HPX Miniature High Purity Pressure Gauge
28 mm Size

FEATURES
- 304 Stainless steel case
- Electropolished 316L SS wetted parts
- Male/Female swivel process connections (compatible with VCR®)
- Helium leak tested to 1 x 10⁻⁸ atm cc/s
- Suitable for class 100/ISO Class 5 environments

TYPICAL USES
- High purity gas delivery systems
- Gas sticks
- Process gas analyzers
- Semiconductor

SPECIFICATIONS

![Image](28-hpx_gauge_ds_RevC_09-15-22)

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**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Accuracy:</th>
<th>±3.0% of span</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dial Size:</td>
<td>28 mm</td>
</tr>
</tbody>
</table>
| Ranges: | Minimum: Vacuum to 30 psi/2 bar  
Maximum: Vacuum to 150 psi/10 bar |
| Surface Finish: | Gland: <0.25 μm Ra  
Socket: <0.38 μm Ra  
Diaphragm: <0.5 μm Ra |
| Process Connection: | 9/16-18UNF (compatible with VCR®)  
swivel male or female  
Location: Center back |
| Weight: | Appx. 85g |

**WETTED COMPONENTS**

<table>
<thead>
<tr>
<th>Diaphragm</th>
<th>Gland Process Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>316L SS</td>
<td>316L SS</td>
</tr>
</tbody>
</table>

**NON-WETTED COMPONENTS**

<table>
<thead>
<tr>
<th>Case</th>
<th>Ring</th>
<th>Window</th>
</tr>
</thead>
<tbody>
<tr>
<td>304 SS</td>
<td>304 SS</td>
<td>Polycarbonate</td>
</tr>
</tbody>
</table>

**MIN/MAX TEMPERATURE LIMITS**

<table>
<thead>
<tr>
<th>Ambient</th>
<th>Process</th>
<th>Storage</th>
</tr>
</thead>
</table>
| 23 °F to 113 °F  
(-5 °C to 45 °C) | 23 °F to 113 °F  
(-5 °C to 45 °C) | 23 °F to 113 °F  
(-5 °C to 45 °C) |

**KEY BENEFITS**
- Ultra-compact size
- Ideal for high density mounting
- 316L SS Wetted parts for protection against corrosion
- Double-bagged packaging
- Nitrogen purged

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## HPX Miniature High Purity Pressure Gauge
### 28 mm Size

<table>
<thead>
<tr>
<th>ORDERING CODE</th>
<th>Example:</th>
<th>Size</th>
<th>28</th>
<th>H</th>
<th>PXG</th>
<th>4SM</th>
<th>C</th>
<th>V/60#</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
<td></td>
<td>28 - 28 mm (1.125)</td>
<td>28</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Gauge Family</strong></td>
<td></td>
<td>H - High Purity Gauge</td>
<td>H</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Purity Level</strong></td>
<td></td>
<td>PXG - Class 100 clean room</td>
<td>PXG</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Connection Size</strong></td>
<td></td>
<td>4SM - Male Swivel 9/16 - 18 UNF (compatible with 1/4 VCR®)</td>
<td>4SM</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>4SU - 1/4 Female swivel UJR type (9/16-18 UNF female)</td>
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<tr>
<td></td>
<td></td>
<td>4SF - Female Swivel 9/16-18 UNF (compatible with 1/4 VCR®)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Process Connection Location</strong></td>
<td></td>
<td>C - Center back</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Range</strong></td>
<td></td>
<td>V/60#</td>
<td>V/60#</td>
<td></td>
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</tr>
</tbody>
</table>

### STANDARD RANGES

<table>
<thead>
<tr>
<th>psi</th>
<th>bar</th>
<th>kPa</th>
<th>MPa</th>
</tr>
</thead>
<tbody>
<tr>
<td>V/30#</td>
<td>N1/2bar</td>
<td>N100/200KP</td>
<td>NP1/P2MP</td>
</tr>
<tr>
<td>V/60#</td>
<td>N1/4bar</td>
<td>N100/400KP</td>
<td>NP1/P4MP</td>
</tr>
<tr>
<td>V/100#</td>
<td>N1/7bar</td>
<td>N100/700KP</td>
<td>NP1/P7MP</td>
</tr>
<tr>
<td>V/150#</td>
<td>N1/10bar</td>
<td>N100/1000KP</td>
<td>NP1/1MP</td>
</tr>
</tbody>
</table>

### DIMENSIONS mm [inches]

For reference only, consult Ashcroft for specific dimensional drawings

**Male Swivel**

- 9/16-18UNF
- 28 Dia [1.1 Dia]
- 30 [1.18]
- 51 [2.01]

**Female Swivel**

- 9/16-18UNF
- 28 Dia [1.1 Dia]
- 30 [1.18]
- 35 [1.38]