





5-year warranty



Technical data

Functional data

Valve Size	3" [80]
Fluid	chilled or hot water, up to 60% glycol
Fluid Temp Range (water)	32350°F [0176°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 Mixing
Leakage rate	ANSI Class III
Controllable flow range	stem up - open B – AB
Cv	85
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
Non-Spring	EVB(X)

Safety notes



Electronic fail-safe

Materials

Suitable actuators

 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

RVB(X)

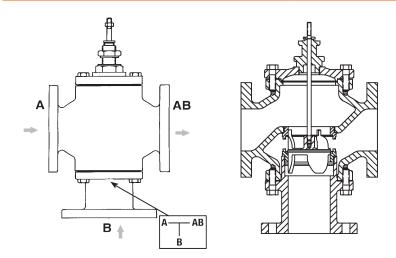
AVKB(X) (2*GKB(X))

- 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

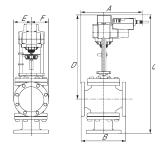


Flow/Mounting details



Dimensions

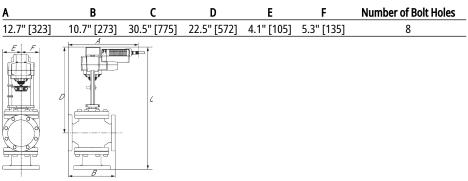
Dimensional drawings



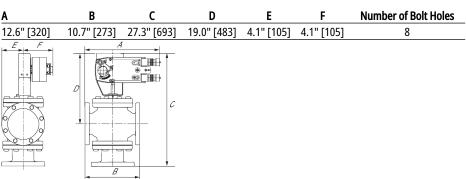
EVB, EVX, RVB, RVX

Α	В	C	D	E	F	Number of Bolt Holes
12.6" [320]	10.7" [273]	27.3" [693]	19.0" [483]	4.1" [105]	4.1" [105]	8
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2*GMB, 2*GMX, 2*GKB, 2*GKX



AVKB, AVKX





Technical data sheet G780S-250

 A
 B
 C
 D
 E
 F
 Number of Bolt Holes

 12.7" [323]
 10.7" [273]
 25.6" [650]
 17.5" [445]
 4.1" [105]
 5.3" [135]
 8

2*AFB, 2*AFX

A	В	C	D	E	F	Number of Bolt Holes
12.7" [323]	10.7" [273]	30.5" [775]	22.5" [572]	4.1" [105]	5.3" [135]	8

On/Off, Floating Point, Electronic Fail-Safe, Linear, 120 V







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Electrical data	Nominal voltage	AC 100240 V		
	Nominal voltage frequency	50/60 Hz		
	Power consumption in operation	3.5 W		
	Power consumption in rest position	2 W		
	Transformer sizing	6.5 VA (class 2 power source)		
	Electrical Connection	18 GA appliance cable with 1/2" conduit connector, 3 ft [1 m], degree of protection NEMA 2 / IP54		
	Overload Protection	electronic throughout full stroke		
	Electrical Protection	actuators are double insulated		
Functional data	Actuating force motor	450 lbf [2000 N]		
	Input Impedance	100 kΩ (0.1 mA), 500 Ω, 1000 Ω (on/off)		
	Position feedback U note	No Feedback		
	Bridging time	2 s delay before fail-safe activates		
	Pre-charging time	520 s		
	Direction of motion motor	selectable with switch		
	Direction of motion fail-safe	reversible with switch		
	Manual override	5 mm hex crank (3/16" Allen), supplied		
	Stroke	1.25" [32 mm]		
	Running Time (Motor)	90 s, constant, independent of load		
	Running time motor note	constant, independent of load		
	Running time fail-safe	<35 s		
	Noise level, motor	60 dB(A)		
	Noise level, fail-safe	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		
	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	6.39 lb [2.9 kg]		
Materials	Housing material	Die cast aluminium and plastic casing		

Safety notes

Technical data sheet AVKB120-3



- 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

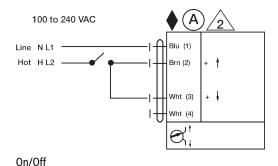
(A) Actuators with appliance cables are numbered.

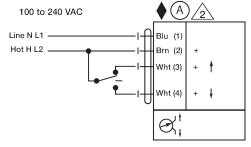
⚠ Actuators may be connected in parallel. Power consumption and input impedance must be observed.

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.





Floating Point