

G7100DS







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 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	
	Сv	154	
	ANSI Class	125	
	Body pressure rating note	up to 175 psi below 150°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	125 lb flanged	
Suitable actuators	Non-Spring	EVB(X)	
	Electronic fail-safe	AVKB(X)	

Safety notes



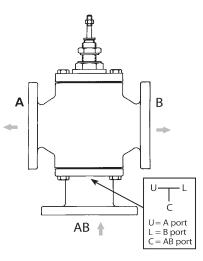
- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used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

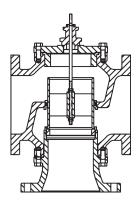
Product features



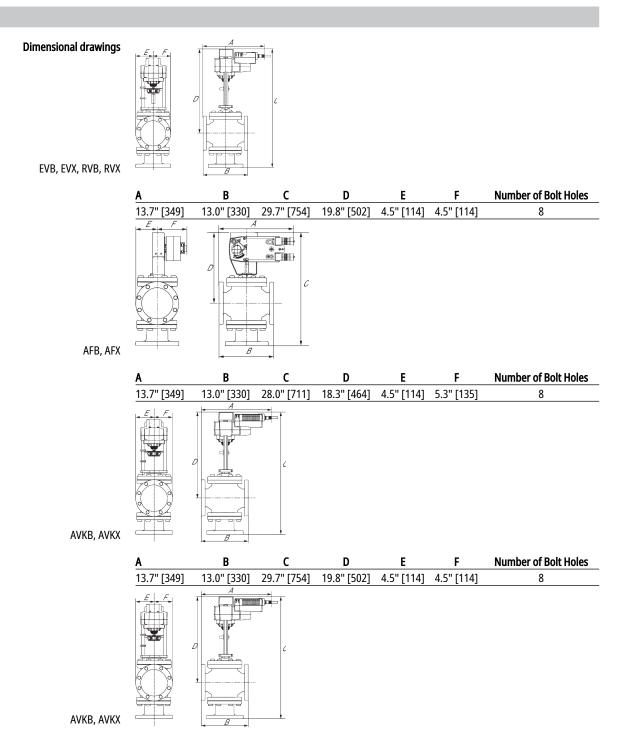
Technical data sheet

Flow/Mounting details





Dimensions





Technical data sheet						G7100DS
A	В	с	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



Modulating, Non-Spring Return, Linear, 24 V, Multi-Function Technology® **Technical data sheet**

EVX24-MFT





Technical data

Electrical data	Nominal voltage	AC/DC 24 V		
	Nominal voltage frequency	50/60 Hz		
	Power consumption in operation	5 W		
	Power consumption in rest position	1.5 W		
	Transformer sizing	7.5 VA (class 2 power source)		
	Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit		
		connector, degree of protection NEMA 2 / IP54		
	Overload Protection	electronic throughout full stroke		
	Electrical Protection	actuators are double insulated		
Functional data	Actuating force motor	560 lbf [2500 N]		
	Operating range Y	210 V		
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)		
	Input Impedance	100 k Ω for 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω for PWM, On/Off and Floating point		
	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		
	Direction of motion motor	selectable with switch 0/1		
	Manual override	5 mm hex crank (3/16" Allen), supplied		
	Stroke	2" [50 mm]		
	Running Time (Motor)	default 90 s, variable 90150 s		
	Running time motor variable	90150 s		
	Noise level, motor	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; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC		
	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	5.73 lb [2.6 kg]		

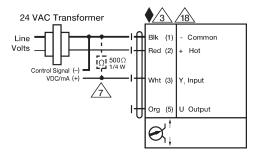


Technical data sheet

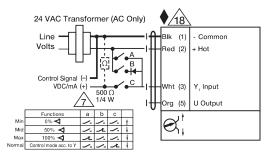
Materials	Housing material	Die cast aluminium and plas	tic casing
Safety notes			
Ĺ	 PVC W'Shld for GV w/UGLK (GM) Battery Back Up System for SY(7~ 120 to 24 VAC, 40 VA transformer 50% voltage divider kit (resistors PC Tool computer programming 	with wires).	
Accessories			
Gateways	Description		Туре
	Gateway MP to BACnet MS/TP Gateway MP to LonWorks Gateway MP to Modbus RTU		UK24BAC UK24LON UK24MOD
Service tools	Description		Туре
		1 6/4 ZTH EU, B: 3-pin Weidmüller and supply	ZK4-GEN
	connection Service Tool, with ZIP-USB function Belimo actuators, VAV controller ar	, for parametrisable and communicative nd HVAC performance devices	ZTH US
Electrical installation			
24 VAC Transformer Line Unit (1) Con (1) VOIS (1) Con (2 to 10 VDC Feedback Signal (+) (+) (+) (+) (+) (+) (+) (+) (+) (+)	Control signal may be pulsed from For triac sink the common connect controller. Contact closures A & B a open for triac sink. Actuators with plenum cable do no Meets cULus requirements withou Warning! Live Electrical Componen During installation, testing, servici with live electrical components. Ha properly trained in handling live e safety precautions when exposed	the 420 mA control signal to 210 V. a either the Hot (Source) or Common (Sink) 24 V ison from the actuator must be connected to the also can be triacs. A & B should both be closed f but have numbers; use color codes instead. t the need of an electrical ground connection. nts! Ing and troubleshooting of this product, it may ave a qualified licensed electrician or other indivi- lectrical components perform these tasks. Failu to live electrical components could result in dea 24 VAC Transformer $ine \ Other Hot \ Y_{2} \ Hot \ Y_{1} \ Input \ Y_{2} \ Input \ Y_{3} \ Input \ Y_{4} \ Y_{5} \ Input \ $	e hot connection of the or the triac source and be necessary to work vidual who has been re to follow all electrical
On/Off	Floati	ng Point	



Technical data sheet



VDC / 4 to 20 mA



Override Control Min, Mid, Max Positions