

Product Features

Incorporating a polypropylene microfiber media over a polyethersulfone membrane, the serial layered SM cartridge design offers excellent retention characteristics and extended life to provide long lasting protection of downstream final filters. By preventing early blockage of downstream filters, the SM contributes significantly to an economical overall design of your filtration system.

Advantages

- Serial layered design — enhances capacity and simplifies prefiltration requirements
- Absolute rated (99.98%) — an ideal prefilter to 0.2, 0.45 and 0.65 micron membrane filters
- Fixed pore construction — resists dirt unloading at maximum differential pressure
- High surface area — high flow rate, and long service life — minimize maintenance cost
- Available with various gasket/O-ring materials — compatible with many fluids

Certifications

- USP Class VI: Meets USP Class VI Biological Tests for Plastics
- FDA Listed Materials: All materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5 and 177.1520, as applicable for food and beverage contact
- European Directive for Direct Food Contact: European Regulation No. 1935/2004 and European Regulation 10/2011: Tested for migration behaviour and is suitable for contact with all kinds of foodstuffs with minimal rinse-up

Product Specifications

Media:

Polypropylene & Polyethersulfone

Core, End Caps, Cage:

Polypropylene

Gasket/O-Rings:

Many options available

Dimensions:

Outside Diameter: 2.7" (6.86 cm)

Inside Diameter: 1.0" (2.54 cm)

Surface Area: 7.0 ft² (0.65 m²)

Operating Parameters

Maximum Operating Temperature:

176 °F (80°C)

Maximum Differential Pressure:

75 psid @ 70°F (5.2 bar @ 21°C)

30 psid @ 176°F (2.0 bar @ 80°C)

Recommended Change Out**Pressure:**

35 psid (2.4 bar)

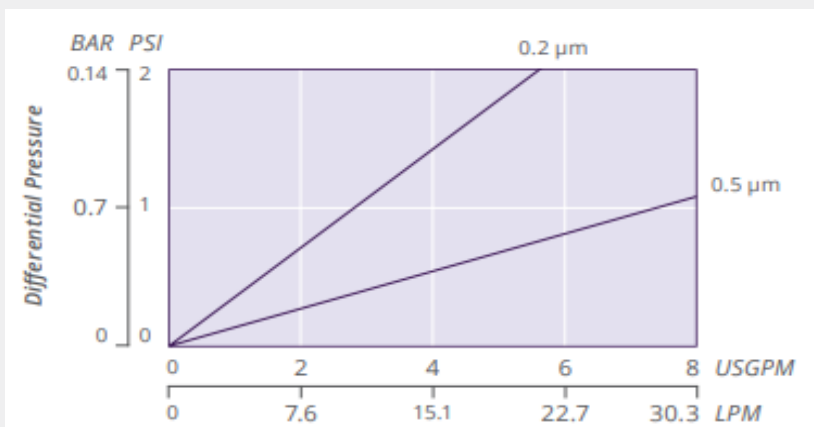


SM NOMENCLATURE INFORMATION

Filter Type	Retention Rating (microns)	Nominal Length (inches)	End Configuration	Gasket or O-Ring	Options
SM	0.2 0.5	-5 -9.75 -10 -19.5 -20 -29.25 -30 -39 -40	-P (double open end) -P2 (226/flat single open end) -P3 (222/flat single open end) -P7 (226/fin single open end) -P8 (222/fin single open end) -AM (single open end, internal o-ring) -NPC (double open)	B (Buna-N) E (EPDM) S (Silicone) T (Teflon encap. Viton, o-rings only) T (Teflon gaskets) V (Viton)	-I (End cap insert) -R (Factory pre-rinse)

SM Flow Rate

Typical Flow Rate Clean Water at Ambient Temperature
(per 10" cartridge)



For liquids other than water, multiply pressure drop by the fluid viscosity in centipoise

Performance Specifications

- Cartridges may be autoclaved for 30 minutes at 250°F (121°C) under no end load conditions. Cartridges fitted with steam insert may be steamed for at least 10 30-minute cycles at 275°F (135°C) not to exceed 3 psid (0.21 bar).



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