

Materials of construction

Filter Media:	Polyethersulfone
Support Media:	Polypropylene
End Cap:	Polypropylene
Core:	Polypropylene
Cage:	Polypropylene
Seal:	Silicone (EPDM/Viton)

Construction notes

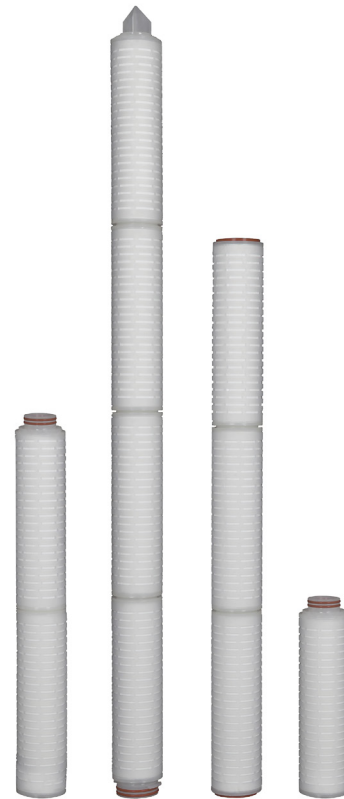
- Cartridges are formed around a polypropylene core, with the media protected by a polypropylene cage and thermally welded end caps
- The absolute rated graded density membrane used in the PPES ensures 99.99999% retention of bacteria

Construction notes

- WRAS approved
- BS6920 compliant
- FDA approved materials meeting test certificate for USP Class VI - 121°C plastics

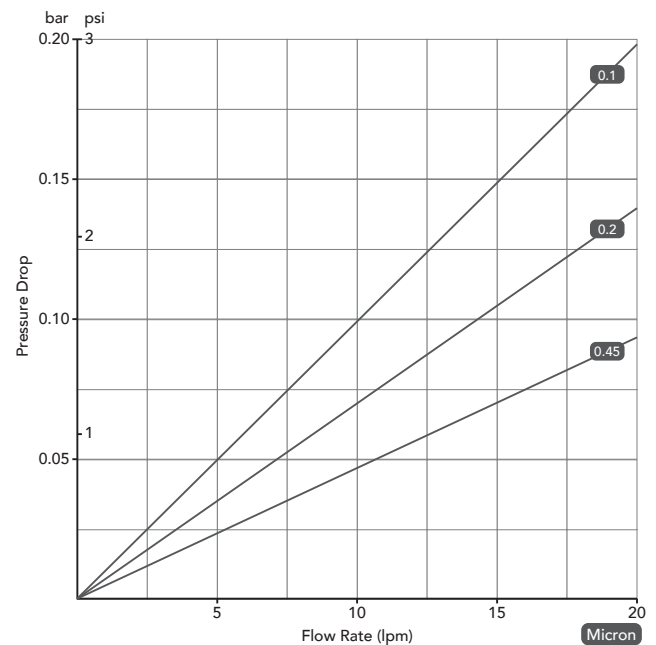
Technical Data

Micron Ratings	0.1, 0.2, 0.45µm
Lengths	9¾, 10, 20, 30, 40"
Outer Diameter	2.7"
Inner Diameter	1.2"
Surface Area per 10"	0.6m ²
pH Range	2 - 13
Maximum Operating Temperature at Pressure	82°C at 1bar
Maximum Sterilising Temperature	121°C 20 x 30 minute cycles
Maximum Operating Pressure Differential	4bar
Maximum Reverse Pressure Differential	2bar
Avg. Efficiency	99.99999% (log 7)



Flow Rate vs Pressure Drop

Pressure drop data obtained using water at 20°C per 10" filter. Data represented using its micron rating in the chart below.



Integrity Test Data

PPES filters have been integrity tested using EDI water. The cartridges are integrity tested to the following parameters.

Diffusional Flow Test Parameters	Micron Rating - PPES 10"			
	0.1	0.2	0.45	0.65
Beginning of Bubble Point (bar)	4.8	3.5	2.1	1.2
Diffusional Flow	≤25ml/min @ 3.9bar	≤35ml/min @ 2.76bar	≤25ml/min @ 1.7bar	≤25ml/min @ 1.0bar

End Cap Options

Standard Filter Length (")	Total Filter Length Including End Cap Configurations (nominal mm) ±2mm								
	AA	CG	EG	EH	FG	FH	MH	QG	ZH
9/4	248	-	-	-	-	-	-	-	-
10	-	243	270	310	270	310	310	270	310
20	508	500	519	560	520	561	565	519	561
30	750	-	769	812	770	815	815	769	815
40	1000	-	1018	1060	1019	1062	1065	1018	1062

Premier Pleat Range

Also available from the SPECTRUM Premier Pleat family:

- Premier Pleat Polypropylene (PPP)
- Premier Pleat Glass Fibre (PPG)
- Premier Pleat Polyethersulfone (PPES)
- Premier Pleat High Flow Polypropylene (PPP-HF)
- Premier Pleat High Flow Glass Fibre (PPG-HF)