

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® has been engineered to meet exacting performance claims.

Parker Hannifin'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
- Non-pyrogenic for use in pharmaceutical applications

APPLICATIONS

- Solvent clarification
- · Recirculating liquids
- · General water filtration
- · Beverage/wine clarification
- · Reagent grade chemicals
- RO/DI pre-filtration
- Waste water

SPECIFICATIONS

Materials of construction

Depth media Polypropylene
Support layers Polypropylene
Structure Polypropylene

Effective filtration area

2.4ft² (0.22m²) 5" (130mm) cartridge 4.9ft² (0.46m²) 10" (250mm) cartridge

Filtration efficiency

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

Cartridge extractables

NVR < 35mg per 10" (250mm) cartridge

Maximum differential pressure/temperature

Forward 80psid (5.5bar) @ 75°F (24°C)

Reverse 40psid (2.8bar) @ 75°F (24°C)

15psid (1.0bar) @ 140°F (60°C)

Maximum operating temperature

160°F (71°C)



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PERFORMANCE ATTRIBUTES

Water in Flow Rates, Typical *

 0.6μm
 4.2gpm/psid (23.3lpm/100mbar)

 1.2μm
 5.0gpm/psid (27.4lpm/100mbar)

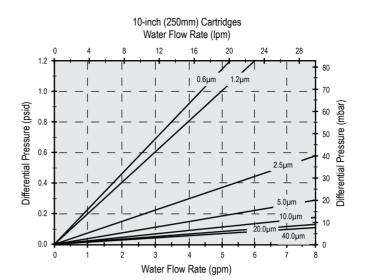
 2.5μm
 13.5gpm/psid (74.1lpm/100mbar)

 5.0μm
 26.0gpm/psid (142.7lpm/100mbar)

 10.0μm
 40.0gpm/psid (219.6lpm/100mbar)

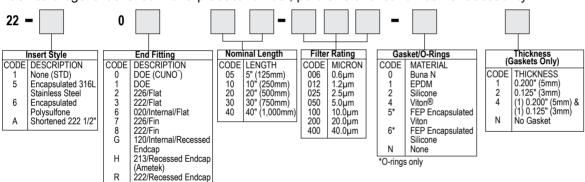
 20.0μm
 50.0gpm/psid (274.4lpm/100mbar)

 40.0μm
 60.0gpm/psid (329.3lpm/100mbar)



ORDERING INFORMATION

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



TECHNICAL SUPPORT AND PRODUCT INFORMATION

Parker Hannifin Corporation provides our customers with unsurpassed product consistency and cost-efficiency. Our experienced professionals can help you select the right solution for your application. For more information or to place an order, 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 your nearest Parker Hannifin Corporation office.

Parker Hannifin Corporation designs and manufactures an extensive line of innovative solutions for specific applications in the Microelectronics, Biopharmaceutical, Food and Beverage, Industrial and Chemical industries.

DISTRIBUTED BY:



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^{*} Per 10-inch (250 mm) cartrdige equivalent and for fluids with viscosity of 1cP.