PEPLYN HA Filter Cartridges

- liquid filters
- polypropylene

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

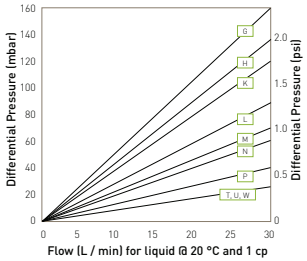
Capture of larger particles is predominantly on the surface of the media, where the rigid, open pleat structure ensures that backwash cleaning provides effective removal. Smaller particles are retained throughout the depth of the graded density PEPLYN media, providing accurately defined retention under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

Features and Benefits

- 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 prefilter cartridges and microporous membranes

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

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:	Silicone / 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 °C	Temperature °F	Max. Forward dP (bar)	Max. Forward dP (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 may be operated up to a temperature of 40 °C (104 °F) at line pressures up to 5.0 barg (72.51 psig) for liquids.

Effective Filtration Area (EFA)

10˝ (250 mm) Up to 0.7 m² (7.53 ft²)

Cleaning and Sterilization

PEPLYN HA cartridges can be repeatedly steam sterilized in situ or autoclaved at up to 135 °C (275 °F). They can be sanitized 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).

Retention Characteristics

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

Efficiency / Beta Ratio	Micron Rating at Various Efficiencies >99.99% 10000	99.98% 5000	99.90% 1000	99% 100	95% 20	90% 10
D	1.00	0.95	0.90	0.70	0.60	0.50
E	1.50	1.40	1.10	0.80	0.70	0.60
G	3.00	2.80	1.80	1.00	0.90	0.70
H	5.00	4.70	4.50	3.50	2.30	1.00
K	10.00	8.00	7.00	4.80	3.80	2.80
L	15.00	12.00	10.00	7.20	6.00	4.50
M	20.00	16.00	14.00	10.00	8.00	6.00
N	25.00	20.00	17.00	12.00	9.00	7.00
P	32.00	27.00	24.00	18.00	13.00	10.00
T	50.00	40.00	34.00	28.00	20.00	17.00
U	70.00	55.00	50.00	40.00	30.00	25.00
W	125.00	100.00	80.00	70.00	50.00	40.00

Ordering Information

Cartridges

PHA - □ □ □ - □ □ □

Code	Length (Nominal)		
B*	2.5˝	(65 mm)	
A*	5˝	(125 mm)	
K	5˝	(125 mm)	
1	10˝	(250 mm)	
2	20˝	(500 mm)	
3	30˝	(750 mm)	
4	40˝	(1000 mm)	

* Supplied in packs of 3.

Retention Rating
D
E
G
H
K
L
M
N
P
T
U
W*

* Not available in A and B lengths.

Code	Flush
N	None

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

Code	Endcap (10˝)
B*	dh DOE
C	BF / 226 Bayonet
D	Fin / 222
E	Flat Top / 222
G	Recess / 222
H	UF Retrofit
J	SOE (no o-ring)
L*	dh DOE
N	Internal 213
R	BF / 222 Bayonet

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

* EPDM gaskets supplied as standard

Code	Format
A	10˝ Modular
D	Demi

Code	O-rings
E	EPDM
S	Silicone

Capsules

PHA - □ □ □ - □ □ □

Code	Length (Nominal)		
E	4.4˝	(113 mm)	
B	5.5˝	(140 mm)	
A	7.9˝	(200 mm)	

Supplied in packs of 3.

Retention Rating
D
E
G
H
K
L
M
N
P
T
U

Code	Flush
N	None

Code	Inlet Connection
T	1˝ Tri-Clamp
N	1/2˝ NPT Male
H	1/2˝ Hosebarb
G	Stepped Hosebarb
M	1/4˝ NPT Male
V	3/8˝ NPT Female

Code	Outlet Connection
T	1˝ Tri-Clamp
N	1/2˝ NPT Male
H	1/2˝ Hosebarb
G	Stepped Hosebarb
M	1/4˝ NPT Male
V	3/8˝ NPT Female

Code	Vent / Drain Seals
S	Silicone