





Type overview	
Туре	DN
G220B-J	20

Technical data

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Valve size [mm]	0.75" [20]	
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	5.5	
Maximum Inlet Pressure (Steam)	35 psi [241 kPa]	
Valve body	Bronze	
Valve plug	brass	
Spindle	stainless steel	
Spindle seal	EPDM O-ring	
Seat	Bronze	
Pipe connection	NPT female ends	

Safety notes



Suitable actuators

Non-Spring

Electrical fail-safe

Spring

Materials

 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

LVB(X)

LVKB(X)

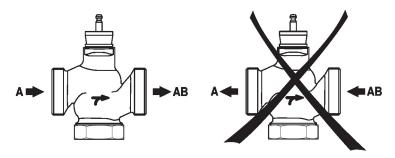
LF

- 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.



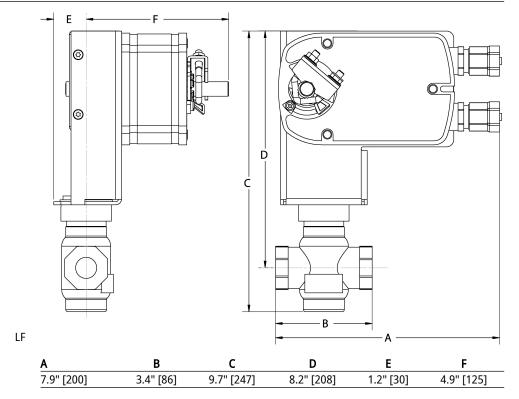
Installation notes

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

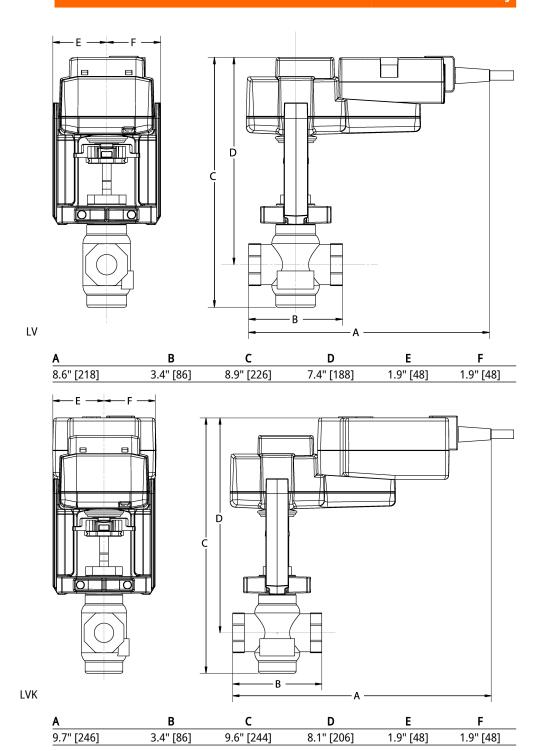


Dimensions

Туре	DN	
G220B-J	20	









Modulating, Spring Return, AC 24 V for DC 2...10 V or 4...20 mA Control Signal

Technical data sheet LF24-SR-S US



			C € SA DS TEMP. ND. & CUL) us REG. EQUIP.	
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	
		Auxiliary switch	1 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, adjustable 095°	
		Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V	
		Electrical Connection	(2) 18 GA appliance cables, 1 m, with 1/2" conduit connectors	
		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 k Ω for 210 V (0.1 mA), 500 Ω for 420 mA	
		Position feedback U	210 V	
		Position feedback U note	Max. 0.7 mA	
		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 note	constant, independent of load	
		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

Servicing

-40...176°F [-40...80°C]

maintenance-free



Technical data sheet

LF24-SR-S US

Weight Weight 3.4 lb [1.5 kg]

Materials Housing material galvanized steel

Footnotes †Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3

Electrical installation

X INSTALLATION NOTES

Actuators with appliance cables are numbered.

Yerovide overload protection and disconnect as required.

Actuators may also be powered by DC 24 V.

6 Only connect common to negative (-) leg of control circuits.

 Λ A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

One built-in auxiliary switch (1x SPDT), for end position indication, interlock control, fan startup, etc.

Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches.

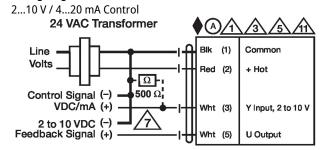
Mixed or combined operation of line voltage/safety extra low voltage is not allowed.

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 electrical safety precautions when exposed to live electrical components could result in death or serious injury.

Wiring diagrams



Auxiliary Switches

