

PROPLEAT PP

Liquid Filters

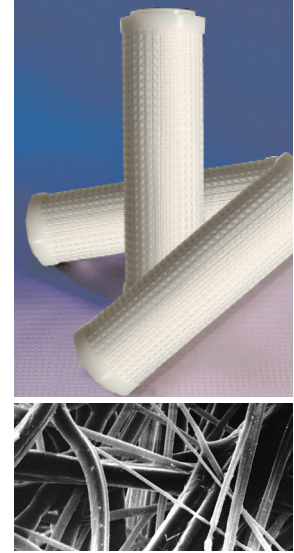
High surface area and service life compared to similarly rated melt blown depth filters

Continuous length rigid sleeve and core provide high strength during normal and reverse flow operations

Retention ratings to suit wide range of clarification applications

Excellent chemical compatibility

Elevated temperature option available for hot water sanitisation and steam sterilisation

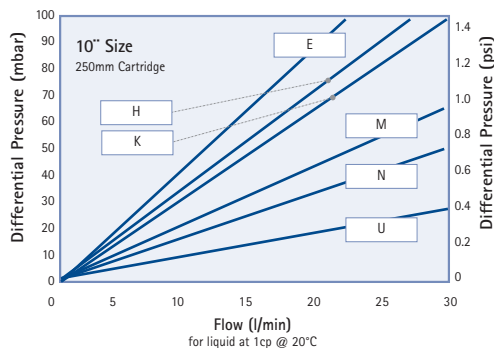


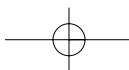
Product Information

PROPLEAT PP cartridges have been developed to bridge the gap between meltblown depth filters and absolute rated pleated media filters. Their continuous length and all-polypropylene construction results in a robust yet economical design that maximises the effective filtration area and provides wide chemical compatibility, coupled with low extractable levels.

All PROPLEAT PP cartridges exhibit 99% efficiency at their given retention rating, providing consistent and economical clarification in a diverse range of applications.

Cartridge Flow Rates





Materials of Construction

Filtration Media	: Polypropylene
Upstream Support	: Polypropylene
Downstream Support	: Polypropylene
Inner Protection Core	: Polypropylene
Outer Protection Sleeve	: Polypropylene
End Caps	: Polypropylene
Standard 'O'rings/gaskets	: Silicone/EPDM

Food and Biological Safety

Materials conform to the relevant requirements of 21CFR Part 177 and current USP Plastics Class VI - 121°C and ISO10993 equivalents.

Effective Filtration Area

Up to 2.2m² (23.2ft²) per 1000mm (40") cartridge.

Retention Characteristics

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

Media Code	99% and Approximate Ratings at Lower Efficiencies		
	99%	95%	90%
B ratio	100	20	10
E	1	0.8	0.6
H	3	2.3	2.0
K	5	4.5	3.5
M	10	9	7
N	20	13	10
U	40	30	25

Recommended Operating Conditions

Up to 60°C continuous operating temperature and higher short-term temperatures during CIP to the following limits:

Temperature (°C)	Maximum Forward dp		Maximum Reverse dp ⁽¹⁾	
	(bar)	(psi)	(bar)	(psi)
20	4.0	58	2.0	29
40	3.0	44	1.5	22
60	2.0	29	1.0	15
80	1.0	15	0.5	7
90	0.5	7	not recommended	
>100 (steam)	0.3	4	not recommended	

Cleaning and Sterilisation

PROPLEAT PP cartridges can be repeatedly in situ steam sterilised or autoclaved up to 121°C (250°F). They can be sanitised with hot water up to 90°C (194°F) and are compatible with a wide range of chemicals.

Recommended Rinse Volume

Prior to use - 3 litres per 10" cartridge

Minimum Box Quantities

All cartridges supplied in boxes of 6

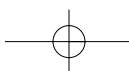
Dimensions

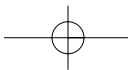
Nominal Outside Diameter : 70mm (2.8") C,D,E,R style
64mm (2.5") B,L style

Nominal Inside Diameter : 28mm (1.1")

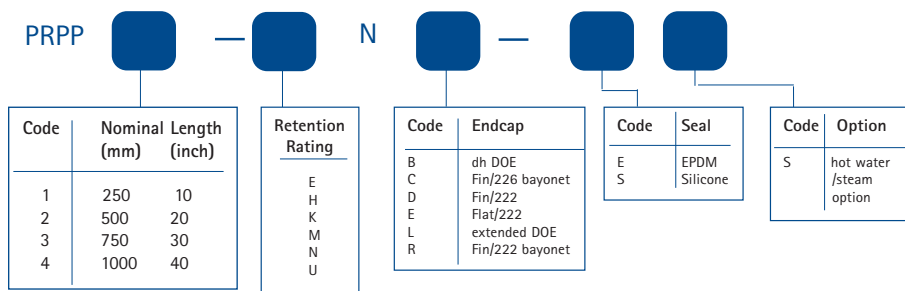
Standard Lengths (DOE seal to seal) - mm (in)

Length	B Style	L Style
1	250 (9 ⁷ / ₈)	250 (9 ⁷ / ₈)
2	498 (19 ¹ / ₂)	508 (20)
3	746 (29 ³ / ₈)	766 (30 ¹ / ₈)
4	994 (39 ¹ / ₈)	1014 (40)





Selection



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