ELECTRONIC PRESSURE MEASUREMENT PRODUCTS

Model 1536 2-inch Stainless Steel Pressure Gauges for Semiconductor

DESCRIPTION

U.S. Gauge Model 1536 pressure gauges are designed and manufactured for gas distribution equipment used in semiconductor manufacturing. These 2 inch, all stainless steel gauges are clean room produced, nitrogen purged, and double bagged.

These instruments are compatible with many toxic and corrosive gases. Welded face seal connections provide a threadless pressure seal and virtually eliminate a major source of contamination. Also available in NPT connections.

The Model 1536 is available in pressure ranges from 0 to 30 inches Hg VAC, to 0 to 4000 psi. This precision gauge incorporates rugged case construction with pressure relief.

FEATURES

- Cleaning for UHP gas applications exceeding ANSI B40.100 specifications
- Ra: 10 µinch (0.25 µm) finish on face seal connections
- Helium leak tested to confirm leakage rates of less than 10⁻⁹ scc/sec.
- All stainless steel (Type 316L) internal surfaces for corrosion resistance
- Large, easy-to-read dial graduations
- Handles wide variety of exotic gases
- Available with welded face seal fittings, or NPT connection
- Assembled and packaged in Class 10 clean room
- Low mount or center back connections

SPECIFICATIONS

Size: 2 inch diameter
Case: Drawn stainless steel polished with pressure relief
Ring and Window: One piece, threaded polycarbonate
Pointer: Aluminum, black finish
Dial: Aluminum, white background with black markings
Bourdon Tube: Type 316L stainless steel
Connection: Type 316L stainless steel, low mount or center back mount, male or female face seal fitting, or 1/4 inch male NPT – connectors are shipped with protective plastic caps
Surface Finish:
- Face seal connections: Ra: 10 µinch (0.25 µm)
- 1/4 inch NPT connections: 32 Ra
Ranges: 30 inches Hg vacuum to 4000 psi, single or dual scale, see ordering information
Overpressure: 130% of span maximum
Working Temperature:
- Ambient: -40°F (-40°C) to 149°F (65°C)
- Fluid: Maximum 212°F (100°C)
Accuracy: ±1% of span
Scales: psi, bar, kg/cm², KPa, MPa (single or dual scale) inches Hg (for vacuum range, compound and vacuum gauges only)
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LOW MOUNT

Swivel Female Face Seal

CENTER BACK MOUNT

Swivel Female Face Seal

1/4 Face Seal

1/4 NPT

Specifications are subject to change without notice. Visit our Web site for the most up-to-date information.
Model 1536 2-inch Stainless Steel Pressure Gauges for Semiconductor

Model Numbering:

<table>
<thead>
<tr>
<th>Model Numbering:</th>
<th>1536 2-inch stainless steel pressure gauges for semiconductor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure ranges</td>
<td>0015 0 to 15 psi 2000 0 to 2000 psi 0030 0 to 30 psi 3000 0 to 3000 psi 0060 0 to 60 psi 4000 0 to 4000 psi 0100 0 to 100 psi VAC 0 to 30 inches Hg vacuum 0150 0 to 150 psi V-0-15 Compound (vac to 15 psi) 0160 0 to 160 psi V-0-30 Compound (vac to 30 psi) 0200 0 to 200 psi V-0-60 Compound (vac to 60 psi) 0300 0 to 300 psi V-0-100 Compound (vac to 100 psi) 0400 0 to 400 psi V-0-150 Compound (vac to 150 psi) 0600 0 to 600 psi V-0-160 Compound (vac to 160 psi) 1000 0 to 1000 psi V-0-200 Compound (vac to 200 psi) 1500 0 to 1500 psi V-0-300 Compound (vac to 300 psi)</td>
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<tr>
<td>Dial units</td>
<td>PSI psi IN.HG inches Hg (compound and vacuum) BAR bar KPA kPa PSI/BAR psi and bar PSI/KG psi and kg/cm² PSI/KPA psi and kPa KG/MPA kg/cm² and MPa</td>
</tr>
<tr>
<td>Process connection location</td>
<td>LM Low mount CBM Center back mount</td>
</tr>
<tr>
<td>Process connection type</td>
<td>NPT 1/4 NPT male fixed MVCR Male face seal swivel FVCR Female face seal swivel</td>
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