



## PROPLEAT PP Filter Cartridges

- liquid filters
- polypropylene

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.

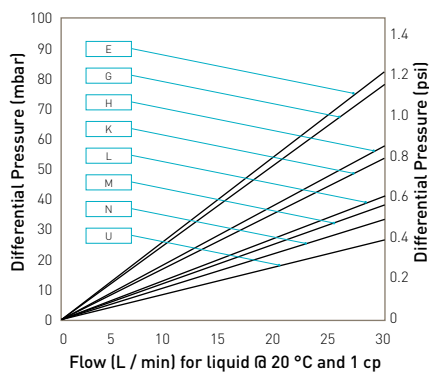
All PROPLEAT PP cartridges exhibit 99% efficiency at their given retention rating, providing consistent and economical clarification in a diverse range of applications.

### Features and Benefits

- Continuous length rigid sleeve and core provide high strength during normal and reverse flow operations
- Retention ratings to suit a wide range of clarification applications
- Excellent chemical compatibility
- Elevated temperature option available for hot water sanitisation and steam sterilisation



### Performance Characteristics



Cartridge flow rates

## Specifications

### Materials of Construction

- Filtration Media: Polypropylene
- Upstream Support: Polypropylene
- Downstream Support: Polypropylene
- Inner Support Core: Polypropylene
- Outer Protection Cage: Polypropylene
- End Caps: Polypropylene
- End Cap Insert (if specified): 316L Stainless Steel
- Standard o-rings/gaskets: Silicone / EPDM

### Food and Biological Safety

Materials conform to the relevant requirements of 21CFR Part 177, EC1935 / 2004 and current USP Plastics Class VI - 121 °C and ISO10993 equivalents.

### Recommended Operating Conditions

Up to 60 °C (140 °F) continuous operating temperature and higher short-term temperatures during CIP to the following limits:

Temperature °C	Temperature °F	Max. Forward dP (bar)	Max. Forward dP (psil)
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

### Effective Filtration Area (EFA)

40" (1000 mm) 2.2 m<sup>2</sup> (23.2 ft<sup>2</sup>)

### Cleaning and Sterilisation

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

For detailed operational procedures and advice on cleaning and sterilisation, please contact the Technical Support Group through your usual Parker domnick hunter contact.

### Retention Characteristics

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

Media9 Code Ø ratio	99% & approximate ratings at lower efficiencies		
	99% 100	95% 20	90% 10
E	0.8	0.7	0.6
G	1.0	0.9	0.7
H	3.5	2.3	1.0
K	4.8	3.8	2.8
L	7.2	6.0	4.5
M	10.0	8.0	6.0
N	12.0	9.0	7.0

### Recommended Rinse Volume

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

### Minimum Box Quantities

All cartridges supplied in boxes of 6.

### Dimensions

- Nominal Outside Diameter:  
2.8" (70 mm) C,D,E,R Style  
2.5" (64 mm) B,L Style
- Nominal Inside Diameter:  
1.1" (28 mm)

### Standard Lengths (DOE seal to seal) - mm (inch)

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

## Ordering Information

PRPP			-		N		-			
Code   Length (Nominal)		Retention Rating		Code   Endcap (10")		Code   Seal		Code   Option		
1	10" (250 mm)	E		B	dh DOE	E	EPDM	S Hot Water / Steam Option		
2	20" (500 mm)	G		C	BF / 226 Bayonet	S	Silicone			
3	30" (750 mm)	H		D	Fin / 222					
4	40" (1000 mm)	K		E	Flat / 222					
		L		L	Extended DOE					
		M		R	Fin / 222 Bayonet					
		N								
		U								