





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)

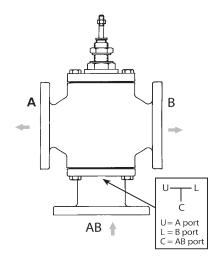
AVKB(X)

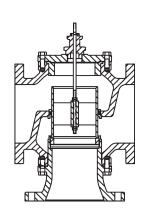
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and
 must not be used outside the specified field of application, especially in aircraft or in any other airborne
 means of transport.
- Only authorised specialists may carry out installation. All applicable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



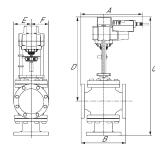
Flow/Mounting details



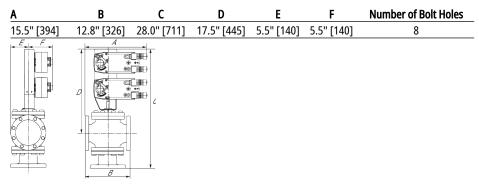


Dimensions

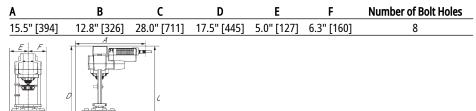
Dimensional drawings



EVB, EVX, RVB, RVX



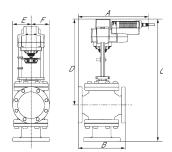
2*AFB, 2*AFX



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

Α	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

Technical data sheet

AVKB24-3

On/Off, Floating Point, Electronic Fail-Safe, Linear, 24 V







Nom Power Power Trans Electric Over Electric Functional data Actual Input Posit Bridg	inal voltage frequency er consumption in operation er consumption in rest position sformer sizing rical Connection load Protection rical Protection	AC 24 V 50/60 Hz 5 W 2 W 9.5 VA (class 2 power source) 18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector, degree of protection NEMA 2 / IP54 electronic throughout full stroke actuators are double insulated
Power Power Power Trans Electric Power Electric Power Electric Power Electric Power Electric Power Electric Positional data Electric Positional Electric Positional Electric Positional Electric Positional Electric Power Electric Pow	er consumption in operation er consumption in rest position sformer sizing rical Connection load Protection rical Protection	5 W 2 W 9.5 VA (class 2 power source) 18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector, degree of protection NEMA 2 / IP54 electronic throughout full stroke
Power Trans Electric Over Electric Functional data Actual Input Posit Bridg	er consumption in rest position sformer sizing rical Connection load Protection rical Protection	2 W 9.5 VA (class 2 power source) 18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector, degree of protection NEMA 2 / IP54 electronic throughout full stroke
Trans Electric Overing Electric Electri	sformer sizing rical Connection load Protection rical Protection	9.5 VA (class 2 power source) 18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector, degree of protection NEMA 2 / IP54 electronic throughout full stroke
Functional data Functional dat	rical Connection load Protection rical Protection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector, degree of protection NEMA 2 / IP54 electronic throughout full stroke
Over Electric Functional data Actua Inpur Posit Bridg	load Protection rical Protection	connector, degree of protection NEMA 2 / IP54 electronic throughout full stroke
Functional data Actua Input Posit Bridg	rical Protection	<u> </u>
Functional data Actua Inpu Posit Bridg		actuators are double insulated
Inpu Posit Bridg	attent Community	
Posit Bridg	ating force motor	450 lbf [2000 N]
Bridg	t Impedance	100 k Ω (0.1 mA), 500 Ω , 1000 Ω (on/off)
	ion feedback U note	No Feedback
Dua -	ging time	2 s delay before fail-safe activates
Pre-C	charging time	520 s
Direc	ction of motion motor	selectable with switch
Direc	ction of motion fail-safe	reversible with switch
Manı	ual override	5 mm hex crank (3/16" Allen), supplied
Strok	ke	1.25" [32 mm]
Runn	ning Time (Motor)	90 s, constant, independent of load
Runn	ning time motor note	constant, independent of load
Runn	ning time fail-safe	<35 s
Noise	e level, motor	60 dB(A)
Noise	e level, fail-safe	60 dB(A)
Posit	ion indication	Mechanically, with pointer
Safety data Degr	ree of protection IEC/EN	IP54
Degr	ee of protection NEMA/UL	NEMA 2 UL Enclosure Type 2
Agen	, ,	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU
Quali	ity Standard	ISO 9001
Ambi	ient temperature	-22122°F [-3050°C]
Stora	age temperature	-40176°F [-4080°C]
Ambi	ient humidity	max. 95% r.H., non-condensing
Servi	icina	maintenance-free
Weight Weig	icing	
Materials Hous		6.39 lb [2.9 kg]

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

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

1 Provide overload protection and disconnect as required.

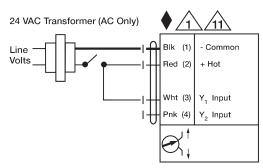
Actuators may be connected in parallel. Power consumption and input impedance must be observed. Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 V line.

Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

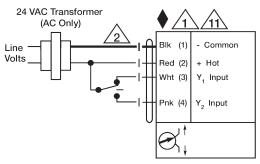
Actuators with plenum cable do not have numbers; use color codes instead.

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