**Cartridge Housings and Elements**

Schroeder has depth filtration cartridges for fine filtration and the housings to fit. Standard cartridges are available in 10, 20, 30 and 40 inch lengths. These meltblown filters come in either a 2.5" or 4.5" diameter. Depth filter cartridges have larger openings towards the outside of the element and smaller openings near the center. This allows for higher dirt holding capacity to lengthen the life of the element.

Most common are the elements with a double open end (DOE). Cartridges with either a 222 o-ring seal or a FIN style are also available. The range of filtration on these elements is from 1 micron up to 100 microns. All of our elements are made from 100% pure polypropylene fibers to ensure high quality. Elements with center tubes for support are also available.

The housings for these elements are available with either a 100% polypropylene head and bowl or in electro-polished stainless steel.

The polypropylene housings accept either the 10" or 20" elements for both 2.5" and 4.5" diameter. The threaded head and bowl allow for quick and easy changing of the elements. Various sizes of NPT ports make installation quick and easy and allow flows up to 40 gpm depending upon the housing size. Because the housings are 100% polypropylene, they are tough and durable. The 2.5" housings are rated up to 125 psi (8.6 bar) at 140°F (60°C) while the 4.5" housings are rated for 100 psi (7.0 bar) at 140°F (60°C).

Stainless steel housings are used for higher flow rates and pressure up to 150 psi (10.0 bar) at 167°F (75°C). These larger housings hold seven elements in a circular array in all four standard lengths. The quick release clamp on the lid allows for easy changing of the elements while providing a tight seal. Each one comes standard with a gauge port in the lid. DOE and 222 style cartridges are accepted by these housings.

Both types of housing are durable, built to last in harsh conditions and have low clean pressure drops.

- 100% polypropylene construction
- Max operating temperature 167°F (75°C)
- Max pressure drop 46 psi (3.2 bar) @ 68°F (20°C)
- Recommended cartridge replacement at 22 psi (1.5 bar)
- Special lengths and micron ratings available upon request
- 222 o-ring seal, FIN style end caps and center support tubes available upon request

---

**Features**

- 100% polypropylene construction
- Max operating temperature 167°F (75°C)
- Max pressure drop 46 psi (3.2 bar) @ 68°F (20°C)
- Recommended cartridge replacement at 22 psi (1.5 bar)
- Special lengths and micron ratings available upon request
- 222 o-ring seal, FIN style end caps and center support tubes available upon request

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**Industries Served**

- Chemical Processing
- Industrial
- Thermal Transfer
- Power Generation
- Pulp & Paper
- Steel Making
- Waste Water Treatment

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![Diagram](image.png)

Large particles are filtered in outer layer that extends the cartridge life

Smaller particles are filtered in the inner layer that ensures the filtration efficiency

Large particle ← Small particle
**Cartridge Housings and Elements**

**Model:**

<table>
<thead>
<tr>
<th>Model</th>
<th>C (inch)</th>
<th>D (inch)</th>
<th>E (inch)</th>
<th>N3/N4</th>
<th>N5</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH1210</td>
<td>15.8 (401.32)</td>
<td>3.5 (88.9)</td>
<td>4.5 (114.3)</td>
<td>¼&quot;</td>
<td>¼&quot;</td>
</tr>
<tr>
<td>CH1220</td>
<td>25.8 (655.32)</td>
<td>3.5 (88.9)</td>
<td>4.5 (114.3)</td>
<td>¼&quot;</td>
<td>¼&quot;</td>
</tr>
<tr>
<td>CH1230</td>
<td>35.8 (909.32)</td>
<td>3.5 (88.9)</td>
<td>4.5 (114.3)</td>
<td>¼&quot;</td>
<td>¼&quot;</td>
</tr>
</tbody>
</table>

**Specifications**

- **Max. Flow Rate:** 5-10 gpm (18.33 to 36.66 L/min)
- **Max. Working Pressure:** 100 psi (7 bar)
- **Max Temperature:** 167°F (75°C)
- **Housing Material:** Polypropylene
- **O-Ring Material:** Buna N
- **Initial Pressure Drop:** 1 psi at 10 gpm
- **Type of Element Accepted:** DOE

**Dimensions**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cap</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Rod</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>O-Ring</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Fitting</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Cover</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Vent</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Gasket</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Cap</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>Screw Size</td>
<td>1</td>
</tr>
</tbody>
</table>

**NOTE:**

Drawings may change without notice. Contact factory for certified drawings.
# Cartridge Housings and Elements

How to Build a Valid Model Number for a Single Cartridge PP Housing 2.5”:

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
<th>BOX 7</th>
<th>BOX 8</th>
<th>BOX 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: NOTE: One option per box

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
<th>BOX 7</th>
<th>BOX 8</th>
<th>BOX 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH</td>
<td>1</td>
<td>2</td>
<td>10</td>
<td>PP</td>
<td>04</td>
<td>B</td>
<td>1</td>
<td>V</td>
</tr>
</tbody>
</table>

