

**MELTGRADIENT™ PP DEPTH FILTERS
WITH ABSOLUTE FILTRATION RATE**

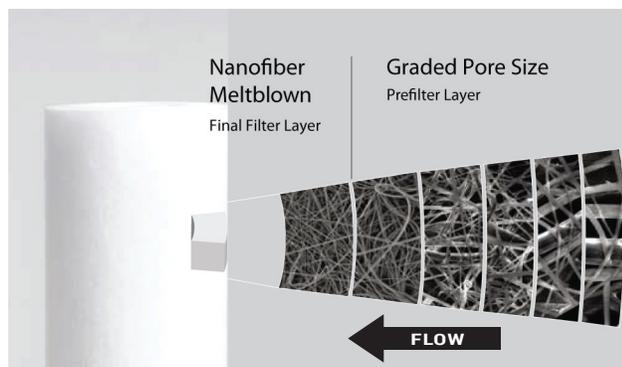
Melt-blown polypropylene filters with inner layer of interwoven high-density nano-fibers. Ideal for prefiltration and clarification.

MELTGRADIENT™ DEPTH FILTER

POLYPROPYLENE MICROFIBER FOR PRE-FILTRATION AND CLARIFICATION

Meltgradient™ Series Depth Filters are made of melt-blown polypropylene with gradient pores and an inner layer of interwoven high-density nano-fibers. These cartridge filters are capable of efficiently capturing particles of different sizes, and perform at high flow rates for long lifetimes. The polypropylene raw material meets FDA requirements with extensive fluid compatibility, suitable for RO water pre-filtration and clarification.

FEATURE	BENEFIT
Melt-blown polypropylene media with gradient pores and inner layer of interwoven high-density nano-fibers	Provides high contaminant hold capacity and high removal efficiency at low pressure drop
	>99.9% particle retention efficiency at rated pore size
	Long service life, high flow rate due to the different linear diameters and unique interwoven density control process. Meltgradient has a porosity far beyond that of similar products, which results in lower pressure loss across the cartridge and higher contaminant-holding capacity.
	Long fiber fusion and spray process with continuous fiber hot-melt interweave results in a rich and stable pore structure and high-purity filtration. No adhesive or surfactant, no silicone oil, low precipitate.
	The cartridge can withstand up to 4 bar differential pressure.
	Wide range of filtration rates from 0.1 μm to 90 μm to meet various operation conditions.
Quality Assurance	Manufactured in a facility which adheres to ISO 9001 Practices. 100% Integrity tested and lot traceable.
Particle shedding	Autoclaved filter effluent meets the requirements in USP <788> for large volume parenterals.
Non-fiber release	Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3 (b) (6).



Typical Applications

- RO Water Prefiltration
- Clarification
- Prefiltration

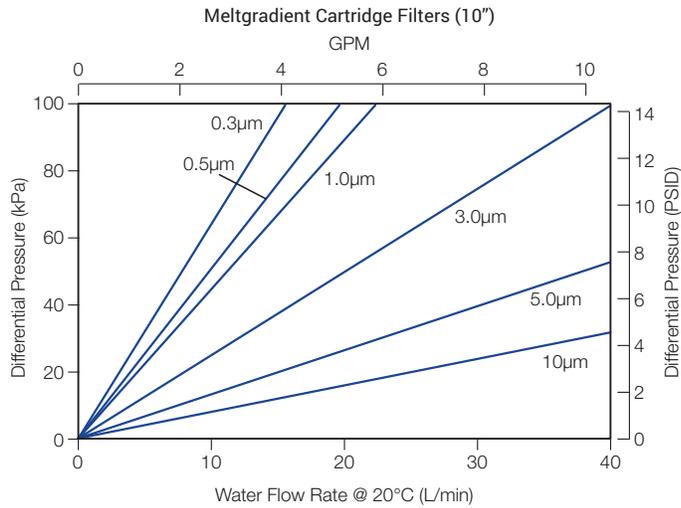
SPECIFICATIONS

Filter media	Polypropylene (melt-blown) with interwoven high-density nano-fiber inner layer
Support layer	Polypropylene
Core/cage/end caps	Polypropylene
O-rings	Silicone, EPDM, FKM
Diameter	O.D.: 2.51" (64 mm) or 2.68" (68 mm) I.D.: 1.10" (28 mm)
Max. operating temperature	80°C
Max. differential pressure	0.40 MPa (4.0 bar, 58 psi) at 21°C

RETENTION

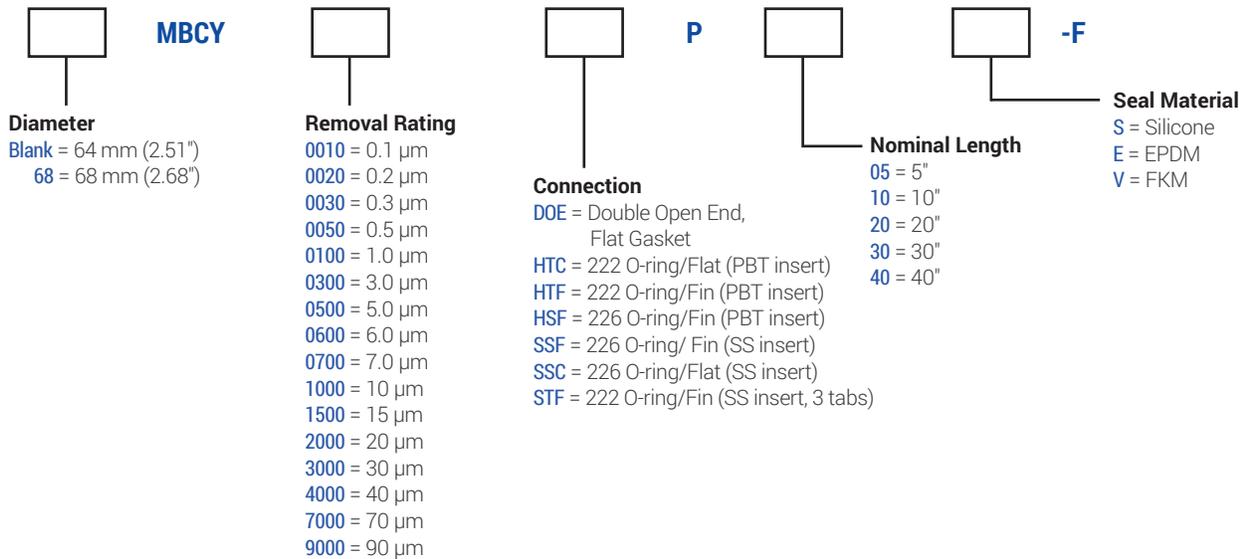
Particle Range	Filter Code							
	0030 (0.3 µm)	0050 (0.5 µm)	0100 (1.0 µm)	0300 (3.0 µm)	0500 (5.0 µm)	1000 (10 µm)	1500 (15 µm)	3000 (30 µm)
≥0.5 µm	99.99%	99.98%	95.73%	-	-	-	-	-
≥1.0 µm	100%	100%	99.98%	-	-	-	-	-
≥2.0 µm	100%	100%	100%	99.0%	97.3%	-	-	-
≥3.0 µm	100%	100%	100%	99.8%	98.3%	-	-	-
≥5.0 µm	100%	100%	100%	100%	99.9%	89.1%	-	-
≥8.0 µm	100%	100%	100%	100%	100%	99.2%	90.6%	-
≥10 µm	100%	100%	100%	100%	100%	99.9%	99.0%	-
≥12 µm	100%	100%	100%	100%	100%	100%	99.8%	86.5%
≥25 µm	100%	100%	100%	100%	100%	100%	100%	93.6%
≥35 µm	100%	100%	100%	100%	100%	100%	100%	99.9%
≥50 µm	100%	100%	100%	100%	100%	100%	100%	100%
≥70 µm	100%	100%	100%	100%	100%	100%	100%	100%
≥90 µm	100%	100%	100%	100%	100%	100%	100%	100%

FLOW RATES



ORDERING INFORMATION

EXAMPLE: **68MBCY0100HTFP10E-F** = 68 mm dia, 1.0 µm, 222/Fin, 10" length filter with EPDM seals



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