# FGVL Flanged Globe Valve Linkage For Use with AVK and EV and RV Series Actuators





Technical Data			
Service	chilled or hot water and steam		
Applicable Valve Size	2-1/2" [64], 3" [80], 4" [101], 5" [127], 6" [152]		
Stem	316 stainless steel		
Frame, plate, base	aluminum, steel (fits competitor bonnets up to 2.3"		
	dia.)		
Collar	aluminum		
Coupling	GF Nylon supplied		
Housing Material	Aluminum die cast and plastic casing		
Stem Adaptor	steel/Aluminum		
Stroke	1.25" [32 mm] AVK, 2" [50 mm] EV/RV		
Mounting Position	360°		
Media Temperature	20°F to 250°F [-7°C to 120°C]		
Range (Water)			
Media Temperature	32°F to 338°F [0°C to 170°C]		
Range (Steam)			
Weight	9 lb [4.1 kg]		

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



## **Application**

The FGVL retrofit kit is designed to easily attach AVK, EV and RV series actuators to select Flanged globe valves requiring larger stem travels and higher forces. Its casted base and lower locking clamp allow the FGVL to be mounted on 2-1/2" to 6" two-way or three-way valves in both normally open and normally closed configurations.

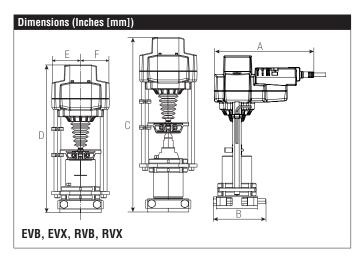
The FGVL linkage with actuator will provide up to 2" [50 mm] of linear travel to accommodate a wide range of valve sizes.

# **Default/Configuration**

The default set up for a FGVL 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 valve.

**Suitable Actuators** 

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



Α	В	С	D	E	F
9.2" [234]	5.00"	16.73"	14.00"	2.78	" [71]
	[127.0]	[425]	[356]		



# **FGVL Flanged Globe Valve Linkage** For Use with AVK and EV and RV Series Actuators

# Dimensions (Inches [mm]) AVKB, AVKX

А	В	С	D	Е	F
10.25"	5.00"	16.73"	14.00"	2.78	" [71]
[260]	[127 0]	[425]	[356]		









REG. EQUIP.
24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%
5 W
1.5 W
7.5 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
2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 $\Omega$ , 1/4 W resistor)
100 k Ω for 2 to 10 VDC (0.1 mA), 500 Ω for 4
to 20 mA
2 to 10 VDC
2" [50 mm]
562 lbf [2500 N force]
reversible with built-in 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
-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
<60 dB (A)
maintenance free
ISO 9001

<sup>†</sup> 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 also be powered by 24 VDC.



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.

