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

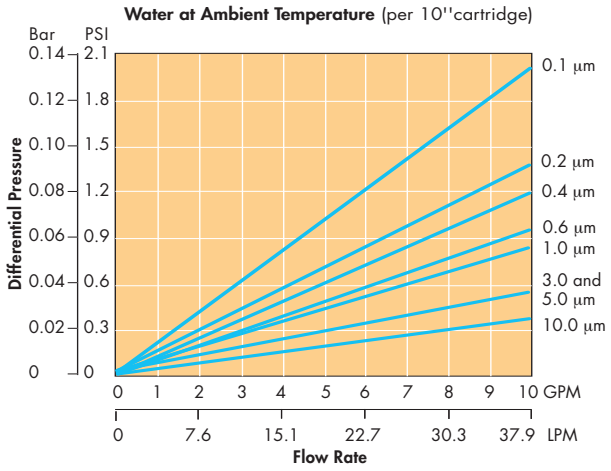
All materials comply with FDA title 21 of the Code of Federal Regulations as applicable for food and beverage contact.

QMC Nomenclature Information

QMC	0.6	-10	P2	T
Filter Type QMC Series Filters	**Retention Rating (microns)** **0.1** **0.2** **0.45** **0.6** **1** **3** **5** **10**	**Nominal Length (inches)** **-9.75** **-10** **-20** **-30** **-40**	**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	**Gasket or O-Ring** **S** Silicone **B** Buna-N **E** EPDM **V** Viton **T** Teflon encap. Viton (O-Rings only)

Example: QMC 0.6-10 P2T

QMC WATER FLOW RATES



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