= CH1210PP04B1V

How to Build a Valid Model Number for a Single Cartridge PP Housing 2.5”:

<table>
<thead>
<tr>
<th>Filter Series</th>
<th># of Cartridges</th>
<th>Cartridge Diameter</th>
<th>Cartridge Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH</td>
<td>1</td>
<td>2 = 2” diameter</td>
<td>10 = 10”</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Housing Material</th>
<th>Connection</th>
<th>O-Ring</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP* = Polypropylene head and bowl</td>
<td>04 = 1/2”</td>
<td>B = Buna N</td>
<td></td>
</tr>
<tr>
<td>4 = SUS304</td>
<td>06 = 3/4”</td>
<td>E = EPDM</td>
<td></td>
</tr>
<tr>
<td>6 = SUS316</td>
<td>10 = 1”</td>
<td>S = Silicone</td>
<td></td>
</tr>
</tbody>
</table>

*Polypro is only available in 100 psi.

Options:

- N = Flat Bottom
- P = PR Button in Cap
- V = Drain with Plug
Cartridge Housings and Elements

CH3-CH7

<table>
<thead>
<tr>
<th>Cartridge</th>
<th>Qty</th>
<th>Length</th>
<th>A inch (mm)</th>
<th>B inch (mm)</th>
<th>C inch (mm)</th>
<th>D øinch (mm)</th>
<th>E inch (mm)</th>
<th>F inch (mm)</th>
<th>J øinch (mm)</th>
<th>K øinch (mm)</th>
<th>M inch (mm)</th>
<th>N3 øinch</th>
<th>N4 øinch</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH3220</td>
<td>3</td>
<td>20</td>
<td>11.02 (280)</td>
<td>4.72 (120)</td>
<td>35.04 (890)</td>
<td>7.09 (180)</td>
<td>11.81 (300)</td>
<td>6.30 (160)</td>
<td>0.35 (9)</td>
<td>9.29 (236)</td>
<td>3.35 (85)</td>
<td>¼</td>
<td>¼</td>
</tr>
<tr>
<td>CH3230</td>
<td>3</td>
<td>30</td>
<td>11.02 (280)</td>
<td>4.72 (120)</td>
<td>45.08 (1145)</td>
<td>7.09 (180)</td>
<td>11.81 (300)</td>
<td>6.30 (160)</td>
<td>0.35 (9)</td>
<td>9.29 (236)</td>
<td>3.35 (85)</td>
<td>¼</td>
<td>¼</td>
</tr>
<tr>
<td>CH7220</td>
<td>7</td>
<td>20</td>
<td>11.02 (280)</td>
<td>4.72 (120)</td>
<td>35.04 (890)</td>
<td>9.13 (232)</td>
<td>13.86 (352)</td>
<td>6.30 (160)</td>
<td>0.35 (9)</td>
<td>9.29 (236)</td>
<td>3.35 (85)</td>
<td>¼</td>
<td>¼</td>
</tr>
<tr>
<td>CH7230</td>
<td>7</td>
<td>30</td>
<td>11.02 (280)</td>
<td>4.72 (120)</td>
<td>45.08 (1145)</td>
<td>9.13 (232)</td>
<td>13.86 (352)</td>
<td>6.30 (160)</td>
<td>0.35 (9)</td>
<td>9.29 (236)</td>
<td>3.35 (85)</td>
<td>¼</td>
<td>¼</td>
</tr>
<tr>
<td>CH7240</td>
<td>7</td>
<td>40</td>
<td>11.02 (280)</td>
<td>4.72 (120)</td>
<td>55.12 (1400)</td>
<td>9.13 (232)</td>
<td>13.86 (352)</td>
<td>6.30 (160)</td>
<td>0.35 (9)</td>
<td>9.29 (236)</td>
<td>3.35 (85)</td>
<td>¼</td>
<td>¼</td>
</tr>
</tbody>
</table>

NOTE: Drawings may change without notice. Contact factory for certified drawings.

Specifications

- Number of Elements per Housing: 3 or 7 Elements, 2" Diameter
- Max. Working Pressure: 100 psi (7 bar)
- Max Temperature: 167°F (75°C)
- Housing Material: Stainless Steel (304 or 316)
- Type of Elements Accepted: DOE (Double Open Ended), -222 O-ring
## Cartridge Housings and Elements

<table>
<thead>
<tr>
<th>Model #</th>
<th>Flow Rate</th>
<th>Dry Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH3220</td>
<td>0-26 gpm (100 l / min)</td>
<td>40 lbs (18kg)</td>
</tr>
<tr>
<td>CH3230</td>
<td>0-40 gpm (150 l / min)</td>
<td>44 lbs (20kg)</td>
</tr>
<tr>
<td>CH7220</td>
<td>0-62 gpm (233 l/min)</td>
<td>55 lbs (25kg)</td>
</tr>
<tr>
<td>CH7230</td>
<td>0-92 gpm (350 l / min)</td>
<td>62 lbs (28kg)</td>
</tr>
<tr>
<td>CH7240</td>
<td>0-123 gpm (467 l / min)</td>
<td>68 lbs (31kg)</td>
</tr>
</tbody>
</table>

