

Technical data sheet

FGVL

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





Type overview

Туре	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	2.56" [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
Suitable actuators	Non-Spring	EVB(X)
		RVB(X)
	Electrical fail-safe	AVKB(X)
	For close-off pressure reference Select Pro or retrofit technical documentation.	
Default/Configuration		will be factory installed along with an AVK or EV, RV series
	actuator. Included in the kit will be al	l the necessary hardware to facilitate mounting to the

Dimensions

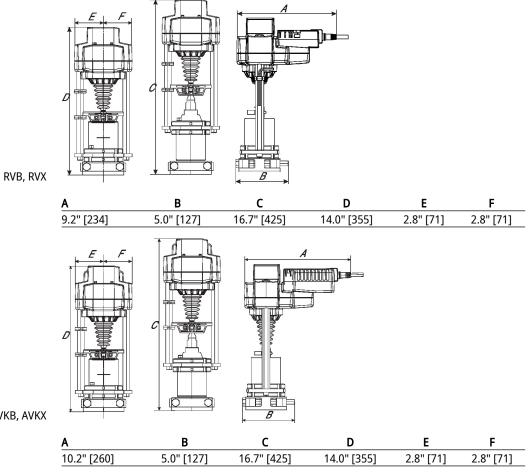
Product features

Туре	Weight
FGVL	9.0 lb [4.1 kg]

valve.







EVB, EVX, RVB, RVX

AVKB, AVKX

www.belimo.us



Multi-Function Technology®

Modulating, Non-Spring Return, Linear, 24 V,

Technical data sheet

RVX24-MFT





Technical data

Nominal voltage frequency50/60 HzPower consumption in operation6 W	
Power consumption in rest position 1.5 W	
Transformer sizing 11 VA (class 2 power source)	
Electrical Connection 18 GA plenum cable, 3 ft [1 m], wi conduit connector, degree of prot 2 / IP54	
Overload Protection electronic throughout full stroke	
Electrical Protection actuators are double insulated	
Functional data Actuating force motor 4500 N [1010 lbf]	
Operating range Y 210 V	
Operating range Y note $420 \text{ mA w}/\text{ZG-R01}$ (500 Ω , 1/4 V	V resistor)
Input Impedance 100 kΩ for 210 V (0.1 mA), 500 Ω mA, 1500 Ω for On/Off	Ω for 420
Operating range Y variable Start point 0.530 V End point 2.532 V	
Options positioning signal variable (VDC, on/off, floating poi	nt)
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	
Manual override 5 mm hex crank (3/16" Allen), sup	plied
Stroke 2" [50 mm]	
Running Time (Motor) 90 s /	
Running time motor variable 90150 s	
Noise level, motor 65 dB(A)	
Position indication Mechanically, with pointer	
Safety data 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, C E60730-1:02, CE acc. to 2014/30/E 2014/35/EU	
Quality Standard ISO 9001	
Ambient temperature-22122°F [-3050°C]	
Storage temperature -40176°F [-4080°C]	
Ambient humidity Max. 95% RH, non-condensing	
Servicing maintenance-free	



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 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.

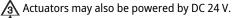
Accessories

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
	Battery backup system, for non-spring return models	NSV24 US
	Battery, 12 V, 1.2 Ah (two required)	NSV-BAT
	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	
Service 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 devices	ZTH US

Electrical installation

X INSTALLATION NOTES

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



A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

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

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

A 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.





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