

## G6100CS-250







#### **Technical data**

Functional data	Valve Size	4" [100]
	Fluid	chilled or hot water, up to 60% glycol, steam
	Fluid Temp Range (water)	32350°F [0176°C]
	Fluid Temp Range (steam)	32338°F [0170°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	98:1
	Max Differential Pressure (Steam)	50 psi [345 kPa]
	Flow Pattern	2-way
	Leakage rate	ANSI Class III
	Controllable flow range	stem up - open A – AB
	Cv	170
	Maximum Inlet Pressure (Steam)	100 psi [690 kPa]
	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
uitable actuators	Non-Spring	EVB(X)
	Electronic fail-safe	AVKB(X)

#### Safety notes

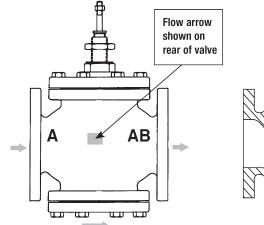


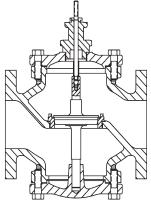
- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used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

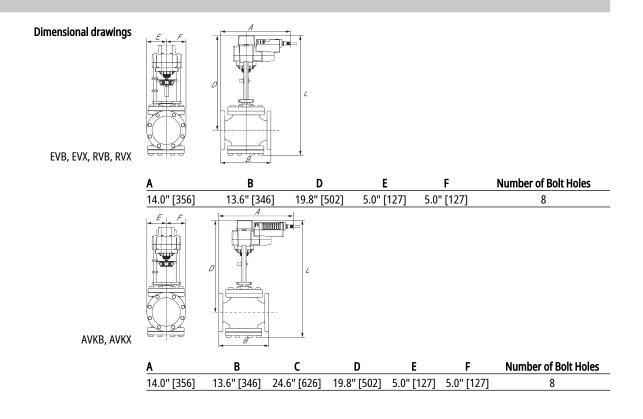


## Flow/Mounting details





### Dimensions





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 $\Omega$ for 210 V (0.1 mA), 500 $\Omega$ for 420 mA, 1500 $\Omega$ 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]

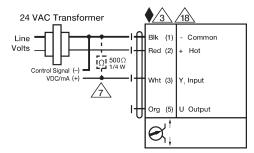


Technical data sheet

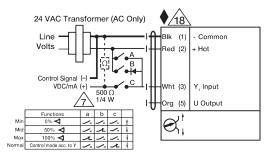
Materials	Housing material	Die cast aluminium and plas	tic casing
Safety notes			
Ĺ	<ul> <li>PVC W'Shld for GV w/UGLK (GM)</li> <li>Battery Back Up System for SY(7~</li> <li>120 to 24 VAC, 40 VA transformer</li> <li>50% voltage divider kit (resistors</li> <li>PC Tool computer programming</li> </ul>	with 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 <b>Warning! Live Electrical Componen</b> 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. <b>nts!</b> 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_{4} \ Y_{5} \ Input \ Y_{5} \ $	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