency Listings†cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/ECNoise Level (Motor)<45 dB (A)Noise Level (Motor)<45 dB (A)Noise Level (Motor)<45 dB (A)Noise Level (Motor)<45 dB (A)Noise Level (Motor)<45 dB (A)<	Technical Data	
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E60730-1:02, CE acc. to 2004/108/EC and 2006/95/ECNoise Level (Motor)<45 dB (A)	Housing Material	Aluminum die cast and plastic casing
Noise Level (Fail-Safe)<60 dB (A)Servicingmaintenance freeQuality StandardISO 9001	Agency Listings†	E60730-1:02, CE acc. to 2004/108/EC and
Servicingmaintenance freeQuality StandardISO 9001		<45 dB (A)
Quality Standard ISO 9001	Noise Level (Fail-Safe)	<60 dB (A)
5	Servicing	maintenance free
Weight 3.5 lb [1.6 kg]	Quality Standard	ISO 9001
	Weight	3.5 lb [1.6 kg]

† 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.



#### Wiring Diagrams

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# 🔀 INSTALLATION NOTES

Actuators may also be powered by 24 VDC.

Only connect common to negative (-) leg of control circuits.

A 500  $\Omega$  resistor (ZG-R01) converts the 4 to 20 mA control signal to 2 to 10 VDC.

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.

