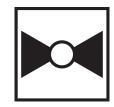






5-year warranty



Technical data

Functional data

Valve Size	3" [80]	
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	91:1	
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	90	
Maximum Inlet Pressure (Steam)	35 psi [241 kPa]	
ANSI Class	250	
Body pressure rating note	up to 280 psi below 350°F	
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	
Non-Spring	EVB(X)	
Electronic fail-safe	AVKB(X)	

Safety notes



Suitable actuators

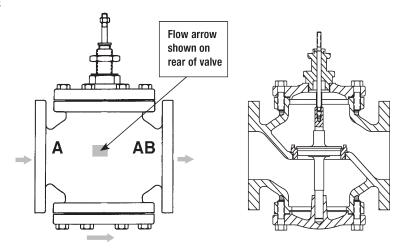
Materials

- 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

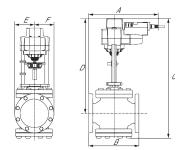


Flow/Mounting details

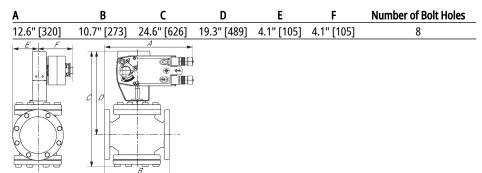


Dimensions

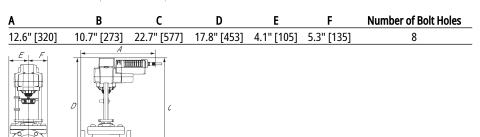
Dimensional drawings



EVB, EVX, RVB, RVX



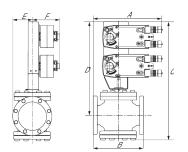
AFB, AFX



AVKB, AVKX

A	В	C	D	E	F	Number of Bolt Holes
12.6" [320]	10.7" [273]	24.6" [626]	19.3" [489]	4.1" [105]	4.1" [105]	8





2*AFB, 2*AFX

Α	В	C	D	E	F	Number of Bolt Holes
12.2" [310]	10.7" [273]	30.0" [762]	25.1" [638]	3.9" [100]	5.3" [135]	8







Tec	hni	ical	d	ai	ta
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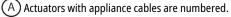
Nominal voltage	AC 24240 V / DC 24125 V		
Nominal voltage frequency	50/60 Hz		
Power consumption in operation	7 W		
Power consumption in rest position	3.5 W		
Transformer sizing	14 VA @ AC 24 V (class 2 power source), 17 VA @ AC 120 V, 36 VA @ AC 240 V		
Electrical Connection	18 GA appliance cable, 3 ft [1 m], with 1/2" conduit connector		
Overload Protection	electronic thoughout 090° rotation		
Direction of motion motor	selectable by ccw/cw mounting		
Direction of motion fail-safe	reversible with cw/ccw mounting		
Manual override	5 mm hex crank (3/16" Allen), supplied		
Angle of rotation	95°,		
Running Time (Motor)	75 s		
Running time fail-safe	<20 s		
Noise level, motor	50 dB(A)		
Noise level, fail-safe	62 dB(A)		
Position indication	Mechanically, 3065 mm stroke		
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		
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	9.03 lb [4.1 kg]		
Housing material	Galvanized steel and plastic housing		
	Nominal voltage frequency Power consumption in operation Power consumption in rest position Transformer sizing Electrical Connection Overload Protection Direction of motion motor Direction of motion fail-safe Manual override Angle of rotation Running Time (Motor) Running time fail-safe Noise level, motor Noise level, fail-safe Position indication Degree of protection IEC/EN Degree of protection NEMA/UL Agency Listing Quality Standard Ambient temperature Storage temperature Ambient humidity Servicing Weight		

Electrical installation



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.



(UP) Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC.



Technical data sheet 2*AFBUP-X1

Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.

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

<u>1</u> Provide overload protection and disconnect as required.

Actuators may also be powered by 24 VDC.

Actuators may be powered in parallel. Power consumption must be observed.

As Parallel wiring required for piggy-back applications.

