54 SERIES

Point-of-Use Panels

The 54 Series Point of Use Panels provide a modular design to mount and locate 400 Series regulators at the point of use for the most demanding gas applications. They are intended to provide final pressure control for research and ultra high purity gases or, in the case of the 54S, even corrosive service gases or mixtures. The high leak integrity of 1x10⁻⁹ cc/sec ensures delivery of those gases in an unaltered state to the most sensitive process or instrumentation applications. Supplied with up to four regulators per panel they are ideal permanent fixtures for point of use pressure control.

Typical Applications

- Research grade gas systems
- Ultra high purity gas control
- Gas chromatography mass spectrometry support gases
- Environmental calibration
- Liquefied hydrocarbon gas control
- Corrosive process gases
- Zero, span and support gases
- Hydrocarbon research and standards

Features

- 435, 438 or 445 Series Regulators
  - Ultra high gas purity
- Modular Design
  - Flexible installation
- Rear Entry Regulator Inlet Ports
  - Suitable for on- or in-wall piping
- Five Individually Selectable Pressure Ranges
  - 0-15 to 0-500 PSIG (0-1 to 0-34 BAR)
- 14 Gauge Stainless Steel Panel
  - Clean corrosion resistant installation
- Stainless Steel Diaphragm
  - No inboard diffusion
- High-Purity Diaphragm Outlet Valve
  - For flow control and positive shut-off

Materials

- Regulator and Valve Body
  - 316L stainless steel or brass barstock
- Bonnet
  - Chrome-plated brass barstock
- Seats
  - PTFE on regulator
  - PCTFE on valve
- Filter
  - Patented 10 micron stainless steel mesh or sintered bronze
- Diaphragm
  - 316L stainless steel
- Internal Seals
  - PTFE

Specifications

- Maximum Inlet Pressure
  - 3000 PSIG (210 BAR)
- Operating Temp. Range
  - -40°F to 140°F (-40°C to 60°C)
- Cv
  - 0.1 (Max outlet 50 PSIG/3.5 BAR or below)
  - 0.2 (Max outlet above 50 PSIG/3.5 BAR)
- Inlet/Outlet Connection:
  - 1/4" NPT female
- Gauges
  - 54B
    - Brass stem
    - Phosphor bronze tube
    - 2" (53mm) brass case
  - 54S
    - Stainless steel stem
    - Stainless steel tube
    - 2" (53mm) stainless steel case
- Panel
  - 14-gauge 304 stainless steel