

G225B-L







Type overview

Туре	DN
G225B-L	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	
	Servicing	repack kits available	
	Rangeability Sv	100:1 20 psi [103 kPa]	
	Max Differential Pressure (Steam)		
	Flow Pattern	2-way	
	Leakage rate	ANSI Class VI	
	Controllable flow range	stem up - open A – AB	
	Cv	14	
	Maximum Inlet Pressure (Steam)	35 psi [241 kPa]	
	ANSI Class	250	
	Body pressure rating note	up to 400 psi below 150°F	
Materials	Housing	Bronze	
	Valve plug	brass	
	Stem	stainless steel	
	Stem seal	EPDM O-ring	
	Seat	Bronze	
	End fitting	NPT female ends	
Suitable actuators	Non-Spring	LVB(X)	
	Electronic fail-safe	LVKB(X)	

Safety notes



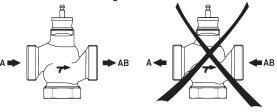
- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used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



Technical data sheet

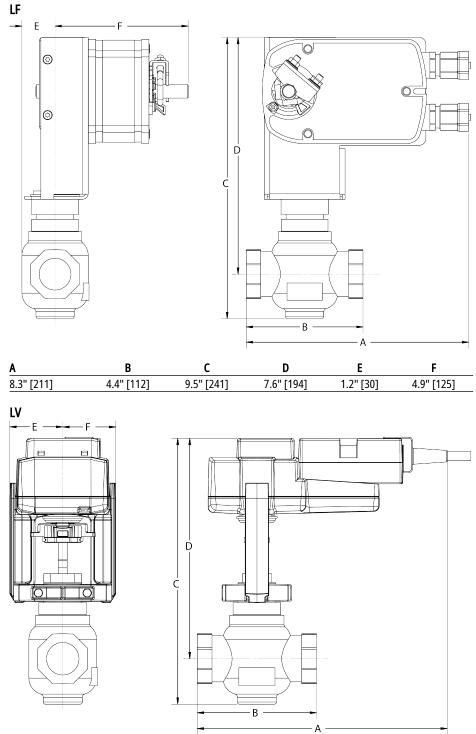
Flow direction

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

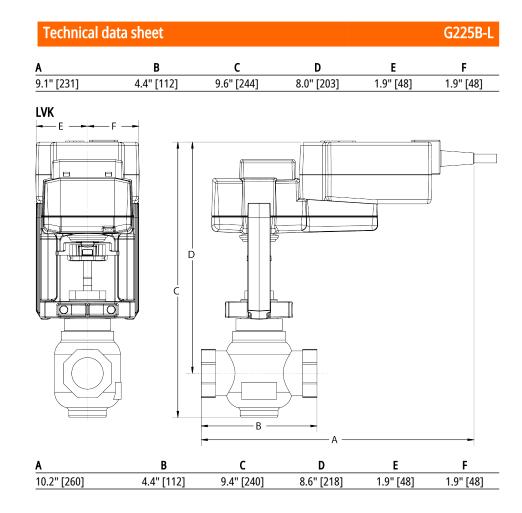


Dimensions

Dimensional drawings









Technical data sheet

LVKX24-MFT

Modulating, Fail-Safe Operation, Linear, 24 V, Multi-Function Technology®

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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	
	Operating range i variable	End point 2.532 V	
	Options positioning signal	variable (VDC, PWM, on/off, floating point)	
	Position feedback U	210 V	
	Position Feedback	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)	default 90 s, variable 35150 s	
	Running time motor variable	35150 s	
	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	
	Enclosure	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	

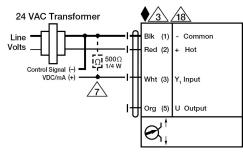


Technical data sheet

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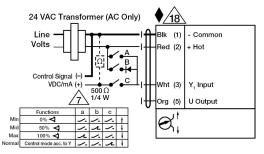
Weight	Weight	3.53 lb [1.6 kg]			
Materials	Housing material	Die cast aluminium and plast	ic casing		
Accessories					
Gateways	Description		Туре		
	Gateway MP to BACnet MS/TP		UK24BAC		
	Gateway MP to LonWorks		UK24LON		
	Gateway MP to Modbus RTU		UK24MOD		
Service tools	Description		Туре		
	Connection cable 10 ft [3 m], A: RJ11 connection	6/4 ZTH EU, B: 3-pin Weidmüller and supply	ZK4-GEN		
	Service Tool, with ZIP-USB function, actuators, VAV controller and HVAC J	for configurable and communicative Belimo performance devices	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 (Sink) 24 V line. For triac sink the common connection from the actuator must be connected to the hot connection of the controller. Contact closures A & B also can be triacs. A & B should both be closed for the triac source and 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, 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 electrica safety precautions when exposed to live electrical components could result in death or serious injury. 					
Volts - U Harris Red (2) Harris Harris	⊥ir mmon Vol t Input 2 to Feedbacl				

On/Off



VDC / 4 to 20 mA

Floating Point



Override Control Min, Mid, Max Positions