# Fulflo<sup>®</sup> Abso-Mate<sup>™</sup> Pleated Depth Filter Cartridges

All polypropylene, absolute-rated, cost-effective filtration

Parker's Fulflo<sup>®</sup> Abso-Mate<sup>™</sup> Cartridges provide the ultimate in economical filtration for even the most critical process fluids. The proprietary melt blown media is rigidly controlled for reliable results time after time. Abso-Mate cartridges are produced without adhesives that can potentially contaminate fluids.

Abso-Mate Pleated Cartridges are available in 0.2µm, 0.45µm, 1µm, 2µm, 5µm, 10µm, 20µm, 40µm, and 70µm absolute rated pore sizes.



### **Contact Information**

Parker Hannifin Corporation **Bioscience Division - N.A.** 2340 Eastman Avenue Oxnard, CA 93030

phone +1 805 604 3583 bioscience.na@parker.com

www.parker.com/bioscience

### **Benefits**

- Absolute ratings for consistent and reliable performance (99.98%; β = 5000)
- Back-washable media, reduces replacement maintenance and cartridge disposal costs
- Abso-Mate cartridges are non-fiber releasing and contain minimal extractables
- All materials of construction are FDA listed as acceptable for potable and edible liquid contact according to CFR Title 21
- One-piece construction eliminates bypass concerns on multi-length cartridges
- All-polypropylene construction offers wide chemical compatibility with most chemicals, acids, bases and solvents

- Fused construction and continuous lengths eliminate the need for adhesives and allow accurate bubble point integrity testing
- ISO 9001 registered company

## **Applications**

- Membrane Prefilter
- Chemicals
- Catalyst Recovery
- Precious Metal Recovery
- Waste Water



# Abso-Mate<sup>®</sup> Cartridges

#### SPECIFICATIONS

#### Materials of Construction

Type of Construction

 Integrally sealed, all-polypropylene pleated media supported by all-polypropylene construction

#### Filter Media

Melt blown polypropylene microfiber

#### Media Support Layers

- Non-woven or mesh polypropylene
- Media Support Core
- Heavy wall high strength polypropylene

#### Media Support Cage and Thermally Welded End Caps

Molded polypropylene

#### Seal Materials

 Buna-N, EPR, Silicone, Viton<sup>®</sup>, PFA Encapsulated Viton<sup>®</sup>

#### Dimensions

- Cartridge Outside Diameter
- 2 <sup>11</sup>/<sub>16</sub> in.
- Cartridge Inside Diameter
- DOE: 1 1/16 in.
- SOE: 1 <sup>5</sup>/<sub>32</sub> in.

#### Maximum Recommended Operating Conditions

Temperature: 200°F (93°C)

<u>Change Out ∆P:</u> 35psi (2.4bar)

ΔP @ Ambient 70°F (21°C): 90psi (6bar)

<u>ΔP @ 200°F (93°C):</u> 20psi (1.4bar)

Flow Rate: 10gpm (38 lpm) per 10 in. length

#### **Product Safety**

- All components FDA listed per CFR, Title 21
- Non-fiber releasing per FDA Part 210.3B (5) and (6)
- Non-photo sensitive

#### **Filtration Ratings**

99.98% efficiency at 0.2, 0.45, 1, 2, 5, 10, 20, 40, & 70  $\mu m$  pore sizes

Beta Ratio (β) = Upstream Particle Count @ Specified Particle Size and Larger

Downstream Particle Count @ Specified Particle Size and Larger

Percent Removal Efficiency =  $\left(\frac{\beta - 1}{\beta}\right) 100$ 

Performance determined per ASTM F-795-88. Single-Pass Test using AC test dust in water at a flow rate of 3.5gpm per 10 in. (13.2 lpm per 254 mm) cartridge.

#### Performance Attributes

Flow Rate and Pressure Drop Formulas Flow Rate (gpm) = <u>Clean ∆P x Length Factor</u> Viscosity x Flow Factor

$$\label{eq:eq:action} \begin{split} \text{Clean } \Delta \text{P} = \frac{\text{Flow Rate x Viscosity x Flow Factor}}{\text{Length Factor}} \end{split}$$

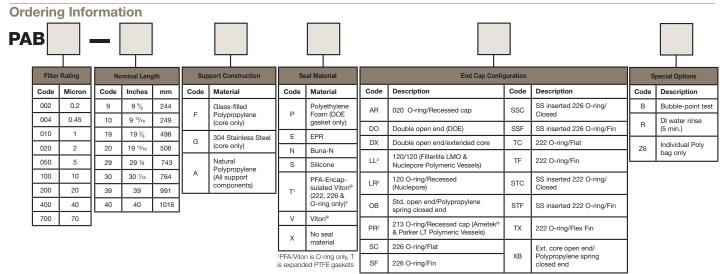
#### Notes:

- 1. Clean  $\Delta P$  is psi differential at start.
- 2. Viscosity is centistokes. Use Conversion Tables for other units.
- 3. Flow Factor is psid/gpm at 1cks for 10 in. (or single).

Abco-Mato

4. Length Factors convert flow or  $\Delta P$  from 10 in. (single length) to required cartridge length.

Liquid Particle Retention Ratings (µm) @ Removal Efficiency of:							ADSO-Mate Flow Factors (psid/gpm @ 1 cks)			Abso-Mate Length Factors		
Cart.	ß=5000 Absolute	B=1000 99.9%	ß=100 99%	ß=50 98%	ß=20 95%		Rating (µm)	Flow Factor		In.	Factor	
PAB002	0.2	<0.2	<0.2	<0.2	<0.1		0.20	3.100		9 10	1.0	
PAB004	0.45	0.4	0.2	<0.2	<0.1		0.45	1.000	$\vdash$	10	1.0 2.0	
PAB010	1	0.8	0.4	<0.2	<0.1	Ì	1	0.750	$\vdash$	20	2.0	
PAB020	2	1.9	0.8	<0.2	<0.1		2	0.300	$\vdash$	29	3.0	
PAB050	5	3.8	1.4	0.4	0.15		5	0.072	F	30	3.0	
PAB100	10	7	2	0.5	0.25		10	0.031		39	4.0	
PAB200	20	13	4	1.8	0.35		20	0.021		40	4.0	
PAB400	40	22	7	3.2	0.8		40	0.012				
PAB700	70	52	22	15	5.5		70	0.008				



2Available only in 9 %" (-9) and 19 %" (-10) lengths

Specifications are subject to change without notification.

For User Responsibility Statement, see www.parker.com/safety



Fulflo is a registered trademark of Parker-Hannifin Corporation Viton is a registered trademark of E.I. DuPont de Nemours & Co., Inc. Ametek is a registered trademark of Ametek, Inc.

All Rights Reserved

© 2017 Parker-Hannifin Corporation

Bioscience Division - North America