GPD filters are part of Critical Process Filtration’s economical, general service product line that can be used to lower the total cost of filtration from simple to the most complex applications. Produced using the same quality materials and manufacturing excellence as our other product lines, you can be assured of their performance, dependability and scalability. While general service filters are not integrity tested or validated for retention, these highly efficient filters remove large amounts of contaminants early in the process to reduce the load on your expensive downstream filters. They are also useful as stand-alone clarifying or particle removal filters in less critical applications.

GPD cartridge and capsule filters are constructed with pleated polypropylene depth media for prefiltering water, chemicals and solvents. These hydrophilic filters have high retention and protect downstream filters by removing large amounts of particulates and other contaminants. Pore sizes range from 0.10 to 100 µm.

Critical Process provides unrivaled delivery times, technical consulting before purchasing, and very competitively priced high-performance products. Our comprehensive testing & analysis and validation services support your team whenever they need it. Your process experts partnering with our filtration experts is how we deliver your company’s solution right the first time.

GPD filters are recommended for clarification & prefiltration in:
- Inks & Dyes
- Specialty Chemicals
- Cosmetics
- Process Water
- Process Chemicals
- Air & Gases

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GPD filters are recommended for clarification & prefiltration in:
- Inks & Dyes
- Specialty Chemicals
- Cosmetics
- Process Water
- Process Chemicals
- Air & Gases

CARTRIDGES – Nominal Dimensions
Length: 5 to 40 in. (12.7 to 101.6 cm)
Outside Diameter: 2.75 in. (7.0 cm)

CAPSULES – Nominal Dimensions
Length: 2 to 30 in. (5.1 to 76.2 cm)
Outside Diameter: 3.50 in. (8.9 cm)
**Critical Process Filtration, Inc.**

**Filtration Area (Nominal)**

<table>
<thead>
<tr>
<th>Length</th>
<th>CAPSULES</th>
<th>CARTRIDGES AND CAPSULES</th>
<th>CARTRIDGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>2.028cm</td>
<td>5.08cm</td>
<td>N/A</td>
</tr>
<tr>
<td>5&quot;</td>
<td>12.7cm</td>
<td>25.4cm</td>
<td>N/A</td>
</tr>
<tr>
<td>10&quot;</td>
<td>20.3cm</td>
<td>50.8cm</td>
<td>76.2cm</td>
</tr>
<tr>
<td>20&quot;</td>
<td>25.4cm</td>
<td>50.8cm</td>
<td>101.6cm</td>
</tr>
<tr>
<td>30&quot;</td>
<td>30.5cm</td>
<td>76.2cm</td>
<td>127.0cm</td>
</tr>
<tr>
<td>40&quot;</td>
<td>30.5cm</td>
<td>101.6cm</td>
<td>137.1cm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area</th>
<th>CAPSULES</th>
<th>CARTRIDGES AND CAPSULES</th>
<th>CARTRIDGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1 ft²</td>
<td>0.10m²</td>
<td>0.27m²</td>
<td>0.58m²</td>
</tr>
<tr>
<td>2.9 ft²</td>
<td>0.27m²</td>
<td>0.58m²</td>
<td>1.16m²</td>
</tr>
<tr>
<td>6.24 ft²</td>
<td>0.58m²</td>
<td>1.16m²</td>
<td>1.74m²</td>
</tr>
<tr>
<td>12.48 ft²</td>
<td>1.16m²</td>
<td>1.74m²</td>
<td>2.32m²</td>
</tr>
<tr>
<td>18.72 ft²</td>
<td>1.74m²</td>
<td>2.32m²</td>
<td>3.12m²</td>
</tr>
<tr>
<td>24.96 ft²</td>
<td>3.12m²</td>
<td>3.12m²</td>
<td>4.17m²</td>
</tr>
</tbody>
</table>

**Extractables**

GPD filters typically exhibit low levels of non-volatile residues.

**Non-Fiber Releasing**

The GPD filters comply with Title 21 CFR sections 210.3 (b)(6) and 211.72, for non-fiber releasing filters.