### How to Build a Valid Model Number for a Multi-Cartridge Housing, 100 psi:

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
<th>BOX 7</th>
<th>BOX 8</th>
<th>BOX 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: CH4210615B07

### Filter Model Number Selection

- **BOX 1**: Filter Series
  - CH
- **BOX 2**: # of Cartridges
  - 3 = 3 pieces
  - 4 = 4 pieces
  - 12 = 12 pieces
- **BOX 3**: Cartridge Diameter
  - 2 = 2" diameter
- **BOX 4**: Cartridge Length
  - 05 = 5"
  - 10 = 10"
  - 20 = 20"
  - 30 = 30"
  - 40 = 40"
- **BOX 5**: Housing Material
  - 4 = SUS304
  - 6 = SUS316
  - 7 = SUS316L
- **BOX 6**: Connection
  - 10 = 1"
  - 15 = 1.5"
  - 20 = 2"
  - 25 = 2.5"
  - 30 = 3"
  - 40 = 4"
- **BOX 7**: O-Ring
  - B = Buna N
  - E = EPDM
  - S = Silicone
  - V = Viton
- **BOX 8**: Pressure
  - 0 = 100 psi
  - 1 = 150 psi

### Options

- 1 = Standard Flat Gasket Double Open Ends & 2 - 222 O-ring Fin/Flat
- 7 = No Bayonet 2-226 O-ring Fin/Flat
- 9 = 2-226 O-ring Fin/Flat

**NOTE**: Elements must be purchased separately.
Cartridge Housings and Elements

Dimensions

<table>
<thead>
<tr>
<th>Cartridge</th>
<th>Qty</th>
<th>Length</th>
<th>A (inch/mm)</th>
<th>B (inch/mm)</th>
<th>C (inch/mm)</th>
<th>D (inch/mm)</th>
<th>E (inch/mm)</th>
<th>J (inch/mm)</th>
<th>K (inch/mm)</th>
<th>M (inch/mm)</th>
<th>N3 (inch/mm)</th>
<th>N4 (inch/mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH3220</td>
<td>3</td>
<td>20</td>
<td>11.02 (280)</td>
<td>4.72 (120)</td>
<td>33.19 (834)</td>
<td>7.13 (181)</td>
<td>11.81 (300)</td>
<td>0.35 (9)</td>
<td>10.47 (266)</td>
<td>2.17 (55)</td>
<td>¼  (9)</td>
<td>¼  (9)</td>
</tr>
<tr>
<td>CH3230</td>
<td>3</td>
<td>30</td>
<td>11.02 (280)</td>
<td>4.72 (120)</td>
<td>43.23 (1096)</td>
<td>7.13 (181)</td>
<td>11.81 (300)</td>
<td>0.35 (9)</td>
<td>10.47 (266)</td>
<td>2.17 (55)</td>
<td>¼  (9)</td>
<td>¼  (9)</td>
</tr>
<tr>
<td>CH3240</td>
<td>3</td>
<td>40</td>
<td>11.02 (280)</td>
<td>4.72 (120)</td>
<td>53.27 (1353)</td>
<td>7.13 (181)</td>
<td>11.81 (300)</td>
<td>0.35 (9)</td>
<td>10.47 (266)</td>
<td>2.17 (55)</td>
<td>¼  (9)</td>
<td>¼  (9)</td>
</tr>
<tr>
<td>CH7220</td>
<td>7</td>
<td>20</td>
<td>11.02 (280)</td>
<td>4.72 (120)</td>
<td>33.58 (853)</td>
<td>9.13 (232)</td>
<td>14.09 (356)</td>
<td>0.35 (9)</td>
<td>11.34 (288)</td>
<td>2.56 (65)</td>
<td>¼  (9)</td>
<td>¼  (9)</td>
</tr>
<tr>
<td>CH7230</td>
<td>7</td>
<td>30</td>
<td>11.02 (280)</td>
<td>4.72 (120)</td>
<td>43.62 (1108)</td>
<td>9.13 (232)</td>
<td>14.09 (356)</td>
<td>0.35 (9)</td>
<td>11.34 (288)</td>
<td>2.56 (65)</td>
<td>¼  (9)</td>
<td>¼  (9)</td>
</tr>
<tr>
<td>CH7240</td>
<td>7</td>
<td>40</td>
<td>11.02 (280)</td>
<td>4.72 (120)</td>
<td>53.66 (1363)</td>
<td>9.13 (232)</td>
<td>14.09 (356)</td>
<td>0.35 (9)</td>
<td>11.34 (288)</td>
<td>2.56 (65)</td>
<td>¼  (9)</td>
<td>¼  (9)</td>
</tr>
</tbody>
</table>

NOTE: Drawings may change without notice. Contact factory for certified drawings.

