

BRASS

HIGH PURITY LINE REGULATOR

Series 3101L

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_v 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 1x10⁻⁹ 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°F.
 Flow Coefficient(C_v): 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