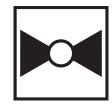






5-year warranty



Technical data

Functional data

3" [80]
chilled or hot water, up to 60% glycol, steam
32350°F [0176°C]
32338°F [0170°C]
ANSI Class 125, up to 175 psi below 150°F
linear
repack/rebuild kits available
91:1
50 psi [345 kPa]
2-way
ANSI Class III
stem up - open A – AB
90
100 psi [690 kPa]
125
up to 175 psi below 150°F
Cast iron - ASTM A126 Class B
Stainless steel
NLP EPDM (no lip packing)
Stainless steel AISI 316
125 lb flanged
EVB(X)
AVKB(X)

Safety notes



Suitable actuators

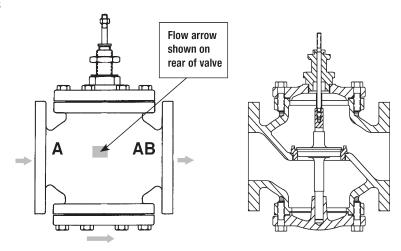
Materials

- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and
 must not be used outside the specified field of application, especially in aircraft or in any other airborne
 means of transport.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- The valve does not contain any parts that can be replaced or repaired by the user.
- When determining the flow rate characteristic of controlled devices, the recognised directives must be observed.

Product features

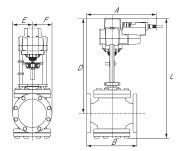


Flow/Mounting details

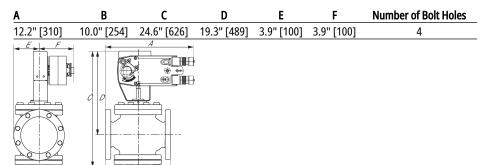


Dimensions

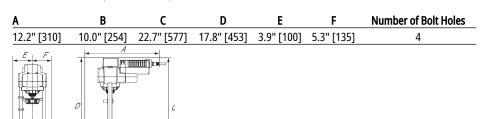
Dimensional drawings



EVB, EVX, RVB, RVX



AFB, AFX



AVKB, AVKX

A	В	С	D	E	F	Number of Bolt Holes
12.2" [310]	10.0" [254]	24.6" [626]	19.3" [489]	3.9" [100]	3.9" [100]	4



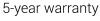
Modulating, Non-Spring Return, Linear, 24 V, Multi-Function Technology®

Technical data sheet











Tec	hni	ical	d	ata	

Electrical data	Nominal voltage	AC/DC 24 V		
	Nominal voltage frequency	50/60 Hz		
	Power consumption in operation	5 W		
	Power consumption in rest position	1.5 W		
	Transformer sizing	7.5 VA (class 2 power source)		
	Electrical Connection	18 GA plenum cable, 3 ft [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	560 lbf [2500 N]		
	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		
	Options positioning signal	variable (VDC, PWM, on/off, floating point)		
	Position feedback U	210 V		
	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)	default 35 s, variable 3590 s		
	Running time motor variable	3590 s		
	Noise level, motor	60 dB(A)		

Safety data

Weight

Position indication	Mechanically, with pointer
Degree of protection IEC/EN	IP54
Degree of protection NEMA/UL	NEMA 2 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; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC
Quality Standard	ISO 9001
Ambient temperature	-22122°F [-3050°C]
Storage temperature	-40176°F [-4080°C]
Ambient humidity	max. 95% r.H., non-condensing
Servicing	maintenance-free
Weight	5.73 lb [2.6 kg]

Technical data sheet EVCX24-MFT

Materials Housing material Die cast aluminium and plastic casing

Safety notes



- PVC W'Shld for GV w/UGLK (GM)
- Battery Back Up System for SY(7~10)-110
- 120 to 24 VAC, 40 VA transformer.
- 50% voltage divider kit (resistors with wires).
- PC Tool computer programming interface, serial port.

Accessories

Gateways	Description	Туре
	Gateway MP to BACnet MS/TP	UK24BAC
	Gateway MP to LonWorks	UK24LON
	Gateway MP to Modbus RTU	UK24MOD
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 parametrisable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US

Electrical installation



INSTALLATION NOTES

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

Actuators may also be powered by 24 VDC.

 \bigwedge 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.

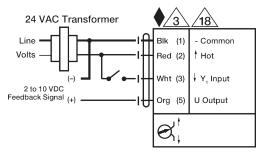
For triac sink the common connection from the actuator must be connected to the hot connection of the controller. Contact closures A & B also can be triacs. A & B should both be closed for the triac source and open for triac sink.

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

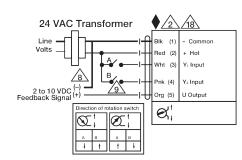
Meets cULus requirements without the need of an electrical ground connection.

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.

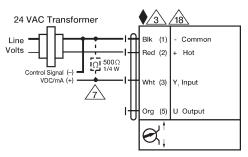


On/Off

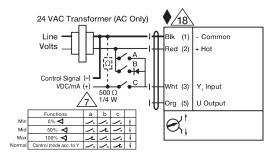


Floating Point





VDC / 4 to 20 mA



Override Control Min, Mid, Max Positions