Section 3:
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

![Diagram of filtration layers](image-url)

**Features**

- 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

**Industries Served**

- Chemical Processing
- Industrial
- Thermal Transfer
- Power Generation
- Pulp & Paper
- Steel Making
- Waste Water Treatment
**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>
<tbody>
<tr>
<td>Cartridge ID</td>
<td>1.09&quot; (2.8 cm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.22&quot; (3.1 cm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.5&quot; (3.8 cm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cartridge OD</td>
<td>2&quot; (5 cm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4½&quot; (11.4 cm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>3&quot; (7.6 cm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>72&quot; (183 cm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Efficiency</td>
<td>90% nominal; 80% below 3 micron</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Maximum Differential Pressure:** 60 PSID (2 bar)

**Recommended Max Change-Out Differential Pressure:** 30 PSID (2)

**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>Polyprolene</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)

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

![Graph showing Pressure Drop vs. Flow Rate](image)
### How to Build a Valid Model Number for Cartridge Housings and Elements:

**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></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>10</td>
<td>6</td>
<td>D</td>
<td>EC</td>
<td></td>
</tr>
</tbody>
</table>

**Cartridge Type**

- **SW** = Precision Wound Filter Cartridge

**Micron Rating**

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

**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 = meta-aramid Conex® (trademark of Teijin)  
- 33 = EcoWound™ filter*

**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

**Core Type**

- 1 = 1" id Polypropylene  
- 2 = Polypropylene  
- 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

**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"

**Options**

- N = Polyester Core Cover  
- NF = Acrylic Resin Bonded Glass Nonwoven  
- 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
Cartridge Housings and Elements

Media: Polypropylene

Material: 100% Meltblown Micro PP Fiber

Absolute Micron Ratings: 1μ, 3μ, 5μ, 10μ, 20μ, 25μ, 50μ, 75μ, 100μ, 150μ

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)
- 29 psi at 140°F (2 bar at 60°C)
- 14 psi at 176°F (1 bar at 80°C)

Element Change Out: 29 psid (2.1 bar diff)

Maximum Operating Temperature: 160°F (70°C)

Efficiency: 99.98%

Filter and Media are sold separately.

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

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>ACE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: ACE310252SDNA

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

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 = DOE for knife edge seal
- 2SD = SOE, 222 O-ring seal, w/ flat top*
- 2SF = SOE, 222 O-ring, w/ fin*
- 2SPR = SOE, 226 O-ring seal, w/ spring top*
- 6SD = SOE, 226 O-ring seal, w/ flat top*

Material:

Polypropylene 100% Meltblown Micro PP Fiber

Absolute Micron Ratings:
- 1μ, 3μ, 5μ, 10μ, 20μ, 25μ, 50μ, 75μ, 100μ, 150μ

Absolute Micron Ratings:

Inlet 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)
- 29 psi at 140°F (2 bar at 60°C)
- 14 psi at 176°F (1 bar at 80°C)

Element Change Out: 29 psid (2.1 bar diff)

Maximum Operating Temperature: 160°F (70°C)

Efficiency: 99.98%
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% ($5000).

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

Specifications

<table>
<thead>
<tr>
<th>Media:</th>
<th>Polypropylene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material:</td>
<td>100% Meltblown Micro PP Fiber</td>
</tr>
<tr>
<td>End Caps:</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>Center Core:</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>Outer Support Cage:</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>O-Rings/Gaskets:</td>
<td>Buna, Viton®, EPDM</td>
</tr>
<tr>
<td>Length:</td>
<td>10 to 40 in. (25.4 to 101.6 cm) nominal</td>
</tr>
<tr>
<td>Outside Diameter:</td>
<td>2.70 in. (7.0 cm) nominal</td>
</tr>
<tr>
<td>Element Change Out:</td>
<td>35 psi (2.4 bar)</td>
</tr>
<tr>
<td>Maximum Operating Temperature:</td>
<td>180°F (82°C)</td>
</tr>
<tr>
<td>Efficiency:</td>
<td>99.98%</td>
</tr>
</tbody>
</table>

Pressure Drop Information
Based on Flow Rate and Viscosity

![Pressure Drop Graph](image)
High Purity Pleated Polypropylene Cartridges

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>PP</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>
</tr>
</thead>
<tbody>
<tr>
<td>PP</td>
<td>05</td>
<td>40</td>
<td>D</td>
<td>T</td>
<td>S</td>
</tr>
</tbody>
</table>

= PP0540DVTS

**BOX 1**

**Element**
- PP = Pleated polypropylene
- High Efficiency
- PPA = Pleated polypropylene
- Absolute

**BOX 2**

**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

**BOX 3**

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

**BOX 4**

**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

**BOX 5**

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

**BOX 6**

**Options**
- I = Stainless Steel
- E = EPDM insert
- S = Silicone HP - Heavy Poly Core
Cartridge Housings and Elements

1-5 gpm
3.6-18.33 L/min
125 psi
9 bar

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>Model</th>
<th>C  inch (mm)</th>
<th>D  inch (mm)</th>
<th>E  inch (mm)</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

