

## **LG-1 Series**

Ultra Miniature Pressure Regulator



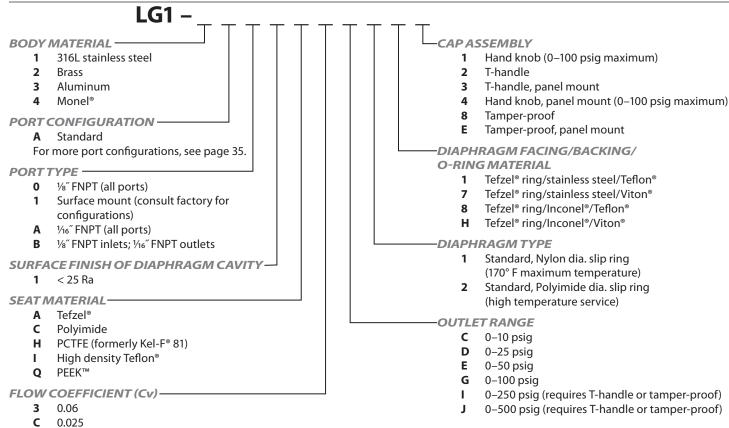
The LG-1 is an ultra-miniature pressure regulator that has many of the same features found in the time-tested design of the CPR-1 & PR-1 Series pressure regulators. Designed for surface, panel or manifold mounting, the LG-1 offers the utmost in versatility to the systems designer. It's low internal volume of less than 2.7cc makes the LG-1 the perfect choice for systems that require rapid purge cycles. Standard features permit using this regulator in a wide variety of services, including corrosive fluids. The LG-1 can be tailored to virtually any application by utilizing the optional features. All of this is attainable while achieving as low as 0.2% accuracy during supply pressure fluctuations. This regulator is designed to allow the construction of compact and sophisticated analytical instrumentation where the optimum in pressure control is required and space is at a premium.

## **Features & Specifications**

- Gas or liquid service
- 316L stainless steel construction
- Internal volume is less than 2.7cc
- Electropolished body with better than 25 Ra finish in diaphragm cavity
- 20 micron inlet filter
- Bubble-tight shutoff
- Outlet pressure ranges are 0–10, 0–25, 0–50, 0–100, 0–250 and 0–500 psig
- Cv flow coefficient 0.025 or 0.06
- Option: surface mount (for manifolds)

#### LG-1 Series

#### **How to Order**



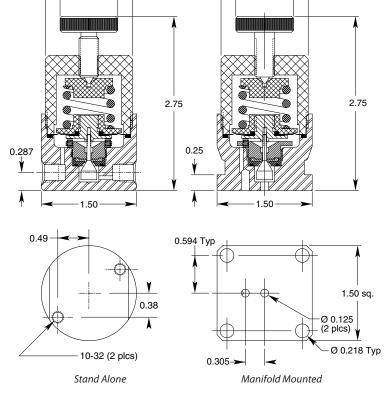
### Maximum Temperature & **Operating Inlet Pressures**

SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM OPERATING INLET PRESSURE
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)
High density Teflon®	150° F (66° C)	@	3600 psig (24.82 MPa)
PCTFE (formerly Kel-F® 81)	175° F (80° C)	@	6000 psig (41.37 MPa)
Polyimide	500° F (260° C)	@	3600 psig (24.82 MPa)
Polyimide	175° F (80° C)	@	6000 psig (41.37 MPa)
PEEK™	500° F (260° C)	@	3600 psig (24.82 MPa)
PEEK™	175° F (80° C)	@	6000 psig (41.37 MPa)

**Outline and Mounting Dimensions** 1.37 1.37

-0.91→

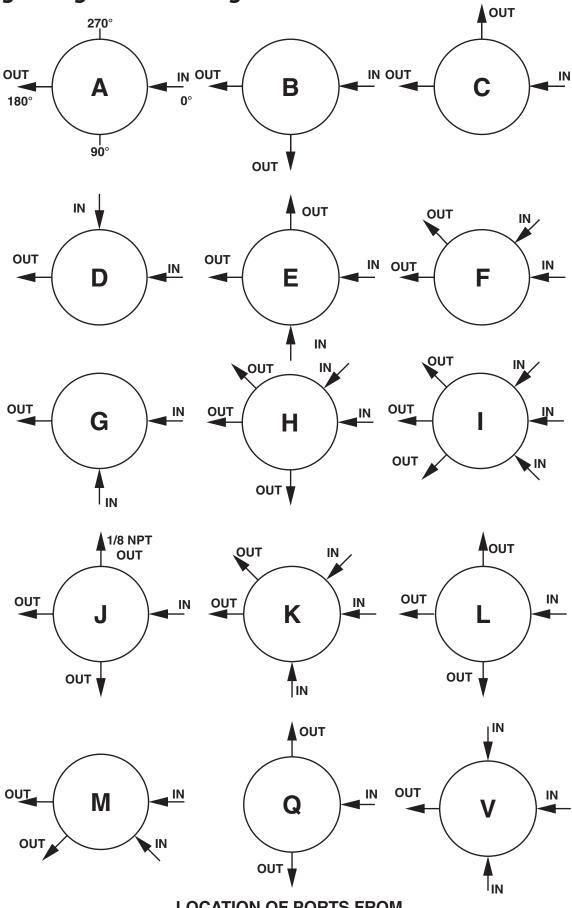
**←** 0.91 →



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Viton® is a registered trademark of DuPont Dow Elastomers.

# **Porting Configurations for Single Stage Pressure Regulators**



**LOCATION OF PORTS FROM TOP VIEW**