

G225B-K





Type overview

 Type
 DN

 G225B-K
 25

Technical data

Functional data	Valve Size	1" [25]
	Fluid	chilled or hot water, up to 60% glycol, steam
	Fluid Temp Range (water)	20280°F [-7138°C]
	Body Pressure Rating	ANSI Class 250, up to 400 psi below 150°F
	Flow characteristic	modified equal percentage
	Servicing	repack kits available
	Rangeability Sv	100:1
	Max Differential Pressure (Steam)	20 psi [103 kPa]
	Flow Pattern	2-way
	Leakage rate	ANSI Class VI
	Controllable flow range	stem up - open A – AB
	Cv	10
	Maximum Inlet Pressure (Steam)	35 psi [241 kPa]
	ANSI Class	250
	Body pressure rating note	up to 400 psi below 150°F
Materials	Valve body	Bronze
	Valve plug	brass
	Stem	stainless steel
	Stem seal	EPDM O-ring
	Seat	Bronze
	Pipe connection	NPT female ends
Suitable actuators	Non-Spring	LVB(X)
	Electronic fail-safe	LVKB(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

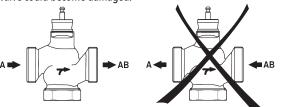
 The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.

- 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.

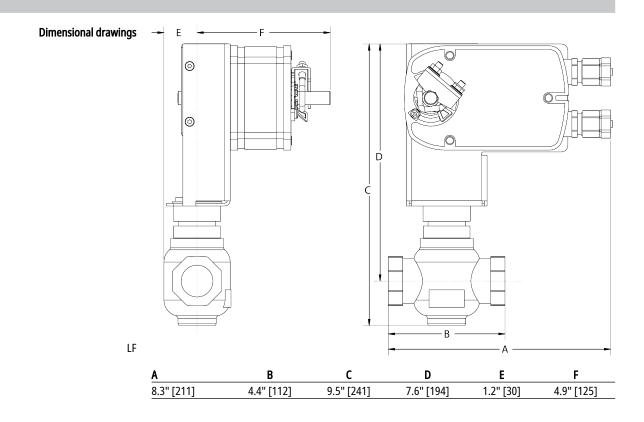
Installation notes

Flow direction

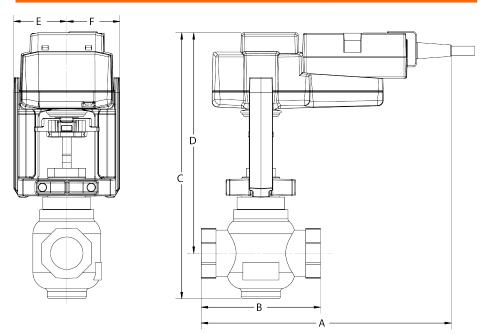
ection The direction of flow, specified by an arrow on the housing, is to be complied with, since otherwise the valve could become damaged.



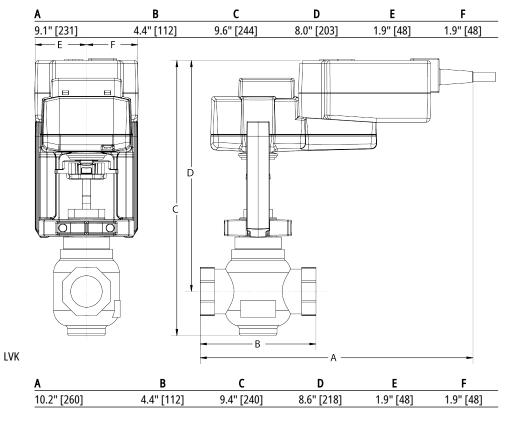
Dimensions



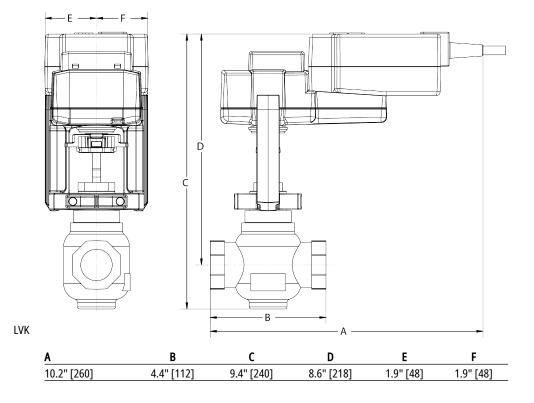














LVKB24-MFT

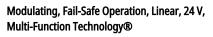


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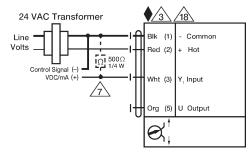
Technical data

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	2.5 W
	Power consumption in rest position	1.5 W
	Transformer sizing	6 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	115 lbf [500 N]
	Operating range Y	210 V
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
	Input Impedance	100 kΩ 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
	Bridging time	2 s delay before fail-safe activates
	Pre-charging time	520 s
	Direction of motion motor	selectable with switch
	Direction of motion fail-safe	reversible with switch
	Manual override	4 mm hex crank (shipped w/actuator)
	Stroke	0.75" [19 mm]
	Running Time (Motor)	90 s constant, independent of load
	Running time motor note	constant, independent of load
	Running time fail-safe	<35 s
	Noise level, motor	55 dB(A)
	Noise level, fail-safe	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
	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	3.53 lb [1.6 kg]

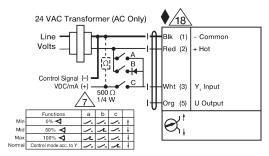


	Housing material Die cast aluminium an	d plastic casing
Safety notes		
Ĺ	 PVC W'Shld for GV w/UGLK (GM) Battery Back Up System for SY(7~10)-110 120 to 24 VAC, 40 VA transformer. 50% voltage divider kit (resistors with wires). PC Tool computer programming interface, serial port. 	
Accessories		
Gateways	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 cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidmüller and su connection Service Tool, with ZIP-USB function, for parametrisable and communicative Belimo actuators, VAV controller and HVAC performance devices	ipply ZK4-GEN ZTH US
Electrical installation		
	 Actuators may also be powered by 24 VDC. A 500 Ω resistor (ZG-R01) converts the 420 mA control signal to 210 V. Control signal may be pulsed from either the Hot (Source) or Common (Sinl For triac sink the common connection from the actuator must be connected controller. Contact closures A & B also can be triacs. A & B should both be cl open for triac sink. Actuators with plenum cable do not have numbers; use color codes instead Meets cULus requirements without the need of an electrical ground connection Warning! Live Electrical Components! During installation, testing, servicing and troubleshooting of this product, i with live electrical components. Have a qualified licensed electrician or other 	to the hot connection of the osed for the triac source and tion.
	properly trained in handling live electrical components perform these tasks safety precautions when exposed to live electrical components could result	er individual who has been 5. Failure to follow all electrical





VDC / 4 to 20 mA



Override Control Min, Mid, Max Positions