<table>
<thead>
<tr>
<th>CH12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Flow Rate: 5-10 gpm (18.33 to 36.66 L/min)</td>
</tr>
<tr>
<td>Max. Working Pressure: 100 psi (7 bar)</td>
</tr>
<tr>
<td>Max Temperature: 167°F (75°C)</td>
</tr>
<tr>
<td>Housing Material: Polypropylene</td>
</tr>
<tr>
<td>O-Ring Material: Buna N</td>
</tr>
<tr>
<td>Initial Pressure Drop: 1 psi at 10 gpm</td>
</tr>
<tr>
<td>Type of Element Accepted: DOE</td>
</tr>
</tbody>
</table>

NOTE:
Drawings may change without notice. Contact factory for certified drawings.
### 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>Filter Series</td>
<td># of Cartridges</td>
<td>Cartridge Diameter</td>
<td>Cartridge Length</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CH</td>
<td>1</td>
<td>2 = 2&quot; diameter</td>
<td>10 = 10&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Housing Material

- **PP** = Polypropylene head and bowl
- 4 = SUS304
- 6 = SUS316

*Polypro is only available in 100 psi.

### Connection

- 04 = 1/2"
- 06 = 3/4"
- 10 = 1"

### O-Ring

- B = Buna N
- E = EPDM
- S = Silicone
- V = Viton

### Options

- N = Flat Bottom
- P = PR Button in Cap
- V = Drain with Plug

Example: NOTE: One option per box

CH1 1 2 10 PP 04 B 1 V = CH1210PP04B1V

*Polypro is only available in 100 psi.
Cartridge Housings and Elements

**CH3-CH7**

0-123 gpm

0-467 L/min

100 psi

7 bar

150 psi

10 bar

**Specifications**

- Number of Elements per Housing: 3 or 7 Elements, 2” Diameter
- Max. Working Pressure: 100 psi (7 bar)
- Max Temperature: 157°F (75°C)
- Housing Material: Stainless Steel (304 or 316)
- Type of Elements Accepted: DOE (Double Open Ended), -222 O-ring

**Dimensions**

<table>
<thead>
<tr>
<th>Cartridge 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 ø inch</th>
<th>N4 ø inch</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>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>
</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>13.86 (352)</td>
<td>6.30 (160)</td>
<td>0.35 (9)</td>
<td>9.29 (236)</td>
<td>3.35 (85)</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></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></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></td>
</tr>
</tbody>
</table>

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

**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

**BOX 9**
- 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

150 psi
10 bar

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

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 øinch (mm)</th>
<th>E inch (mm)</th>
<th>J øinch (mm)</th>
<th>K øinch (mm)</th>
<th>M inch (mm)</th>
<th>N3 inch</th>
<th>N4 inch</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 (843)</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></td>
<td></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 (1098)</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></td>
<td></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></td>
<td></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 (358)</td>
<td>0.35 (9)</td>
<td>11.34 (288)</td>
<td>2.56 (65)</td>
<td></td>
<td></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 (358)</td>
<td>0.35 (9)</td>
<td>11.34 (288)</td>
<td>2.56 (65)</td>
<td></td>
<td></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 (358)</td>
<td>0.35 (9)</td>
<td>11.34 (288)</td>
<td>2.56 (65)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
Cartridge Housings and Elements

<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>8.96 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>

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

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: NOTE: One option per box

CH 4 2 10 6 15 B 0 7 = CH14210615B07

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
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

Models CH12240 - CH24240

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 øinch (mm)</th>
<th>E inch (mm)</th>
<th>J øinch (mm)</th>
<th>K øinch (mm)</th>
<th>M inch (mm)</th>
<th>N3 inch</th>
<th>N4 inch</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>76.97 (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>
<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>

Specifications

- Number of Elements per Housing: 12, 14, 18, 20, or 24, 2" Diameter
- 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

<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:

Example: CH 4 2 10 6 15 B 0 7 = CH14210615B07

- **BOX 1**: Filter Series
  - CH
- **BOX 2**: # of Cartridges
  - 13 = 13 pieces
  - 14 = 14 pieces
  - 15 = 15 pieces
  - Up To
  - 173 = 173 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"
  - Z = 10"
  - Z1 = 11"
  - Up To
  - Z5 = 15"
- **BOX 7**: O-Ring
  - B = Buna N
  - E = EPDM
  - S = Silicone
  - V = Viton
- **BOX 8**: Pressure
  - 1 = 150 psi
- **BOX 9**: Options
  - 1 = Standard Flat Gasket Double Open Ends
  - 2 = 2-222 O-ring Fin/Flat
  - 7 = No Bayonet 2-226 O-ring Fin/Flat
  - 9 = 2-226 O-ring Fin/Flat

**Flow Rate Volume and Weight**

- **SW**: DCE/ACE
- **DCE/ACE**: PP
- **PP**: CH1
- **CH3 - CH7**: CH3 - CH12
- **CH13-CH173**: CH13-CH12

**CH13-CH173**

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