

WGVL Warren Globe Valve Linkage

For Use with AVK and EV and RV Series Actuators



Technical Data	
Fluid	chilled or hot water and steam
Applicable Valve Size	2" [51], 2-1/2" [64], 3" [80], 4" [101], 5" [127], 6" [152]
Hardware	SS and Nickel plated steel
Stem	316 stainless steel
Stem Adaptor	steel
Frame, plate, base	aluminum, steel (fits Warren Type 20,22,23,30, and 32) and Belimo G6/G7
Collar	steel
Coupling	GF Nylon supplied
Housing material	Die cast aluminium and plastic casing
Stroke	2" [50 mm]
Mounting Position	360°
Weight	5.7 lb [2.6 kg]
Fluid Temp Range (water)	Please Refer to Manufacturer's Valve Specifications

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

Application

Operation

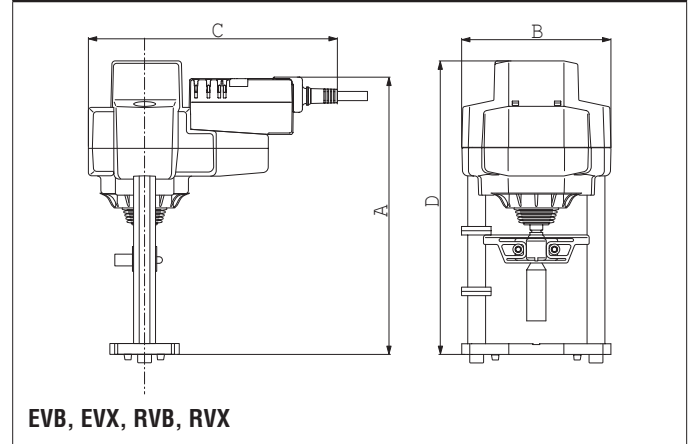
Default/Configuration

The default set up for a WGVL linkage will be factory installed along with an AVK or EV, RV series actuator. Included in the kit will be all the necessary hardware to facilitate mounting to the Warren valve.

Suitable Actuators

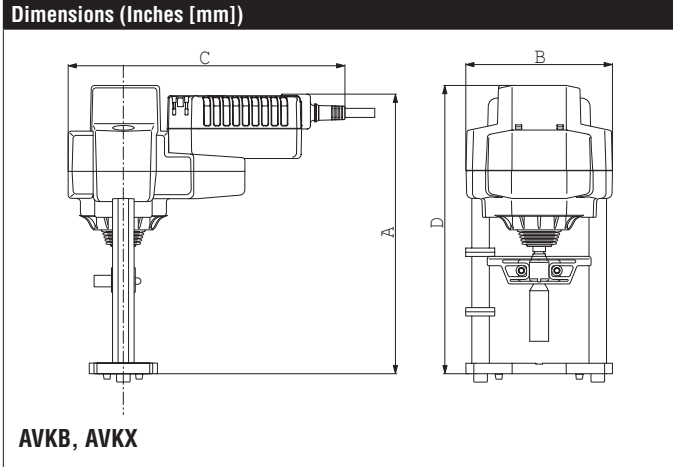
	Non-Spring	Electronic fail-safe
WGVL	EVB(X), RVB(X)	AVKB(X)

Dimensions (Inches [mm])



EVB, EVX, RVB, RVX

A	B	C	D
10.2" [260]	5.5" [140]	9.2" [234]	12.2" [310]



A	B	C	D
10.4" [264]	5.5" [140]	10.3" [262]	10.9" [276]

EVB120-3 Technical Data Sheet

On/Off, Floating Point, Non-Spring Return, Linear, AC 100...240 V



5-year warranty



Technical Data	
Power Supply	100...240 VAC, ±20%, 50/60 Hz
Power consumption in operation	5 W
Power consumption in rest position	1.5 W
Transformer sizing	7.5 VA (class 2 power source)
Electrical Connection	18 GA appliance cable with 1/2" conduit connector, 3 ft [1 m], degree of protection NEMA 2 / IP54
Overload Protection	electronic throughout full stroke
Electrical Protection	actuators are double insulated
Input Impedance	100 kΩ (0.1 mA), 500 Ω, 1000 Ω (on/off)
Position Feedback	No Feedback
Stroke	2" [50 mm]
Actuating force motor	560 lbf [2500 N]
Direction of motion motor	selectable with switch 0/1
Position indication	Mechanically, with pointer
Manual override	5 mm hex crank (3/16" Allen), supplied
Running Time (Motor)	90 s, constant, independent of load
Ambient humidity	max. 95% r.H., non-condensing
Ambient temperature	-22...122°F [-30...50°C]
Storage temperature	-40...176°F [-40...80°C]
Degree of Protection	IP54, NEMA 2, UL Enclosure Type 2
Housing material	Die cast aluminium and plastic casing
Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU
Noise level, motor	60 dB(A)
Servicing	maintenance-free
Quality Standard	ISO 9001
Weight	5.73 lb [2.6 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.

Date created, 01/27/2020 - Subject to change. © Belimo Aircontrols (USA), Inc.

Wiring Diagrams

INSTALLATION NOTES

- Actuators with appliance cables are numbered.
- Actuators may be connected in parallel. Power consumption and input impedance must be observed.
- 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.

