POLYFLOW II Filter Cartridges

- liquid filters
- polypropylene



POLYFLOW II's random fibre 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 II has been engineered to meet exacting performance claims.

The all polypropylene construction ensures a broad range of chemical compatibility making POLYFLOW II cartridges particularly suitable for the filtration of aggressive and viscous chemicals and solvents. They do not suffer from hydrolysis in aggressive solutions which would result in the contamination of the process fluid.

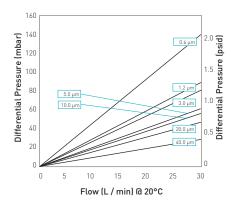
Extensive research has resulted in filter media with continuously graded fibre density giving progressively finer particulate retention through the depth of the media. This combined with optimised media pleating density gives POLYFLOW II cartridges exceptional lifetime performance.

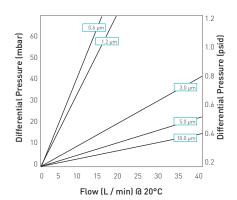
Features and Benefits

- Broad chemical compatibility allows use in most applications
- High retention efficiency provides excellent protection for downstream filters
- Available in 0.6 to 30 micron
- Available in Disposable and Demi format
- Absolute rated beta 10,000



Performance Characteristics





10" Size (250 mm) Cartridge

Demi Cartridge

Specifications

Materials of Construction

: Polypropylene Filtration Media ■ Upstream Support : Polypropylene Downstream Support : Polypropylene ■ Inner Support Core : Polypropylene ■ Outer Protection Cage : Polypropylene : Polypropylene Fnd Caps ■ End Cap Insert : Stainless steel (if applicable)

■ Standard o-rings/gaskets : Nitrile

Recommended Operating Conditions

Up to 70 °C (158 °F) continuous operating temperature and higher short-term temperatures during CIP to the following limits:

| Temperature °C °F | | Max. Forward dP (bar) (psid) | | |
|----------------------|--------------|---------------------------------|------|--|
| 20 | 68 | 5.0 | 72.5 | |
| 40 | 104 | 4.0 | 58.0 | |
| 60 | 140 | 3.0 | 43.5 | |
| 80 | 176 | 2.0 | 29.0 | |
| 90 | 194 | 1.0 | 14.5 | |
| >100 (steam) | >212 (steam) | 0.3 | 4.0 | |

Steam Sterilisation

POLYFLOW II cartridges can be repeatedly steam sterilised in situ or autoclaved at up to 130°C (266°F). They can be sanitised with hot water at up to 80°C (176°F). Demi cartridges and capsules can be autoclaved for up to 25 cycles (30 minutes) at 135°C (275°F). They are all compatible with most sanitising agents.

Recommended Rinse Volume

Prior to use - 10 litres per 10" (250 mm) filter cartridge.

Effective Filtration Area (EFA)

10" (250 mm) 0.5 m² (5.38 ft²)

Retention Characteristics

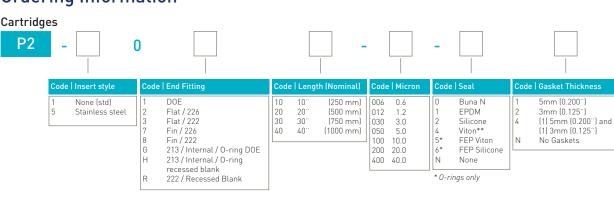
The retention characteristics of POLYFLOW II have been determined by a single-pass technique using suspensions of ISO 12103 Part 1 A2 Fine and A4 Course test dust in water.

| Media Code | Micro >99.99% 10000 | n Rating a 99.98% 5000 | t Various E 99.90% 1000 | fficiencies 99% 100 | 90% 10 |
|---------------|---------------------------|------------------------------|-------------------------------|---------------------------|-----------|
| 006 | 0.60 | 0.57 | 0.54 | 0.32 | 0.20 |
| 012 | 1.20 | 0.95 | 0.90 | 0.70 | 0.50 |
| 030 | 3.00 | 2.80 | 1.80 | 1.00 | 0.70 |
| 050 | 5.00 | 4.70 | 4.50 | 3.50 | 1.00 |
| 100 | 10.00 | 8.00 | 7.00 | 4.80 | 2.80 |
| 200 | 20.00 | 16.00 | 14.00 | 10.00 | 6.00 |
| 400 | 40.00 | 32.00 | 28.00 | 20.00 | 12.00 |

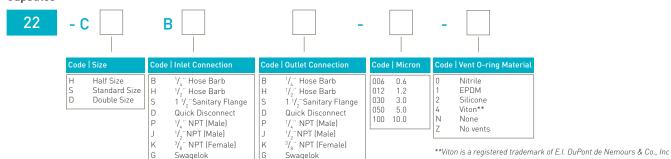
Applications

- Recirculating liquid
- General water filtration Reagent-grade chemicals
- Final product clarification Feedstock filtration

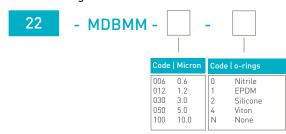
Ordering Information



Capsules



Demi Cartridges



Parker domnick hunter has a continuous policy of product development and although the Company reserves the right to change specifications, it attempts to keep customers informed of any alteration. This publication is for general information only and customers are requested to contact our Process Filtration Sales Department for detailed information and advice on a products suitability for specific applications. All products are sold subject to the company's Standard conditions of sale.







WE ARE YOUR 'ONE STOP SHOP' FOR ALL OF YOUR FILTRATION REQUIREMENTS

LIQUID FILTRATION

- CARTRIDGES
- FILTER BAGS
- VESSELS
- STRAINERS

AIR FILTRATION

- VENT FILTERS
- STERILE AIR
- VACCUM
- AIR-CONDITIONING
- FILTER MEDIA

DOMESTIC

- ULTRAVIOLET
- TREATMENT OF BOREHOLES, SPRINGS & WELLS
- WATER TESTING

FUEL FILTRATION

• DIESEL, AVIATION



Prosep Filter Systems Ltd Unit G19, River Bank Way, Lowfields Business Park, Elland, West Yorkshire HX5 9DN Phone: 01422 377367 email: sales@prosep.co.uk www.prosep.co.uk