Specifications

- **Number of Elements per Housing:** 3 or 12 Elements, 2" Elements
- **Max. Working Pressure:** 150 psi (10 bar)
- **Max Temperature:** 167°F (75°C)
- **Housing Material:** Stainless Steel (304 or 316)
- **Type of Elements Accepted:** DOE (Double Open Ended), -222 O-ring

SCHROEDER INDUSTRIES | PROCESS FILTRATION 93
## Cartridge Housings and Elements

### Flow Rate, Volume, and Weight

<table>
<thead>
<tr>
<th>Model #</th>
<th>Flow Rate</th>
<th>Volume</th>
<th>Dry Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH3220</td>
<td>0-26 gpm (100 l/min)</td>
<td>7.13 gal (27L)</td>
<td>66 lbs (30kg)</td>
</tr>
<tr>
<td>CH3230</td>
<td>0-40 gpm (150 l/min)</td>
<td>9.51 gal (36L)</td>
<td>77 lbs (35kg)</td>
</tr>
<tr>
<td>CH3240</td>
<td>0-53 gpm (200 l/min)</td>
<td>11.88 gal (45L)</td>
<td>88 lbs (40kg)</td>
</tr>
<tr>
<td>CH7220</td>
<td>0-62 gpm (233 l/min)</td>
<td>8.98 gal (34L)</td>
<td>77 lbs (35kg)</td>
</tr>
<tr>
<td>CH7230</td>
<td>0-92 gpm (350 l/min)</td>
<td>11.88 gal (45L)</td>
<td>88 lbs (40kg)</td>
</tr>
<tr>
<td>CH7240</td>
<td>0-123 gpm (467 l/min)</td>
<td>14.52 gal (55L)</td>
<td>101 lbs (46kg)</td>
</tr>
</tbody>
</table>

### Filter Model Number Selection

**Example:** CH3-CH12

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
<th>BOX 7</th>
<th>BOX 8</th>
<th>BOX 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH</td>
<td>4</td>
<td>2</td>
<td>10</td>
<td>6</td>
<td>15</td>
<td>B</td>
<td>0</td>
<td>7</td>
</tr>
</tbody>
</table>

**How to Build a Valid Model Number for a Multi-Cartridge Housing, 100 psi:**

- **BOX 1:** Filter Series (CH)
- **BOX 2:** # of Cartridges (3 = 3 pieces, 4 = 4 pieces, Up To 12 = 12 pieces)
- **BOX 3:** Cartridge Diameter (2 = 2" diameter)
- **BOX 4:** Cartridge Length (10 = 10", 20 = 20", 30 = 30", 40 = 40")
- **BOX 5:** Housing Material (4 = SUS304, 6 = SUS316, 7 = SUS316L)
- **BOX 6:** Connection (10 = 1", 15 = 1.5", 20 = 2", 25 = 2.5", 30 = 3", 40 = 4")
- **BOX 7:** O-Ring (B = Buna N, E = EPDM, S = Silicone, V = Viton)
- **BOX 8:** Pressure (1 = 150 psi)
- **BOX 9:** Options

**NOTE:** elements must be purchased separately.
## Specifications

**Cartridge Housings and Elements**

<table>
<thead>
<tr>
<th>Cartridge</th>
<th>Qty</th>
<th>Length</th>
<th>A inch (mm)</th>
<th>B inch (mm)</th>
<th>C inch (mm)</th>
<th>D cm inch (mm)</th>
<th>E cm inch (mm)</th>
<th>J cm inch (mm)</th>
<th>K cm inch (mm)</th>
<th>M cm inch (mm)</th>
<th>N3 cm inch (mm)</th>
<th>N4 cm inch (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH12240</td>
<td>12</td>
<td>40</td>
<td>27.56 (700)</td>
<td>13.78 (350)</td>
<td>68.03 (1728)</td>
<td>12.01 (305)</td>
<td>19.69 (500)</td>
<td>0.55 (14)</td>
<td>16.14 (410)</td>
<td>6.02 (153)</td>
<td>½</td>
<td>1</td>
</tr>
<tr>
<td>CH14240</td>
<td>14</td>
<td>40</td>
<td>27.56 (700)</td>
<td>13.78 (350)</td>
<td>76.77 (1950)</td>
<td>15.98 (406)</td>
<td>23.86 (606)</td>
<td>0.55 (14)</td>
<td>20.31 (516)</td>
<td>14.96 (380)</td>
<td>½</td>
<td>1</td>
</tr>
<tr>
<td>CH18240</td>
<td>18</td>
<td>40</td>
<td>27.56 (700)</td>
<td>13.78 (350)</td>
<td>76.77 (1950)</td>
<td>15.98 (406)</td>
<td>23.86 (606)</td>
<td>0.55 (14)</td>
<td>20.31 (516)</td>
<td>14.96 (380)</td>
<td>½</td>
<td>1</td>
</tr>
<tr>
<td>CH20240</td>
<td>20</td>
<td>40</td>
<td>27.56 (700)</td>
<td>13.78 (350)</td>
<td>76.77 (1950)</td>
<td>15.98 (406)</td>
<td>23.86 (606)</td>
<td>0.55 (14)</td>
<td>20.31 (516)</td>
<td>14.96 (380)</td>
<td>½</td>
<td>1</td>
</tr>
<tr>
<td>CH24240</td>
<td>24</td>
<td>40</td>
<td>27.56 (700)</td>
<td>13.78 (350)</td>
<td>76.97 (1955)</td>
<td>19.13 (486)</td>
<td>27.01 (686)</td>
<td>0.55 (14)</td>
<td>23.46 (596)</td>
<td>15.16 (385)</td>
<td>½</td>
<td>1</td>
</tr>
</tbody>
</table>

