Overview

ProcessGard® PP cartridge and disposable filters are ideally suited for acids, bases, process water, solvents, dyes and lacquers in flat panel display and chemical manufacturing.

Applications

• Flat panel display – all applications in wet etching, stripping, developer and cleaning process
• Chemical manufacturing – pre- and final filtration for solvent, photoresist and all pigment chemicals

Features and Benefits

• Broad chemical and thermal compatibility
• Highly customized configurations available to meet application and customer needs
• Various retention ratings, fitting sizes and types to meet various requirements
• Materials of construction conform to those listed in U.S. FDA Code of Federal Regulation Title 21 Part 177

ProcessGard PP Cartridge Filters

Specifications

<table>
<thead>
<tr>
<th>Materials:</th>
<th>Membrane, supports, core, sleeve</th>
<th>Polypropylene</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>O-rings (AS68-222)</td>
<td>EPDM, fluoroelastomer, E-FKM (encapsulated fluoroelastomer)</td>
</tr>
<tr>
<td>Dimensions: (nominal)</td>
<td>Length</td>
<td>263 mm (10.35&quot;)</td>
</tr>
<tr>
<td></td>
<td>Diameter</td>
<td>70 mm (2.75&quot;)</td>
</tr>
<tr>
<td>Operating conditions:</td>
<td>Maximum forward differential pressure</td>
<td>0.4 MPa (4.0 bar, 58 psi) @ 20°C (68°F)</td>
</tr>
<tr>
<td></td>
<td>Maximum reverse differential pressure</td>
<td>0.25 MPa (2.5 bar, 29 psi) @ 20°C (68°F)</td>
</tr>
<tr>
<td></td>
<td>Maximum operating temperature</td>
<td>80°C (176°F)</td>
</tr>
<tr>
<td>Retention rating:</td>
<td>0.3, 0.6, 1, 3, 5, 7, 10, 20, 30 and 40 µm</td>
<td></td>
</tr>
</tbody>
</table>
Performance Data

ProcessGard PP Cartridge Filters

Dimensions

Ordering Information

ProcessGard PP Cartridge Filters

Part Number

PP

Quantity
1/pack

O-ring
E = EPDM
V = FKM
T = E-FKM

Length
05 = 5"
10 = 10"
20 = 20"
30 = 30"
40 = 40"

Code
0 = Code 0
F = Code F
5 = Code 5
6 = Code 6*
7 = Code 7
8 = Code 8**

Retention Rating
03 = 0.3 µm
06 = 0.6 µm
10 = 1.0 µm
30 = 3.0 µm
50 = 5.0 µm
70 = 7.0 µm
1H = 10 µm
2H = 20 µm
3H = 30 µm
4H = 40 µm

* 222 with 83 mm/247 mm
** 226 with 70 mm/263 mm
ProcessGard PP Cartridge Filters

Specifications

| Materials:  | Membrane, supports, core, sleeve Polypropylene |
| Fitting connections | Flare, MNPT, FNPT, compression |
| Operating conditions: | Maximum forward differential pressure 0.4 MPa (4.0 bar, 58 psi) @ 20°C (68°F) |
| | Maximum reverse differential pressure 0.2 MPa (2.0 bar, 29 psi) @ 20°C (68°F) |
| | Maximum operating temperature 60°C (140°F) |
| Retention rating: | 0.3, 0.6, 1, 3, 5, 10, 20, 30, 40 and 70 µm |

Performance Data

<table>
<thead>
<tr>
<th>ProcessGard PP (1½&quot;) Disposable Filters ¼&quot; Compression</th>
<th>ProcessGard PP (5&quot;) Disposable Filters ¾&quot; Compression</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Rate (L/min) @ 22°C</td>
<td>0</td>
</tr>
<tr>
<td>Differential Pressure (kg/cm²)</td>
<td>0</td>
</tr>
<tr>
<td>0.3 µm</td>
<td>0.6 µm</td>
</tr>
<tr>
<td>10–70 µm</td>
<td>0.3 µm</td>
</tr>
<tr>
<td>0.3 µm</td>
<td>0.6 µm</td>
</tr>
<tr>
<td>10–70 µm</td>
<td>0.3 µm</td>
</tr>
</tbody>
</table>
### Dimensions

