

# ECONOMICAL CORROSIVE GAS HIGH PURITY LINE REGULATOR Series 3451L

## DESCRIPTION

The 3451L Series line regulators are designed to suit a large variety of applications. The installation of Monel® internal parts into a stainless steel body creates an economical, high purity line regulator for corrosive gas service.

## FEATURES

- Capable of large flows with only a small pressure drop.
- Monel® internal construction for increased corrosion resistance.
- High purity diffusion resistant, metal diaphragm construction.
- Encapsulated seat.
- Diffusion resistant, stainless steel diaphragm packless control valve installed on the outlet as standard.
- Designed to pass an inboard helium leak-rate test of  $1 \times 10^{-9}$  cc per sec.
- All parts ultrasonically cleaned prior to assembly.
- Rear panel mounting holes.

## APPLICATIONS

The 3451L Series is an excellent choice for corrosive 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  
Inlet and Outlet: 1/4" NPT female  
Outlet Valve Standard

## HOW TO ORDER\*\*\*

Model Number	Del. Press. Range psig	Del. Press. Gauge psig
3451L-25	5-25	0-60
3451L-50	5-50	0-100
3451L-100	10-100	0-200

\*\*\*For panel mounting bonnet add "PM" to base number (i.e., 3451LPM-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



## MATERIALS OF CONSTRUCTION

Body: 316L Stainless Steel  
Seat Assembly: Monel®  
Diaphragm: Elgiloy®  
Seat: Kel-F®  
Diaphragm Seal: Teflon®  
Inlet Filter: Monel®  
Bonnet: nickel plated aluminum  
Gauge: stainless steel  
Knob: aluminum - black anodized



EZ3100 Bracket (see page 101).