



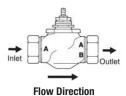




Technical Data					
Technicar Dala	G2	G2S			
Service		chilled or hot water, 60% glycol, steam			
Flow characteristic	equal percentage	linear			
Action		stem up - open A to AB			
Sizes		½" to 2"			
End fitting	NPT fema	NPT female ends			
Materials					
Body	bronze	bronze			
Seat	bronze	stainless steel			
Stem	stainless steel	stainless steel			
Plug	brass	stainless steel			
Packing	spring loaded TFE	spring loaded TFE			
Disc	composition (EPDM)	Teflon			
ANSI class	ANSI 250 (up to 400	ANSI 250 (up to 400 psi below 150°F)			
Leakage	ANSI cl	ANSI class IV			
Max steam inlet	35 psi (241 kPa)	100 psi (689 kPa)			
Media temperature					
Water	20°F to 250°F	20°F to 300°F			
	(-7°C to 120°C)	(-7°C to 149°C)			
Maximum ΔP^*					
Water	35 psi (241 kPa)	35 psi (241 kPa)			
Steam	20 psi (138 kPa)	35 psi (241 kPa)			
Rangeability	G2(S) 100:1				
Valve weights	G212(S), G213(S), G214(S), G215(S) 2 lbs			
	G219(S), G220(S)	3 lbs			
	G224(S), G225(S), G232(S)	5.5 lbs			
	G240(S), G250(S)	13 lbs			

*(50% or more open)

G2...(S) 2-way Flow Patterns





Stem Up - Open A to AB

Valve Nominal Size **Suitable Actuators** Туре Electronic Non-Spring DN [mm] Cv Inches 2-way NPT Spring Fail- Safe 0.4 1⁄2 15 G212(S) 1.3 1⁄2 15 G213(S) 2.2 1/2 15 G214(S) 4.4 1⁄2 15 G215(S) 5.5 3⁄4 20 G219(S) 3⁄4 20 7.5 G220(S) 10 1 25 G224(S) SVK Series 14 25 Series 1 G225(S) 20 11⁄4 32 G232(S) 28 1½ 40 G240(S) ŝ 40 2 50 G250(S)

This valve is typically used in Air Handling Units on heating or cooling coils and Fan Coil Unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV Box reheat coils and bypass loops. This valve is suitable for use in a hydronic

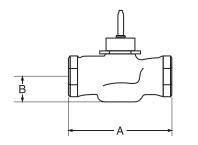
Bronze and stainless steel trim valves can be used for steam applications, depending on

Dimensions

Application

system with variable flow.

actuator and close-off combinations.





D031-2W

	Valve Nominal Size		Dimensions (Inches [mm])	
Valve Body	Inches	DN [mm]	Α	В
G212(S)-G215(S)	1⁄2"	15	3.06" [78]	1.06" [27]
G219(S)-G220(S)	3⁄4"	20	3.62" [92]	1.06" [27]
G224(S)-G225(S)	1"	25	4.62" [117]	1.12" [29]
G232(S)	1¼	32	4.62" [117]	1.37" [35]
G240(S)	1½	40	5.37" [137]	1.50" [38]
G250(S)	2	50	6.12" [156]	1.56" [40]

Piping

The valves should be mounted in a weather-protected area in a location that is within the ambient limits of the actuator. Allow sufficient room for valve with actuator and for service. Please allow 12" for complete actuator/linkage removal. The G2(S) and G3(D) preferred mounting position of the valve is with the valve stem vertical above the valve body, for maximum life. However, the assemblies can be mounted with the valve stem vertical or horizontal in relation to the pipe. The actuators should never be mounted underneath the valve, as condensation can build up and result in a failure of the actuators. Do not reverse flow direction.

LVKX24-MFT Proportional, Electronic Fail-Safe, Linear, 24 V, Multi-Function Technology®





† Use flexible metal conduit. Push the Listed conduit fitting device over the actuator's cable to butt against the enclosure. Screw in conduit connector. Jacket the actuators input wiring with Listed flexible conduit. Properly terminate the conduit in a suitable junction box. Rated impulse Voltage 800V. Type of action 1. Control Pollution Degree 3.

Application

Fail-safe for multiple control types of globe valves in HVAC steam and hydronic systems.

Actuator sizing will be dictated by the valve size selection. All valve selections should be done in accordance with the flow parameters and system specifications. The actuator is mounted directly to the globe valve bonnet by means of its universal clamp and collar.

The actuator operates in response to many controls types as desired by the customer and/or design control input from an electronic controller or positioner. A 2 to 10 VDC feedback signal is provided for position indication.

Operation

The actuator is not provided with and does not require any limit switches, but is electronically protected against overload. The LV series provides 15 mm of downward travel and a visual indicator indicates position of the actuator. When reaching the valve end position, the actuator automatically stops. The gears can be manually disengaged with a button on the actuator cover.

The LVK... series actuators use a sensorless brushless DC motor. The ASIC inside monitors and controls the actuator's rotation and provides a digital rotation sensing (DRS) function to prevent damage to the actuator in a stall condition. Power consumption is reduced in holding mode.

Add-on auxiliary switches are easily fastened directly onto the actuator body for signaling and switching functions. -SR and –MFT models will have an illuminated green Adaption/Power button to reset and relearn the valve stroke as well as indicate the actuator is powered. This feature allows the actuator to rescale itself based on the actual travel. Along with the Adaption button on –MFT models will have a yellow Status light to confirm communication.

Fail-Safe Indication

LED status indicator lights sequence:

Yellow off / Green on: operation ok, no faults

Yellow off / Green blinking: fail-safe mechanism is active

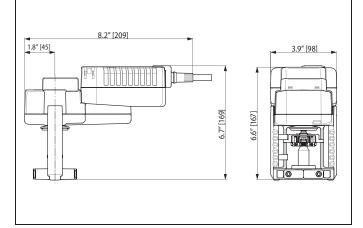
Yellow on / Green off: fault is detected

Yellow off / Green off: not in operation / capacitors charging

Yellow on / Green on: adaption running

Yellow blinking / Green on: communication with programming tool

Dimensions (Inches [mm])



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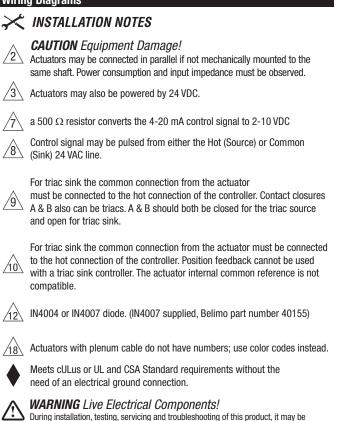


LVKX24-MFT

Typical Specification

Proportional control globe valve actuators shall be electronic and direct coupled to the globe valve bonnet via an integrated linkage, which requires no secondary linkage and be capable of mounting to valves ½" to 2" in size. Actuators must provide control in response to a control input from an electronic controller or positioner. Actuators shall have brushless DC motor technology and be protected from overload at all angles of rotation. Actuators shall have reversing switch and manual override on the cover. Run time shall be constant and independent of torque. Actuators shall be cULus listed, have a 5-year warranty, and be manufactured under ISO 9001 International Quality Control Standards. Actuators shall be as manufactured by Belimo.

Wiring Diagrams



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.