**Dimensions**

- **Max. Working Pressure:** 150 psi (10 bar)
- **Max Temperature:** 167°F (75°C)
- **Housing Material:** Stainless Steel (304 or 316)

*Max flow rate is dependent on type of media, particle selection required, fluid viscosity and volume of contamination.*
### Cartridge Housings and Elements

#### Flow Rate, Volume, and Weight

<table>
<thead>
<tr>
<th>Model #</th>
<th>Flow Rate</th>
<th>Volume</th>
<th>Dry Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH12240</td>
<td>0-200 gpm (755 l/min)</td>
<td>28.00 gal (107L)</td>
<td>187 lbs (85kg)</td>
</tr>
<tr>
<td>CH14240</td>
<td>0-240 gpm (900 l/min)</td>
<td>50.00 gal (198L)</td>
<td>275 lbs (125 kg)</td>
</tr>
<tr>
<td>CH18240</td>
<td>0-310 gpm (1170 l/min)</td>
<td>50.00 gal (198L)</td>
<td>275 lbs (125 kg)</td>
</tr>
<tr>
<td>CH20240</td>
<td>0-350 gpm (1320 l/min)</td>
<td>50.00 gal (198L)</td>
<td>275 lbs (125 kg)</td>
</tr>
<tr>
<td>CH24240</td>
<td>0-415 gpm (1565 l/min)</td>
<td>75.00 gal (286L)</td>
<td>320 lbs (145 kg)</td>
</tr>
</tbody>
</table>

#### How to Build a Valid Model Number for a Multi-Cartridge Housing:

- **BOX 1**: Filter Series
- **BOX 2**: # of Cartridges
- **BOX 3**: Cartridge Diameter
- **BOX 4**: Cartridge Length
- **BOX 5**: Housing Material
- **BOX 6**: Connection
- **BOX 7**: O-Ring
- **BOX 8**: Pressure
- **BOX 9**: Options

Example: CH13210615B17

- **BOX 1**: CH
- **BOX 2**: 13, 14, 15 (up to 173)
- **BOX 3**: CH13
- **BOX 4**: 10, 20, 30, 40
- **BOX 5**: 4 = SUS304, 6 = SUS316, 7 = SUS316L
- **BOX 6**: 10 = 1", 15 = 1.5", 20 = 2", 25 = 2.5", 30 = 3", 40 = 4" Z = 10", Z1 = 11", Z5 = 15" (Up To)
- **BOX 7**: B = Buna N, E = EPDM, S = Silicone, V = Viton
- **BOX 8**: 1 = 150 psi
- **BOX 9**: Options - Standard Flat Gasket Double Open Ends & 2 - 222 O-ring Fin/Flat, No Bayonet 2-226 O-ring Fin/Flat, 2-226 O-ring Fin/Flat

Val: 96
SW Series Precision Wound Filter Cartridges

Benefits:
- Wide range of materials to ensure process compatibility
- Variety of sizes and configurations to ensure proper sizing, fit and sealing
- High sediment-holding-capacity for longer time between filter cartridges changes
- Continuous lengths up to 72" (183 cm)
- Technical Support
- Prompt deliveries

Applications:
- Potable water
- Process water
- Pre-filtration for membrane/reverse osmosis (RO) systems
- Food and beverage
- Chemicals, acids, bases
- Oils, fuels and solvents
- Plating solutions, electronics, circuit board
- Produced water and waste water; fracking

<table>
<thead>
<tr>
<th>Media</th>
<th>Polypropylene</th>
<th>Cotton</th>
<th>Acrylic</th>
<th>Rayon</th>
<th>Nylon</th>
<th>Polyester</th>
<th>Fiberglass</th>
</tr>
</thead>
</table>

Cartridge ID: 1.09" (2.8 cm) nominal std. 1.22" (3.1 cm) and 1.5" (3.8 cm) optional
Cartridge OD: 2" (5 cm) to 4½ (11.4 cm)
Length: 3" (7.6 cm) to 72" (183 cm) special lengths available
Efficiency: 90% nominal; 80% below 3 micron

Maximum Differential Pressure: 60 PSID (2 bar)
Recommended Max Change-Out Differential Pressure: 30 PSID (2)

