

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 a monel® diaphragm, poppet and nozzle assembly 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.
- Hastelloy® 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 1×10^{-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°
Flow Coefficient(C_v): 0.08 standard
Inlet and Outlet: 1/4" NPT female

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: Hastelloy® C22
Poppet Spring: Hastelloy® C276
Diaphragm: Elgiloy®
Seat: Teflon® PFA
Diaphragm Seal: Teflon®
Inlet Filter: Hastelloy® C276 Bonnet: nickel plated aluminum
Gauge: stainless steel
Knob: aluminum - black anodized



EZ3100 Bracket (see page 91).