



# 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 optimised 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.

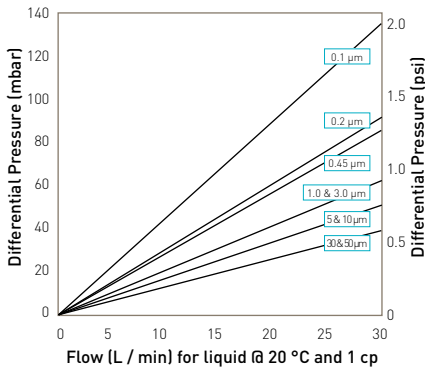
## Features and Benefits

- Micron ratings range 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



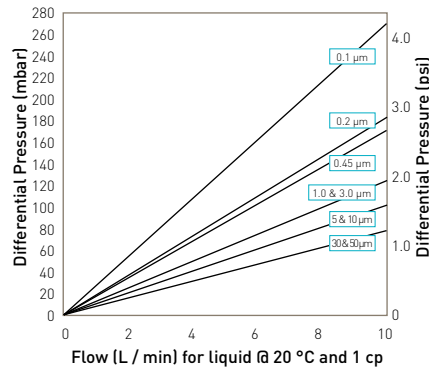
Note: PEPLYN is a registered trademark of Parker domnick hunter

## 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): Polypropylene
- Standard o-rings/gaskets: EPDM
- Capsule Body: Polypropylene
- Capsule Vent Seals: Silicone

### 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 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

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 and 4.0 barg (58.01 psig) in gas applications.

### Effective Filtration Area (EFA)

10" (250 mm) 0.79 m<sup>2</sup> (8.50 ft<sup>2</sup>)

### Recommended Rinse Volume

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

## Ordering Information

### Cartridges

**ZCNE** [ ] - [ ] [ ] - / [ ]

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
K	5" (125 mm)	.45	0.45 µm	G	Recess / 222	S	Silicone
1	10" (250 mm)	1.0	1.0 µm	R	BF / 222 Bayonet	V	Viton
2	20" (500 mm)	003	3.0 µm				
3	30" (750 mm)	005	5.0 µm				
4	40" (1000 mm)	010	10.0 µm				
		030	30.0 µm				
		050	50.0 µm				
				Code	Endcap (Demi)		
				T	TRUESEAL		
				Y	Demi Stub		
				Z	Demi A & B Std		

### Capsules

**ZENE** [ ] - [ ] [ ] [ ] - [ ] **N** [ ]

Code	Length (Nominal)	Code	Micron	Code	Inlet Connection	Code	Outlet Connection	Code	Variant	Code	Pack N°
E	4.4" (113 mm)	.10	0.1 µm	T	1" Tri-Clamp	T	1" Tri-Clamp	E	Electronics	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								

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