

4902 SERIES

Single Stage, Vacuum Actuated Demand Flow Regulator



Premier's patented, efficient, and easy to use 4902 Series demand flow regulators (also referred to as "sample regulators" and "vacuum actuated regulators") supply gas as demanded by an analyzer and automatically shut off. The highly sensitive, patented, single stage design allows for reduced testing time, permitting the flow of gas at less than one inch water column. Furthermore, the high flow capacity of the Premier 4902 Series demand flow regulator enables multiple analyzers to be tested on a single docking station.

Premier 4902 Series regulators offer great flexibility, available in 6061-T6 aluminum, nickel plated brass, and stainless steel, with a variety of: porting options, wetted materials, o-ring seals, elastomers, gauges, and other additional options.

Premier demand flow regulators make calibration quick and easy by eliminating the need for sample bags, flow meters, or special operator training; they also save on expensive calibration gases by only transferring as much gas as demanded by the instrument. Commonly used with: gas analyzers, portable gas detectors, calibration gases, instruments that use pump drawn calibration gases.

FEATURES

- Compact size (3" diameter x 2.0" high)
- The unique high flow capability of the Premier 4902 Series design allows multiple analyzers on a single docking station.
- Patented single stage design (*patent no.: 8,550,113 B1*)
- Reduced particle contamination with 40 Micron stainless steel inlet filter
- Integral Relief Valve
- Versions available with integral C10 connections
- Versions available with stainless steel bodies and wetted components.
- Very competitive pricing
- Models are available for both corrosive and non-corrosive service
- Machined bar stock bodies eliminate 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

- **Flow:** 3.0 LPM @ 3" H₂O,
 - up to 8LPM with increased vacuum
- **Maximum inlet pressure :**
 - 3000 PSIG (206.84 bar)
(with appropriate inlet connection)

MATERIALS OF CONSTRUCTION

- **BODY:**
 - 6061-T6 Aluminum, Clear Anodize *(Standard)*
 - 303 Stainless Steel
 - Brass, Nickel Plated
- **BONNET:** Aluminum, Clear Anodize
- **VALVE SEAT:** Viton® or EPDM and Teflon®
- **O-RING SEALS:**
 - Viton® *(Standard)*
 - EPDM
 - numerous other compounds available
- **DIAPHRAGM:**
 - Buna-N *(Standard)*
 - Viton®
- **INLET GAUGE:**
 - Brass Socket / Stainless Steel Case *(Standard)*
 - Stainless Steel Socket / Stainless Steel Case

PORTING

- **INTEGRATED INLET PORTING OPTIONS:**
 - C10 integrated 1/4 FNPT, *(Standard)*
 - 1/4 FNPT
 - 1/8 FNPT
- **OPTIONAL INLET ADAPTER CONNECTIONS:**
 - C-10 (5/8-18 UNF)
 - CGA 180
 - CGA 350
 - CGA 330/660
 - CGA 580/590
 - CGA 600
- **INTEGRATED OUTLET PORTING OPTIONS:**
 - 1/8" FNPT *(Standard)*
- **OPTIONAL OUTLET ADAPTER CONNECTIONS:**
 - 3/16" hose barb *(Standard)*
 - 1/8" hose barb
 - 1/4" hose barb

OPTIONS

- CGA Connections
- Optional hose barbs available in outlet
- Private Label

ORDERING

- **Standard:** part number: 50-11030
- **Non-standard:** part number assigned per requirements

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Contact factory for material certifications. Fees may apply.

PART NUMBER 50-11030

