



## Vacuum and Low Pressure Application Elastomer Diaphragm Seal Type L Series

### General Information for Type L Series Seals

- ✓ **L Series models have removable, elastomer diaphragm for low pressure application.** There are three basic configurations: **Threaded**, **Flanged**, and **Inline Flow-Thru**. See model selection chart below for application specific details.
- ✓ **Standard L Series models utilize diaphragm retained between two bolted members.** In the **clean-out** design, the diaphragms are situated between the top and middle ring.
- ✓ **L Series models have superior low pressure response as low as 2" H<sub>2</sub>O**, ideal for low pressure **bellows** or **diaphragm-actuated** gauges and **transmitters**.
- ✓ **L Series models have 1.38 in<sup>3</sup> volumetric displacement.**
- ✓ **Prevent inaccuracies by avoiding very low span in gauge or differential pressure applications which do not provide sufficient differential pressure energy to drive the instrument, seal element, and fill liquid column.**
- ✓ **L Series models are available with wetted materials designed for corrosive applications.**
- ✓ **A wide variety of filling and attachment options are available.** If no filling and attachment options are used, enter a dash (" - ") for those characters.
- ✓ **Special options (15<sup>th</sup> character) are also available.** If no special options are used, enter a dash (" - ") for this character.

### Model Selection Guide

Type	Seal Mounting	Operating Temperature	Operating Pressure	Process Application	Flushing Connection
LA	Thread	100°F (38°C)	1250 PSI (86 bar) <sup>1</sup>	Vacuum	No
LB	Thread	100°F (38°C)	1250 PSI (86 bar) <sup>1,2</sup>	Low Pressure	No
LC	Flange		Flange Dependent <sup>1,2</sup>	Low Pressure	No
LD	Flange		Flange Dependent <sup>1</sup>	Low Pressure	Yes
LG	Thread	100°F (38°C)	1250 PSI (86 bar) <sup>1</sup>	Low Pressure	Yes
LH	Thread	100°F (38°C)	1250 PSI (86 bar) <sup>1</sup>	Vacuum	Yes
LJ	Inline Flow-Thru <sup>A</sup>	100°F (38°C)	1250 PSI (86 bar)	Low Pressure	No
LK	Inline Flow-Thru <sup>B</sup>	100°F (38°C)	1250 PSI (86 bar)	Low Pressure	No
LM	Inline Flow-Thru <sup>C</sup>	100°F (38°C)	1250 PSI (86 bar)	Low Pressure	No
LN	Inline Flow-Thru <sup>D</sup>		Flange & Schd Dep	Low Pressure	No
LP	Inline Flow-Thru <sup>E</sup>		Flange & Schd Dep	Low Pressure	No

<sup>1</sup> 5000 PSI elevated pressure available

<sup>2</sup> LB & LC with non-metallic lower are rated at 100 PSI.

<sup>A</sup> Welded by user

<sup>B</sup> Thread-attached connection

<sup>C</sup> Welded by user, pipe supplied, schedule dependent

<sup>D</sup> For 3/4" to 2" pipe diameter.

<sup>E</sup> For 3" to 8" pipe diameter



Figure 1: L-Series

**Master Gauge Co.**



**WHEN UNDER PRESSURE THINK OF US!**