

# BRASS HIGH PURITY LINE REGULATOR Series 3101L

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## DESCRIPTION

The 3101L Series line regulators are designed to suit a large variety of applications. The high purity design makes them ideal for line drop regulators in instrumentation labs, with the 0.2 C<sub>v</sub> orifice they are capable of very high flow rates.

## FEATURES

- Small internal volume - less than 5cc.
- Capable of large flows with only a small pressure drop.
- High purity diffusion resistant, metal diaphragm construction.
- Encapsulated seat.
- Diffusion resistant, brass diaphragm packless control valve installed on the outlet as standard.
- Designed to pass an inboard helium leak-rate test of 1x10<sup>-9</sup> cc per sec.
- All parts ultrasonically cleaned prior to assembly.
- Rear panel mounting holes.



## APPLICATIONS

The 3101L Series is an excellent choice for gas flow applications with low inlet pressures and low differential pressure between regulator inlet and outlet.

## SPECIFICATIONS

Max. Inlet Pressure: 3000 psig  
Operating Temp. Range: -40° to +185°  
Flow Coefficient(C<sub>v</sub>): 0.08 standard, 0.2 Cv optional\*\*  
Inlet and Outlet: 1/4" NPT female

## MATERIALS OF CONSTRUCTION

Body: brass  
Poppet: stainless steel  
Nozzle Assembly: brass Diaphragm:  
stainless steel  
Seat: Teflon®  
Diaphragm Seal: Teflon®  
Inlet Filter: stainless steel  
Bonnet: nickel plated aluminum  
Gauge: brass  
Knob: aluminum - black anodized



EZ3100 Bracket (see page 91).

## HOW TO ORDER\*\*\*

Model Number	Del. Press. Range psig	Del. Press. Gauge psig
3101L-10	5-10	0-15
3101L-25	5-25	0-60
3101L-50	5-50	0-100
3101L-100	10-100	0-200
3101L-250	20-250	0-400

\*\* Add "HF" to basic model number (i.e. 3101LHF-25).

\*\*\*For panel mounting bonnet add "PM" to base number (i.e., 3101LPM-50).

## OUTLET OPTIONS

	P/N Suffix
No Outlet Valve	NV
1/4" Compression Fitting	T4F
1/8" Compression Fitting	T2F
1/4" NPT Male	P4M