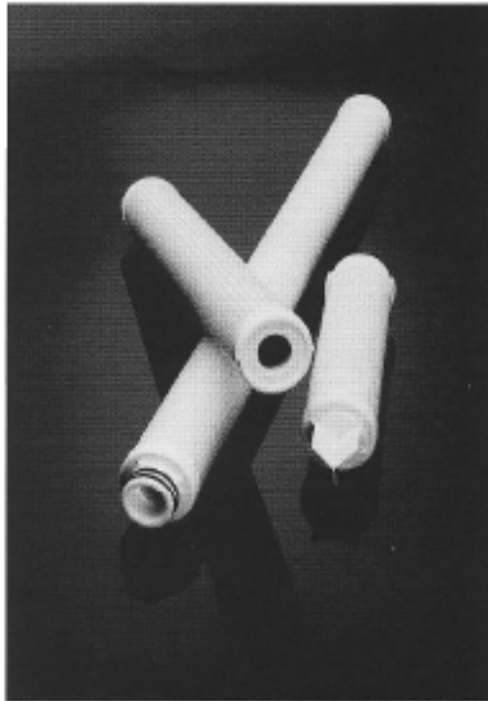


ABSO-MATE® PAB

Absolute, cost-effective filtration from all-polypropylene cartridges



Parker's Abso-Mate® 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 could contaminate fluids.

BENEFITS

- Absolute ratings for consistent and reliable performance (99.98%; $\beta = 5000$)
- Backwashable 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 provides wide compatibility with most chemicals, acids, bases and solvents

APPLICATIONS

- Membrane prefilter
- Food & beverage
- Water
- Waste water

SPECIFICATIONS

Materials of Construction:

Filter Media and Support Layers	Polypropylene
Bonding Polymer	None, completely fusion-sealed
Media Protection	Polypropylene cage
Support Core	Glass filled polypropylene

Maximum Recommended Operating Conditions:

Temperature	200°F (93°C)
Changeout ΔP	35 psi (2.4 bar)
ΔP @ 70°F (21°C)	90 psid (6 bar)
ΔP @ 200°F (93°C)	35 psid (2.4 bar)
Flow Rate	10 gpm (38 lpm) per 10 in length

Cartridge Dimensions:

Outside Diameter	2-1/2 in (63.5 mm)
Inside Diameter	DOE - 1-1/16 in (27 mm) SOE - 1 in (25.4 mm)

Effective Filtration Area:

Up to 7.2 ft²/10 in (0.7 m²/254 mm)

Biological Safety:

Meets USP XXI Class VI requirements for plastics
Nontoxic per WI-38 Human Cell Cytotoxicity Test

Sterilization Parameters:

Maximum 10 cycles @ 250°F (121°C)
for 15 minutes @ 15 psi (1.3 bar)
Hot water @ 180°F (82°C) for 30 minutes



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Performance Data by Cartridge Grade

Micron	Water ¹ ΔP		Gas Efficiency	Air Flow Rate
	PSID @ 1 gpm/10 in	DOP Efficiency	SCFM @ 1 psid	
A	0.2	3.100	99.999+	13
B	0.45	1.000	99.999+	25
C	1.0	0.750	99.999	10
D	2.0	0.300	99.999	34
E	5.0	0.072	99.900	126
F	10	0.031	93.500	320
G	20	0.021	80.000	362
H	40	0.012	53.000	400
J	70	0.008	18.000	400

Flow Rate and Pressure Drop Formulae:

$$\text{Flow Rate (gpm)} = \frac{\text{Clean } \Delta P \times \text{Length Factor}}{\text{Viscosity} \times \text{Flow Factor}}$$

