

## ***CORROSIVE GAS, 1-STAGE REGULATOR*** ***Series 3470***

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### **DESCRIPTION**

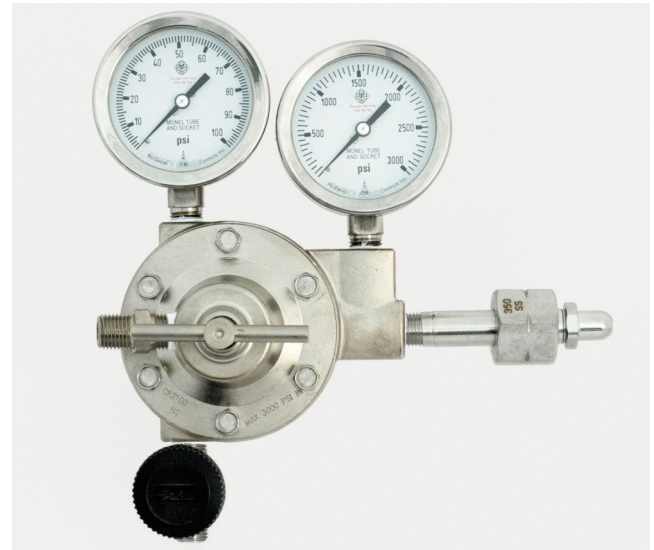
The Series 3470 single stage regulators are specifically designed and constructed for use with difficult to handle gases, such as chlorine and hydrogen chloride. The large monel nozzle and Kel-F seat combined with the tied diaphragm assembly greatly reduces the possibility of failure due to creep so common in other corrosive gas regulators. A Teflon-lining on the stainless steel diaphragm forms a protective coating to extend regulator life. The electroless nickel-plated brass body is a major contributor to the economical nature of this regulator while providing corrosion protection.

### **FEATURES**

- Four built-in Kel-F® seats provide convenient maintenance and long regulator life.
- Large 316L stainless steel diaphragm.
- Monel valve with Teflon packing installed on outlet.
- Captured vent bonnet provides for safe venting in the event of a diaphragm failure.

### **APPLICATIONS**

The 3470 Series regulators are ideal for use with many corrosive gases, such as chlorine, hydrogen chloride, boron trichloride, and boron trifluoride. They are also useful for controlling the pressure of high concentration gas mixtures containing these corrosive gas components.



### **MATERIALS OF CONSTRUCTION**

Body: Electroless nickel-plated brass

Nozzle: monel

Seat: Kel-F®

Diaphragm: 316L Stainless Steel

Inlet Filter: Electroless nickel-plated sintered bronze

Seals: Viton

### **SPECIFICATIONS**

Max. Inlet Pressure - 3000 psig

Operating Temp. Range - 20° to +160°F

Body Inlet and Outlet - 1/4" NPT female

Valve outlet - 1/4" NPT male

### **HOW TO ORDER**

<b>Model Number*</b>	<b>Del. Press. Range psig</b>	<b>Del. Press. Gauge psig</b>	<b>Inlet Press. Gauge psig</b>
3470-80-CGA*	5-80	0-100	0-3000
3470-160-CGA*	10-160	0-300	0-3000
3471-80-CGA*	5-80	0-100	0-1000
3471-160-CGA*	10-160	0-300	0-1000
3472-80-CGA*	5-80	0-100	0-300

\*Specify CGA Connection Number when ordering.

**Warning:** A Purge assembly (see pages 86 and 87) is strongly suggested when using the above regulators with any corrosive gas.