EEF Series

Precision Wound Filters for Extremely Efficient Filtration

The EEF series string wound filters for Extremely Efficient Filtration employ а 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 $\frac{1}{2}$ ".

Benefits

Efficient Removal of Particulates < 1 μm

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

EEF Series Precision Wound Filters for Extremely Efficient Filtration



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 ½" (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

Model/Code Ordering Information



(GPM water at 70 deg F per 10" Length, 2 1/2" OD filter.)

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: 2³/₈" 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

CARTRIDGE TYPE	MICRON RATING	WOUND PRE-FILTER MEDIA	LENGTH INCHES	CORE TYPE	OUTSIDE DIAMETER	OPTIONS
TYPE EEF - Extremely Efficient Filter with polypropylene nonwoven final filter layer	RATING 0.2 0.5	 01-FDA Polypropylene 02-Fibrillated Polypropylene 03-Industrial Polypropylene 05- White Cotton 06- FDA Bleached Cotton 09- Rayon 20 – Antimicrobial Polypropylene 	INCHES 3.75 4 4.75 5 6 8 9.75 10 12 12.5	 1 - 1" id Polypropylene 2 - 1" id Glass Filled Polypropylene 3 - 1" id Tinned Steel 4 - 1" id 304 SST 6 - 1" id 316 SST 	DIAMETER A-2" B-2 1/4" C-2 3/8" D-2 1/2" E-2 5/8" F-2 3/4" G-3" H-4" I-4 1/4" J-4 1/2"	2SP - 222 w/ plug 2SD - 222 w/ disc 2SF - 222 w/ fin 6SP - 226 w/ plug 6SD - 226 w/ disc 6SF - 226 w/ fin E - Extended Core ECP - end caps polypro SPR- polypro spring
			19.5 20 24.5 29.25 30 36 39 40 50 72	Exar Poly 1/2*	nominal diameters mple: EEF-0.5-03-4 propylene, 40" Len ' OD, Extended Cor	0-3-D-E 0.5 Micron, Industrial Igth, 1″ id Tinned Steel Core, 2 e Option