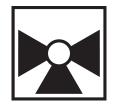






5-year warranty



Technical data

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Valve Size	4" [100]
Fluid	chilled or hot water, up to 60% glycol
Fluid Temp Range (water)	32300°F [0149°C]
Body Pressure Rating	ANSI Class 125, up to 175 psi below 150°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	154
ANSI Class	125
Body pressure rating note	up to 175 psi below 150°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	125 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)

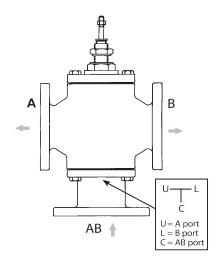
AVKB(X)

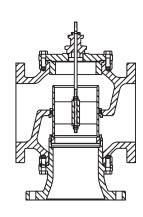
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and
 must not be used outside the specified field of application, especially in aircraft or in any other airborne
 means of transport.
- Only authorised specialists may carry out installation. All applicable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



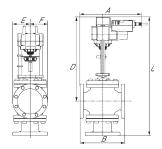
Flow/Mounting details



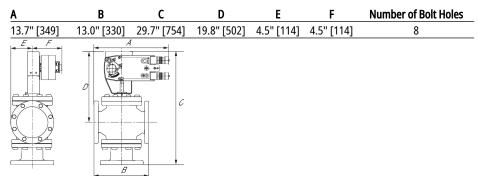


Dimensions

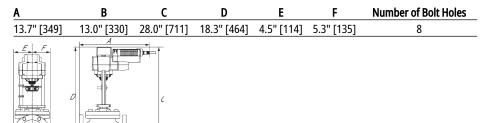




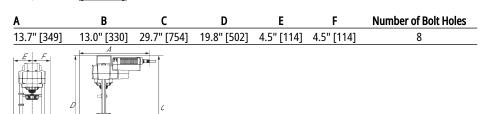
EVB, EVX, RVB, RVX



AFB, AFX



AVKB, AVKX



AVKB, AVKX

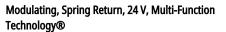


Technical data sheet G7100D

A	В	C	D	E	F	Number of Bolt Holes
13.7" [349]	13.0" [330]	29.7" [754]	19.8" [502]	4.5" [114]	4.5" [114]	8

Technical data sheet

AFX24-MFT-X1









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Nominal voltage	AC/DC 24 V
Nominal voltage frequency	50/60 Hz
Power consumption in operation	7.5 W
Power consumption in rest position	3 W
Transformer sizing	10 VA (class 2 power source)
Electrical Connection	18 GA appliance cable, 3ft [1m] 10ft [3m] and 16ft [5m], with 1/2" conduit connector, degree of protection NEMA 2 / IP54
Overload Protection	electronic throughout 095° rotation
Operating range V	2 10 V

Functional data

	<u> </u>
Operating range Y	210 V
Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
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
Position feedback U note	Max. 0.5 mA
Position feedback U variable	VDC variable
Direction of motion motor	selectable with switch 0/1
Direction of motion fail-safe	reversible with cw/ccw mounting
Manual override	5 mm hex crank (3/16" Allen), supplied
Angle of rotation	95°, adjustable with mechanical end stop, 3595°
Angle of rotation note	adjustable with mechanical end stop, 3595°
Running Time (Motor)	default 150 s, variable 70220 s
Running time motor variable	70220 s
Running time fail-safe	<20 s
Override control	MIN (minimum position) = 0% MID (intermediate position) = 50% MAX (maximum position) = 100%
Noise level, motor	40 dB(A)
Noise level, fail-safe	62 dB(A)
Position indication	Mechanical

Safety data

POSITION MUICATION	WECHAIIICAI
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	Weight	4.6 lb [2.1 kg]
Materials	Housing material	Galvanized steel and plastic housing

AFX24-MFT-X1

Safety notes



- NEMA 4X, 316L stainless steel enclosure.
- Battery Back Up System for SY(7~10)-110
- ZS-300 without brackets.

Technical data sheet

- NEMA 4X, 304 stainless steel enclosure.
- MFT95 resistor kit for 4 to 20 mA control applications.

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.

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

Actuators with appliance cables are numbered.

Provide overload protection and disconnect as required.

Actuators may also be powered by 24 VDC.

Only connect common to negative (-) leg of control circuits.

A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

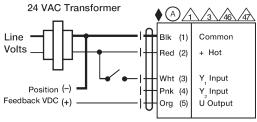
Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 V line.

For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller; the actuator internal common reference is not compatible.

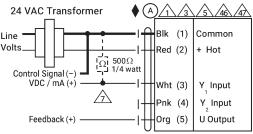
IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).

Actuators may be controlled in parallel. Current draw and input impedance must be observed.

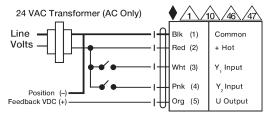
Master-Slave wiring required for piggy-back applications. Feedback from Master to control input(s) of Slave(s).



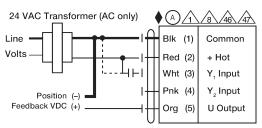
On/Off



VDC/mA Control

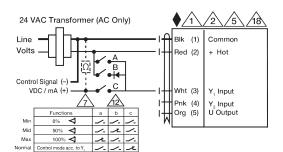


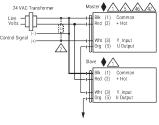
Floating Point



PWM Control







Master - Slave