

# MicroSentry™ SS Series

Stainless Steel Filter Cartridges



- Ideal for high temperature applications up to 500°F (260°C) and high differential pressures up to 60 PSID
- 304L and 316L Stainless Steel construction for compatibility with a wide range of fluids
- 2 through 840 microns ratings for broad range of uses from fine filtration to straining
- Available in cylindrical and pleated configurations for cost effective and extra service life requirements
- Cleanable and reusable
- All welded construction provides highest mechanical strength cartridges
- End cap configurations available in DOE, 222/Flat, 226/Flat, 1" MNPT or 1" FNPT fittings

### Applications

High Temperature	High Differential Pressures
Viscous Fluids	Corrosive Liquids and Gases
Caustic Fluids	Plating Solutions
Straining	Hydraulic Oils
Petrochemicals	Photo Solutions
Magnetic Coatings	Process Water
Wastewater	Chemical Solutions

### Specifications & Operating Parameters

#### Pore Sizes

2, 5, 10, 20, 40, 75, 100, 120, 150, 190, 230, 280, 370, 540, 840 microns

#### Nominal Lengths

4 7/8", 9 3/4", 9 7/8", 10", 19 1/2", 20", 29 1/4", 30", 40"

#### Diameters:

Outside 2 1/2" (Cylindrical), 2 5/8" (Pleated)  
Inside 1 1/16"

#### Gaskets/ O-rings

Buna, EPR, Teflon, Viton

#### Materials of Construction

304L or 316L Stainless Steel

#### Maximum Temperature

500°F (260°C)

#### Maximum Change-out Differential Pressure

60 psid (4.2 bar)

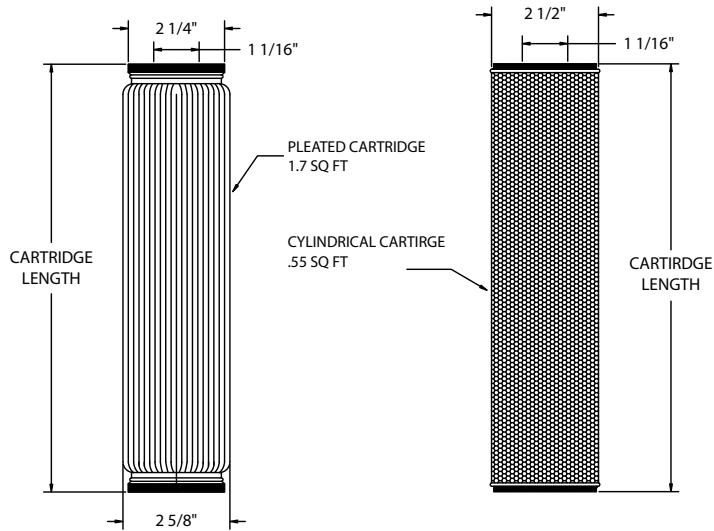
#### End Cap Configurations

DOE, 222/flat, 226/flat, 1" MNPT, 1" FNPT

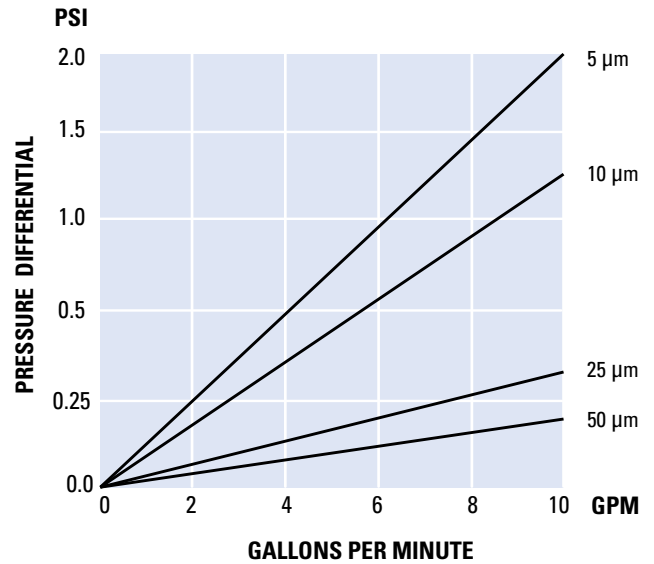
#### Options

Pleat protector to prevent denting and damage to surface  
Heavy duty core (300 psi)

## Dimensions



## Flow vs. Pressure Drop



Flow rates exceeding 7-8 GPM per 10" length are not recommended for 50 microns or below for maximum service life. 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: SS975-75PS1E-PL-316)

SS	975	-	75	P	S1	E	-	PL	-	316
PRODUCT CODE	LENGTH		MICRON	STYLE	END CAP CONFIGURATION	GASKET / O-RING		OPTIONS		MATERIAL
SS	5 = 4 7/8" 975 = 9 3/4" 978 = 9 7/8" 10 = 10" 195 = 19.5" 20 = 20" 295 = 29.25" 30 = 30" 40 = 40"		2 5 10 20 40 75 100 120 150 190 230 280 370 540 840	C = Cylindrical P = Pleated	S1 = DOE S4 = 222 w/ Flat End S6 = 226 w/ Flat End 1M = 1" MNPT 1F = 1" FNPT	B = Buna E = EPR T = Teflon V = Viton		Blank = None PL = Pleat Protector HD = Heavy Duty Core (300 psi)		304 = 304L 316 = 316L

## 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.