



# High Purity Two Stage Brass Barstock Regulator

## LMSS - Series

### DESCRIPTION

The LMSS regulators are designed and constructed for both high purity and general purpose applications. While compact in design these regulators provided outstanding performance, but are rugged and versatile enough for laboratory or plant applications. They are ideally suited for use for applications where precise control of pressure is required.

### FEATURES

- Minimal internal volume: .450 cubic inches.
- Seat area protected by a 30 micron filter.
- Four delivery pressure ranges available.
- Stainless steel diaphragm eliminates contamination from diffusion or out gassing.
- External self reseating relief valve.
- Designed to pass an helium leak-rate test of  $1 \times 10^{-8}$  SCC/SEC.



### APPLICATIONS

The LMSS series regulators are ideal for critical pressure reduction applications, where precise control of pressure or flow is required. They are an excellent choice for use with high purity carrier gases or gas mixtures used with gas chromatographs and other instrumentation requiring up to 5.0 gas purity.

### MATERIALS OF CONSTRUCTION

- Body: Brass Barstock, Chrome Plated
- Bonnet: Zinc, Chrome Plated
- Diaphragm: 316 Stainless Steel
- Seat: Kel-F
- Seals: Teflon
- Filters: 30 micron sintered porous bronze
- Gauges: 2" Chrome Plated Brass

### SPECIFICATIONS

- Max. Inlet Pressure: 3,000 psig
- Operating Temperature Range: -20°F to 120°F
- Internal Volume: 0.450 in
- Leakage: Bubble Tight
- Flow Coefficient ( $C_V$ ):
- Shipping Weight: 3.1 lbs (without outlet valve)

### OPTION SPECIFICATIONS

- Optional Diaphragm Valve: Chrome Plate Brass Body  
Kel-f Seat, Eigeloy  
Diaphragm and Viton seals

### Model Selection Guide

Example: LMSS150V580 = model LMSS with up to 150 psig delivery pressure, with an diaphragm outlet valve and CGA 580 inlet connection

Specify:	Maximum Delivery Pressure		Outlet Port	CGA Inlet Connection
<b>LMSS</b>	[***]		[*]	[***]
	<b>Delivery Pressure Range</b> 015 = 0-15 psig  045 = 0-45 psig 100 = 0-100 psig 150 = 0-150 psig	<b>Delivery Pressure Gauge</b> 30" Hg - 0-30 or 0-30 Red Line 0 - 60 0 - 200 0 - 200	<b>0</b> - None (1/4" NPT female)  <b>V</b> - Diaphragm Valve	<b>000</b> - None (1/4" NPT female) <b>280</b> - Medical Breathing Mixtures <b>300</b> - Acetylene <b>320</b> - Carbon Dioxide <b>326</b> - Nitrous Oxide <b>346</b> - Zero Air, Compressed Air <b>350</b> - Hydrogen* <b>510</b> - Acetylene <b>540</b> - Oxygen <b>580</b> - Helium, Nitrogen, Argon <b>590</b> - Zero Air