POLY-MATE™ PM/PXD

Quality and economical filtration for food and beverage applications

Parker's Poly-Mate™ cartridges incorporate a unique combination of polypropylene meltblown and spunbonded media to provide high surface area, finish-free and non-fiber-releasing filtration. All-polypropylene construction maximizes chemical resistance to acids, bases, salts, and most organic solvents.

BENEFITS

- High efficiency rated for critical food and beverage applications (99% efficiency)
- High pleated surface area for extended service life, low pressure drop and high flow capacity
- Optional stainless steel O-ring adapter inserts provide added strength for in situ sterilization. Poly-Mate™ Xtra Duty cartridges are available with backwashable construction, reducing replacement maintenance and cartridge disposal costs
- Poly-Mate™ Xtra Duty (PXD) cartridge features glass-filled polypropylene core for high temperature and high pressure use with rigid outer cage supporting pleated media in backwash applications
- All materials of construction are FDA listed as acceptable for potable and edible liquid contact according to CFR Title 21.
- One-piece, continuous to 40 in length, integrally sealed, pleated filter media

APPLICATIONS

- Food & Beverage
- Deionized water
- R.O. membrane prefiltration
- Process water

SPECIFICATIONS

Materials of Construction:

Filter Media and Support Layers	Polypropylene
Cage	PM - polypropylene netting PXD - polypropylene cage
Support Core	PM - polypropylene PXD - glass-filled polypropylene

Recommended Operating Conditions:

Poly-Mate™ Cartridges

Changeout ΔP	35 psid (2.4 bar)
Maximum Temperature	200°F (93°C)
Maximum ΔP @ 70°F (21°C)	60 psid (4.1 bar)
Maximum ΔP @ 200°F (93°C)	10 psid (0.7 bar)

Poly-Mate Xtra-Duty™ Cartridges

Maximum Temperature	200°F (93°C) @ 35 psid (2.4 bar) Changeout ΔP 35 psid (2.4 bar)
Maximum ΔP @ 70°F (21°C)	90 psid (6.1 bar)
Maximum ΔP @ 200°F (93°C)	35 psid (2.4 bar)

Effective Filtration Area:

Up to 6.0 ft^2/10 in (0.6 m^2/254 mm)

Filtration Ratings:

99% at 0.5 µm, 1 µm, 5 µm, 10 µm, 30 µm, and 60 µm pore sizes

Recommended Maximum Flow Rate:

Maximum 10 gpm per 10 in length

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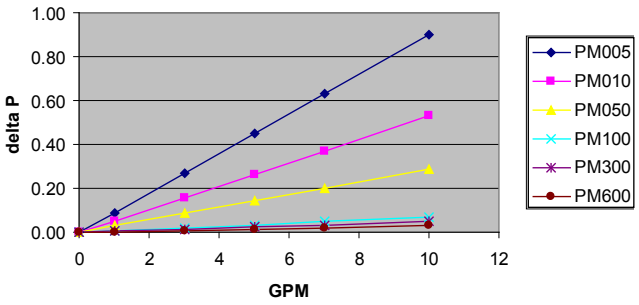
Maximum Recommended Flow Rate:
10 gpm per 10" length (9.5 lpm per 254 mm)

Poly-Mate™ PM/PXD Flow Factors
(psid/gpm @ 1 cks) per 10" cartridge

Rating (µm)	Flow Factor
0.5	0.0900
1.0	0.0530
5.0	0.0290
10.0	0.0068
30.0	0.0048
60.0	0.0030

Poly-Mate Flow vs. dP



ORDERING INFORMATION

Cartridge Code

CODE	TYPE
PM	Standard
PXD	Xtra Duty

Particle Removal Rating (µm)

CODE	(µm)
005	0.5
010	1.0
050	5.0
100	10.0
300	30.0
600	60.0

Nominal Length

CODE	INCH (mm)
9	9-5/8 (244)
10	9-13/16 (249)
19	19-5/8 (498)
20	19-15/16 (506)
29	29-1/4 (743)
30	30-1/16 (764)
39	39 (991)
40	40 (1016)

2.5" (62.5mm) diameter

Support Construction

CODE	DESCRIPTION
A	Natural Polypropylene (pm core only)
F	Glass Filled Polypropylene (core only)
G	304 Stainless Steel (core only)
N	Natural Polypropylene (All support components)
X	Coreless Cartridge

Seal Material

CODE	DESCRIPTION
A	Polyethylene Foam (DOE Gasket Only)
E	EPR
N	Buna-N
V	Viton®
S	Silicone
T	PFA Encapsulated Viton® (O-ring only)
V	Viton®
X	No Seal Material

End Cap Configuration

CODE	DESCRIPTION
AR	020 O-ring/Recessed Cap
DO	Double Open End (DOE)
DX	DOE With Core Extender
LL	120 O-ring/Recessed Cap
LR	120 O-ring/Recessed Cap
OB	Std. open end/ polypro Spring Closed End
PR	213 O-ring/Recessed Cap
SC	226 O-ring/Flat Cap
SF	226 O-ring/Fin
TC	222 O-ring/Flat 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

Special Options

CODE	DESCRIPTION
B	Bubble-Point Test
R	DI Water Rinse (5 minutes)
Z6	Individual Poly Bag only
Z15	Individual Poly Bag 15/ctn. (20", 30", 40") (PXD only)
Z30	Individual Poly bag 30/ctn. (10") (PXD only)

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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