Note: Please contact factory for data on other media and fluids

Max Temperature

<table>
<thead>
<tr>
<th>Media</th>
<th>Polypro Core</th>
<th>Polyester Core</th>
<th>Tin Core</th>
<th>SST Core</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polypropylene</td>
<td>180° F</td>
<td>180° F</td>
<td>180° F</td>
<td>180° F</td>
</tr>
<tr>
<td>Cotton</td>
<td>180° F</td>
<td>250° F</td>
<td>250° F</td>
<td>250° F</td>
</tr>
<tr>
<td>Acrylic</td>
<td>180° F</td>
<td>250° F</td>
<td>250° F</td>
<td>250° F</td>
</tr>
<tr>
<td>Rayon</td>
<td>180° F</td>
<td>275° F</td>
<td>275° F</td>
<td>275° F</td>
</tr>
<tr>
<td>Nylon</td>
<td>180° F</td>
<td>275° F</td>
<td>275° F</td>
<td>275° F</td>
</tr>
<tr>
<td>Polyester</td>
<td>180° F</td>
<td>300° F</td>
<td>300° F</td>
<td>300° F</td>
</tr>
<tr>
<td>Fiberglass</td>
<td>180° F</td>
<td>300° F</td>
<td>400° F</td>
<td>750° F</td>
</tr>
</tbody>
</table>

Pressure Drop vs. Flow Rate
(Polypropylene, Polyester and Nylon Media)
**SW Series Precision Wound Filter Cartridges**

How to Build a Valid Model Number for Cartridge Housings and Elements:

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
<th>BOX 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example:** NOTE: One option per box

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
<th>BOX 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW</td>
<td>3</td>
<td>10</td>
<td>30</td>
<td>6</td>
<td>D</td>
<td>EC</td>
</tr>
</tbody>
</table>

**BOX 1**

**Cartridge Type**

- **SW** = Precision Wound Filter Cartridge

**BOX 2**

**Micron Rating**

- 0.5
- 1
- 3
- 5
- 10
- 15
- 20
- 25
- 30
- 50
- 75
- 100
- 125
- 150
- 200

**BOX 3**

**Filter Media**

- 01 = FDA Polypropylene
- 02 = Fibrillated Polypropylene
- 03 = Industrial Polypropylene
- 04 = Natural Cotton + Polyester
- 05 = White Cotton
- 06 = FDA Bleached Cotton
- 09 = Rayon
- 10 = Teflon
- 11 = Nylon
- 13 = Polyester
- 14 = Acrylic
- 15 = Glass Fiber
- 18 = Polyphenylene Sulfide PPS
- 20 = Antimicrobial Polypropylene
- 21 = metaramid Conex® (trademark of Teijin)
- 33 = EcoWound™ filter*

**BOX 4**

**Length (in.)**

- 3.75
- 4
- 4.75
- 5
- 6
- 9.75
- 10
- 12
- 12.5
- 19.5
- 20
- 24.5
- 30
- 36
- 40
- 50
- 72

**BOX 5**

**Core Type**

- 1 = 1" id Polypropylene
- 2 = 1" id Glass Filled
- 3 = 1" id Tinned Steel
- 4 = 1" id 304 SST
- 6 = 1" id 316 SST
- 7 = 1" id Nylon
- 8 = 1.22" id Polypropylene
- 9 = 1.5" id Polypropylene
- 10 = 1" id Teflon
- 11 = 1.5" id 304 SST
- 12 = 1.75" id Polypropylene
- 13 = 1.5" id Tin Steel

**BOX 6**

**Outside Diameter**

- A = 2
- B = 2 1/4"*
- C = 2 3/8"*
- D = 2 1/2"*
- E = 2 5/8"*
- G = 3"*
- H = 4"*
- I = 4 1/4"*
- J = 4 1/2"*

**BOX 7**

**Options**

- N = Polyester Core Cover
- NF = Acrylic Resin Bonded Glass Nonwoven Core Cover
- NN = Nylon Core Cover
- Y = Polypropylene Core Cover
- 2SP = 222 w/ plug
- 2SD = 222 w/ disc
- 6SP = 226 w/ plug
- 6SD = 226 w/ disc
- 6SF = 226 w/ fin
- E = Extended Core
- EC = End Caps PVC
- ECP = End Caps Polypro
- P = Plug In One Hand
- SPR = Polypro Spring

---

*Note: *= Metric dimension.
### Cartridge Elements

**Media:** Polypropylene  
**Material:** 100% Meltblown Micro PP Fiber  
**Absolute Micron Ratings:** 1μm, 3μm, 5μm, 10μm, 20μm, 25μm, 30μm, 50μm, 75μm, 100μm, 150μm  
**Inside Diameter:** 1.1 inch (28 mm)  
**Outside Diameter:** 2.5 inch (63 mm)  
**Maximum Differential Pressure and Temperature:** 58 psi at 68°F (4 bar at 20°C)  
**Element Change Out:** 29 psid (2.1 bar diff)  
**Maximum Operating Temperature:** 160°F (70°C)  
**Efficiency:** 99.98%

