POLYFLOW®

Pleated polypropylene absolute-rated depth cartridges with superior dirt-holding capacity

Polyflow®'s random fiber polypropylene depth media provides long on-stream life and high retention efficiencies. While many polypropylene depth media are nominally rated and cannot meet their actual claimed retention efficiency, Polyflow® is engineered to meet exacting performance claims.

Parker's innovative research team developed an exclusive calendering process that produces media with unsurpassed dirt-loading capacity. Before each lot of media is fabricated, the best calendering conditions are determined to ensure minimal lot-to-lot variability and peak product performance. The number of pleats for each filter rating has also been optimized to ensure maximum dirt-loading capacity and on-stream life.

Polyflow® is thermally bonded from 100% virgin polypropylene to ensure superior cleanliness and excellent chemical and thermal compatibility under harsh processing conditions.

BENEFITS

- Low extractables
- Absolute particle retention provides excellent protection for downstream filters
- Broad chemical compatibility allows use in most applications
- High flow rate, long service life reduces processing time

APPLICATIONS

- General water filtration
- Beverage/wine clarification
- RO/DI prefiltration
- Waste water

SPECIFICATIONS

Materials of Construction:

Depth media	Polypropylene
Support layers	Polypropylene
Structure	Polypropylene

Maximum Differential Pressure/Temperature:

Forward	80 psid (5.5 bar) @ 75°F (24°C)
Reverse	40 psid (2.8 bar) @ 75°F (24°C)
	15 psid (1.0 bar) @ 140°F (60°C)

Effective Filtration Area:

2.4 ft^2 (0.22 m^2)	5" (130 mm) cartridge
4.9 ft^2 (0.46 m^2)	10" (250 mm) cartridge

Filtration Ratings:

The 0.6 µm offers typical retention up to 99% efficiency. 1.2 µm, 2.5 µm, 5 µm, 10 µm, 20 µm, and 40 µm are up to 99.9% efficient at specified pore size

Filtration Cleanliness:

Cartridge extractables
NVR < 35 mg per 10 inch (250 mm) cartridge

Maximum Operating Temperature:

160°F (71°C)

Steam Sterilizable and Sanitizable:

Cartridges can be steam sterilized for multiple cycles at 266°F (130°C) or sanitized for at least ten 30-minute cycles with 176°F (80°C) water. They are compatible with most sanitizing agents.

POLYFLOW®

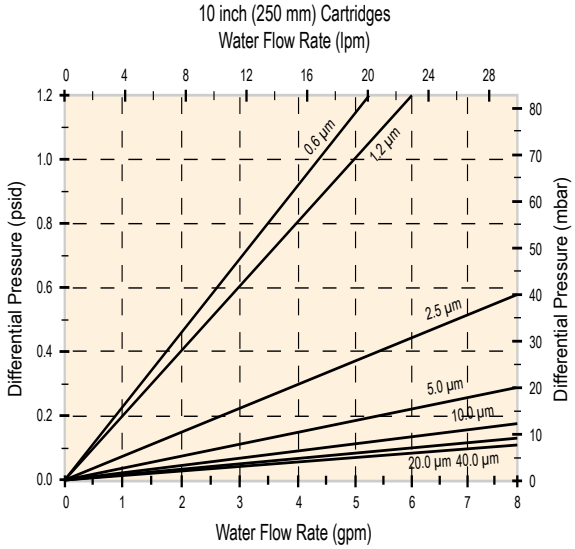
Pleated polypropylene absolute-rated depth cartridges with superior dirt-holding capacity

PERFORMANCE ATTRIBUTES

Water in Flow Rates, Typical *

0.6 µm	4.2 gpm/psid (23.3 lpm/100 mbar)
1.2 µm	5.0 gpm/psid (27.4 lpm/100 mbar)
2.5 µm	13.5 gpm/psid (74.1 lpm/100 mbar)
5.0 µm	26.0 gpm/psid (142.7 lpm/100 mbar)
10.0 µm	40.0 gpm/psid (219.6 lpm/100 mbar)
20.0 µm	50.0 gpm/psid (274.4 lpm/100 mbar)
40.0 µm	60.0 gpm/psid (329.3 lpm/100 mbar)

* Per 10-inch (250 mm) cartridge equivalent and for fluids with viscosity of 1cP



ORDERING INFORMATION

Each cartridge is identified with a product number, pore size and lot number for traceability.

22 – ☐ 0 ☐ ☐ – ☐ – ☐ ☐

Insert Style

CODE	DESCRIPTION
1	None (STD)
5	Encapsulated 316L Stainless Steel
6	Encapsulated Polysulfone
A	Shortened 222 1/2"

End Fitting

CODE	DESCRIPTION
0	DOE (CUNO®)
1	DOE
2	226/Flat
3	222/Flat
6	020/Internal/Flat
7	226/Fin
8	222/Fin
G	120/Internal/Recessed End cap
H	213/Recessed End cap (Ametek)
R	222/Recessed End cap

Nominal Length

CODE	INCH (MM)
05	5" (125)
10	10" (250)
20	20" (500)
30	30" (750)
40	40" (1,000)

Filter Rating

CODE	MICRON
006	0.6 µm
012	1.2 µm
025	2.5 µm
050	5.0 µm
100	10.0 µm
200	20.0 µm
400	40.0 µm

Gasket/O-rings

CODE	MATERIAL
0	Buna N
1	EPDM
2	Silicone
4	Viton®
5*	FEP Encapsulated Viton®
6*	FEP Encapsulated Silicone
N	None

*O-rings only

Thickness (Gaskets Only)

CODE	INCH (MM)
1	0.200" (5)
2	0.125" (3)
4	(1) 0.200" (5) &
5	(1) 0.125" (3)
N	No Gasket

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.

DISTRIBUTED BY:

Process Advanced Filtration Division
2340 Eastman Avenue
Oxnard, California, USA 93030
Toll Free: +1 877 784 2234
Phone: +1 805 604 3400
Fax: +1 805 604 3401
PAFsales@parker.com
www.parker.com

SPEC -22-P-FB Rev J 9/07