



## SINGLE STAGE DIAPHRAGM SENSED ABSOLUTE PRESSURE *Pressure Reducing Regulators*

# 2500A SERIES

### PREMIER INDUSTRIES

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



**MADE IN THE USA**

*Minneapolis, MN*

### DESCRIPTION

Premier 2500A Series regulators are single stage, diaphragm sensed, absolute pressure regulators. They can be used to reduce supply pressures up to 3000 PSIG (206.84 bar) into a vacuum environment for sub-atmospheric pressure control. Premier 2500A Series regulators feature a stainless steel diffusion-resistant metal diaphragm, Cv 0.08, inlet filter, and optional panel mount or bottom mount.

### FEATURES

- Full vacuum sub-atmospheric pressure control
- Stainless steel diaphragm minimizes inboard diffusion of air into regulator
- Optional panel mounting nut
- Bottom mounting holes (#10-32 UNF, 2X)
- Non-venting
- Captured bonnet
- 15 micron sintered inlet filter
- 3000 PSIG (206.84 bar) max inlet pressure
- Cv 0.08
- Machined bar stock body, bonnet, and piston eliminates porosity found in castings

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## SINGLE STAGE DIAPHRAGM SENSED ABSOLUTE PRESSURE *Pressure Reducing Regulators*

### SPECIFICATIONS

- **MAXIMUM INLET PRESSURE:** 3000 PSIG (206.84 bar)
- **CONTROL PRESSURE RANGES:**
  - 50 mm Hg absolute - 15 psig (1.0 bar)
  - *\*\*50 mm Hg absolute = 28" Hg*
- **FLOW (Cv):** 0.08

### MATERIALS OF CONSTRUCTION

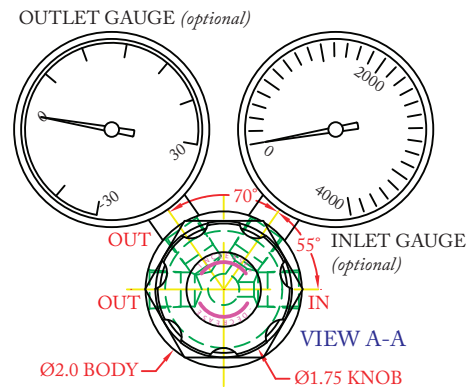
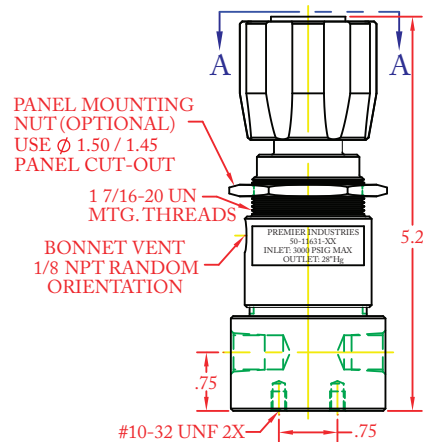
- **BODY:**
  - SAE 360 Brass/Nickel Plated
- **BONNET:**
  - SAE 360 Brass/Nickel Plated
- **DIAPHRAGM:**
  - 316 Stainless Steel
- **DIAPHRAGM SEAL:** PTFE
- **VALVE SEAT:** PFA
- **INLET FILTER:** 15 micron sintered bronze

### PORTING

- **INLET:**
  - 1/4-18 NPT
- **OUTLET:**
  - 1/4-18 NPT (28" Hg VAC-15 PSIG)
- **CAPTURED BONNET VENT:**
  - 1/8 NPT

### OPTIONS

- Gauges (2.5 inch diameter, brass nickel plated)
- Private label
- Panel mounting nut (P/N: 50-10240)



(Part number 50-11631 shown above)