**Filter Data**

**How to Build a Valid Model Number for Cartridge Housings and Elements:**

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACE</td>
<td>3</td>
<td>10</td>
<td>B</td>
<td>E</td>
<td>NA</td>
</tr>
</tbody>
</table>

**Example:** ACE310BENA

### Filter Model Number Selection

**Element**  
DCE = Polypropylene  
Coreless  
ACE = Polypropylene with core  
Polypropylene

**Micron Rating**  
S2 = 0.2 μm  
S45 = 0.45 μm  
1 = 1 μm  
2 = 2 μm  
5 = 5 μm  
10 = 10 μm  
20 = 20 μm  
40 = 40 μm

**Length (in.)**  
10 = 10.0"  
20 = 20.0"  
30 = 30.0"  
40 = 40.0"

**End Cap Code**  
B = DOE w/ Gasket and Caps  
C = 222 w/ Spear  
D = 222 w/ Closed Flat Cap  
E = 222 w/ Spring  
F = 226 w/ Closed Flat Cap  
G = 226 w/ Spear  
H = 226 w/ Spring  
J = Polypropylene Extender  
L = Spring  
N = SOE Recessed Cap, internal 213 O-Ring

**Omit =**

<table>
<thead>
<tr>
<th>O-Rings</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>B = Buna N</td>
<td>Omit = None</td>
</tr>
<tr>
<td>E = EPDM (EPR)</td>
<td>NA = None</td>
</tr>
<tr>
<td>S = Silicone</td>
<td></td>
</tr>
<tr>
<td>V = FKM Fluorostamater</td>
<td></td>
</tr>
</tbody>
</table>

**Filter and Media are sold separately.**

**Graph:**

- ΔP (psi) vs. Flow Rate (gpm)
  - 1μm
  - 3μm
  - 5μm
  - 10μm
  - 25μm
  - 50μm
  - 100μm
High Purity/Absolute Pleated Cartridges

Our Pleated Polypropylene Cartridges are designed to hold 6.5 square feet of filtration media, making these a great value. These cartridges are constructed with 100% polypropylene materials and are assembled using the latest thermal bonding equipment. Efficiency Rating is 99.98% (ß5000) for Absolute, 95% Efficiency Rating for High Efficiency.

Typical Applications:
- Optimal for DEF Solutions
- Food and Beverage
- Photographic
- Deionized Water
- Reverse Osmosis Membrane
- Prefiltration
- Process Water
- Fine Chemicals
- Wastewater

Specifications

- **Media:** Polypropylene, FDA Borosilicate Microfiberglass
- **Material:** 100% Meltblown Micro PP Fiber
- **End Caps:** Polypropylene
- **Center Core:** Polypropylene
- **Outer Support Cage:** Polypropylene
- **O-Rings/Gaskets:** Buna, Viton®, EPDM
- **Length:** 10 to 40 in. (25.4 to 101.6 cm) nominal
- **Outside Diameter:** 2.5 in. (7.0 cm) nominal
- **Element Change Out:** 35 psi (2.4 bar)
- **Maximum Operating Temperature:** 180°F (82°C)
- **Efficiency:** 99.98%

Pressure Drop Information

Based on Flow Rate and Viscosity
High Purity/Absolute Pleated Cartridges

How to Build a Valid Model Number for a High Purity Pleated Polypropylene Cartridge:

Example: NOTE: One option per box

= PPC0540DTS

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPC</td>
<td>05</td>
<td>40</td>
<td>D</td>
<td>T</td>
<td>S</td>
</tr>
</tbody>
</table>

Element

- PPC = Pleated polypropylene
- High Efficiency
- PPAC = Pleated polypropylene
- Absolute

Micron Rating

- S2 = 0.2 μm
- S45 = 0.45 μm
- 1 = 01 μm
- 2 = 02 μm
- 5 = 05 μm
- 10 = 10 μm
- 20 = 20 μm
- 40 = 40 μm

Length (in.)

- 10 = 10.0”
- 20 = 20.0”
- 30 = 30.0”
- 40 = 40.0”

End Cap Code

- B = DOE w/ Gasket and Caps
- C = 222 w/ Spear
- D = 222 w/ Closed Flat Cap
- E = 222 w/ Spring
- F = 226 w/ Closed Flat Cap
- G = 226 w/ Spear
- H = 226 w/ Spring
- J = Polypropylene Extender
- L = Spring
- N = SOE Recessed Cap, internal 213 O-Ring

O-Rings

- B = Buna
- E = EPDM
- S = Silicone
- V = Viton
- T = Teflon
- Encapsulated Viton

Options

- I = Stainless Steel
- E = EPDM insert
- S = Silicone HP - Heavy Poly Core
MTX Resin Bonded Filters

Economical Depth Filtration at higher flow rates and higher viscosities. Schroeder cartridges have a two-stage filtration design to maximize particle removal and service life in viscous fluid filtration applications. Schroeder cartridges are available in several different micron ratings including 1, 2, 3, 5, 10, 25, 50, 75, 100, 125, 150, 200 and 250 to meet a wide variety of performance requirements.

