

Technical data

Functional data	Valve Size	2.5" [65]	
	Fluid	chilled or hot water, up to 60% glycol, steam	
	Fluid Temp Range (water)	32350°F [0176°C]	
	Fluid Temp Range (steam)	32280°F [0138°C]	
	Body Pressure Rating	ANSI Class 250, up to 280 psi below 350°F	
	Flow characteristic	equal percentage	
	Servicing	repack/rebuild kits available	
	Rangeability Sv	85:1	
	Max Differential Pressure (Steam)	15 psi [103 kPa]	
	Flow Pattern	2-way	
	Leakage rate	ANSI Class III	
	Controllable flow range	stem up - open A – AB	
	Cv	65	
	Maximum Inlet Pressure (Steam)	35 psi [241 kPa]	
	ANSI Class	250	
	Body pressure rating note	up to 280 psi below 350°F	
Materials	Valve body	Cast iron - ASTM A126 Class B	
	Valve plug	bronze	
	Stem seal	NLP EPDM (no lip packing)	
	Seat	Stainless steel AISI 316	
	Pipe connection	250 lb flanged	
uitable actuators	Non-Spring	EVB(X)	
	Electronic fail-safe	AVKB(X)	

Safety notes

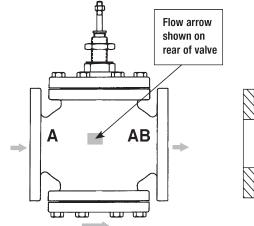


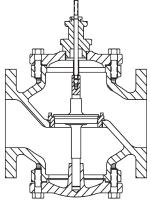
- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used 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

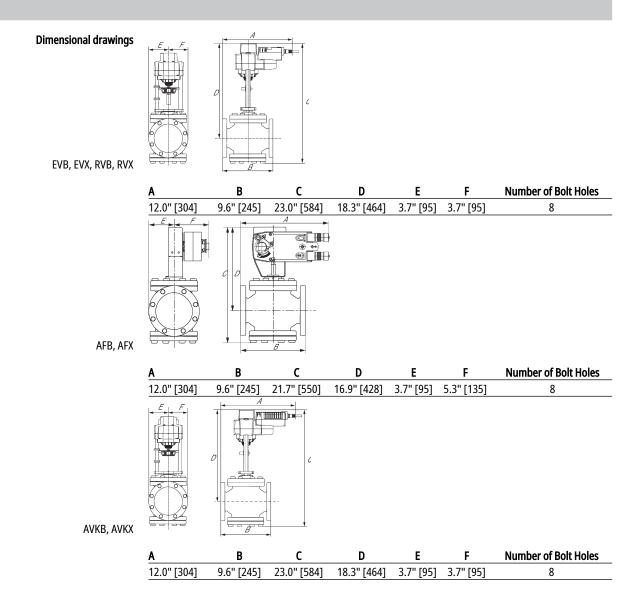


Flow/Mounting details





Dimensions





Modulating, Non-Spring Return, Linear, 24 V, Multi-Function Technology® **Technical data sheet**

EVCX24-MFT





Technical data

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)
	Position indication	Mechanically, with pointer
Safety data	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	Weight	5.73 lb [2.6 kg]

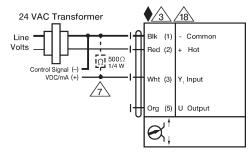


Technical data sheet

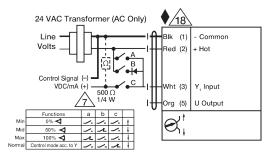
	Materials	Housing material	Die cast aluminium and plast	Die cast aluminium and plastic casing	
Safety notes					
	∕∶∖	 PVC W'Shld for GV w/UGLK (GM) Battery Back Up System for SY(7~10)- 120 to 24 VAC, 40 VA transformer. 50% voltage divider kit (resistors with PC Tool computer programming inter 	n wires).		
Accessories					
	Gateways	Description		Туре	
		Gateway MP to BACnet MS/TP Gateway MP to LonWorks Gateway MP to Modbus RTU		UK24BAC UK24LON UK24MOD	
	Service tools	Description		Туре	
		Connection cable 10 ft [3 m], A: RJ11 6/4 connection	4 ZTH EU, B: 3-pin Weidmüller and supply	ZK4-GEN	
		Service Tool, with ZIP-USB function, for Belimo actuators, VAV controller and HV	•	ZTH US	
Electrical installation					
		For triac sink the common connection f controller. Contact closures A & B also open for triac sink. Actuators with plenum cable do not ha Meets cULus requirements without the Warning! Live Electrical Components! During installation, testing, servicing a with live electrical components. Have a properly trained in handling live electric	her the Hot (Source) or Common (Sink) 24 V from the actuator must be connected to the can be triacs. A & B should both be closed fo	hot connection of the or the triac source and he necessary to work idual who has been e to follow all electrical	
24 VAC Transformer	3 18 Blk 1) - Com Red (2) ↑ Hot Wht (3) ↓ Y, In	mon Line – Volts –	AC Transformer		



Technical data sheet



VDC / 4 to 20 mA



Override Control Min, Mid, Max Positions