

G7100DS-250







Technical data

Functional data	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 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		
	Сv	154		
	ANSI Class	250		
Body pressure rating note		up to 280 psi below 350°F		
Materials	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		
Suitable actuators	Non-Spring	EVB(X)		
	Electronic fail-safe	AVKB(X)		

Safety notes



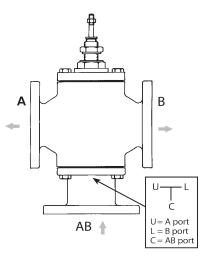
- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used 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.

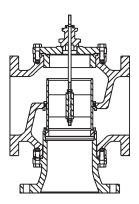
Product features



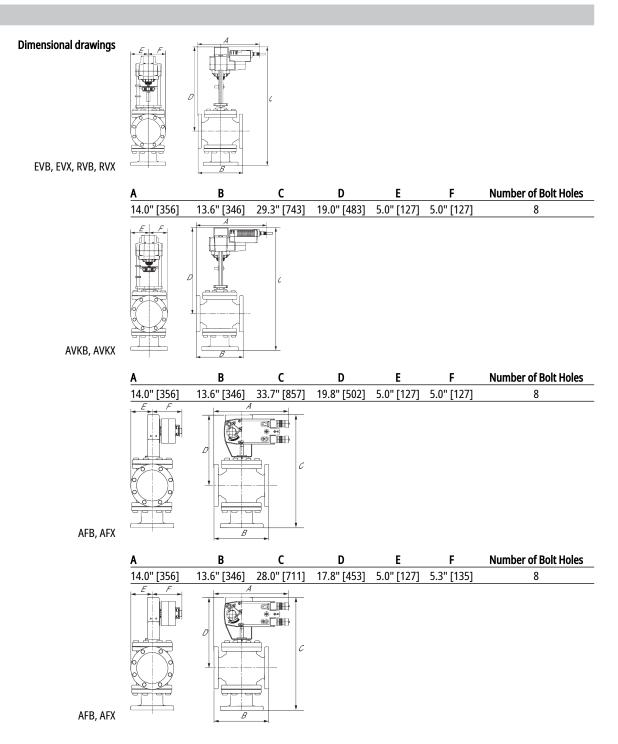
Technical data sheet

Flow/Mounting details





Dimensions



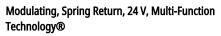


Technical data sheet						G7100DS-250
A	В	С	D	E	F	Number of Bolt Holes
14.0" [356]	13.6" [346]	28.0" [711]	17.8" [453]	5.0" [127]	5.3" [135]	8



Technical data sheet

AFX24-MFT-X1







Technical data

Electrical data	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		
Functional data	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	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		
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AFX24-MFT-X1

Servicing

Weight

Weight

Housing material

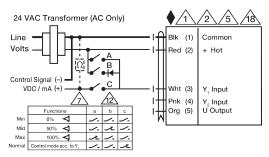
maintenance-free 4.6 lb [2.1 kg]

Materials

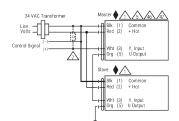
Galvanized steel and plastic housing

Safety notes NEMA 4X, 316L stainless steel enclosure. Battery Back Up System for SY(7~10)-110 ZS-300 without brackets. 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. (A) Actuators with appliance cables are numbered. Provide overload protection and disconnect as required. Actuators may also be powered by 24 VDC. ∕₃∖ 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. 719 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). 24 VAC Transformer (A)46 ∕₃∖ 24 VAC Transformer (AC Only) /46 Line Blk (1)Common Line Blk (1) Common Volts Volts Red (2) + Hot Red (2) + Hot Wht (3) Y Input Y Input Wht (3) Position (-) Pnk (4) Y Input Y Input Pnk (4) Feedback VDC (+) Position (-Org (5) U Output Org (5) U Output Feedback VDC (+ On/Off **Floating Point** 24 VAC Transformer 24 VAC Transformer (AC only) (A)/46 Blk (1) Common Line Blk (1) Common Volts Line Red (2) + Hot . 500Ω 1/4 watt Ω Volts Red (2) + Hot Control Signal (Wht (3) Y, Input VDC / mA (+)Wht (3) Y Input \wedge Pnk (4) Y₂ Input Pnk (4) Y Input Position (-) Feedback VDC (+) U Output (5) Org Feedback (+) (5) U Output Org VDC/mA Control **PWM Control**





Override Control



Master - Slave