DMC Series
4-Zone Melt Blown Filter Cartridges with Cores

DMC series filter cartridges are robust, high efficiency polypropylene melt blown depth filters with an molded polypropylene core for added strength. Delta Pure Filtration is constructed of 100% FDA approved polypropylene. The DMC utilizes 4 zones of varying density for progressive contaminant removal efficiency. Our innovative production process creates a depth filter with superior performance and life. Cartridges are available in lengths to 50" (127 cm) and various diameters up to 6" (15 cm).

The polypropylene filter medium of the DMC Series filter provides broad chemical compatibility. These cartridges are ideal pre-filters and polishing filters where there is a fairly wide contaminant particle size distribution and also allow excellent control of gelatinous contaminants. The fibers are melt-bonded to create a strong, non-shedding medium with a “fixed pore structure” that prevents release of trapped particles.

Benefits

- Center core for strength
- 4 distinct zones
- Low pressure drop
- High dirt-holding-capacity
- Fixed-pore-structure retains trapped debris
- FDA listed polypropylene – 21 CFR 177.1520
- Broad chemical compatibility
- Controlled process parameters – consistent product
- Made by Delta Pure Filtration in USA

Applications*

- RO pre-filtration, DI water
- Bottled water, potable water, municipal water
- Juices, flavors, food and beverage, cosmetics
- Weak acids, plating chemicals
- Weak bases, caustics
- Amines, glycols, produced water, brine fluids
- Paints, inks, pigments, coatings
- Solvents (non-halogenated)

* Filter users should evaluate chemical compatibility on a case-by-case basis.
DMC Series
4-Zone Melt Blown Filter Cartridges

Specifications

Filter Medium
Polypropylene, per FDA CFR 177.1520

Rigid Internal Filter Support Core
Polypropylene, per FDA CFR 177.1520

Cartridge ID
1 1/16” (2.7 cm)

Cartridge OD
DMB-X 2.5” (6.4 cm)
DMB-X-J 4 ½” (11.4 cm)
Maximum for special cartridges: 6” (15.2 cm)

Length
Up to 50” (127 cm)

Efficiency
90% nominal

Recommended Max. Differential Pressure
60 PSID @ 68°F (4.1 bar @ 20°C)
30 PSID @ 176°F (2.1 bar at 80°C)

Box Quantities
2 ½” OD
9.75”- 10” length – 40/box
20”, 30”, 40”, 50” length – 20/box

4 ½” OD
9.75”- 10” length – 10/box
20” length – 5/box

Pressure Drop vs. Flow Rate

Model/Code Ordering Information

<table>
<thead>
<tr>
<th>Cartridge Type</th>
<th>Micron Rating</th>
<th>Length</th>
<th>Diameter</th>
<th>Options</th>
<th>O-rings</th>
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</thead>
<tbody>
<tr>
<td>DMC melt blown filter with internal rigid core</td>
<td>1</td>
<td>9.75</td>
<td>[blank] 2.5” OD</td>
<td>[none] - DOE for knife edge seal</td>
<td>[blank] – none</td>
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<td></td>
<td>3</td>
<td>10</td>
<td>J – 4.5” OD</td>
<td>2SD - SOE, 222 O-ring seal, w/ flat top*</td>
<td>B – Buna N</td>
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<td></td>
<td>5</td>
<td>20</td>
<td></td>
<td>2SF - SOE, 222 O-ring seal, w/ fin*</td>
<td>E – EPDM (EPR)</td>
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<tr>
<td></td>
<td>10</td>
<td>30</td>
<td></td>
<td>2SPR - SOE, 222 O-ring seal, w/ spring top*</td>
<td>S – Silicone</td>
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<td></td>
<td>15</td>
<td>40</td>
<td></td>
<td>6SD - SOE, 226 O-ring seal, w/ flat top*</td>
<td>V – FKM</td>
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<tr>
<td></td>
<td>25</td>
<td>50</td>
<td></td>
<td>6SF - SOE, 226 O-ring seal, w/ fin*</td>
<td>fluoroelastomer</td>
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<tr>
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<td>50</td>
<td></td>
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<td>E - DOE for knife edge seal, extended core</td>
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<td>100</td>
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<td>EC - DOE, end caps with polypropylene PPR gaskets*</td>
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<td>GP - polyethylene gaskets (heat sealed to filter)</td>
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<td>5/25</td>
<td></td>
<td></td>
<td>SPR – SOE spring in top, knife edge seal</td>
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<td>25/50</td>
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Example: DMC-5-30-2SD-S polypropylene melt blown filter with core, 5 micron, 30 inches tall, 222 O-rings of silicone, flat top

For customized filters for challenging or specialized applications, please contact Delta Pure.

* Note: End fittings can be affixed using an adhesive per 21 CFR 175-105.