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





Type overview		
Туре	Stroke	
FGVI	1 25" [32 mm] AVK 2" [50 mm] FV/RV	

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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	2.56" [65150]	
	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	
Sui	table actuators	Non-Spring	EVB(X) RVB(X)	
		Electrical fail-safe	AVKB(X)	

Product features

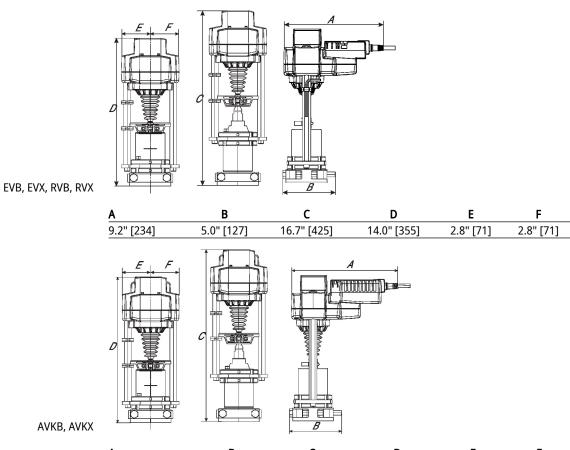
Default/Configuration

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.

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

Dimensions	
Туре	Weight
FGVL	9.0 lb [4.1 kg]





AVKB, AVKX

Α	В	С	D	E	F
10.2" [260]	5.0" [127]	16.7" [425]	14.0" [355]	2.8" [71]	2.8" [71]



Technical data sheet

EVX24-MFT

Modulating, Non-Spring Return, Linear, 24 V, Multi-Function Technology®







Technical data

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Nominal voltage	AC/DC 24 V
Nominal voltage frequency	50/60 Hz
Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
Power consumption in operation	5 W
Power consumption in rest position	1.5 W
Transformer sizing	7.5 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	2500 N [560 lbf]
Operating range Y	210 V
Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
Input Impedance	100 k Ω for 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω for PWM, On/Off and Floating point
Operating range Y variable	Start point 0.530 V End point 2.532 V
Operating modes optional	variable (VDC, PWM, on/off, floating point)
Position feedback U	210 V
Position feedback U note	Max. 0.5 mA
Position feedback U variable	VDC variable
Direction of motion motor	selectable with switch 0/1
Manual override	5 mm hex crank (3/16" Allen), supplied
Stroke	2" [50 mm]
Running Time (Motor)	90 s /
Running time motor variable	90150 s
Noise level, motor	60 dB(A)
Position indication	Mechanically, 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
UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
Ambient humidity	Max. 95% RH, non-condensing



	Technical data sheet	EVX24-MFT
Safety data	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	5.73 lb [2.6 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.

cessories		
Gateways	Description	Туре
	Gateway MP to BACnet MS/TP	UK24BAC
	Gateway MP to Modbus RTU	UK24MOD
	Gateway MP to LonWorks	UK24LON
Electrical accessories	Description	Туре
	Belimo PC-Tool, Software for adjustments and diagnostics	MFT-P
	Auxiliary switch 2 x SPDT for NG GV Actuators	S2A-GV
	Service Tool, with ZIP-USB function, for programmable and	ZTH US
	communicative Belimo actuators, VAV controller and HVAC performance devices	
Tools	Description	Туре
	Connection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidmüller and supply connection	ZK4-GEN

Service Tool, with ZIP-USB function, for programmable and

communicative Belimo actuators, VAV controller and HVAC performance

Electrical installation



devices

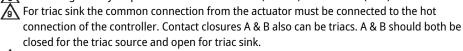
> INSTALLATION NOTES

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



 \checkmark Actuators may also be powered by DC 24 V.

 Λ A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V. <u> R</u> Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 V line.





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.

ZTH US



Wiring diagrams