**ProcessGard SKP-H (1 1/2")**

- **Ø73 mm (2.87")**
- **Ø68 mm (2.68")**

**ProcessGard SKP-S (2 1/2")**

- **Ø73 mm (2.87")**
- **Ø68 mm (2.68")**

**ProcessGard SKP-L (5")**

- **Ø73 mm (2.87")**
- **Ø68 mm (2.68")**

### Fitting Connection

<table>
<thead>
<tr>
<th>Inlet/Outlet</th>
<th>Vent/Drain</th>
<th>SKP-H (1 1/2&quot;)</th>
<th>SKP-S (2 1/2&quot;)</th>
<th>SKP-L (5&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; flare</td>
<td>1/4&quot; MNPT (2 caps)</td>
<td>72 mm (2.83&quot;) 118 mm (4.64&quot;) 98 mm (3.86&quot;) 152 mm (5.98&quot;) 153 mm (6.02&quot;) 208 mm (8.19&quot;)</td>
<td>72 mm (2.83&quot;) 118 mm (4.64&quot;) 98 mm (3.86&quot;) 152 mm (5.98&quot;) 153 mm (6.02&quot;) 208 mm (8.19&quot;)</td>
<td>72 mm (2.83&quot;) 118 mm (4.64&quot;) 98 mm (3.86&quot;) 152 mm (5.98&quot;) 153 mm (6.02&quot;) 208 mm (8.19&quot;)</td>
</tr>
<tr>
<td>3/8&quot; flare</td>
<td>1/4&quot; flare (no caps)</td>
<td>72 mm (2.83&quot;) 94 mm (3.70&quot;) 98 mm (3.86&quot;) 128 mm (5.04&quot;) 153 mm (6.02&quot;) 183 mm (7.20&quot;)</td>
<td>72 mm (2.83&quot;) 94 mm (3.70&quot;) 98 mm (3.86&quot;) 128 mm (5.04&quot;) 153 mm (6.02&quot;) 183 mm (7.20&quot;)</td>
<td>72 mm (2.83&quot;) 94 mm (3.70&quot;) 98 mm (3.86&quot;) 128 mm (5.04&quot;) 153 mm (6.02&quot;) 183 mm (7.20&quot;)</td>
</tr>
<tr>
<td>1/4&quot; compression</td>
<td>1/4&quot; compression (2 caps)</td>
<td>72 mm (2.83&quot;) 91 mm (3.58&quot;) 98 mm (3.86&quot;) 125 mm (4.92&quot;) 153 mm (6.02&quot;) 180 mm (7.08&quot;)</td>
<td>72 mm (2.83&quot;) 91 mm (3.58&quot;) 98 mm (3.86&quot;) 125 mm (4.92&quot;) 153 mm (6.02&quot;) 180 mm (7.08&quot;)</td>
<td>72 mm (2.83&quot;) 91 mm (3.58&quot;) 98 mm (3.86&quot;) 125 mm (4.92&quot;) 153 mm (6.02&quot;) 180 mm (7.08&quot;)</td>
</tr>
<tr>
<td>3/8&quot; compression</td>
<td>3/8&quot; compression (2 caps)</td>
<td>72 mm (2.83&quot;) 97 mm (3.82&quot;) 98 mm (3.86&quot;) 131 mm (5.16&quot;) 153 mm (6.02&quot;) 186 mm (7.32&quot;)</td>
<td>72 mm (2.83&quot;) 97 mm (3.82&quot;) 98 mm (3.86&quot;) 131 mm (5.16&quot;) 153 mm (6.02&quot;) 186 mm (7.32&quot;)</td>
<td>72 mm (2.83&quot;) 97 mm (3.82&quot;) 98 mm (3.86&quot;) 131 mm (5.16&quot;) 153 mm (6.02&quot;) 186 mm (7.32&quot;)</td>
</tr>
<tr>
<td>1/2&quot; compression</td>
<td>1/2&quot; compression (2 caps)</td>
<td>72 mm (2.83&quot;) 109 mm (4.29&quot;) 98 mm (3.86&quot;) 143 mm (5.63&quot;) 153 mm (6.02&quot;) 194 mm (7.63&quot;)</td>
<td>72 mm (2.83&quot;) 109 mm (4.29&quot;) 98 mm (3.86&quot;) 143 mm (5.63&quot;) 153 mm (6.02&quot;) 194 mm (7.63&quot;)</td>
<td>72 mm (2.83&quot;) 109 mm (4.29&quot;) 98 mm (3.86&quot;) 143 mm (5.63&quot;) 153 mm (6.02&quot;) 194 mm (7.63&quot;)</td>
</tr>
<tr>
<td>3/8&quot; FNPT</td>
<td>M8 (2 caps)</td>
<td>72 mm (2.83&quot;) 109 mm (4.29&quot;) 98 mm (3.86&quot;) 143 mm (5.63&quot;) 153 mm (6.02&quot;) 194 mm (7.63&quot;)</td>
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</tr>
</tbody>
</table>

### Ordering Information

**ProcessGard PP Disposable Filters**

**Part Number**

- SKPP

**I/O Fitting**

- 2C = 1/4" compression seal
- 3C = 3/8" compression seal
- 4C = 1/2" compression seal
- 2N = 1/4" MNPT
- 3NF = 3/8" FNPT
- 2F = 1/4" flare
- 3F = 3/8" flare

**Length**

- H = 1 1/2" (Ø73 mm (2.87")
- S = 2 1/2" (Ø68 mm (2.68")
- L = 5" (Ø73 mm (2.87")

**Retention Rating**

- 003 = 0.3 µm
- 005 = 5.0 µm
- 006 = 0.6 µm
- 010 = 1.0 µm
- 012 = 1.2 µm
- 030 = 3.0 µm

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