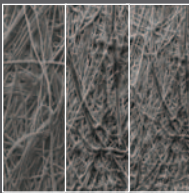


PEPLYN HA



- Ideally suited for raw water filtration where the longevity of the filter can be enhanced by repetitive backwashing
- Trap filtration (also known as police or guard filtration) removing precoat and body fed particles that have been released from powder filters, for example in a brewing process
- Removal of carbon and resin fines downstream from treatment processes
- Clarification of CIP solutions prior to their use with fine pre-filter cartridges and microporous membranes



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 HA combines both of these features in its advanced pleated construction.

PEPLYN HA utilises polypropylene filter media and support materials, which balance a high surface area and closely controlled porosity, in a configuration that maximises the cleaning efficiency of the cartridge.

Capture of larger particles is predominantly on the surface of the media, where the rigid, open pleat structure ensures that backwash cleaning provides effective removal. Smaller particles are retained throughout the depth of the graded density PEPLYN media, providing accurately defined retention under wide extremes of operating conditions.

available formats



Technical Specifications

Materials of Construction

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
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 0.7 m² (5.0 ft²) per 250 mm (10" module).

Retention Characteristics

The retention characteristics of PEPLYN HA 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	10	
E	1.5	1.4	1.1	0.80	0.70	0.60
G	3.0	2.8	1.8	1.0	0.9	0.70
H	5.0	4.7	4.5	3.5	2.3	1.0
J	7.0	6.7	6.3	4.5	3.5	2.5
K	10.0	8.0	7.0	4.8	3.8	2.8
L	15	12	10	7.2	6.0	4.5
M	20	16	14	10	8	6.0
N	25	20	17	12	9	7.0
P	32	27	24	18	13	10
T	50	40	34	28	20	17
U	70	55	50	40	30	25
W	125	100	80	70	50	40

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

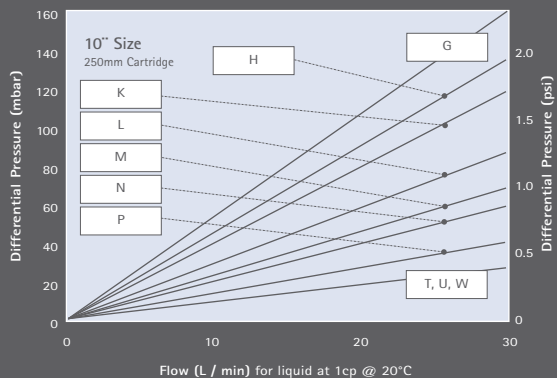
PEPLYN HA cartridges can be repeatedly steam sterilised in situ or autoclaved at up to 135°C (275°F). They can be sanitised with hot water at up to 90°C (194°F) and are compatible with a wide range of chemicals. Capsules can be repeatedly autoclaved up to 135°C (275°F).

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

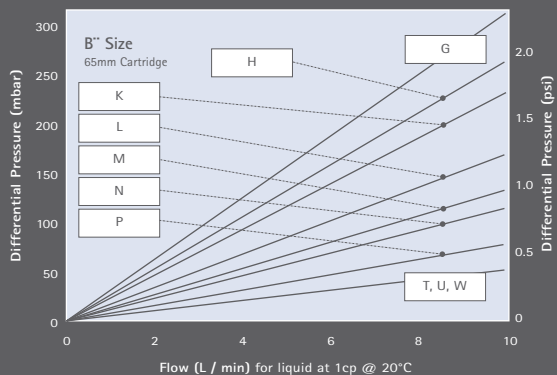
Recommended Rinse Volume

Prior to use - 10 litres per 10" cartridge.

Cartridge Flow Rates

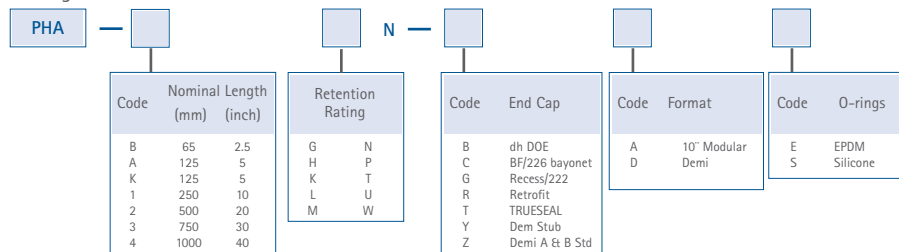


For K size for a given flow rate multiply 10" size differential pressure by 2

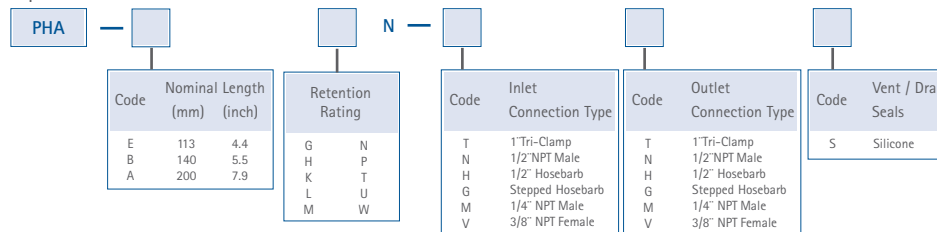


For A size for a given flow rate divide B size differential pressure by 2
For E size for a given flow rate multiply B size differential pressure by 2

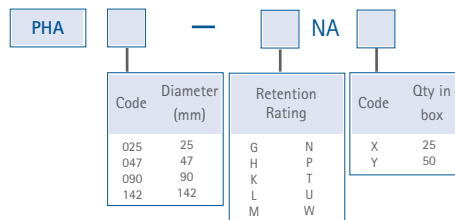
Cartridges



Capsules



Discs



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