



G6100C



### **Technical data**

Functional data	Valve Size	4" [100]
	Fluid	chilled or hot water, up to 60% glycol, steam
	Fluid Temp Range (water)	32338°F [0138°C]
	Fluid Temp Range (steam)	32280°F [0138°C]
	Body Pressure Rating	ANSI Class 125, up to 175 psi below 150°F
	Flow characteristic	equal percentage
	Servicing	repack/rebuild kits available
	Rangeability Sv	98:1
	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
	Сv	170
	Maximum Inlet Pressure (Steam)	35 psi [241 kPa]
	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	brass
	Stem seal	NLP EPDM (no lip packing)
	Seat	Stainless steel AISI 316
	Pipe connection	125 lb flanged
uitable actuators	Non-Spring	EVB(X)
	Electronic fail-safe	AVKB(X)

#### Safety notes

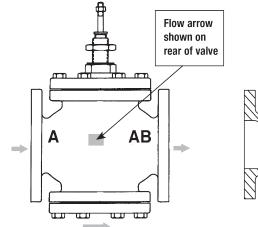


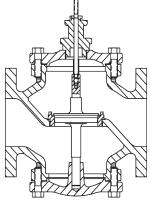
- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used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

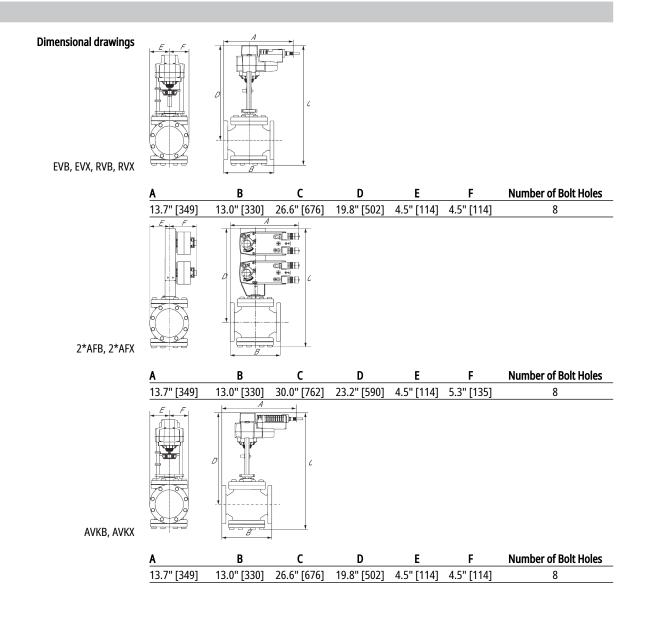


## Flow/Mounting details





### Dimensions





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

## EVB24-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]

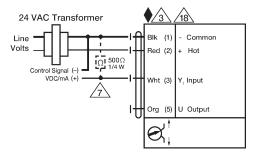


Technical data sheet

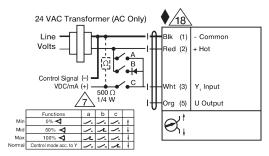
Materials	Housing material	Die cast aluminium and plas	tic casing		
Safety notes					
Ń	<ul> <li>PVC W'Shld for GV w/UGLK (GM)</li> <li>Battery Back Up System for SY(7-</li> <li>120 to 24 VAC, 40 VA transforme</li> <li>50% voltage divider kit (resistors)</li> <li>PC Tool computer programming</li> </ul>	~10)-110 r. 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		
	connection	11 6/4 ZTH EU, B: 3-pin Weidmüller and supply n, for parametrisable and communicative nd HVAC performance devices	ZK4-GEN ZTH US		
Electrical installation					
<ul> <li>INSTALLATION NOTES         <ul> <li>Actuators may be connected in parallel. Power consumption and input impedance must be observed. Actuators may also be powered by 24 VDC.</li> <li>A 500 0 resistor (ZG-R01) converts the 420 m Control signal to 210V.</li> <li>Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 V line.</li> <li>For triac sink the common connection from the actuator must be connected to the hot connection of the controller. Contact closures A &amp; B also can be triacs. A &amp; B should both be closed for the triac source and open for triac sink.</li> <li>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.</li> <li>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.</li> <li>Modo or IN4007 diode. (IN4007 supplied, Belimo part number 40155).</li> <li>Actuators with plenum cable do not have numbers; use color codes instead.</li> <li>Meets cULus requirements without the need of an electrical ground connection.</li> <li>Mining ILVe Electrical Components!</li> <li>During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components nearly electrical components could result in death or serious injury.</li> </ul> </li> <li>44 VACT Transformer</li> <li> <ul> <li>Mining investore</li> <li>Mining investore</li> <li>Mining investore</li> <li>Mining investore</li> <li>Mining investore</li> <li>Mining investore</li></ul></li></ul>					
On/Off	Float	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			



## **Technical data sheet**



VDC / 4 to 20 mA



Override Control Min, Mid, Max Positions