300 Series Regulators

324 SERIES

The 324 Series regulators are intended for secondary pressure control of ultra-high purity and corrosive gases or as point of use pressure control in ultra-high purity gas distribution systems.

- Single Stage
- 316L Stainless Steel Barstock Body
- Three Port Configuration
- 316L Stainless Steel Diaphragm

### Typical Applications
- Bulk gas distribution systems
- Gas and liquid chromatography
- Ultra-high purity carrier gases
- Zero, span, and calibration gases
- Liquefied hydrocarbon gas control
- Control of cryogenic gases

### 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
- Convoluted Diaphragm
  - Smooth pressure changes
- Compact Design
  - Easily transported and integrated into systems
- 316L Stainless Steel Barstock Body
  - Increased corrosion resistance
- Rear Panel-Mountable
  - Easy installation
- Pressure Ranges 0-15 to 0-500 PSIG (0-1 to 0-34 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 316 mesh
- Diaphragm
  - 316L stainless steel
- Internal Seals
  - PTFE

### Specifications
- Temperature Range
  - -40°F to 140°F (-40°C to 60°C)
- Gauge
  - 2" (53mm) diameter
  - Chrome-plated case
  - Stainless steel internals
- Ports
  - 1/4" FPT
- Helium Leak Integrity
  - $1 \times 10^{-8}$ scc/sec
- Cv
  - 0.1
  - See page 202 for flow curves
- Weight (324 2021-000)
  - 2.4 lbs. (1.09 kg)

CRN 0H5216.5R1
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Installation Information

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<tr>
<td>1</td>
<td>0-15 PSIG (0-1 BAR)</td>
<td>30*-0-30 PSIG/ -1-0-2 BAR</td>
<td>0: None</td>
<td>0: 1/4&quot; FPT port</td>
<td>0: Bare body</td>
<td>000: 1/4&quot; FPT</td>
<td>M: Protocol station</td>
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<td>2</td>
<td>0-50 PSIG (0-3.5 BAR)</td>
<td>30*-0-100 PSIG/ -1-0-7 BAR</td>
<td>1: 1/4&quot; MPT</td>
<td>1: Standard assembly (PSIG/kPa gauges)</td>
<td>TF2: 1/8&quot; tube</td>
<td>Q: Protocol purge station</td>
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<td>3</td>
<td>0-100 PSIG (0-7 BAR)</td>
<td>30*-0-200 PSIG/ -1-0-14 BAR</td>
<td>2: 1/4&quot; tube fitting</td>
<td>2: Standard assembly (BAR/PSIG gauges)</td>
<td>TF4: 1/4&quot; tube</td>
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<td>4</td>
<td>0-250 PSIG (0-17 BAR)</td>
<td>0-400 PSIG/ 0-27 BAR</td>
<td>3: Diaphragm valve 1/4&quot; tube fitting</td>
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<tr>
<td>5</td>
<td>0-500 PSIG (0-34 BAR)</td>
<td>0-1000 PSIG/ 0-70 BAR</td>
<td>4: Diaphragm valve 1/4&quot; MPT</td>
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<td>7</td>
<td>0-150 PSIG (0-10 BAR)</td>
<td>30*-0-200 PSIG/ -1-0-14 BAR</td>
<td>5: Needle valve 1/4&quot; MPT</td>
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</table>

Related Options

Order No. Description
835 0204 Rear panel mount kit
Regulator Flow Curves

Flow Curves for 302, 304, 305, 307, 322, 324, 327, 401, 402, 408, 420, 422, 426, 427, 428, 429 Series

Flow Curves for 312, 315, 332, 411, 412, 414, 415, 430, 432 Series