



PEPLYN NE Filter Cartridges

- liquid filters
- polypropylene

PEPLYN NE liquid filter cartridges are designed for use in the microelectronics industry for filtration of water, process chemicals, photochemicals, solvents and etchants.

PEPLYN NE filters resist hydrolysis in aggressive solutions which would otherwise result in the contamination of the process fluid. The filter media has graded fibre diameter and density, resulting in progressively finer retention through the depth of the media. This graded density depth mechanism, combined with optimized pleated pack configuration and high surface area, affords high flow capability and exceptional dirt holding capacity when compared with competitive pleated cartridges and meltblown depth filters. PEPLYN NE provides consistent retention and stability over a wide range of operating conditions.

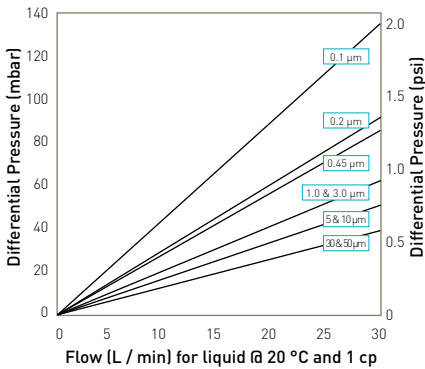
Features and Benefits

- Nominal micron ratings ranging from 0.1 to 50 micron
- Graded density for excellent particle retention
- Pleated media for high flow rates and long life
- All polypropylene construction
- Wide range of end caps to provide retrofitting of existing systems



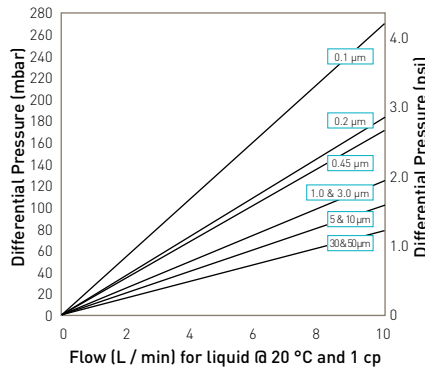
Note: PEPLYN is a registered trademark of Parker domnick hunter

Performance Characteristics



For K size for a given flow rate multiply 10" size differential pressure by 2

10" Size (250 mm) Cartridge



For A size for a given flow rate divide B size differential pressure by 2
For E size for a given flow rate multiply B size differential pressure by 2

B Size (65 mm) Cartridge

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 applicable): 316L Stainless Steel*
*Not available in B & L endcap variants
- Standard o-rings/gaskets: EPDM
- Capsule Body: Polypropylene
- Capsule Vent Seals: EPDM

Recommended Operating Conditions

Up to 70 °C (158 °F) continuous operating temperature and higher short-term temperatures during CIP to the following limits:

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

10" (250 mm) Up to 0.79 m² (8.50 ft²)

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.

Capsules can be operated at a temperature of 40 °C (104 °F) at line pressures up to 5.0 barg (72.51 psig) for liquids.

Ordering Information

Cartridges



Code Length (Nominal)	Code Micron	Code Endcap (10")	Code O-rings
B* 2.5" (65 mm)	.10 0.1 µm	B dh DOE	E* EPDM
A* 5" (125 mm)	.20 0.2 µm	C BF / 226 Bayonet	P PTFE Encapsulated Silicone
K 5" (125 mm)	.45 0.45 µm	D Fin / 222	S Silicone
1 10" (250 mm)	1.0 1.0 µm	E Flat Top / 222	V Viton
2 20" (500 mm)	003 3.0 µm	G Recess / 222	
3 30" (750 mm)	005 5.0 µm	H UF Retrofit	
4 40" (1000 mm)	010 10.0 µm	J SOE (no o-ring)	
	030 30.0 µm	L dh DOE	
	050 50.0 µm	N Internal 213	
		R BF / 222 Bayonet	

* Supplied in packs of 3.

*EPDM o-ring supplied as standard without having to specify the 'E' code.

Code Endcap (Demi)
T TRUESEAL
Y Demi Stub
Z Demi A & B Std

Capsules



Code Length (Nominal)	Code Micron	Code Inlet Connection	Code Outlet Connection	Code Variant	Code Grade	Code Pack N°
E 4.4" (113 mm)	.10 0.1 µm	T 1" Tri-Clamp	T 1" Tri-Clamp	E Electronics	N Non Sterile	3 Pack of 3
B 5.5" (140 mm)	.20 0.2 µm	N 1/2" NPT Male	N 1/2" NPT Male	P Pharmaceutical		
A 7.9" (200 mm)	.45 0.45 µm	H 1/2" Hosebarb	H 1/2" Hosebarb			
	1.0 1.0 µm	G Stepped Hosebarb	G Stepped Hosebarb			
	003 3.0 µm	M 1/4" NPT Male	M 1/4" NPT Male			
	005 5.0 µm	V 3/8" NPT Female	V 3/8" NPT Female			
	010 10.0 µm					
	030 30.0 µm					
	050 50.0 µm					