UltraClamp™
Sanitary Clamp

MEISSNER
Meissner’s new UltraClamp™ is engineered to provide security for critical biopharmaceutical connections. Addressing the global shortage of polyamide, Meissner material scientists qualified polyketone (PK) for use in sanitary clamps. By benchmarking against existing sanitary clamp designs, UltraClamp™ has been optimized for use in single-use assemblies across a wide array of process connections.

**General Design**

- Securely attach sanitary fittings to filters, tubing assemblies, or biocontainer assemblies
- Screw and nut design allows for fine adjustments and range of application compression
- 360° compression
- Tamper evident feature available
- Use with gamma and autoclave sterilization
- For use with plastic or stainless steel process connections

**Typical Applications**

- Single-use assemblies
- Securing sanitary flange process connections between tubing and filter housings
**Materials of Construction**

Glass-Filled Polyketone (PK) – Cyan

Polyketone (PK) is a chosen market alternative to polyamides (Nylon) for clamp applications. PK has superior chemical and wear resistance and does not show any change in properties in the presence of moisture. In addition, PK is an eco-conscious engineering thermoplastic as its production emits 61% less CO₂ than PA66 (Nylon66).

**Technical Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Operating Pressure</td>
<td>80 psi (5.5 bar)</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>0 - 60 °C (32 - 140 °F)</td>
</tr>
<tr>
<td>Autoclave Stability</td>
<td>121 °C (250 °F) for 30 minutes</td>
</tr>
<tr>
<td>Gamma Stability</td>
<td>Max 40 kGy cumulative</td>
</tr>
<tr>
<td>TC Size</td>
<td>½&quot;, ¾&quot;, 1&quot;, 1 ½&quot;</td>
</tr>
</tbody>
</table>