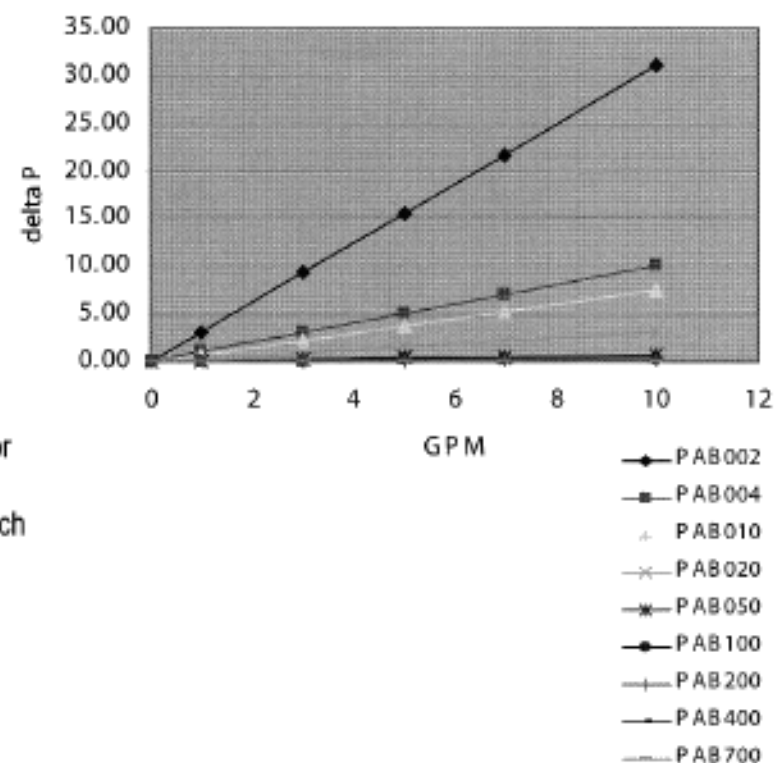
$$\text{Clean } \Delta P = \frac{\text{FlowRate} \times \text{Viscosity} \times \text{Flow Factor}}{\text{Length Factor}}$$

Notes:

1. Clean ΔP is PSI differential at start.
2. Viscosity is centistokes. Use Conversion Tables for other units.
3. Flow Factor is ΔP/GPM at 1cks for 10 inch (or single).
4. Length Factors convert flow or ΔP from 10 inch (single length) to required cartridge length.

* Pressure drops are for water @ 1.0 CKS and S.G. = 1. For other liquids multiply pressure drop by the viscosity in CKS

Abso-Mate Flow vs. dP



ORDERING INFORMATION

PAB

Particle Removal Rating		Nominal Length (in)		Support Construction		Seal Material		End Cap Configuration		Special Options	
CODE	μm	CODE	LENGTH (mm)	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
002	0.2	9	9-5/8" (244)	F	Glass filled Polypropylene (core only)	A	Polyethylene Foam (DOE Gasket Only)	AR	020 O-Ring/Recessed Cap	B	Bubble-Point Test
004	0.45	10	9-13/16" (249)					DO	Double Open End (DOE)	R	DI Water Rinse (5 minutes)
010	1.0	19	19-5/8" (498)	G	304 Stainless Steel (core only)	E	EPR	DX	DOE With Core Extender	Z6	Individual Poly Bag only
020	2.0	20	19-15/16" (506)			N	Buna-N	LL**	120 O-Ring/Recessed Cap		
050	5.0	29	29-1/4" (743)	N	Natural Polypropylene (All support components)	V	Viton*	LR**	120 O-Ring/Recessed Cap		
100	10	30	30-1/16" (764)	X	Coreless Cartridge	S	Silicone	OB	Std. open end / Polypro Spring Closed End		
200	20	39	39" (991)			T	PFA Encapsulated Viton* (O-ring only)	PR**	213 O-Ring/Recessed Cap		
400	40	40	40" (1016)			V	Viton*	SC	226 O-Ring/Cap		
700	70					X	No Seal Material	SF	226 O-Ring/Fin		
								TC	222 O-Ring/Cap		
								TF	222 O-Ring/Fin		
								XB	Ext. core open end/ Polypro Spring Closed End		
								SSC	S.S. Inserted 226 O-Ring/Closed		
								SSF	S.S. Inserted 226 O-Ring/Fin		
								STC	S.S. Inserted 222 O-Ring/Closed		
								STF	S.S. Inserted 226 O-Ring/Fin		

** Available only in 9-3/8 (-9) and 19-5/8 (-19) lengths.

TECHNICAL SUPPORT AND PRODUCT INFORMATION

Parker provides our customers with unsurpassed product consistency and cost efficiency. Our experienced professionals can help you select the right solution for your application. Orders can be emailed directly to PAFsales@parker.com. For additional information contact your local distributor. Information on product specifications, applications and chemical compatibility can be found on our web site at www.parker.com or through the Oxnard office.

Parker designs and manufactures an extensive line of innovative solutions for specific applications in the Microelectronics, Biopharmaceutical, Food and Beverage, Coatings and Inks, Process and Chemical industries.

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