

2500A SERIES

Single Stage, Diaphragm Sensed, Absolute Pressure
Pressure Reducing Regulators



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

SOME APPLICATIONS WILL REQUIRE A CUSTOM SOLUTION.
CONTACT PREMIER INDUSTRIES TO REQUEST A MODIFICATION
OR A CUSTOM DESIGN.

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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)

Contact factory for material certifications. Fees may apply.

PART NUMBER 50-11631

