

# STAINLESS STEEL HIGH PURITY 1-STAGE REGULATOR Series 3400

## DESCRIPTION

The Series 3400 single stage regulators are designed and constructed for both high purity and general purpose applications. They provide outstanding performance, yet they are rugged and versatile enough for the laboratory or plant.

## FEATURES

- Low internal volume - less than 5 cc.
- High purity diffusion resistant, metal diaphragm construction.
- Encapsulated seat.
- Diffusion resistant, stainless steel diaphragm packless control valve installed on 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 3400 Series regulators are ideal for use with many corrosive gases, such as ammonia, hydrogen sulfide, and sulfur dioxide. They are also very useful for controlling the pressure of gas mixtures containing reactive gas components and low levels of the corrosive halogen gases, like chlorine.

## SPECIFICATIONS

Max. Inlet Pressure: 3000 psig

Operating Temp. Range: -40° to +185°F.

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

Inlet and Outlet: 1/4" NPT female

Outlet Valve Standard

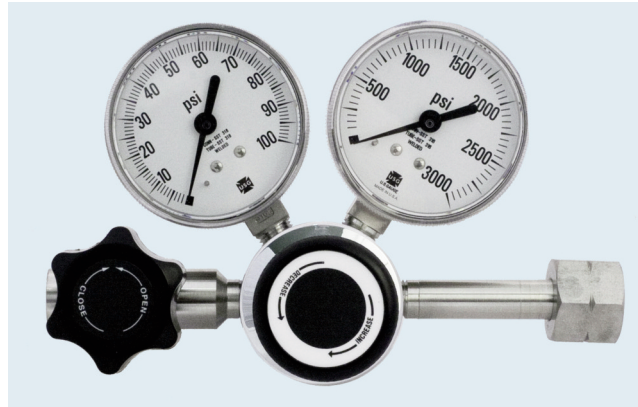
## HOW TO ORDER\*\*\*

Model Number	Del. Press. Range psig	Del. Press. Gauge psig	Inlet Press. Gauge psig
3401-25-CGA*	5-25	0-60	0-3000
3401-50-CGA*	5-50	0-100	0-3000
3401-100-CGA*	10-100	0-200	0-3000
3401-250-CGA*	25-250	0-400	0-3000
3401-500-CGA*	100-500	0-600	0-3000
3402-25-CGA*	5-25	0-60	0-2000
3402-50-CGA*	5-50	0-100	0-2000
3402-100-CGA*	10-100	0-200	0-2000
3403-25-CGA*	5-25	0-60	0-400
3403-50-CGA*	5-50	0-100	0-400

\*Specify CGA Connection Number when ordering.

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

\*\*\*For panel mounting bonnet add "PM" to base number (i.e., 3401PM-50-CGA).



## MATERIALS OF CONSTRUCTION

Body: 316L stainless steel

Nozzle Assembly: 316 stainless steel

Seat: Kel-F®

Diaphragm: stainless steel

Diaphragm Seal: Teflon®

Inlet Filter: stainless steel

Bonnet: nickel plated aluminum

Gauges: 316 stainless steel

Knob: aluminum - black anodized

**NOTE:** See pages 130-146 for gas data and equipment recommendations.

## OUTLET OPTIONS

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



EZ3100 Bracket (see page 101).

**Warning:** A Purge assembly (see pages 96 and 97) is strongly suggested when using the above regulators with any corrosive gas.