





5-year warranty



### **Technical data**

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Valve Size	5" [125]
Fluid	chilled or hot water, up to 60% glycol
Fluid Temp Range (water)	32300°F [0149°C]
Body Pressure Rating	ANSI Class 250, up to 280 psi below 350°F
Flow characteristic	linear
Servicing	repack/rebuild kits available
Rangeability Sv	50:1
Flow Pattern	3-way Diverting
Leakage rate	ANSI Class III
Controllable flow range	stem up - open AB – B
Cv	195
ANSI Class	250
Body pressure rating note	up to 280 psi below 350°F
Valve body	Cast iron - ASTM A126 Class B
Valve plug	Stainless steel
Stem seal	NLP EPDM (no lip packing)
Seat	Stainless steel AISI 316
Pipe connection	250 lb flanged

## Safety notes



Suitable actuators

Non-Spring

Electronic fail-safe

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

EVB(X)

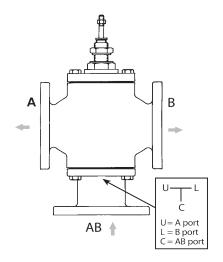
AVKB(X)

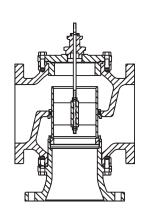
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and
  must not be used outside the specified field of application, especially in aircraft or in any other airborne
  means of transport.
- Only authorised specialists may carry out installation. All 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**



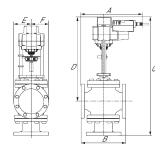
## Flow/Mounting details



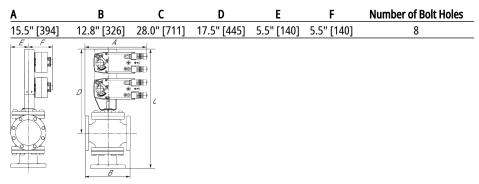


## **Dimensions**

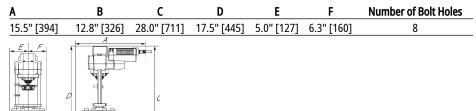
## **Dimensional drawings**



EVB, EVX, RVB, RVX



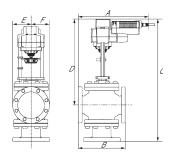
2\*AFB, 2\*AFX



AVKB, AVKX

A	В	С	D	E	F	Number of Bolt Holes
15.5" [394]	12.8" [326]	28.0" [711]	17.5" [445]	5.5" [140]	5.5" [140]	8





AVKB, AVKX

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On/Off, Floating Point, Non-Spring Return, Linear, 24 V







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Electrical data	Nominal voltage	AC/DC 24 V		
	Nominal voltage frequency	50/60 Hz		
	Power consumption in operation	3.5 W		
	Power consumption in rest position	0.5 W		
	Transformer sizing	6 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]		
	Input Impedance	100 k $\Omega$ (0.1 mA), 500 $\Omega$ , 1000 $\Omega$ (on/off)		
	Position feedback U note	No Feedback		
	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, constant, independent of load		
	Running time motor note	constant, independent of load		
	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]		
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.

### **Electrical installation**

### > INSTALLATION NOTES

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

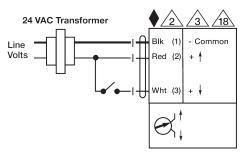
Actuators may also be powered by 24 VDC.

 $\sqrt{\frac{1}{18}}$  Actuators with plenum cable do not have numbers; use color codes instead.

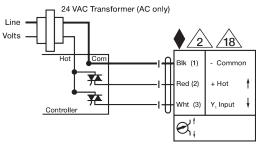
Meets cULus requirements without the need of an electrical ground connection.

# / Warning! Live Electrical Components!

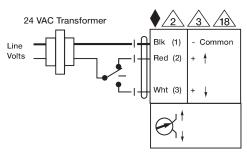
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.



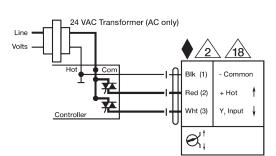
On/Off



Triac Source



Floating Point



Triac Sink