

# STAINLESS STEEL HIGH PURITY LINE REGULATOR Series 3401L

## DESCRIPTION

The 3401L 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 Cv 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, 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 3401L Series is an excellent choice for gas flow applications with low inlet pressures and low differential pressure between inlet and outlet. The high inlet pressure rating makes also very suitable as a sensitive cylinder regulator for many low pressure corrosive gases when fitted with the proper CGA cylinder valve outlet connection.

## SPECIFICATIONS

Max. Inlet Pressure: 3000 psig

Operating Temp. Range:  $-40^{\circ}$  to  $+185^{\circ}\text{F}$ .

Flow Coefficient(Cv): 0.08 standard, 0.2 Cv optional \*\*

Inlet and Outlet: 1/4" NPT female

Outlet Valve Standard

## MATERIALS OF CONSTRUCTION

Body: 316 stainless steel

Nozzle Assembly: 316 stainless steel

Diaphragm: stainless steel

Seat: Kel-F®

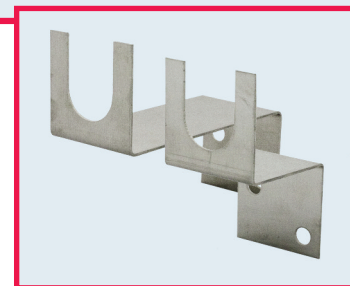
Diaphragm Seal: Teflon®

Inlet Filter: stainless steel

Bonnet: nickel plated aluminum

Gauge: stainless steel

Knob: aluminum - black anodized



EZ Mounting Brackets (see page 101).

## HOW TO ORDER\*\*\*

Model Number+	Del. Press. Range psig	Del. Press. Gauge psig
3401L-10	5-10	0-30
3401L-25	5-25	0-60
3401L-50	5-50	0-100
3401L-100	10-100	0-200
3401-250	20-250	0-400

\*\*Add "HF" to basic model number (i.e. 3401LHF-25).

\*\*\*For panel mounting bonnet add "PM" to base number (i.e., 3401LPM-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