

## FILTRATION | SEPARATION | PURIFICATION



## **Product Specifications**

## Media: Polypropylene

Gaskets/O-Rings: Buna-N, EPDM, Silicone, Teflon Encapsulated Viton (O-Rings only), Teflon (gasket only), Viton

**Micron ratings:** 0.2, 0.45, 1, 2.5, 5, 10 μm

## **Dimensions**

Nominal lengths: 5", 9.75", 10", 19.5", 20", 29.25", 30", 39", 40" (*12.7, 24.8, 25.4, 49.5, 50.8, 74.3, 76.2, 99.1, 101.6 cm*)

Outside diameter: 2.7" (6.86 cm)

Inside diameter: 1.0" (2.54 cm)

Surface Area: up to 7.0 ft<sup>2</sup>

## **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)

Maximum reverse pressure: 40 psid @ 70°F (2.8 bar @ 21°C)

Recommended change-out pressure: 35 psid (2.4 bar)



# QMA<sup>™</sup> Series Filter Cartridges

*"Absolute" Rated High Performance Pleated Polypropylene Filter Cartridge* 

This filter is constructed with a high surface area melt blown polypropylene media for low initial pressure drop, high dirt holding capacity, and high efficiency performance.

## **FEATURES & BENEFITS**

- Micron ratings from 0.2 to 20  $\mu m$  broad application range
- "Absolute" Efficiency rated at 99.98% (Beta 5000)
- High surface area high flow rate, and long service life — minimize maintenance cost
- 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
- Heavy duty molded cage high structural strength
- Highly consistent melt blown media for consistent performance

## CERTIFICATIONS

- 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.
- European Directive for Direct Food Contact: European Regulation No. 1935/2004 and European Regulation 10/2011: Tested for migration behavior and is suitable for contact with all kinds of foodstuffs with minimal rinse-up. Data available upon request.

## **TYPICAL APPLICATIONS**

- Food & beverageAqueous solutions
- Bottled water
- Process water
- RO Prefilters
- Inks

- Chemicals
- PharmaceuticalsCosmetics

## PERFORMANCE SPECIFICATIONS

- Cleaning/Sanitization: Compatible with most common chemical cleaning, sanitizing and sterilizing agents and with pH range from 1–14. Consult factory for specific compatibility information. Cartridge will withstand hot water at 176°F (80°C) at 5 psid (0.35 bar) for 30 minutes.
- Steam/Autoclave: 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 thirty minute cycles @ 275°F (135°C) not to exceed 3 psid (0.21 bar).

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Filter Type	Retent Rating (micro	J	Nominal Length (inches)		End Configuration		Gasket or O-Ring		Options	
QMA	0.2	5	-5	<b>-29.25</b> <sup>1</sup>	Р	Double Open End	В	Buna-N	-1	End Cap
Series	0.45	10	-9.75 <sup>1</sup>	-30	P2	226/Flat Single Open End	Е	EPDM		Insert for
	1	20	-10	- <b>39</b> <sup>1</sup>	P3	222/Flat Single Open End	S	Silicone		Steaming
	2.5		-19.5 <sup>1</sup>	-40	P7	226/Fin Single Open End	Т	Teflon	-R	Factory Pre-Rinse
			-20		P8	222/Fin Single Open End		encap. Viton		
					РХ	Extended Core		(O-Rings only) <sup>2</sup>		
					АМ	Single Open End, Internal O-Ring	т	Teflon Gasket		
Example: QMA 1–20P3V–R					NPC	Double Open End, Internal O-Ring	V	Viton		
0144	1		20		20		V		D	
QMA			-20		P3		V		–R	

<sup>1</sup>Available only for DOE (P) configuration <sup>2</sup>Not available in AM style

## **QMA FLOW RATE**



Beta Ratio Efficiency	Beta 5000 99.98%	Beta 100 99%	Beta 50 98%
0.2 μm	0.20	0.10	0.05
0.45 μm	0.45	0.30	0.20
1 µm	1.0	0.60	0.30
2.5 µm	2.5	2.0	1.5
5 µm	5.0	4.0	3.0
10 µm	10.0	8.0	7.0

Beta Ratio =

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 2.5 gpm/10" cartridge. Contaminants included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.

## FOR MORE INFORMATION

## GTX-259 10-21

## DISTRIBUTED BY

Customer Service/ Technical Support: 1-888-353-0303

#### Europe (UK): +44-1424-777791 | China: +86-21-5238-6576 | Asia: +65 9671 9966

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