HONEYCOMB™ ULTRAFINE CARTRIDGES

Multi-purpose filtration solutions with Parker's wound depth filter cartridges

Parker has been a leader in filter media innovation and performance since we first invented the Honeycomb™ Filter tube over 65 years ago. Parker has the world's largest manufacturing capacity for wound cartridges, offering superior quality with technical, engineering and marketing support.

Effective removal ratings at nominal 90% efficiency at 0.5 µm.

BENEFITS

- A broad range of media provides excellent compatibility with a variety of organic solvents, animal, petroleum and vegetable oils
- Optional core covers and end treatments assure fiber migration control
- Multiple-length cartridges minimize Changeout time, eliminate spacers, and are available to fit competitive filter vessels
- FDA grade polypropylene (DOE only) cartridges certified to ANSI/NSF61 standard for contact with drinking water
- Continuous strand-winding geometry provides performance consistency
- One-piece metal extended center core option eliminates need for cartridge guides in all competitive and Fulflo® multicartridge vessels
- A special snap-in extender is available for polypropylene cores
- Cotton, polypropylene materials are FDA listed as acceptable for potable and edible liquid contact according to CFR Title 21
- Various O-ring and end cap options are available

APPLICATIONS

- Prefilter for membranes
- Rinse water in semiconductor manufacturing
- Fine filtration for ultrasonic parts, washer solvents and other high-purity solvents
- Prefilter for industrial reverse osmosis equipment

SPECIFICATIONS

Nominal Removal Ratings:
@ 90% efficiency 0.5 µm

Maximum Recommended Operating Conditions:

Changeout ΔP	30 psi (2.1 bar)
ΔP @ Ambient Temperature	60 psi (4.1 bar)
Flow Rate	10 gpm (38 lpm) per 10 in length
Temperature	(See table on next page)

Dimensions:
1 in ID x 2-7/16 OD
3 in to 50-in lengths

Wound Depth Cartridge Design and Function

Wound cartridges provide true depth filtration utilizing thousands of tapered filtering passages of controlled size and shape. Each layer of roving contributes to true depth filtration by trapping its share of particles. Wound cartridges offer a gradual pressure increase during cartridge life versus surface-type media that have an abrupt flow cutoff when loaded. In addition, the irregular outer layer reduces surface blinding, assuring both longer cartridge life and full cartridge dirt-holding capacity utilization.

Ultrafine Wound Depth Cartridges for Critical Filtration Applications

Ultrafine cartridges are a unique member of the Honeycomb™ wound depth cartridge family. They are specifically designed for critical filtration applications in the 0.5 µm range. When absolute 0.5 µm filtration is required, the nominal ultrafine cartridge can be used as a prefilter, significantly extending membrane life. Ultrafine cartridges remove 90% of particles larger than 0.5 µm in size. This type of filtration provides excellent protection for equipment or processes that must be protected from fine particles.

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Multipurpose filtration solutions with Parker's wound depth cartridges

PERFORMANCE ATTRIBUTES

Maximum Operating Temperature @ 35 psid

Cartridge Material	Metal Core	Polypropylene Core	Glass-Filled Polypropylene
Cotton	250°F (121°C)	120°F (49°C)	—
Polypropylene	200°F (93°C)	120°F (49°C)†	200°F (93°C)
Rayon	250°F (121°C)	120°F (49°C)	—

Note: Refer Material Selection Guide for additional compatibility information.

Ultrafine Flow Factor

Cotton	2.6890
Polypropylene	0.9924

ORDERING INFORMATION

Filter Medium

CODE	DESCRIPTION
C	Cotton (FDA Grade)
E	Rayon (FDA Grade)
M	Polypropylene (FDA grade)

Nominal Length

CODE	INCH (MM)
9-4	9-7/8 (249)
10	10 (254)
19-4	19-1/2 (495)
20	20 (508)
29-4	29-1/4 (743)
30	30-3/16 (762)
39	39 (991)
40	40-3/16 (1016)

Core Material

CODE	DESCRIPTION
None	Tinned Steel
A	Polypropylene
A3	Glass Filled Polypropylene
G	304 Stainless Steel
S	316 Stainless Steel

Core Cover Material

CODE	DESCRIPTION
Blank	No Cover
B	Nylon
V	Non-Woven Polyester
W	Cellulosic Paper
Y	Polypropylene

End Cap Configuration

CODE	DESCRIPTION
None	DOE (without gaskets)
DO	DOE (With Gaskets)
TC	222/Closed
OB	Std. Open End/Polypro Spring Closed End
TF	222/Fin
SC	226/Closed
SF	226/Fin
XA	Polypro Extender
XB	Ex.Core Open End/Polypro Spring Closed End
XC	Extended Metal

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