

# MicroSentry™ R Series

Resin Bonded Filter Cartridges



- Resin bonded micro-fiberglass for economical and efficient filtration in high operating temperature and viscous fluids
- Gradient density construction provides enhanced dirt holding capacity and consistent retention efficiency
- Grooved exterior provides increased surface area for greater dirt holding capacity and longer service life
- Wide range of pore sizes from 0.5 through 125 microns
- Available with polypropylene, tin and stainless steel cores for maximum structural strength

## Applications

Printing Inks	Paints and Varnishes
Coatings	Solvents and Thinners
Acids	Antifreeze
Coolants	Lubricating Oils
Fuels	Photoresists
Insecticides	Process Water

## Specifications & Operating Parameters

### Pore Sizes

0.5, 1, 3, 5, 10, 25, 50, 75, 125 microns

### Nominal Lengths

9 3/4", 10", 19 1/2", 20", 29 1/4", 30", 39", 40"

### Materials of Construction

Filter Media: Phenolic Resin Bonded Glass Fiber

Core: Polypropylene, Tin, Stainless Steel

Cover: Cotton, Polypropylene

### Maximum Temperature and Pressure Drops

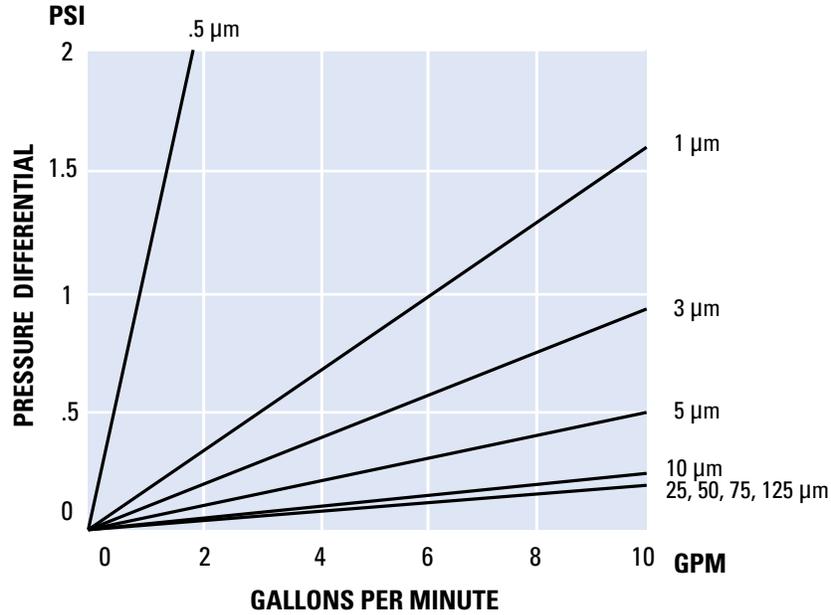
Core Material	Maximum Temperature	Maximum Pressure Drop
Polypropylene	160°F (71°C)	75 psi (5 bar)
Tin	300°F (148°C)	100 psi (7 bar)
Stainless Steel	300°F (148°C)	100 psi (7 bar)

Maximum Temperature for water is 150°F (71°C) regardless of core material.

### Recommended Change-out Differential Pressure

25 – 30 psid (1.6 – 2.1bar)

## Flow vs. Pressure Drop



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: R10-T5C)

MODEL	LENGTH	CORE	MICRON	COVER	OPTION
R	975 = 9 3/4" 10 = 10" 195 = 19 1/2" 20 = 20" 294 = 29 1/4" 30 = 30" 39 = 39" 40 = 40"	P = Polypropylene T = Tin Coated Steel S = Stainless Steel	0.5 1 3 5 10 25 50 75 125	C = Cotton P = Polypropylene	Blank = None 1 = Core Veil

## 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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