**FDA and EC Compliance**

Materials meet the requirements listed by the FDA as appropriate for use in articles intended for repeated food contact as specified in Title 21 CFR sections 174.5, 177.1500, 177.1520, 177.1630, 177.2440, and 177.2600 as applicable. All materials used to make the filters are listed in European Commission Regulation EU/10/2011, Annex 1.
Flow rates for Cartridge filters are per 10-inch length. The test fluid is water at ambient temperature.

Flow Rates for GPD Cartridges by Pore Size
Flow rates for Capsule filters are tested using a 2” capsule filter with 1” sanitary inlet and outlet ports. The test fluid is water at ambient temperature. Flow rates for larger capsules will scale with filtration area. Rates will vary based on end configuration of the capsule.
GPD Filters Ordering Information

Fill in the corresponding codes in the boxes below to build your Part Number.

To consult with one of our technical team members, request a quote or place an order: call (603) 880-4420 or contact us here.

Cartridge Filters

GPD Filters

- Pore Size Code
  - -10 = 0.10 μm
  - -20 = 0.22 μm
  - -40 = 0.45 μm
  - -60 = 0.65 μm
  - 1-0 = 1.0 μm
  - 3-0 = 3.0 μm
  - 5-0 = 5.0 μm
  - 10- = 10 μm
  - 20- = 20 μm
  - 30- = 30 μm
  - 40- = 40 μm
  - 60- = 60 μm
  - 999 = 100 μm

- SS Ring
  - S = Ring
  - N = No Ring

- Length
  - 05 = 5 in. (12.7 cm)
  - 09 = 9.75 in. (24.8 cm)
  - 01 = 10 in. (25.4 cm)
  - 09 = 19.5 in. (49.5 cm)
  - 02 = 20 in. (50.8 cm)
  - 02 = 29.25 in. (74.3 cm)
  - 03 = 30 in. (76.2 cm)
  - 04 = 40 in. (101.6 cm)

- O-Ring/Gasket Code
  - S = Silicone
  - B = Buna
  - V = Viton (or FKM)
  - T = FEP Encapsulated Viton (or FKM)
  - E = EP
  - R = FEP Encapsulated Silicone

- End Cap Code
  - 0 = Flat Gasket, DOE
  - 1 = 2-222 O-ring/Plug
  - 2 = 2-222 O-ring/Flat
  - 6 = 2-226 O-ring/Flat
  - 8 = 2-22 O-ring/Spear
  - 9 = 2-226 O-ring/Spear

*Additional End Configurations Available

Capsule Filters

- Pore Size Code
  - -10 = 0.10 μm
  - -20 = 0.22 μm
  - -40 = 0.45 μm
  - -60 = 0.65 μm
  - 1-0 = 1.0 μm
  - 3-0 = 3.0 μm
  - 5-0 = 5.0 μm
  - 10- = 10 μm
  - 20- = 20 μm
  - 30- = 30 μm
  - 40- = 40 μm
  - 60- = 60 μm
  - 999 = 100 μm

- Pre-Sterilized or Not
  - S = Pre-Sterilized
  - G = Gamma Stable
  - N = Not Sterilized

- Length
  - A = 2”
  - B = 5”
  - C = 10”
  - D = 20”
  - E = 30”

- Inlet
  - A = 1/4” Female NPT
  - B = 1/4” Male NPT
  - C = 3/8” Female NPT
  - D = 1/2” Female NPT
  - E = 1/2” Male NPT
  - F = 1” Sanitary
  - G = Hose Barb*
  - H = 1 ½” Sanitary with side vent
  - I = ½” Single Stepped Barb with side vent

- Outlet
  - A = 1/4” Female NPT
  - B = 1/4” Male NPT
  - C = 3/8” Female NPT
  - D = 1/2” Female NPT
  - E = 1/2” Male NPT
  - F = 1” Sanitary
  - G = Hose Barb*
  - H = 1 ½” Sanitary with side vent
  - I = ½” Single Stepped Barb with side vent
  - IB = ½” Single Stepped Barb with filling bell and side vent

- Side Vent Options
  - 1 = Luer Lock
  - 2 = Bleed Valve

- O-Rings
  - (Bleed Valves Only)
  - S = Silicone
  - E = EP
  - V = Viton
  - B = Buna
  - K = FFKM

*Fits hoses/tubes with inner diameter 11/32 to 9/16 inches

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Data Sheet GPDDS Rev A