

# MicroSentry™ MB Series

Melt Blown Filter Cartridges



- Thermally bonded microfibers for economical and efficient filtration
- 100% Polypropylene construction provides for wide range of chemical compatibilities
- Graded density pore structure provides true depth style filtration for higher dirt holding capacity
- Fixed pore construction prevents unloading under higher differential pressure
- No additives or surfactants that may cause foaming or other undesirable effects
- Available in standard 2 1/2" and 4 1/2" (BB Style) diameter configurations

## Applications

RO Prefilters	Potable Water
Water & Wastewater	Plating Solutions
Food & Beverages	Chemicals
Microelectronics	Photographic Solutions

## Specifications & Operating Parameters

### Pore Sizes

1, 3, 5, 10, 20, 30, 50, 75, 100 microns

### Nominal Lengths

4 7/8", 10" (9 7/8"), 20", 30", 40"

### Materials of Construction

Filter Media: Polypropylene

End caps: Thermally Bonded Polypropylene

### Gaskets/O-rings

Buna N, EPR, Silicone, Viton (O-rings) and

Santoprene (Polyethylene direct bond gaskets)

### Maximum Temperature

140°F (60°C)

### Recommended Change-out Differential Pressure

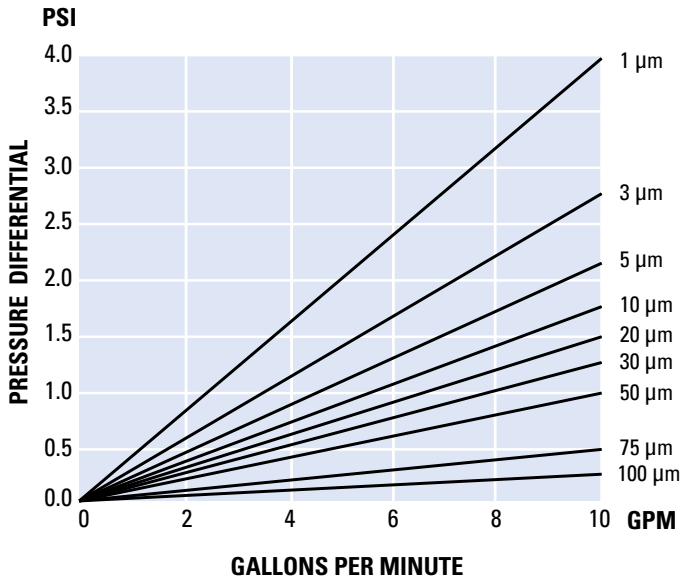
20 psid (1.4 bar)

### FDA Compliance

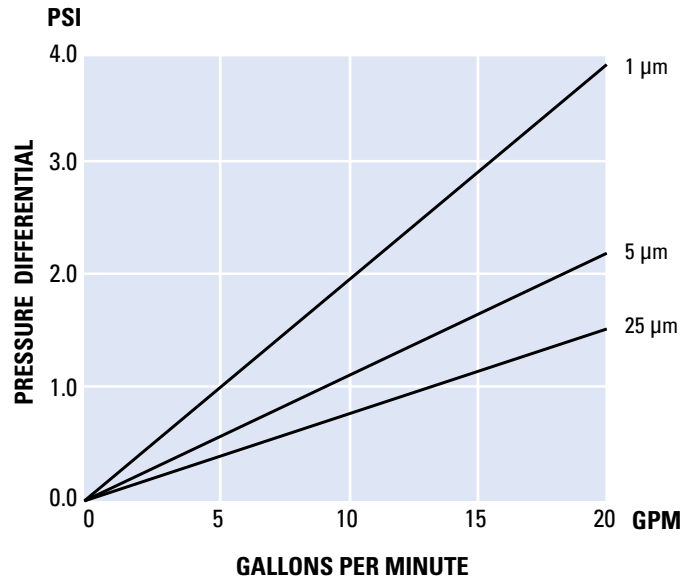
Manufactured of pure polypropylene materials with no additives or other manufacturing agents. All materials used in the production of these cartridges meet the requirements of FDA Title 21 of The Code of Federal Regulations 174.5 and 177.1520.

## Flow vs. Pressure Drop

### 2.5" OD Cartridges



### 4.5" OD Cartridges



This chart represents the typical flow rate per 10" cartridge length. The test fluid is water at ambient temperature. Extrapolations for multiple lengths tend to be linear, but as flows increase the differential pressure across the housing becomes more apparent.

## Ordering Guide (Example: MB5-10)

MB 5 - 10					
PRODUCT CODE	MICRON	LENGTH	END CAP CONFIGURATION	GASKET / O-RING	DIAMETER
MB	1 3 5 10 20 25* 30 50 75 100	5 = 4 7/8" 10 = 9 7/8" 20 = 20" 30 = 30" 40 = 40"	Blank = DOE EXP = PP Core Extender S3 = 222 w/ Fin End S4 = 222 w/ Flat End S5 = 226 w/ Fin End S6 = 226 w/ Flat End S7 = Internal O-ring with Recessed Plug S8 = SOE w/Spring S12 = 222 w/ spring F = Fin End Only FL = Flat End Only	Blank = None B = Buna N E = EPR S = Silicone V = Viton PG = Polyethylene Gaskets (Santoprene)	Blank = 2.5" BB = 4.5" (Available only without end caps)

\* 25 micron only available in BB (4.5") diameter

## Filter Housings

Shelco manufactures a full line of filter housings. From our rugged single cartridge housings to our heavy duty multi-cartridge housings and bag filter housings, Shelco is the perfect choice for your filtration solutions.



### Shelco Filters

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