

Product Features

With its extra-loft, extra-life depth filter configuration, the PP1 is designed for the filtration of industrial solutions containing agglomerated particles and gels with high viscosity. Consistent absolute retention performance is achieved throughout the pleated, layered microfiber matrix. The state-of-the-art, optimized structure provides significantly higher flow rates and throughputs than cylindrical melt blown filters.

Advantages

- Hybrid pleated depth construction combines graded pore structure with high surface area
- Constructed entirely of polypropylene—Compatible with a broad range of solutions and chemicals
- Optimized pleat configuration to maximize retention and throughput
- Excellent gel and agglomerated particle retention reduces defects
- Available in common end cap configurations to retrofit into most filter housings

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

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)

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)

Maximum Reverse Pressure:

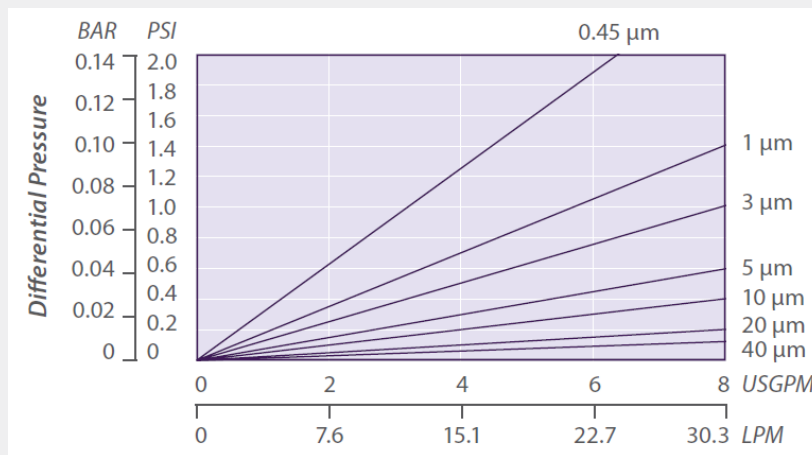
40 psid at 70°F (2.8 bar at 21°C)

PP1 NOMENCLATURE INFORMATION

Filter Type	Retention Rating (microns)	Nominal Length (inches)	End Configuration	Gasket or O-Ring	Options
PP1	0.45 1 3 5 10 20 40	-5 -9.75* -10 -20 -30 -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)	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)

PP1 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

Removal Efficiency

Micron Rating	Beta 5000 99.98%	Beta 100 99%	Beta 50 98%
0.45 µm	0.45	0.3	0.2
1.0 µm	1.5	0.8	0.6
3.0 µm	3.0	2.0	1.0
5.0 µm	5.0	4.0	3.0
10 µm	10	8.0	7.0
20 µm	20	19	17
40 µm	40	35	25

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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