Kleenpak™ HT Sterile Connector

For convenient and secure sterile connection of flexible tubing
For Convenient and Secure Sterile Connection of Flexible Tubing

Description
The disposable Kleenpak sterile connector allows for the dry connection of two separate fluid pathways, while maintaining the sterile integrity of both. The connector consists of a male and a female connector, each covered by a vented peel-away strip that protects the port and maintains the sterility of the sterile fluid pathway. Different connector options are available to allow for the connection of 15.8 mm (5⁄8 in.), 13 mm (1⁄2 in.), 9.6 mm (3⁄8 in.), or 6 mm (1⁄4 in.) nominal tubing. Kleenpak sterile connectors can either be autoclaved up to 130 °C or Gamma sterilized.

Benefits
- No capital equipment required
- Connection is made in seconds
- Connector can be autoclaved or Gamma sterilized
- Easy to make connection – even in cramped environments
- Maintains a sterile fluid pathway upon activation of device
- Peel-away strip maintains sterility until ready to use
- Vented to allow steam penetration and to prevent tubing collapse after autoclaving
- Shape coding ensures proper alignment
- Locking mechanism prevents incorrect assembly
- Device makes audible click when engaged
- Permanent connection for security – cannot be reopened

Quality Standards
- Manufactured under clean conditions in a controlled environment
- Manufactured under a Quality Management System certified to ISO 9001
- Supplied with a Certificate of Test confirming the quality standards and quality control tests performed by Pall (including endotoxin USP <85> and particulate tests)
- Validation tests include:
  - Burst
  - Creep-rupture
  - Shelf-life
  - Absence of BPA (Bisphenol-A)
  - Bacterial spore challenge (“soiling”) test
  - Tensile strength
  - Aerosol challenge
  - Closure integrity
  - Extractables
  - Autoclave
  - Water flow characteristics

Applications
- Transfer of inoculums to reactors
- Sampling during fermentation or cell culture
- Connection of small sterile equipment to large equipment (e.g. bioreactors)
- Handling of bulk material in a non-sterile environment
- Connection from tank to filling line
- Connection to a disposable system
- Probe insertion into bioccontainer
Technical Specifications

Materials of Construction

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector body</td>
<td>Polycarbonate</td>
</tr>
<tr>
<td>Rubber grommets</td>
<td>Thermoplastic elastomer</td>
</tr>
<tr>
<td>Plunger</td>
<td>Polycarbonate</td>
</tr>
<tr>
<td>Adaptors</td>
<td>Polycarbonate with TiO₂</td>
</tr>
<tr>
<td>O-ring</td>
<td>Internally lubricated ethylene propylene</td>
</tr>
<tr>
<td>Protective cap</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>Peel-away strip</td>
<td>Hydrophobic polyethersulfone</td>
</tr>
<tr>
<td>Anti-actuation ring</td>
<td>Thermoplastic elastomer</td>
</tr>
</tbody>
</table>

Aqueous Extractables (NVR)
Water at 20 – 25 °C after autoclaving at 130 °C
Typically < 1 mg

Sterilization Methods
Consult with Pall Corporation on sterilization methods
Gamma irradiation
Maximum 50 kGy
Autoclave
75 minutes at 130 °C

Operating Conditions
Maximum operating pressure and temperature
3 bar at 40 °C

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### Technical Specifications / Ordering Information

#### Dimensions (Nominal)

<table>
<thead>
<tr>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number</td>
<td>Internal diameter</td>
</tr>
<tr>
<td>KPCHT02M6</td>
<td>5.5 mm (0.22 in.)</td>
</tr>
<tr>
<td>KPCHT02M7</td>
<td>8.2 mm (0.32 in.)</td>
</tr>
<tr>
<td>KPCHT02F6</td>
<td>12.2 mm (0.48 in.)</td>
</tr>
<tr>
<td>KPCHT02F7</td>
<td>13.8 mm (0.54 in.)</td>
</tr>
</tbody>
</table>

#### Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>KPCHT02F6</td>
<td>Female connector with 13 mm (½ in.) hose barb</td>
<td>25 per box, double bagged</td>
</tr>
<tr>
<td>KPCHT02M6</td>
<td>Male connector with 13 mm (½ in.) hose barb</td>
<td>25 per box, double bagged</td>
</tr>
<tr>
<td>KPCHT02F7</td>
<td>Female connector with 6 mm (¼ in.) hose barb</td>
<td>25 per box, double bagged</td>
</tr>
<tr>
<td>KPCHT02M7</td>
<td>Male connector with 6 mm (¼ in.) hose barb</td>
<td>25 per box, double bagged</td>
</tr>
<tr>
<td>KPCHT02F10</td>
<td>Female connector with 9.6 mm (⅜ in.) hose barb</td>
<td>25 per box, double bagged</td>
</tr>
<tr>
<td>KPCHT02M10</td>
<td>Male connector with 9.6 mm (⅜ in.) hose barb</td>
<td>25 per box, double bagged</td>
</tr>
<tr>
<td>KPCHT02F11</td>
<td>Female connector with 15.8 mm (⅝ in.) hose barb</td>
<td>25 per box, double bagged</td>
</tr>
<tr>
<td>KPCHT02M11</td>
<td>Male connector with 15.8 mm (⅝ in.) hose barb</td>
<td>25 per box, double bagged</td>
</tr>
<tr>
<td>KPC01A</td>
<td>Assembly Aid</td>
<td>1 per box</td>
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</tbody>
</table>

**Warning:** This product is not sold sterile. For use in making sterile connections, each connector must be fitted to a closed single-use assembly that has been subjected to a validated sterilizing process.

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