WGVL Warren Globe Valve Linkage For Use with AVK and EV and RV Series Actuators

BELIMO





Technical Data			
Service	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		
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	Aluminum die cast and plastic casing		
Stem Adaptor	steel		
Stroke	2" [50 mm]		
Mounting Position	360°		
Media Temperature Range (Water)	Please Refer to Manufacturer's Valve Specifications		
Weight	5.7 lb [2.6 kg]		

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

Application

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

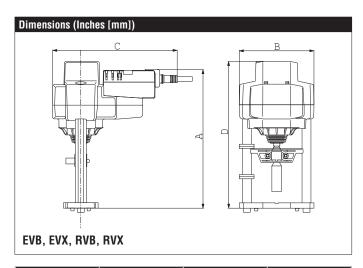
The WGVL linkage with actuator will provide 50 mm of linear travel to accommodate a wide range of valve sizes.

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

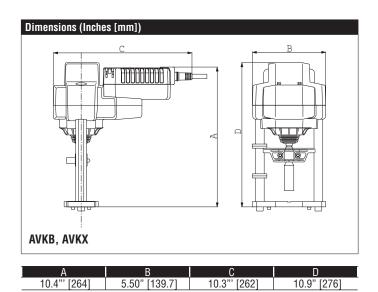
	Non-Spring	Electronic Fail-Safe
WGVL	EVB(X), RVB(X)	AVKB(X)



A	В	C	D
10.2" [259]	5.50" [139.7]	9.20" [234]	12.22" [310.4]



WGVL Warren Globe Valve Linkage For Use with AVK and EV and RV Series Actuators



RVB24-3 On/Off, Floating Point, Non-Spring Return, Linear, 24 V











24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%		
6 W		
1.5 W		
11 VA (class 2 power source)		
3 ft, 18 GA plenum rated cable with 1/2"		
conduit connector protected NEMA 2 (IP54)		
electronic throughout full stroke		
actuators are double insulated		
on/off, floating point		
100 k Ω (0.1 mA), 500 Ω, 1000 Ω (on/off)		
No Feedback		
2" [50 mm]		
1011 lbf [4500 N force]		
reversible with switch		
stroke indicator on bracket		
5 mm hex crank (3/16" Allen), supplied		
90 sec, constant independent of load		
5 to 95% RH non-condensing		
t Temperature Range -22°F to 122°F [-30°C to 50°C]		
-40°F to 176°F [-40°C to 80°C]		
NEMA 2, IP54, UL enclosure type 2		
Aluminum die cast and plastic casing		
cULus acc. to UL60730-1A/-2-14, CAN/CSA		
E60730-1:02, CE acc. to 2004/108/EC and		
2006/95/EC		
<65 dB (A)		
maintenance free		
ISO 9001		

[†] 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



X INSTALLATION NOTES



Actuators may be connected in parallel. Power consumption and input impedance must be observed.



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. 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



Meets cULus requirements without the need of an electrical ground



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.

