

Type overview	
Туре	DN
G240S-N	40

Technical data		

Functional data	Valve Size	1.5" [40]	
	Fluid	chilled or hot water, up to 60% glycol, steam	
	Fluid Temp Range (water)	20338°F [-7170°C]	
	Fluid Temp Range (steam)	32338°F [0170°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	
	Maximum differential pressure (water)	50 psi [345 kPa]	
	Max Differential Pressure (Steam)	50 psi [345 kPa]	
	Flow Pattern	2-way	
	Leakage rate	ANSI Class VI	
Controllable flow range		stem up - open A – AB	
	Cv	28	
	Maximum Inlet Pressure (Steam)	100 psi [690 kPa]	
	ANSI Class	250	
	Body pressure rating note	up to 400 psi below 150°F	
Materials	Valve body	Bronze	
	Valve plug	316 stainless steel	
	Stem	316 stainless steel	
	Stem seal	EPDM O-ring	
Seat		Stainless steel AISI 316	

Suitable	actuators

Pipe connection	NPT Temale ends	
Non-Spring	LVB(X)	
Electronic fail-safe	LVKB(X)	

Safety notes



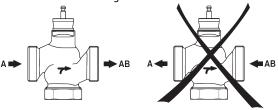


- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used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

Installation notes

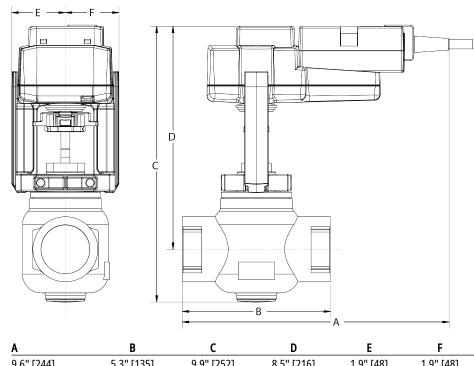
Flow direction

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



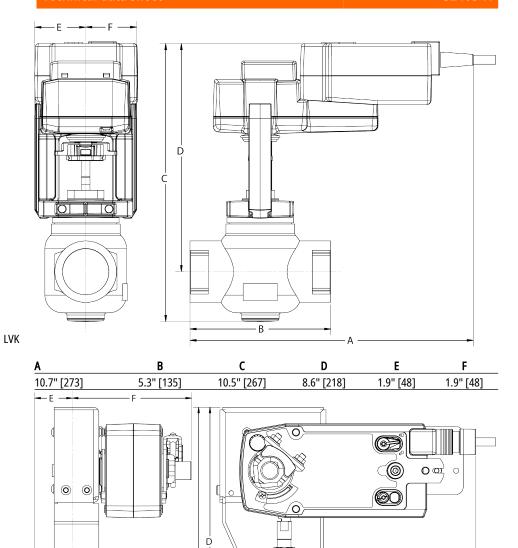
Dimensions

Dimensional drawings



LV

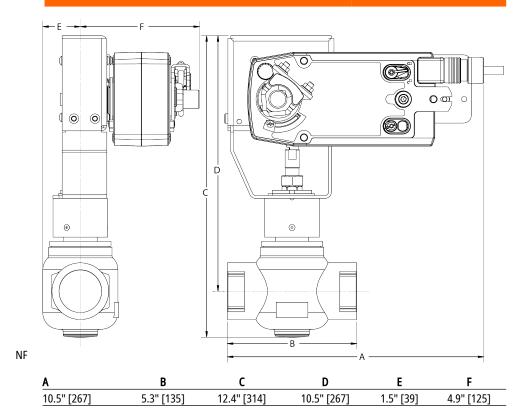
Technical data sheet G240S-N



NF

A	В	С	D	E	F
10 5" [267]	5 3" [135]	12 4" [314]	10 5" [267]	1 5" [39]	4 9" [125]







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 Ω for 210 V (0.1 mA), 500 Ω for 420 mA
	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]
Materials	Housing material	Die cast aluminium and plastic casing

Safety notes

Technical data sheet LVKB24-SR



- 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.

Electrical installation

> INSTALLATION NOTES

Actuators may also be powered by 24 VDC.

 $\frac{5}{5}$ Only connect common to negative (-) leg of control circuits.

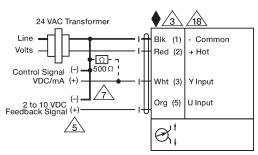
 \triangle A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

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



VDC / 4 to 20 mA