



300 Series Regulators

327 SERIES

The 327 Series regulators are intended for secondary pressure control of non-corrosive, high purity or liquefied gases or as a point of use pressure control in high purity gas distribution systems.

- Single Stage
- 316L Stainless Steel Barstock Body
- Four Port Configuration
- Real Inlet

Typical Applications

- Bulk gas distribution systems
- Gas and liquid chromatography
- High purity carrier gases
- Zero, span, and calibration gases
- High purity chamber pressurization
- Liquefied hydrocarbon gas control
- Control of cryogenic gas



327 1032-M1L shown

Features

- CAPSULE® Seat**
Increased serviceability and life
- 316L Stainless Steel Diaphragm**
No inboard diffusion
- Low Wetted Surface Area**
Minimal purge requirements
- Field-Adjustable Pressure Limit**
Safeguard downstream equipment
- Convolutd Diaphragm**
Smooth pressure changes
- Compact Design**
Easily transported and integrated into systems
- Stainless Steel Barstock Body**
Increased corrosion resistance
- Rear Panel-Mountable**
Easy installation
- Pressure Ranges 0-15 to 0-200 PSIG (0-1 to 0-14 BAR)**
Broad range of applications
- 3000 PSIG (210 BAR) Inlet Pressure Rating**
Safe use with high pressure cylinders

Materials

- Body**
316L stainless steel barstock
- Bonnet**
Chrome-plated die-cast zinc
- Seat**
PTFE
- Filter**
Patented 10 micron stainless steel mesh
- Diaphragm**
316L stainless steel
- Internal Seals**
PTFE

Specifications

- Maximum Inlet Pressure**
3000 PSIG (210 BAR)
- Temperature Range**
-40°F to 140°F (-40°C to 60°C)
- Gauges**
2" (53mm) diameter
Chrome-plated brass case
Stainless steel internals
- Ports**
1/4" FPT
- Helium Leak Integrity**
1 x 10⁻⁸ scc/sec
- Cv**
0.1
See page 188 for flow curves
- Weight (327 1031-M1L)**
2.9 lbs. (1.29 kg)

**Flow Curves for
302, 304, 305, 307, 322, 324, 327, 402, 408, 420, 422, 426, 427, 428, 429 Series Regulators**

