

# FILTRATION | SEPARATION | PURIFICATION



# **Product Specifications**

Media: Polypropylene

Inner core, end caps, cage:

Polypropylene

#### Gaskets/O-Rings:

Buna-N, EPDM, Silicone, Teflon Encapsulated Viton (O-Rings only), Teflon (gaskets), Viton

#### Micron ratings:

0.2, 0.45, 1, 2.5, 5, 10, 25, 50, 100 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)

#### **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)



# PMA™ Series Filter Cartridges

# "Absolute" Rated Pleated Filter Cartridges

This all polypropylene filter retains particles with absolute efficiency. Available in a broad range of pore sizes, it is suitable for a wide range of applications. The pleated construction provides a high surface area to offer outstanding overall filtration economy.

### **FEATURES & BENEFITS**

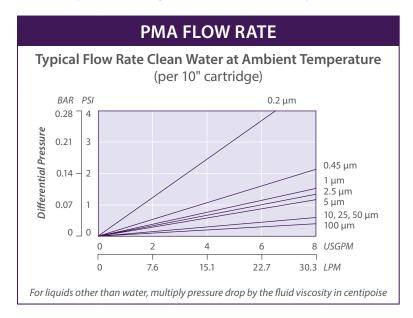
- Micron ratings from 0.2 to 100 μm Broad application range
- "Absolute" efficiency Rated at 99.98% (Beta 5000)
- Competitive surface area High flow rates, and long online service — minimize maintenance cost
- Fixed pore structure Eliminates dirt unloading at maximum differential pressure
- Polypropylene construction Inert to many process fluids
- Various gasket/O-ring materials Compatible with a variety of fluids
- Manufactured in continuous lengths up to 40 inches

#### **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.

PMA NOMENCLATURE INFORMATION												
Filter Type	Retention (microns)	Rating	Nominal Length (inches)		End Configuration		Gasket or O-Ring		Options			
PMA Series	0.2 0.45 1 2.5 5	10 25 50 100	-5 -9.75 <sup>1</sup> -10 -19.5 <sup>1</sup> -20	-29.25 <sup>1</sup> -30 -39 <sup>1</sup> -40	P P2 P3 P7 P8 AM NPC	Double Open End 226/Flat Single Open End 222/Flat Single Open End 226/Fin Single Open End 222/Fin Single Open End Single Open End, Internal O-Ring Double Open End, Internal O-Ring	B E S T	Buna-N EPDM Silicone Teflon encap. Viton (O-Rings only) <sup>2</sup> Teflon Gasket Viton	−I −R	End Cap Insert Factory Pre-Rinse		
Example: PMA 2.5–10PV–R						VILOII						
PMA	2.5		-10		Р		V		-R			

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



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

REMOVAL EFFICIENCY									
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						
25 μm	25.0	19.0	15.0						
50 μm	45.0	35.0	28.0						
100 μm	_	100.0	85.0						

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

#### FOR MORE INFORMATION

GTX-261 10-21

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