The HC filter housings are constructed from 316 L or 304 stainless steel and manufactured in accordance to design and construction code EN13445 Group 3. They have a maximum pressure rating design of 10 bar g and can be used in temperatures up to 90 °C.

The HC Series filter housings are fully compliant with the European Pressure Equipment Directive (PED) and are available in a variety of sizes to accommodate 1, 3, 5 or 7 of 3M™ 700 Series filter cartridges, in either of two available lengths.

**Pressure Equipment Directive 97/23/CE**

HC vessels are built to PED 97/23/CE Category 3.3 “Sound Engineering Practice” as standard. The vessel designs have been developed so that they can be manufactured for the highest demanding applications - Group 1 (Hazardous Gas) - upon request from existing and known production documentation. All dimensions remain as shown here.

**ATEX Directive 94/9/CE**

The HC housings are not ATEX approved as standard. They can be approved for use in ATEX condition 11/2/G/T5 upon request. The user of these housings must ensure that they are used in accordance with the requirements of these PED and ATEX directives at all times. Please consult your local 3M Purification representative for any other classification or further information.

**Applications**

Prefilters or final filters for:
- Acids and bases
- Amines
- Beer and wine
- Bottled water
- Carbon beds solvents
- Completion fluids
- Deep wells
- RO membranes
- DI resins
- Edible oils
- EDM fluids
- Ultrapure water
- Fructose
- Wastewater
- Glycol
- Water flood
- Groundwater clean-up
- Workover fluids
- Laundry water
- Liquor
- Machine coolants
- Magnetic media
- Makeup water
- Organic
- Photo chemicals
- Plating solutions
- Desalination
- UF membranes
- Storm water

**Table 1: HC Series Housing Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Number of Filter Cartridges</th>
<th>Material</th>
<th>Connections types</th>
<th>Drain Size (BSPT)</th>
<th>Vent Size (BSPT)</th>
<th>Maximum Flow Rate (m³/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 HCB</td>
<td>1</td>
<td>304L</td>
<td>2&quot; BSP Male</td>
<td>1/2&quot;</td>
<td>1/4&quot;</td>
<td>18</td>
</tr>
<tr>
<td>03 HCB</td>
<td>3</td>
<td>316L</td>
<td>DN80</td>
<td>1&quot;</td>
<td>1/2&quot;</td>
<td>54</td>
</tr>
<tr>
<td>05 HCB</td>
<td>5</td>
<td>Stainless Steel</td>
<td>DN100</td>
<td>1&quot;</td>
<td>1/2&quot;</td>
<td>90</td>
</tr>
<tr>
<td>07 HCB</td>
<td>7</td>
<td></td>
<td>DN150</td>
<td>2&quot;</td>
<td>1&quot;</td>
<td>126</td>
</tr>
</tbody>
</table>

The Maximum Operating Pressure Range is from -1 to +10 bar g. The Operating Temperature Range is from 0 to 90 °C.

**Table 2: HC Series Housing Nominal Dimensions (in cm)**

<table>
<thead>
<tr>
<th>Model</th>
<th>01 HCB</th>
<th>03 HCB</th>
<th>05 HCB</th>
<th>07 HCB</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>#2</td>
<td>#1</td>
<td>#2</td>
<td>#1</td>
</tr>
<tr>
<td>1690</td>
<td>2190</td>
<td>2400</td>
<td>2920</td>
<td>2130</td>
</tr>
<tr>
<td>955</td>
<td>1215</td>
<td>1650</td>
<td>1910</td>
<td>1760</td>
</tr>
<tr>
<td>445</td>
<td>455</td>
<td>300</td>
<td>350</td>
<td>450</td>
</tr>
<tr>
<td>645</td>
<td>645</td>
<td>800</td>
<td>850</td>
<td>950</td>
</tr>
<tr>
<td>345</td>
<td>350</td>
<td>410</td>
<td></td>
<td></td>
</tr>
<tr>
<td>294</td>
<td>320</td>
<td>370</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Dimensions are for overall space requirements only. For all other uses, request a certified drawing.
  1 Maximum dimension
  2 #1 = height of cartridge is 28 ¾", #2 = height of cartridge is 39"
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### Ordering Guide HC Housing Range

<table>
<thead>
<tr>
<th>Number of Elements</th>
<th>Type of Housing</th>
<th>Type of Cover</th>
<th>Cartridge Size</th>
<th>Range</th>
<th>Housing Material</th>
<th>Gasket Material</th>
<th>Surface Finish</th>
<th>Type of Connection</th>
<th>Outlet</th>
<th>Outlet Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>HC</td>
<td>B = Bolted</td>
<td>1</td>
<td>V</td>
<td>4 = 304L</td>
<td>NB = Nitrile*</td>
<td>F0 = Acid Pickle</td>
<td>GM = 2” Male</td>
<td>D</td>
<td>N = None</td>
</tr>
<tr>
<td>03</td>
<td>HC</td>
<td>B = Bolted</td>
<td>1</td>
<td>V</td>
<td>4 = 304L</td>
<td>NB = Nitrile*</td>
<td>F0 = Acid Pickle</td>
<td>BP = Flanged</td>
<td>D</td>
<td>N = None</td>
</tr>
<tr>
<td>05</td>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td>6 = 316L</td>
<td></td>
<td>F0 = Acid Pickle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>07</td>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td>6 = 316L</td>
<td></td>
<td>F0 = Acid Pickle</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example Part Number: Single Cartridge (28 ¾") Housing: 01HCB1V4NBFOGMDN  Multi Cartridge (39") Housing: 07HCB2VNBFOBPDN

* For other Gasket Materials, please contact a 3M Purification representative.