BELIMO

Technical data sheet FGVL

• Universal Flanged Globe Valve Linkage with EV, RV, and AVK actuators

5-year warranty

Type overview

Type	Stroke
FGVL	1.25" [32 mm] AVK, 2" [50 mm] EV/RV

Technical data

Functional data	Fluid	chilled or hot water and steam
	Fluid Temp Range (water)	Please Refer to Manufacturer's Valve Specifications
	Mounting Position	360°
	Applicable valve size	2.5...6" [65...150]
Materials	Hardware	SS and Nickel plated steel
	Housing material	Die cast aluminium and plastic casing
	Stem	316 stainless steel
	Stem adapter	steel/Aluminum
	Frame, plate, base	aluminum, steel (fits competitor bonnets up to 2.3" dia.)
	Collar	aluminum
	Coupling	GF Nylon supplied
Suitable actuators	Non-Spring	EVB(X) RVB(X)
	Electrical fail-safe	AVKB(X)

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

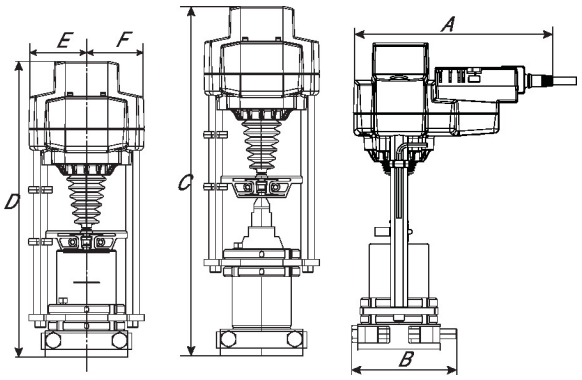
Product features

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.

Dimensions

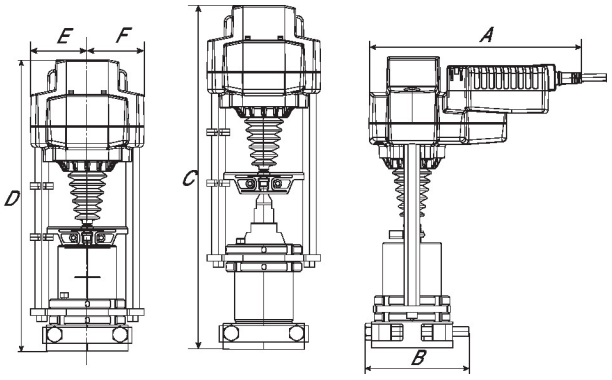
Type	Weight
FGVL	9.0 lb [4.1 kg]

EVB, EVX, RVB, RVX



A	B	C	D	E	F
9.2" [234]	5.0" [127]	16.7" [425]	14.0" [355]	2.8" [71]	2.8" [71]

AVKB, AVKX



A	B	C	D	E	F
10.2" [260]	5.0" [127]	16.7" [425]	14.0" [355]	2.8" [71]	2.8" [71]

BELIMO

On/Off, Floating Point, Electrical Fail-Safe, Linear, 24 V

Technical data sheet AVKB24-3

5-year warranty

Technical data

Electrical data	Nominal voltage	AC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2...28.8 V
	Power consumption in operation	5 W
	Power consumption in rest position	2 W
	Transformer sizing	9.5 VA
	Electrical Connection	18 GA plenum cable, 1 m, with 1/2" conduit connector, degree of protection NEMA 2 / IP54
	Overload Protection	electronic throughout full stroke
	Electrical Protection	actuators are double insulated
Functional data	Actuating force motor	2000 N [450 lbf]
	Position feedback U note	No Feedback
	Bridging time (PF)	2 s
	Pre-charging time	5...20 s
	Direction of motion motor	selectable with switch
	Direction of motion fail-safe	reversible with switch
	Manual override	5 mm hex crank (3/16" Allen), supplied
	Stroke	1.25" [32 mm]
	Running Time (Motor)	90 s /
	Running time motor note	constant, independent of load
	Running time fail-safe	<35 s
	Noise level, motor	60 dB(A)
	Noise level, fail-safe	60 dB(A)
	Position indication	Mechanical, with pointer
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	UL Enclosure Type 2
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU
	Quality Standard	ISO 9001
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-22...122°F [-30...50°C]
	Storage temperature	-40...176°F [-40...80°C]
	Servicing	maintenance-free
Weight	Weight	6.39 lb [2.9 kg]
Materials	Housing material	Die cast aluminium and plastic casing

Footnotes † 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.

Electrical installation

INSTALLATION NOTES

Meets cULus requirements without the need of an electrical ground connection.

1 Provide overload protection and disconnect as required.

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

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

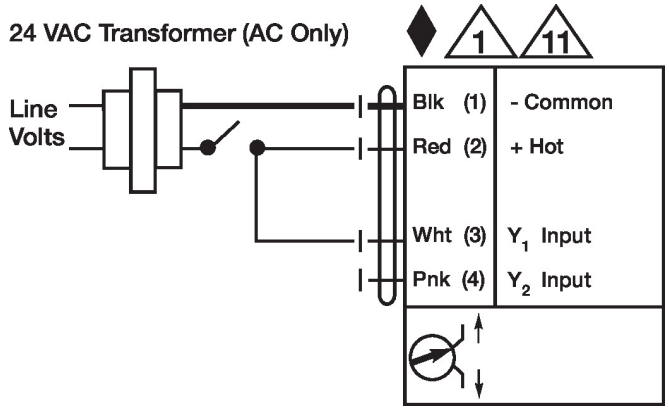
11 Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

18 Actuators with plenum cable do not have numbers; use color codes instead.

! **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.

Wiring diagrams

On/Off



Floating Point