

## Technical data sheet

## G215B-C





### Type overview

Туре	DN
G215B-C	15

### **Technical data**

Functional data	Valve size [mm]	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	
	Cv	0.4	
	Maximum Inlet Pressure (Steam)	35 psi [241 kPa]	
Materials	Valve body	Bronze	
	Valve plug	brass	
	Spindle	stainless steel	
	Spindle seal	EPDM O-ring	
	Seat	Bronze	
	Pipe connection	NPT female ends	
Suitable actuators	Non-Spring	LVB(X)	
	Spring	LF	
	Electrical fail-safe	LVKB(X)	

### Safety notes



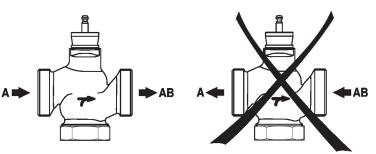
- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Only authorized 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.



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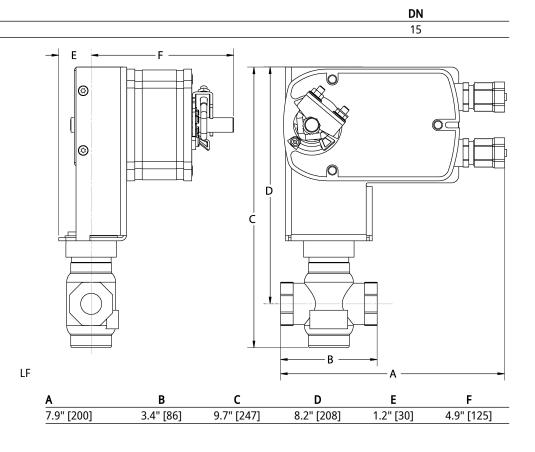
# Flow direction

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

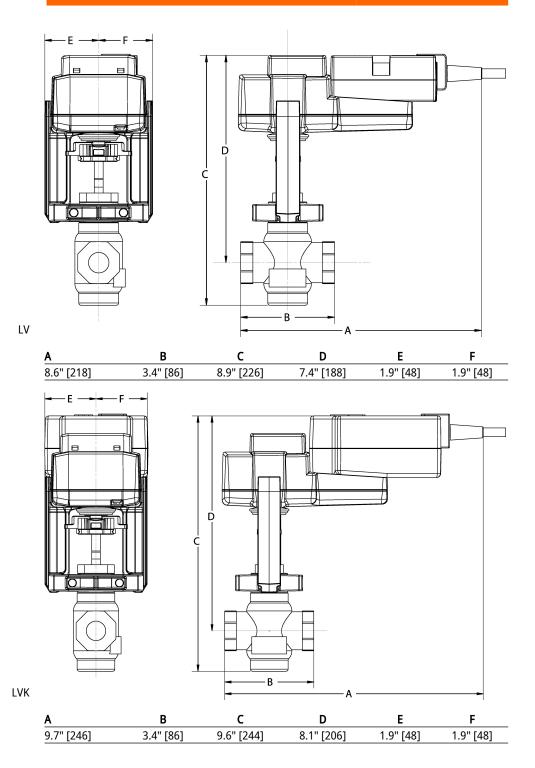


### Dimensions

**Type** G215B-C









Modulating, Spring Return, Multi-Function Technology®

**Technical data sheet** 

# LF24-MFT US



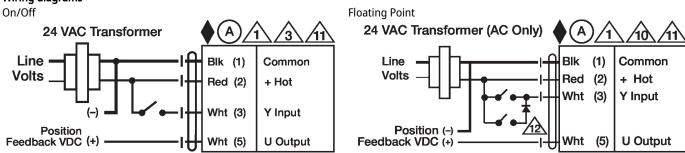
### **Technical data**

Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V	
	Power consumption in operation	2.5 W	
	Power consumption in rest position	1 W	
	Transformer sizing	5 VA	
	Electrical Connection	18 GA appliance cable, 1 m, with 1/2" conduit connector	
	Overload Protection	electronic throughout 095° rotation	
Functional data	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	
	Operating modes optional	variable (VDC, on/off, floating point)	
	Position feedback U	210 V	
	Position feedback U note	Max. 0.5 mA	
	Position feedback U variable	VDC variable	
	Direction of motion motor	selectable with switch 0/1	
	Direction of motion fail-safe	reversible with cw/ccw mounting	
	Angle of rotation	90°	
	Running Time (Motor)	150 s / 90°	
	Running time motor variable	75300 s	
	Running time fail-safe	<25 s @ -4122°F [-2050°C], <60 s @ -22°F [-30°C]	
	Noise level, motor	50 dB(A)	
	Noise level, fail-safe	62 dB(A)	
	Position indication	Mechanical	
Safety data	Power source UL	Class 2 Supply	
	Degree of protection IEC/EN	IP54	
	Degree of protection NEMA/UL	NEMA 2	
	Enclosure	UL Enclosure Type 2	
	Agency Listing	cULus acc. To UL 873 and CAN/CSA C22.2 No. 24-93	
	Quality Standard	ISO 9001	
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC	
	Ambient humidity	Max. 95% RH, non-condensing	
	Ambient temperature	-22122°F [-3050°C]	
	Storage temperature	-40176°F [-4080°C]	



	Safety data	Servicing	maintenance-free		
	Weight	Weight	3.3 lb [1.5 kg]		
	Materials	Housing material	galvanized steel		
Footnotes		*Variable when configured with MFT options.			
ccessories					
Electrical accessories	Description		Туре		
		Service Tool, with ZIP-USB functi communicative Belimo actuators devices	on, for programmable and ;, VAV controller and HVAC performan	ZTH US ce	
lectrical installation					
		<ul> <li>observed.</li> <li>Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.</li> <li>Actuators may also be powered by DC 24 V.</li> <li>Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.</li> <li>Only connect common to negative (-) leg of control circuits.</li> <li>A 500 Ω resistor (ZG-R01) converts the 420 mA control signal to 210 V.</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. Position feedback cannot be used with a triac sink controller; the actuator internal common reference is not compatible.</li> <li>Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.</li> <li>IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).</li> <li>Meets CULus requirements without the need of an electrical ground connection.</li> <li>Actuators are provided with color coded wires. Wire numbers are provided for reference.</li> <li>Warning! Live electrical components!</li> <li>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 individua who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components</li> </ul>			

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