



## **MicroSentry™**

### **MP SERIES**

**90% Efficiency**

**Pleated Filter Elements**

With the most complete line of pleated filter cartridges Shelco® offers the most economical high efficiency pleated elements available. For your most critical throughput, the MP Series is the best solution to your filtration problems. The cartridge is made of pleated Polypropylene media and has verified efficiencies of 90% at the rated micron. With more than 5½ square feet of media this cartridge will last longer and has a higher dirt holding capacity than any other cartridge available. With standard lengths to fit most housings, these cartridges are the perfect choice when economy and efficiency are critical.

## **Features**

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- Micron ratings from 0.5 to 50 microns
- Micron removal efficiency ratings at 90%
- All Polypropylene construction
- More surface area, more pleats, and more media offer higher dirt holding capacities
- Polypropylene fiber construction offers a wide range of chemical compatibility
- Fixed pore construction allows for higher dirt holding capacity without unloading as the differential pressure increases

## **FDA Compliance**

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Shelco® MicroSentry™ MP Cartridges are manufactured of 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 147.5 and 177.1520.

## **Applications**

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- RO Prefilters
- Food & Beverage
- Potable Water
- Chemicals
- Electronics
- Waste Water
- Cosmetics
- High Purity water
- Photographic & Chemical solutions

# Product Specifications

## Microns Ratings

0.5, 1.0, 5.0, 10.0, 25.0, 50.0

## Nominal Lengths

9 3/4", 10", 20", 30", 40"

## Materials of Construction

Filter Media: Polypropylene

Inner Core: Polypropylene

Cage: Polypropylene

Gaskets/O-Rings: Buna-N, EPDM, Silicone, Viton, Teflon Encapsulated Silicone

Please consult with a Shelco Technician for proper compatibility

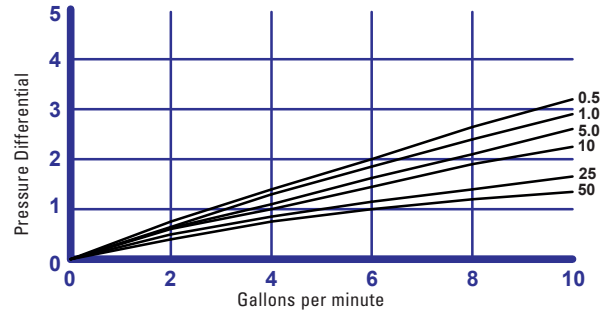
## Operating Conditions

Max Temp 160° F (71° C)

Recommended change out: 25 PSID

## FILTER EFFICIENCY LEVELS

| Beta Ratio Efficiency | Beta 100<br>99% | Beta 50<br>95% | Beta 10<br>90% | Beta 5<br>80% |
|-----------------------|-----------------|----------------|----------------|---------------|
| Polypropylene         |                 |                |                |               |
| 0.5 micron            | 3.3             | 0.7            | 0.5            | 0.25          |
| 1.0 micron            | 6.4             | 3.0            | 1.0            | 0.50          |
| 5.0 micron            | 15.0            | 7.0            | 5.0            | 3.0           |
| 10.0 micron           | 32.0            | 14.0           | 10.0           | 7.0           |
| 25.0 micron           | 60.0            | 35.0           | 25.0           | 20.0          |
| 50.0 micron           | 110.0           | 71.0           | 50.0           | 35.0          |



Micron ratings and beta ratio value levels were determined through laboratory testing. Testing was conducted using the multi-pass test method, water @ 2.5gpm/10" cartridge. Contaminants included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.

## ORDERING GUIDE

| MPP                 | 0.5    | - | 10     | S1                      | E                                |
|---------------------|--------|---|--------|-------------------------|----------------------------------|
| PRODUCT CODE        | MICRON |   | LENGTH | END CAP CONFIGURATION   | GASKET/O-RING                    |
| MPP - Polypropylene | .05    |   | 975    | S1 = DOE w/Flat Gaskets | B = Buna-N                       |
|                     | 1.0    |   | 10     | S3 = 222 w/Fin End      | E = Ethylene Propylene           |
|                     | 5.0    |   | 20     | S4 = 222 w/Flat End     | S = Silicone                     |
|                     | 10.0   |   | 30     | S5 = 226 w/Fin End      | V = Viton                        |
|                     | 25.0   |   | 40     | S6 = 226 w/Flat End     | T = Teflon Encapsulated Silicone |
|                     | 50.0   |   |        |                         |                                  |

Part Number Example: MPP1.0-10S3E

## Filter Housings

Shelco® manufactures a full line of filter housings. From our rugged single element housings to our heavy-duty multi-rounds and bag housings, we have the right filter for your requirement. Shelco® is the perfect choice for your problem solutions.



Single Cartridge Housings



Multi Cartridge Housings



High Flow  
Multi Cartridge Housings



Bag Filters



Jumbo Cartridge Housings



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# SHELCO FILTERS

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