

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
- Available in 0.6 to 30 micron

Demi format

- High retention efficiency provides excellent protection for downstream filters
- Available in Disposable and
- Absolute rated beta 10,000

POLYFLOW II Filter Cartridges

- liquid filters
- polypropylene



Performance Characteristics



Specifications

Materials of Construction

- Filtration Media
- Upstream Support
- Downstream Support
- Inner Support Core
- Outer Protection Cage
- End Caps
- End Cap Insert
- (if applicable)
- Standard o-rings/gaskets : Nitrile

Recommended Operating Conditions

: Polypropylene

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

Liquid clarification

Recirculating liquid

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

Ordering Information

