



TWO STAGE, DIAPHRAGM PRESSURE REDUCING REGULATOR

4500 SERIES

PREMIER INDUSTRIES

1590 99th Ln NE,
Minneapolis, MN 55449
763-786-4020



MADE IN THE USA
MINNEAPOLIS, MN

DESCRIPTION

The two stage, diaphragm sensed Premier 4500 Series regulators have all the same features as the Premier 2500 Series regulators, except the two stage design offers more precise outlet pressure control. The 4500 and 2500 Series regulators are available in 316 stainless steel, brass, nickel plated brass, and aluminum. Designs are available with both stainless and soft diaphragms.

Typical applications include:
Cylinder bottle applications,
Gas and liquid chromatography,
High purity carrier gases,
Zero, span, and calibration gases,
Lecture bottle applications,
Research and development labs,
Low flow purge systems,
Industrial controls

The Premier 4500 Series pressure reducing regulator's design is remarkably flexible.
Contact **PREMIER INDUSTRIES** for a custom 4500 Series regulator to meet your exact needs.

FEATURES

- Very competitive pricing
- Compact versions available with body diameter of 1.5 in. x 5.5 in. long
- Machined bar stock body eliminates porosity found in castings
- Reduced particle contamination with 15 micron valve cartridge filter
- Stable set pressures as cylinder pressure is reduced
- Interstage relief valve
- Stainless diaphragm option minimizes inboard diffusion of air into regulator
- Optional integral needle style shut off valve
- Optional hand knob styles available
- Optional piston sensed first stage

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SPECIFICATIONS

- **MAXIMUM INLET PRESSURE:** 3000 PSIG
- **CONTROL PRESSURE RANGES:**
 - 1-25 PSIG
 - 1-50 PSIG
 - 5-100 PSIG
- **FLOW (Cv):** 0.08

MATERIALS OF CONSTRUCTION

- **BODY & BONNET:**
 - SAE 360 Brass
 - SAE 360 Brass, Electroless Nickel Plated
 - 316 Stainless Steel
 - 6061-T6 Aluminum, Clear Anodized
 - Monel®
- **DIAPHRAGMS:**
 - Neoprene
 - 316 Stainless Steel
- **STAINLESS DIAPHRAGM SEAL:** Teflon®
- **MAIN VALVE SEAL:** Teflon®
- **VALVE SEAT:** Teflon®
- **FIRST STAGE RELIEF VALVE SEAL:** Viton®

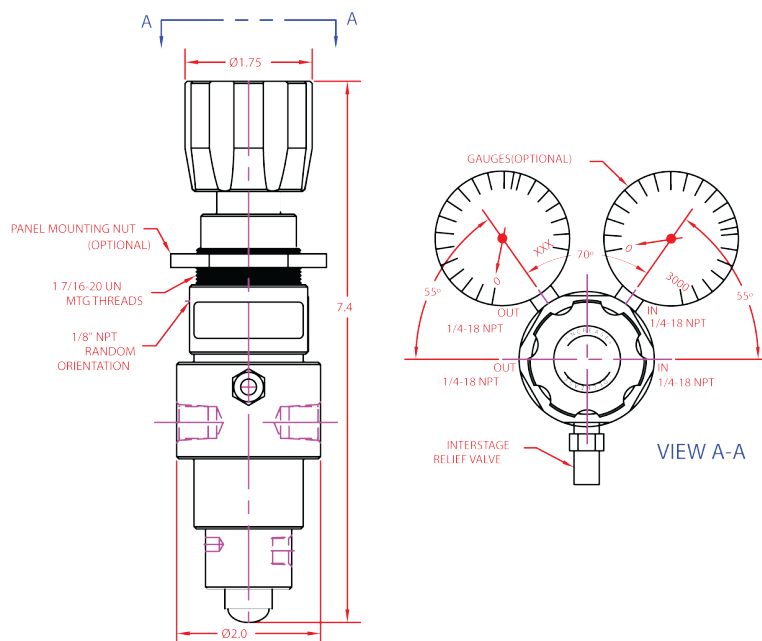
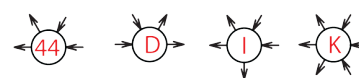
PORTING

- **INLET PORTING:**
 - 1/8" FNPT
 - 1/4" FNPT
 - All CGA Connections Available:
 - CGA 165, 180, 320, 350, 510, 540, 580, etc.
- **OUTLET PORTING:**
 - 1/8" FNPT
 - 1/4" FNPT

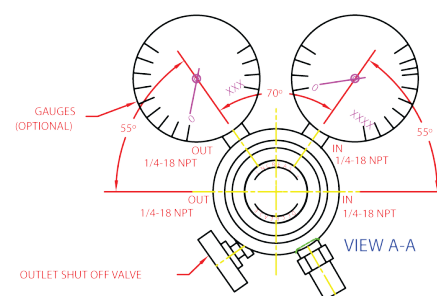
OPTIONS

- Anodized Colors for Aluminum Bodies & Bonnets
- Captured Bonnet Vent
- Gauges
- Panel Mount Bonnet & Nut
- Outlet Shut Off Valve
- Private Label

PORTING OPTIONS



VIEW FOR OPTIONAL INTERNAL OUTLET SHUT OFF VALVE



(Part Number: 50-11494 shown in drawings above)

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