WGVL Warren Globe Valve Linkage





chilled or hot water and steam

Aluminum die cast and plastic casing

20°F to 250°F [-7°C to 120°C]

32°F to 338°F [0°C to 170°C]

[152]

steel

steel

360°

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

2" [50 mm]

5.7 lb [2.6 kg]

316 stainless steel

GF Nylon supplied

32) and Belimo G6/G7

2" [51], 2-1/2" [64], 3" [80], 4" [101], 5" [127], 6"

aluminum, steel (fits Warren Type 20,22,23,30, and



Technical Data Service

Stem

Collar

Coupling

Stroke

Applicable Valve Size

Frame, plate, base

Housing Material

Mounting Position

Media Temperature

Media Temperature Range (Steam) Weight

Range (Water)

Stem Adaptor

Hear
WARRANTY

	tion

The WGVL retrofit kit is designed to easily attach AVK, EV and RV series actuators to select Warren globe valves. Its casted base and lower lock nut allow the WGVL to be mounted on 2-1/2" to 6" two-way or three-way valves in both normally open and normally closed configurations.

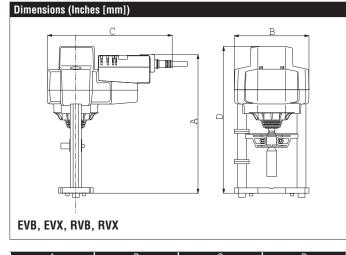
Operation

The WGVL linkage with actuator will provide 50 mm of linear travel to accommodate a wide range of valve sizes.

Default/Configuration

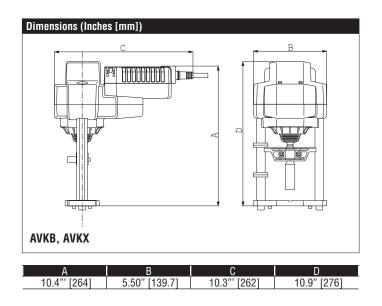
The default set up for a WGVL linkage will be factory installed along with an AVK or EV, RV series actuator. Included in the kit will be all the necessary hardware to facilitate mounting to the Warren valve.

Suitable Actuators				
	Non-Spring	Electronic Fail-Safe		
WGVL	EVB(X), RVB(X)	AVKB(X)		



А	В	С	D
10.2" [259]	5.50" [139.7]	9.20" [234]	12.22" [310.4]









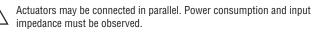
Technical Data	
Power Supply	24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%
Power Consumption Running	6 W
Power Consumption Holding	1.5 W
Transformer Sizing	11 VA (class 2 power source)
Electrical Connection	3 ft, 18 GA plenum rated cable with 1/2" conduit connector protected NEMA 2 (IP54)
Overload Protection	electronic throughout full stroke
Electrical Protection	actuators are double insulated
Operating Range Y	2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 Ω , 1/4 W resistor), variable (VDC, floating point, on/off)
Input Impedance	100 k Ω for 2 to 10 VDC (0.1 mA), 500 Ω for 4 to 20 mA, 1500 Ω for 0n/Off
Feedback Output U	2 to 10 VDC
Stroke	2" [50 mm]
Linear Force	1011 lbf [4500 N force]
Direction of Rotation (Motor)	reversible with switch
Position Indication	stroke indicator on bracket
Manual Override	5 mm hex crank (3/16" Allen), supplied
Running Time (Motor)	90 sec, constant independent of load
Humidity	5 to 95% RH non-condensing
Ambient Temperature Range	-22°F to +122°F [-30°C to +50°C]
Storage Temperature Range	-40°F to +176°F [-40°C TO +80°C]
Housing	NEMA 2, IP54, UL enclosure type 2
Housing Material	Aluminum die cast and plastic casing
Agency Listings†	CULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC
Noise Level (Motor)	<65 dB (A)
Servicing	maintenance free
Quality Standard	ISO 9001
Weight	9 lb [4.1 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.

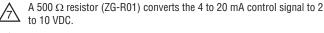


Wiring Diagrams

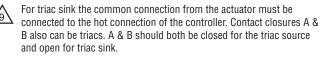
< INSTALLATION NOTES



Actuators may also be powered by 24 VDC.



Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 VAC line.



For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller; the actuator internal common reference is not compatible.



IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).

<u>/18</u>

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.