Benefits
The unique winding of continuous polyester media makes it possible to provide:

- Same rigid structure as industry standard resin bonded without the environmentally harmful phenolic resin
- True gradient density
- Consistent particle removal efficiencies
- Extended cartridge life
- PH range from 4 to 10 in most applications
- Extensive chemical compatibility
- Wide range of effective applications
- Silicon free construction ensures no contamination to adversely affect adhesion properties of coatings
- Outer layers collect large particles, while inner layers control particle removal at rated size
- Available with optional end treatments
- Withstands pressure surges up to 100psi across cartridge
- Unique polyester media formulation strengthens cartridge for use with fluid viscosities up to 15000 SSU

Typical Applications

<table>
<thead>
<tr>
<th>Media</th>
<th>Injection Well</th>
<th>Plasticizers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Organic Fluids</td>
<td>Printing Inks</td>
</tr>
<tr>
<td>End Caps</td>
<td>Organic Solvents</td>
<td>Process Water</td>
</tr>
<tr>
<td>Center Core</td>
<td>Paints</td>
<td>Resins</td>
</tr>
<tr>
<td>Length</td>
<td>Petroleum</td>
<td>Waxes</td>
</tr>
<tr>
<td>Outside Diameter</td>
<td>2.70 in. (6.89 cm) nominal</td>
<td></td>
</tr>
<tr>
<td>Inside Diameter</td>
<td>1.06 in. (2.69 cm) nominal</td>
<td></td>
</tr>
<tr>
<td>Element Change Out</td>
<td>50 psi (3.5 bar)</td>
<td></td>
</tr>
<tr>
<td>Maximum Operating Temperature</td>
<td>250°F (121°C)</td>
<td></td>
</tr>
<tr>
<td>Efficiency</td>
<td>90%</td>
<td></td>
</tr>
</tbody>
</table>

 Specifications

- Media: Polyester
- Material: Resin Bonded Polyester
- End Caps: Polypropylene or 316 SS
- Center Core: 304 SS, 316 SS, Tin
- Length: 9.75 to 40 in. (24.77 to 101.6 cm) nominal
- Outside Diameter: 2.70 in. (6.89 cm) nominal
- Inside Diameter: 1.06 in. (2.69 cm) nominal
- Element Change Out: 50 psi (3.5 bar)
- Maximum Operating Temperature: 250°F (121°C)
- Efficiency: 90%

Pressure Drop

Flow (gpm) at 300 SSU (65 CKS) vs Pressure Drop (PSI)

- 5 Micrometer
- 10 Micrometer
- 25 Micrometer
- 50 Micrometer
- 75 Micrometer
- 125 Micrometer
How to Build a Valid Model Number for a High Purity Pleated Polypropylene Cartridge:

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTX</td>
<td>50</td>
<td>A</td>
<td>9.8</td>
<td>T</td>
<td>K</td>
</tr>
</tbody>
</table>

MTX = Polyester

<table>
<thead>
<tr>
<th>Micron Rating</th>
<th>Cartridge Diameter</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 = 01 μm</td>
<td>A = Standard 2.5&quot;</td>
<td>9.8 = 9.75&quot;</td>
</tr>
<tr>
<td>2 = 02 μm</td>
<td></td>
<td>10 = 10&quot;</td>
</tr>
<tr>
<td>3 = 03 μm</td>
<td></td>
<td>19.5 = 19.5&quot;</td>
</tr>
<tr>
<td>5 = 05 μm</td>
<td></td>
<td>20 = 20&quot;</td>
</tr>
<tr>
<td>10 = 10 μm</td>
<td></td>
<td>29 = 29&quot;</td>
</tr>
<tr>
<td>25 = 25 μm</td>
<td></td>
<td>29.3 = 29.25&quot;</td>
</tr>
<tr>
<td>50 = 50 μm</td>
<td></td>
<td>29.5 = 29.5&quot;</td>
</tr>
<tr>
<td>75 = 75 μm</td>
<td></td>
<td>30 = 30&quot;</td>
</tr>
<tr>
<td>100 = 100 μm</td>
<td></td>
<td>39 = 39&quot;</td>
</tr>
<tr>
<td>125 = 125 μm</td>
<td></td>
<td>40 = 40&quot;</td>
</tr>
<tr>
<td>150 = 150 μm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>200 = 200 μm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>250 = 250 μm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Core Options</th>
<th>End Caps</th>
</tr>
</thead>
<tbody>
<tr>
<td>A = 304 SS</td>
<td>Blank = DOE</td>
</tr>
<tr>
<td>S = 316 SS</td>
<td>J = Polypropylene Extender</td>
</tr>
<tr>
<td>T = Tin Core</td>
<td>K = Ext Crimped Core</td>
</tr>
<tr>
<td></td>
<td>L = Spring</td>
</tr>
<tr>
<td></td>
<td>M = 316 SS Metal Extender</td>
</tr>
</tbody>
</table>
Notes Section: