



Graver Technologies

Filtration | Separation | Purification

QMC™ Polypropylene Filter Series

High Efficiency Polypropylene Filter Cartridge

An innovative product manufactured with multiple layers of melt blown polypropylene media. This unique structure allows high flow rates while maintaining low differential pressure and ideal depth filtration characteristics.

Filter Features–Benefits

- Micron ratings from 0.1 to 10 µm– Broad application range
- Meets current USP Class VI biological test for plastics
- FDA listed materials of construction
- High Filtration Efficiency – 95%
- Graded pore structure – Multilayer, media for high dirt holding capacity
- Fixed pore construction – Resists dirt unloading at maximum differential pressure
- Polypropylene construction – Inert to many process fluids
- Various Gasket/O-ring materials – Compatible with many fluids

Filter Specifications

Construction material:	Polypropylene
Gasket/O-Rings:	Buna-N, EPDM, Silicone, Viton, Teflon Encapsulated Viton (O-Rings only)
Micron ratings:	0.1, 0.2, 0.4, 0.6, 1.0, 3.0, 5.0, 10.0µm
Dimensions and Operating Parameters	
Nominal lengths:	9.75", 10", 20", 30", 40" (24.8, 25.4, 50.8, 76.2, 101.6 cm)
Outside diameter:	2.7" (6.9 cm)
Inside diameter:	1.0" (2.54 cm)
Maximum operating temperature:	176 °F (80°C)
Maximum differential pressure:	80 psid @ 70°F (5.5 bar @ 21°C) 40 psid @ 176°F (2.8 bar @ 80°C)
Maximum reverse differential pressure:	40 psid @ 70°F (2.8 bar @ 21°C)
Recommended changeout pressure:	35 psid (2.4 bar)

Applications

- Food & beverage
- Aqueous solutions
- Pharmaceuticals
- Ultrapure water
- RO Prefilters
- Chemicals
- Cosmetics
- Ink
- DE trap
- Photoresists



Filter Removal Efficiency

Beta Ratio Efficiency	Beta 100 99%	Beta 20 95%
0.1 micron	0.8	0.1
0.2 micron	1.0	0.2
0.4 micron	2.0	0.4
0.6 micron	3.0	0.6
1.0 micron	6.0	1.0
3.0 micron	14	3.0
5.0 microns	17	5.0
10.0 microns	25	10.0

Performance Specifications

Sanitization

Hot water at 176°F (80°C) at 5 psid (0.35 bar) for 30 min.
In-line steam at 257°F (125°C) at 1 psid (0.07 bar) for 30 min.
Autoclavable at 257°F (125°C) for 30 min.

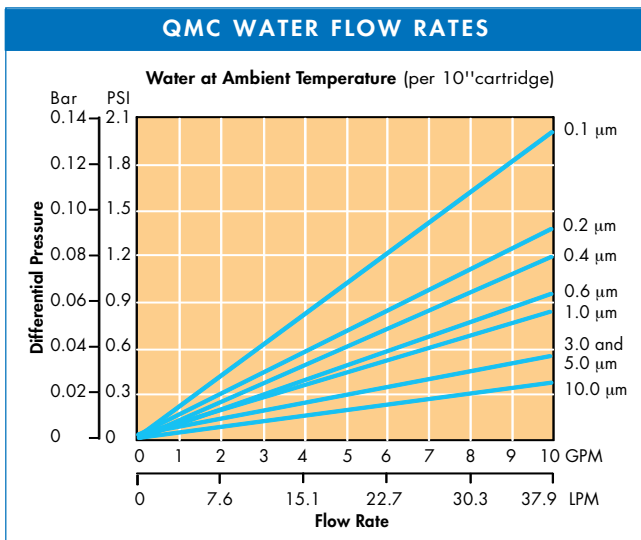
FDA Listed Materials

All materials comply with FDA title 21 of the Code of Federal Regulations as applicable for food and beverage contact.

QMC Nomenclature Information

<p>QMC</p> <p>Filter Type QMC Series Filters</p>	<p>0.6</p>	<p>-10</p> <p>Nominal Length (inches) -9.75 -10 -20 -30 -40</p>	<p>P2</p>	<p>T</p> <p>Gasket or O-Ring S Silicone B Buna-N E EPDM V Viton T Teflon encap. Viton (O-Rings only)</p>
<p>Retention Rating (microns) 0.1 0.2 0.45 0.6 1 3 5 10</p>		<p>End Configuration 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 PX Extended Core AM Single open end, internal O-Ring NPC Double open end, internal O-Ring</p>		

Example: QMC 0.6-10 P2T



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