



## FiberFlo® EN Endotoxin Removal Filters

### Endotoxin Control with 100% Flow Recovery

- Removes endotoxin/pyrogen
- Normal flow filtration—No waste stream from tangential flow
- Higher flow rates at lower pressure drops
- Autoclavable and steam sterilizable
- Extended life—cleanable, sanitizable
- In-situ integrity testable
- Hydrophilic membranes—repeatedly rewettable without wetting agents
- Biocompatible for medical application



## Consistent and Verifiable Pyrogen Removal

### Endotoxin/Pyrogen Removal

The unique membrane structure of FiberFlo EN cartridge and capsule filters provides consistent and verifiable pyrogen removal. The high level of endotoxin removal makes these filters ideal for a variety of applications requiring the removal of endotoxins for assured fluid purity.

### Easy to Install and Maintain

Unlike most tangential flow devices, FiberFlo EN Hollow Fiber cartridge filters can be steam sterilized in-line or autoclaved off-line. FiberFlo cartridge filters are available in four lengths and a variety of end cap styles to fit a variety of standard filter housings in process applications. FiberFlo EN capsule filters come in a variety of sizes and have a variety of end connections (Sanitary, Hose Barb and NPT) for easy installation in your equipment.

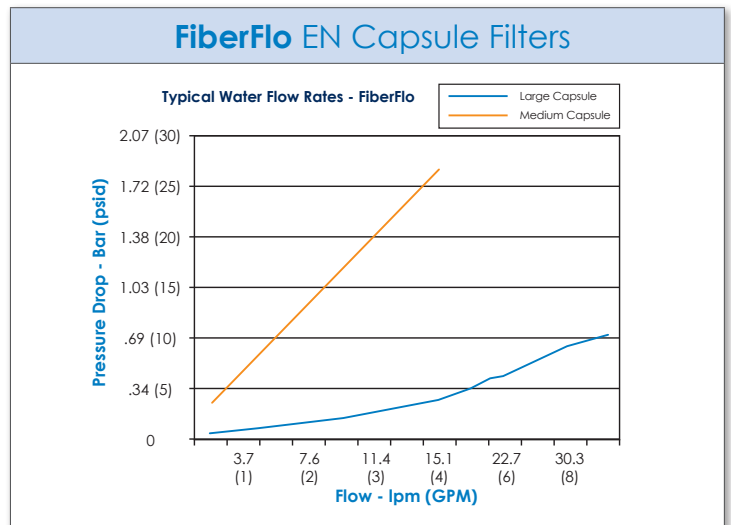
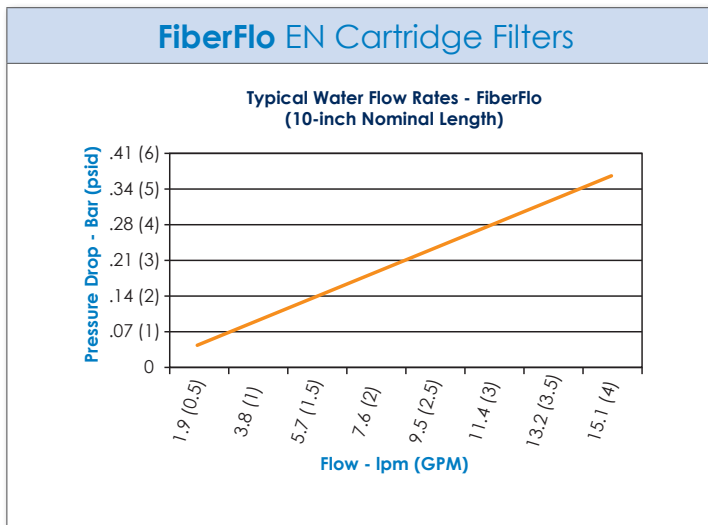
### Total Flow Recovery

FiberFlo EN filters are “normal flow” filters. They remove endotoxins because of the affinity of the membrane with the endotoxin molecules. The endotoxin binds to the membrane, but the membrane allows all of the product flow through the filter. There is no waste stream like that created by a tangential flow filter.

### Quality Assured

All FiberFlo cartridge and capsule filters are manufactured to meet medical device quality standards with adherence to QSR manufacturing guidelines. These filters exceed the requirements of USP Class VI Plastics Testing and meet USP XXIII standards for purified water extractables. FiberFlo EN cartridge filters are integrity testable by diffusional methods.

# Pressure Drop and Flow Rates



## Technical Data

### FiberFlo Cartridge Filter Specifications

Membrane	Polyphen® Polysulfone
Maximum Differential Pressure	2 Bar (30 PSI)
Membrane Surface Area (Per 10" Segment)	1.5 m <sup>2</sup> (16 ft <sup>2</sup> )
Filter Diameter	6.4 cm (2.9")
Nominal Length	25 cm, 51 cm, 76 cm, 102 cm (10", 20", 30", 40")
Case and End Caps	Polycarbonate
Seal Materials	Polyurethane
Extractables	Passes U.S.P. tests for oxidizable substances and total solids for purified water.
Fiber meets all Class VI criteria as well as test standards for tissue cytotoxicity.	

### FiberFlo Capsule Filter Specifications

Membrane	Polyphen® Polysulfone
Maximum Differential Pressure	2 Bar (30 PSI)
Surface Area	M = 1.83 m <sup>2</sup> (2.0 ft <sup>2</sup> ), L = 0.61 m <sup>2</sup> (6.0 ft <sup>2</sup> )
Case and End Caps	Polycarbonate
Extractables	Passes U.S.P. tests for oxidizable substances and total solids for purified water.
Fiber meets all USP-XXIII Class VI criteria as well as test standards for tissue cytotoxicity.	

### FiberFlo Cartridge Ordering Information

1. Select type	EN	EN	EN	EN
2. Select length	10 in (25 cm)	20 in (25 cm)	30 in (76 cm)	40 in (102 cm)
3. Select style				
<b>Style 3:</b> SOE flat, closed end, external 222 O-ring. Replaces Pall Code 3, Millipore Code 0				
<b>Style 4:</b> SOE fin end, external 222 O-ring. Replaces Pall Code 8, Millipore Code 5				
<b>Style 5:</b> SOE fin end, external 226 O-ring. Replaces Pall Code 7, Millipore Code				
<b>Style 7:</b> SOE mini fin end, internal 119 O-ring. Installs in standard 10 inch Ametek Housing				
<b>Style 8:</b> SOE flat, internal 119 O-ring. Installs in standard 20 inch Ametek Housing				
<b>Example: EN-103 would be a 10 inch, SOE flat, closed end, external 222 O-ring.</b>				
*Simple filter bowl modifications are required for this cartridge.				

### FiberFlo Capsule Ordering Information

Code	Inlet Description	Outlet Description
A	1/4 inch NPT	1/4 inch NPT
B	3/8 inch NPT	3/8 inch NPT
C	1/2 inch hose barb	1/2 inch hose barb
D	3/8 inch hose barb	3/8 inch hose barb
E	1/4 inch NPT	1/2 inch hose barb
F	1/4 inch NPT	3/8 inch hose barb
G	3/8 inch NPT	1/2 inch hose barb
H	Sanitary	Sanitary
J	Mini-ISO	Mini-ISO

**Nomenclature Format - x-I-EN-y**

M - I - EN - K

Capsule Size  
 L = 6.0 ft<sup>2</sup> (1.83 m<sup>2</sup>)  
 M = 2.0 ft<sup>2</sup> (0.61 m<sup>2</sup>)

End-Fitting Option  
 (see chart)



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