

Technical Data

Micron Ratings μm	1, 3, 5, 10, 20, 40
Lengths "	9 $\frac{3}{4}$, 10, 20, 30, 40
Outer Diameter " (mm)	2.7 (69)
Inner Diameter " (mm)	1.2 (30.4)
Surface Area m^2 (ft^2)	0.3 (3.2)
Maximum Operating Temperature $^{\circ}\text{C}$ ($^{\circ}\text{F}$)	80 (176) @ 1 bar (15psi)
Maximum Operating Pressure Differential bar (psi)	4 (58) @ 21 $^{\circ}\text{C}$ (70 $^{\circ}\text{F}$) 2.4 (35) @ 80 $^{\circ}\text{C}$ (176 $^{\circ}\text{F}$)
Average Efficiency	99%



Materials of Construction

Filter Media:	Polypropylene
Support Media:	Polypropylene
Core:	Polypropylene
Cage:	Polypropylene
End-cap:	Polypropylene
Seal:	Silicone (EPDM/Viton)

Construction Notes

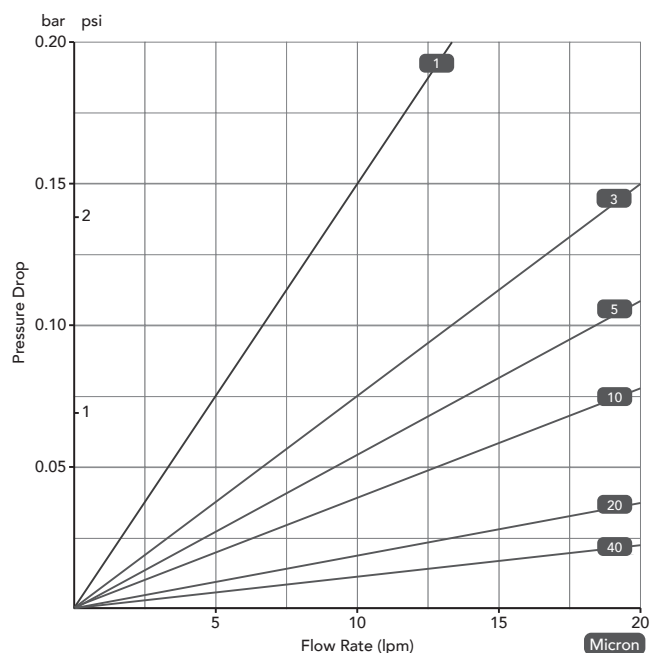
1. Constructed from melt-blown filter media that provides removal of particles from 1 μm to 40 μm .
2. Increased pleat pack depth provides higher dirt holding capacity.
3. Cartridges are formed around a polypropylene core, with the pleat pack protected by a polypropylene cage and thermally welded end caps ensuring no leaching of adhesives into the filtrate.
4. Individually lot coded, labelled and boxed for security and ease of product identification and traceability.

Quality Standards

WRAS approved materials
BS6920 compliant
FDA approved materials
USP class VI - 121 $^{\circ}\text{C}$ plastics

Flow Rate vs Pressure Drop

Pressure drop data obtained using water at 20 $^{\circ}\text{C}$ per 10" filter. Data represented using its micron rating in the chart below.



Particle Retention Efficiency

The removal efficiency of a filter is dependent on the criteria at which it is tested, along with the size and type of particulate challenge. The below table shows the efficiency of each PPDP, when using particulate count analysis with AC Fine and AC Course Test Dust at various particulate challenges.

Cartridge Micron	Retention Efficiency (%)										
	0.1µm	0.2µm	0.45µm	1µm	3µm	5µm	10µm	20µm	30µm	50µm	100µm
1	95	96	98	99	99+						
3	92	95	97	98	99	99+					
5	83	90	95	97	98	99	99+				
10		82	91	95	96	97	99	99+			
20				80	88	95	97	99	99+		
40						86	95	97	98	99	99+

Dimensions

Part Code Length	Total Filter Length Including End Cap Configurations (nominal mm) ±2mm					
	AA	CG	EG	EH	FG	FH
9¾	248	-	-	-	-	-
10	-	243	270	310	270	310
20	508	500	519	560	520	561
30	750	-	769	812	770	815
40	1000	-	1018	1060	1019	1062

Part Number Guide

Product	Micron Rating µm	Length "	End-cap	Seal Material
PPDP	1 3 5 10 20 40	9¾ 10 20 30 40	AA - DOE with flat gaskets CG - 213 / Closed Recessed End EG - 222 / Closed Recessed End EH - 222 / Fin FG - 226 / Closed Recessed End FH - 226 / Fin	S - Silicone E - EPDM V - Viton

e.g. PPDP-1-9¾/4AAS