

EEF Series

Precision Wound Filters for Extremely Efficient Filtration

The EEF series string wound filters for Extremely Efficient Filtration employ a polypropylene nonwoven final filter layer downstream of a wound pre-filter section. These filters remove a much higher percentage of fine-particulate compared to traditional string wound filters – up to 99% of 0.5 micron particles. Filter users with challenging fluids who need to remove particulates at or below 1 micron diameter, and who want the economics and chemical compatibility of a string wound filter, have long relied on the EEF Series. Nominal removal ratings of 0.2 micron and 0.5 micron are available. The EEF series of depth filters offer a choice of pre-filtration media and support cores. End fitting options allow the retrofitting of most filter housings.

Precision winding geometry provides consistent



EEF Series string wound filter cartridges are available in a variety of sizes and configurations.

and controlled pre-filtration to the downstream nonwoven final layer in order to achieve high dirt-holding capacity. Cartridges are available in continuous lengths from 4" to 72" and diameters to 4 ½".

Benefits

- Efficient Removal of Particulates $\leq 1 \mu\text{m}$
- Wide range of pre-filter materials and cores for process compatibility
- Variety of sizes and configurations to ensure proper sizing, fit and sealing
- High sediment-holding-capacity for longer time between filter cartridges changes
- Continuous lengths up to 72" (183cm)
- Prompt deliveries

Applications

- Process water
- Catalyst fines removal
- Inks, paints, coatings
- Carbon fines
- Pre-filtration for membrane/ reverse osmosis (RO) systems
- Food and beverage
- Chemicals, acids, bases
- Solvents, organics

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Specifications

Materials:

Core: as selected by customer (see table below)
 Downstream Medium: polypropylene
 Prefiltration wound section: as selected by customer (see table below)

Cartridge ID:

1" (2.6 cm) nominal std.
 1.22" (3.1cm) and 1.5" (3.8 cm) optional

Cartridge OD:

2" (5cm) to 4 1/2" (11.4 cm)

Length

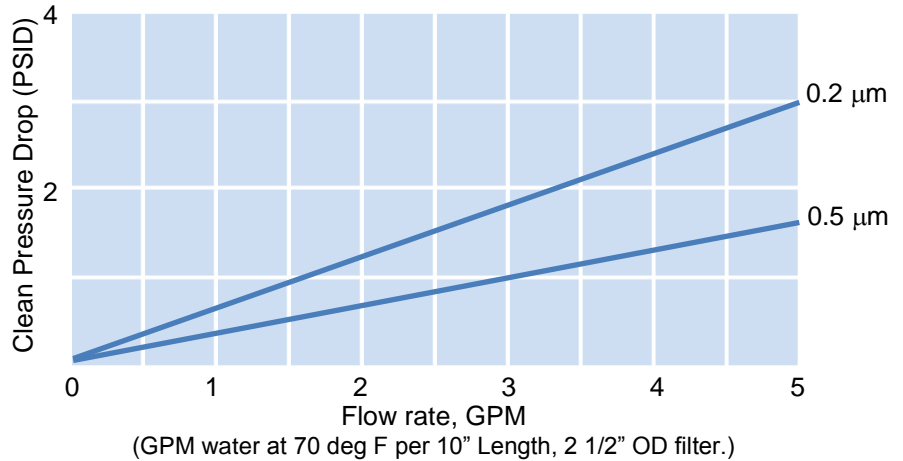
3" (7.6 cm) to 72" (183 cm)

Efficiency:

0.2 micron: 99% efficient for 0.5 micron particles

0.5 micron: 95% efficient for 0.5 micron particles

Clean Pressure Drop vs. Flow Rate (Polypropylene, Polyester and Nylon Media)



Maximum Differential Pressure
 60 PSID (4 bar)

Recommended max Change-Out Differential Pressure
 30 PSID (2 bar) for ambient temperature processes

Recommended Flow (Typical): 1-2 GPM/10" length

Max Temperature: temperature will be limited to 180F by the polypropylene final filter layer of the EEF filter.

Box Quantities: 2^{3/8"} OD – 2 1/2" OD: 10" – 40/box; 20", 30", 40", 50" – 20/box

Box Quantities: 4 1/2" OD: 10" – 10/box; 20" – 5/box

Model/Code Ordering Information

CARTRIDGE TYPE	MICRON RATING	WOUND PRE-FILTER MEDIA	LENGTH INCHES	CORE TYPE	OUTSIDE DIAMETER	OPTIONS
EEF - Extremely Efficient Filter with polypropylene nonwoven final filter layer	0.2	01-FDA Polypropylene	3.75	1 - 1" id Polypropylene	A-2"	2SP - 222 w/ plug
		02-Fibrillated Polypropylene	4	2 - 1" id Glass Filled Polypropylene	B-2 1/4"	2SD - 222 w/ disc
	0.5	03-Industrial Polypropylene	4.75	3 - 1" id Tinned Steel 4 - 1" id 304 SST 6 - 1" id 316 SST	C-2 3/8"	2SF - 222 w/ fin
		05- White Cotton	5		D-2 1/2"	6SP - 226 w/ plug
		06- FDA Bleached Cotton	6		E-2 5/8"	6SD - 226 w/ disc
		09- Rayon	8		F-2 3/4"	6SF - 226 w/ fin
		20 - Antimicrobial Polypropylene	9.75		G-3"	E - Extended Core
		10	H-4"		ECP - end caps polypro	
		12	I- 4 1/4"		SPR - polypro spring	
		12.5	J-4 1/2"			
		19.5				
		20				
		24.5				
		29.25				
		30				
		36				
		39				
40						
50						
72						

nominal diameters

Example: EEF-0.5-03-40-3-D-E 0.5 Micron, Industrial Polypropylene, 40" Length, 1" id Tinned Steel Core, 2 1/2" OD, Extended Core Option