GasPro™ TEM-3780
Ultra-High Purity Nickel-316L In-Line Filter

GasPro™ TEM-3780 Series filters are specifically designed for the filtration of UHP semiconductor gases when an all-metal, corrosion tolerant design is required.

This all-welded, assembly will deliver 0.003 micron particle retention where a good flow rate and low pressure drop is required.

Standard semiconductor industry fittings are offered for easy installation.

Applications
High flow delivery of Ultra-High purity corrosive gases, including semiconductor epitaxy and silicone water manufacturing.

Specifications
- **3nm filter rating**
  Efficient particle retention efficiency at 0.003μm.
- **Maximum operating temperature**
  200°C [392°F] in inert gas.
- **Maximum operating pressure**
  206.8 bar [3,000 psig] at 20°C [68°F].

Features
- **All welded sintered nickel media-316L stainless hardware**
  Good corrosion resistance; excellent bake-out characteristics for fast dry-down and in-line qualification.
- **Electro-polished 316L housing**
  The filter assemblies have a 10Ra electro-polished 316L stainless steel housing to prevent corrosion and particle formation.
- **Cleanroom manufactured**
  Our GasPro™ TEM-3780 filters are manufactured in a cleanroom to ensure particle free, chemically clean, and organic-free handling and bagging to provide excellent out-of-package cleanliness.
- **100% helium tested to greater than 1x10^-9 atm cc/second.**
TEM-3780 Part Numbers and Ordering Information

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inlet/outlet fittings</th>
<th>Filter media/housing</th>
<th>Length (L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEM-3781-8</td>
<td>½” compression inlet/outlet</td>
<td>Nickel media 316L</td>
<td>76.2mm (3.0”)</td>
</tr>
<tr>
<td>TEM-3782-16</td>
<td>1” male face seal inlet, Female face seal outlet</td>
<td>Nickel media 316L</td>
<td>133.4mm (5.25”)</td>
</tr>
<tr>
<td>TEM-3785-8</td>
<td>⅝” m/m face seal</td>
<td>Nickel media 316L</td>
<td>97.8mm (3.85”)</td>
</tr>
<tr>
<td>TEM-3785-12</td>
<td>¾” m/m face seal</td>
<td>Nickel media 316L</td>
<td>118mm (4.65”)</td>
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<tr>
<td>TEM-3785-16</td>
<td>1.0” male face seal inlet/outlet</td>
<td>Nickel media 316L</td>
<td>133.4mm (5.25”)</td>
</tr>
<tr>
<td>TEM-37850-8HP*</td>
<td>½” butt weld</td>
<td>Nickel media 316L</td>
<td>108mm (4.25”)</td>
</tr>
</tbody>
</table>

Not all fittings, lengths, and part numbers are shown on the chart. Please contact your Porvair representative or an approved Porvair distributor for special length and fitting options.