

# G215B-C







# Type overview

 Type
 DN

 G215B-C
 15

## Technical data

Functional data	Valve Size	0.5" [15]
	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
	Си	0.4
	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
uitable 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

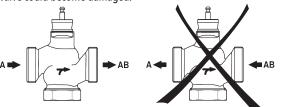
• The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.

- 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.

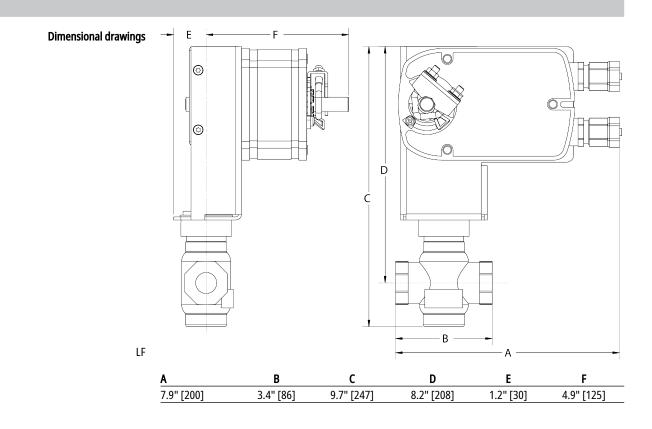
### **Installation notes**

Flow direction

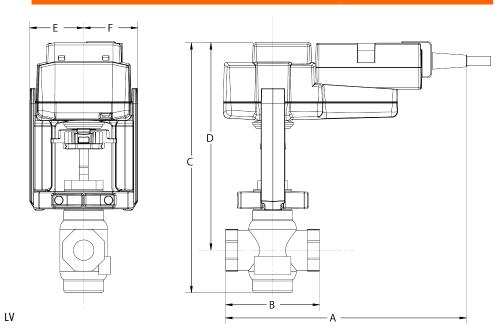
ection The direction of flow, specified by an arrow on the housing, is to be complied with, since otherwise the valve could become damaged.

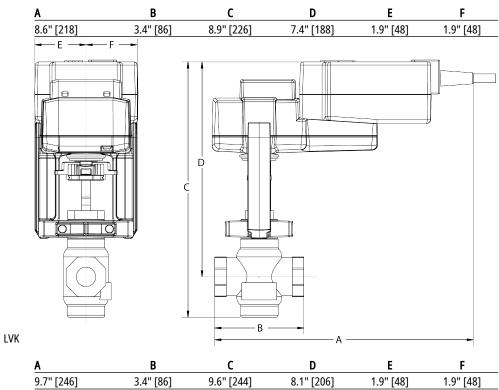


#### Dimensions

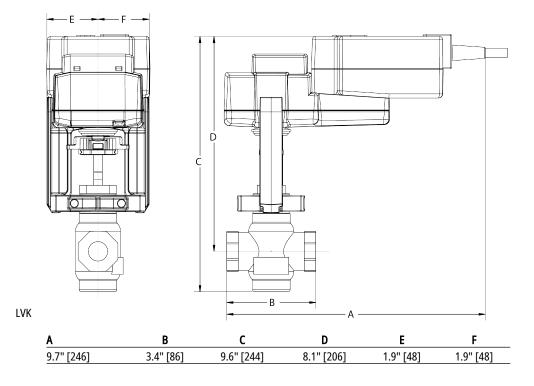














## LVKX24-MFT

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

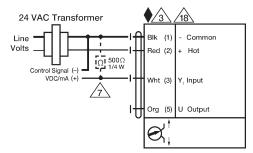
## Technical data

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 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
	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 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]

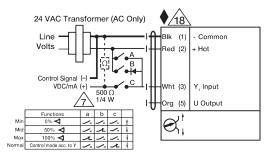


connection Service Tool, with ZIP-USB function, Belimo actuators, VAV controller and <b>CINSTALLATION NOTES</b> Actuators may be connected in para Actuators may also be powered by 2 A 500 Ω resistor (ZG-R01) converts t Control signal may be pulsed from e	ith wires). terface, serial port. 6/4 ZTH EU, B: 3-pin Weidmüller and supply or parametrisable and communicative HVAC performance devices lel. Power consumption and input impedance 4 VDC.	Type         UK24BAC         UK24LON         UK24MOD         Type         ZK4-GEN         ZTH US         e must be observed.
<ul> <li>Battery Back Up System for SY(7-1</li> <li>120 to 24 VAC, 40 VA transformer.</li> <li>50% voltage divider kit (resistors w</li> <li>PC Tool computer programming in</li> </ul> Description           Gateway MP to BACnet MS/TP           Gateway MP to LonWorks           Gateway MP to Modbus RTU           Description           Connection cable 10 ft [3 m], A: RJ11           connection           Service Tool, with ZIP-USB function,           Belimo actuators, VAV controller and           Actuators may be connected in para           Actuators may also be powered by Z           A 500 Ω resistor (ZG-R01) converts to Control signal may be pulsed from expression	ith wires). terface, serial port. 6/4 ZTH EU, B: 3-pin Weidmüller and supply or parametrisable and communicative HVAC performance devices lel. Power consumption and input impedance 4 VDC.	UK24BAC UK24LON UK24MOD <b>Type</b> ZK4-GEN ZTH US
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controller. Contact closures A & B al- open for triac sink. Actuators with plenum cable do not Meets cULus requirements without <b>Warning! Live Electrical Component</b> During installation, testing, servicin with live electrical components. Hav properly trained in handling live ele safety precautions when exposed to 24 mmon hput <u>2 to</u> Feedback	ither the Hot (Source) or Common (Sink) 24 V n from the actuator must be connected to the o can be triacs. A & B should both be closed for have numbers; use color codes instead. the need of an electrical ground connection. a g and troubleshooting of this product, it may be a qualified licensed electrician or other indiv trical components perform these tasks. Failur live electrical components could result in dea VAC Transformer VAC (2) V = V = V = V = V V = V = V V = V = V	e hot connection of the or the triac source and be necessary to work vidual who has been re to follow all electrical
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VDC / 4 to 20 mA



Override Control Min, Mid, Max Positions