

Filtration | Separation | Purification

QMC[™] Series Filter Cartridges

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.

Features-Benefits

- \bullet Micron ratings from 0.1 to 10 μm Broad application range
- 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

Product Specifications

Construction mater	ial: Polypropylene			
Gaskets/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, 10.0 μm			
Dimensions				
Nominal lengths:	5", 9.75", 10", 20", 30", 40" (12.7, 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)			

Operating Parameters

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 change-out pressure:	35 psid (2.4 bar)

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.



Certifications

 $\ensuremath{\mathsf{USP}}$ Class VI - Meets USP Class VI Biological Test for Plastics.

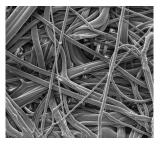
FDA Listed Materials - All Materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5, and 177.1520, as applicable for food and beverage contact.

Endotoxin level - Limulus Amebocyte Lysate CB028 test indicated bacterial endotoxins were not present in distilled water at 0.25 EU / ml.

Extractable content - Test indicate that Non-Volatile Residue, Residue on Ignition and Heavy Metals meet USP limits.

Typical Applications

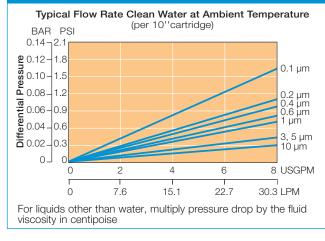
- Food & beverage
- Aqueous solutions
- Chemicals
- Pharmaceuticals
- Cosmetics
- Ultrapure water
- RO Prefilters
- Ink
 - DE trap
 - Photoresists



QMC Nomenclature Information						
QMC	0.6	-10	P2	т		
Filter Type QMC Series Filters Retention Rating (micro 0.1 1 0.2 3 0.45 5 0.6 10	ns)	Nominal Length (inches) -5 -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 endcap. Viton (O-Rings only)		

Example: QMC 0.6-10P2T

QMC FLOW RATE



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 micron	6.0	1.0
3 micron	14	3.0
5 microns	17	5.0
10 microns	25	10.0

Upstream particle counts

Beta Ratio = $\frac{1}{\text{Downstream particle counts}}$

The micron ratings shown at various efficiency and beta ratio value levels were determined through laboratory testing, and can be used as a guide for selecting cartridges and estimating their performance. Under actual field conditions, results may vary somewhat from the values shown due to the variability of filtration parameters.

Testing was conducted using the single-pass test method, water at 3 gpm/10" cartridge. Contaminant's included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.

For more information

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