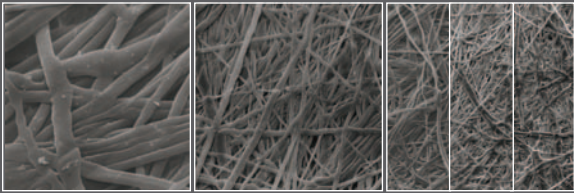


## PEPLYN HD



- Raw water filtration for the protection of downstream process such as RO membranes
- Trap filtration removing pre-coat and body fed particles that have been released from powder filters
- Removal of carbon and resin fines downstream from treatment processes



The two ways to increase the lifetime of a filter are to increase the amount of contamination it can handle, or to improve the effectiveness of cleaning procedures. PEPLYN HD combines both of these capabilities in an advanced pleated construction. PEPLYN HD utilises high depth pleated polypropylene media that balances high contaminant loading capacity with efficient cleaning.

Capture of particles is throughout the depth of the media, larger particles being retained in the outer pre-filtration layers, whilst the inner graded density PEPLYN media provides accurately defined retention under wide extremes of operating conditions. The lifetime of PEPLYN HD is enhanced by its ability to withstand frequent backwash cleaning.

available formats



## Technical Specifications

### Materials of Construction

Prefiltration Media	: Polypropylene
Filtration Media	: Polypropylene
Upstream Support	: Polypropylene
Downstream Support	: Polypropylene
Inner Support Core	: Polypropylene
Outer Protection Cage	: Polypropylene
End Caps	: Polypropylene
Endcap Insert (if applicable)	: 316 Stainless Steel
Standard o-rings/gaskets	: Silicone/EPDM
Capsule Body	: Polypropylene
Capsule Vent Seals	: Silicone

### Food and Biological Safety

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

### Effective Filtration Area

Up to 0.3 m<sup>2</sup> (3.2 ft<sup>2</sup>) per 250 mm (10" module).

### Retention Characteristics

The retention characteristics of PEPLYN HD cartridges have been determined by a single-pass technique using suspensions of ISO 12103 Pt 1 A2 Fine and A4 Coarse test dust in water.

Approx micron ratings at given removal efficiencies and B ratio						
Efficiency	>99.99%	99.98%	99.90%	99%	95%	90%
B ratio	10000	5000	1000	100	20	10
H	4.8	4.0	3.2	2.6	1.9	1.6
K	9.0	8.2	6.9	5.0	3.7	3.4
L	12	10	7.8	5.9	4.6	4.0
M	14	10	9.2	6.9	6.1	5.0
N	17	14	12	9.0	7.0	6.0
P	22	18	15	12	9.4	6.8

### Recommended Operating Conditions

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

Temperature		Maximum Forward dP	
°C	°F	(bar)	(psi)
20	68	5.0	73
40	104	4.0	58
60	140	3.0	44
80	176	2.0	29
90	194	1.5	15
>100 (steam)	>212 (steam)	0.3	4

Capsules may be operated up to a temperature of 40°C (104°F) at line pressures up to 5.0 bar (73 psig) for liquid applications and 4.0 barg (58 psig) for gas applications.

### Cleaning and Sterilisation

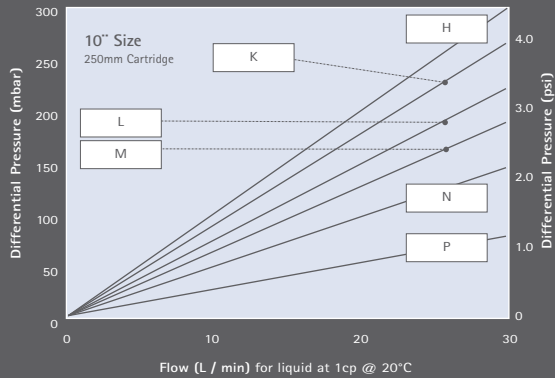
PEPLYN HD cartridges can be repeatedly steam sterilised in situ or autoclaved at up to 135°C (275°F). They can be sanitised with hot water at up to 90°C (194°F) and are compatible with a wide range of chemicals. Capsules can be repeatedly autoclaved up to 135°C (275°F).

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

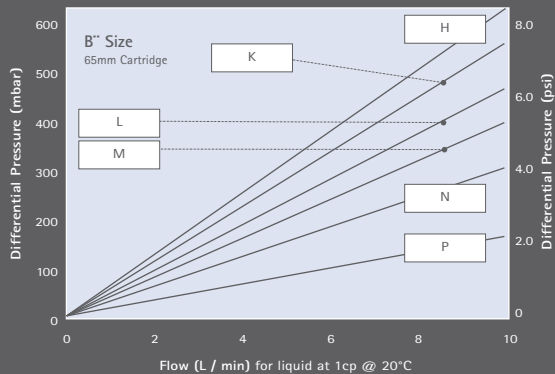
### Recommended Rinse Volume

Prior to use - 10 litres per 10" cartridge.

## Cartridge Flow Rates

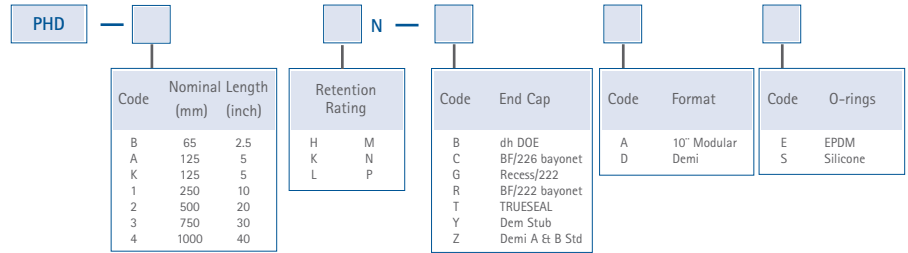


For K size for a given flow rate multiply 10" size differential pressure by 2

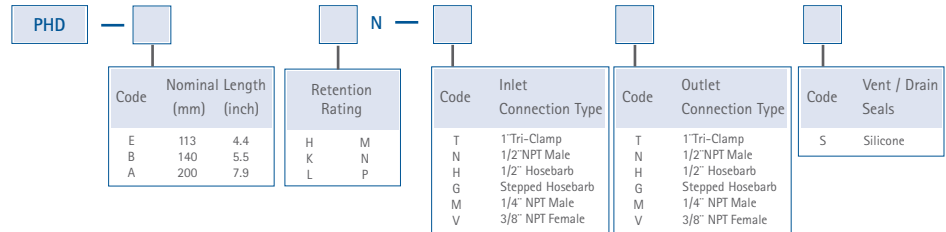


For A size for a given flow rate divide B size differential pressure by 2  
For E size for a given flow rate multiply B size differential pressure by 2

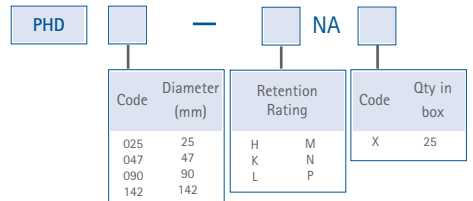
### Cartridges



### Capsules



### Discs



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