



ESFLO BN PP Filter Cartridges

- Nominal grade liquid filters
- Polypropylene media

ESFLO BN liquid filter cartridges are designed for the clarification and prefiltration of a wide range products in the food, beverage, bio and pharmaceutical industries

The filter media has graded fiber diameter and density, resulting in progressively finer retention through the depth of the media. This graded density depth mechanism offers ;

- High dirt holding capacity
- Lower pressure drop
- High flow rate

ESFLO BN all-polypropylene construction provides very low level of extractable and compatibility with wide range of process fluid.

Different technical configuration can be designed based on customer specification needs.



Features and Benefits

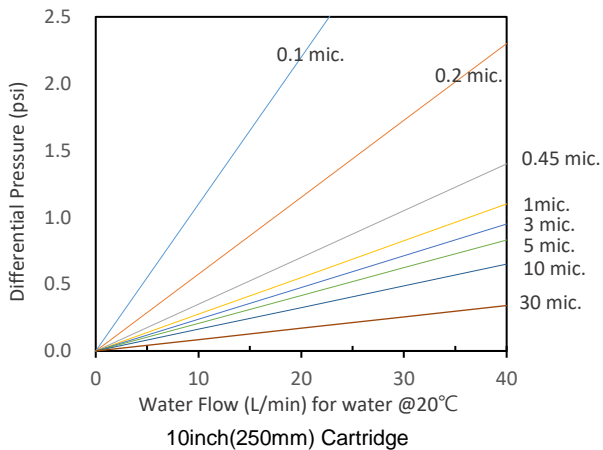
- Nominal micron rating range from 0.1 to 30 micron
- All polypropylene construction
- Longer service life due to graded density media
- Double layered construction for to maximize service life
- Minimized fiber migration due to thermal bonded media
- Excellent chemical compatibility

Applications

- Bottled Water & Soft drinks
- Dairy
- Wine prefiltration
- Beer prefiltration
- Food production
- Acids & Bases
- Clarification in Bio & Pharm liquid filtration

Performance Characteristics

Water Flow vs. Differential Pressure



Specifications

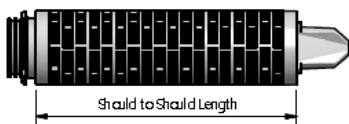
Materials of Construction

■ Main Media :	Polypropylene
■ Prefilter Media :	Polypropylene
■ Upstream Support:	Polypropylene
■ Downstream Support:	Polypropylene
■ Inner Core:	Polypropylene
■ Outer Cage:	Polypropylene
■ End Caps:	Polypropylene
■ Standard o-rings:	Silicone

Nominal Dimensions

Outside Diameter : 71.5mm
 Inner Diameter : DOE(27.0mm), SOE(31.0mm)
 S-S Length of 10" Cartridge : 237.5mm
 S-S Length of 20" Cartridge : 485.0mm
 S-S Length of 30" Cartridge : 732.5mm
 S-S Length of 40" Cartridge : 980.0mm

* S-S Length



Recommended Operation Conditions

Up to 70°C continuous operating temperature and higher short-term temperature during CIP to the following limits :

5.0 bard (72.5psid) @ 20°C
4.0 bard (58.0psid) @ 40°C
3.0 bard (43.5psid) @ 60°C
2.0 bard (29.0psid) @ 80°C
1.0 bard (14.5psid) @ 90°C
0.3 bard (4.0psid) @ >100°C (steam)

Recommended Change out Pressure

2.4 bard (35psid)

Effective Filtration Area

0.6sqm / 10" cartridge

Nominal Micron Rating

0.1, 0.2, 0.45, 1, 3, 5, 10, 30 micron

Food Contact Compliance

All materials of construction are FDA listed and conform to the relevant requirements of 21 CFR Part 177. and Halal
 All materials & manufacturing process meet the Halal guidelines and are certified.

Biological Safety

All materials of construction conform to the relevant requirements of USP Class VI-121 °C Plastics.

Ordering Information

E P B N -	-	A
■	■	■
Nominal Length	Micron Rating	Endcaps
1 : 10" (250mm) 2 : 20" (500mm) 3 : 30" (750mm) 4 : 40" (1000mm)	P1 : 0.1micron P2 : 0.2micron P4 : 0.45micron 01 : 1micron 03 : 3micron 05 : 5micron 10 : 10micron 30 : 30micron	B : DOE C : 226/FIN D : 222/FIN E : 222/FLAT F : 226/FLAT
	Seals	
	S : Silicone E : EPDM V : Viton P : FTFE Encapsulated Silicone	



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