



General & Utilities & Others

In addition to market sector specific products, Parker domnick hunter offer a range of filtration products which perform in other process and utility applications to defined specifications.

Controlling the physical, chemical and biological hazards in food production and packaging processes is key to achieving an efficient process and minimising wastage. Parker domnick hunter have a range of specialist filtration products aimed at protecting food processes from a wide range of contaminants in applications such as; clarification, pre-stabilization and final stabilization. These products have been designed against specific performance criteria and return defined performance against hazard elimination.

PROTECTING

REDUCE PROCESSING

Parker domnick

CRYPTOCLEAR PES Food and Beverage

Filter Cartridges





CRYPTOCLEAR PES utilizes the unique properties of a microbially retentive polyethersulphone membrane that provides absolute retention of *Cryptosporidium parvum oocysts* to meet the specific needs of the food, beverage and potable water industries.

CRYPTOCLEAR PES membrane has an asymmetrical pore structure with a high voids volume which offers unrivalled retention capacity resulting in higher throughputs and higher flow rates than symmetrical membranes.

The microporous membrane is inherently hydrophilic and can be integrity tested repeatedly, providing a valuable quality assurance tool that fits well into a HACCP framework.

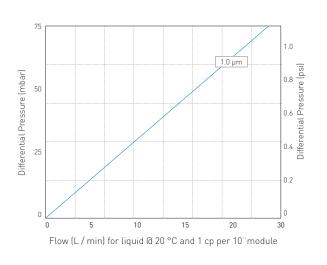
Features

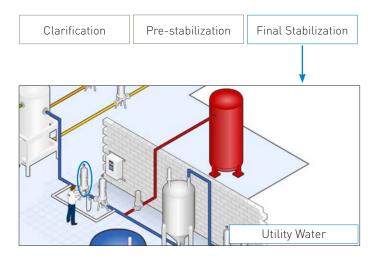
- Specifically designed and independently tested for the removal of *Cryptosporidium parvum oocysts*
- Easily integrity tested in-situ
- Strong, robust construction for repeated cleaning and sanitization in-situ

Performance Characteristics

Benefits

- Eliminates the threat of *Cryptosporidium* infection from the water supply
- Assured filtration performance
- I Extended service life from the membrane filter reduces the cost of filtration







Materials of Construction

Filtration Media:	Polyethersulphone
Prefilter Layer:	Polyester
Upstream Support:	Polyester
Downstream Support:	Polyester
Inner Support Core:	Polypropylene
Outer Protection Cage:	Polypropylene
End Caps:	Nylon
End Cap Insert:	316L Stainless Steel
Standard o-rings:	Silicone

Food Contact Compliance Materials conform to the relevant



requirements of FDA 21CFR Part 177, current EC1935 / 2004 and current USP Plastics Class VI - 121 °C. CRYPTOCLEAR PES is listed as a WRAS Approved Product. *WRAS - Water Regulations Advisory Scheme BS6920 Test of Effect on Water Quality.*

Recommended Operating Conditions

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

Temperatur	e	Max Fo	rward 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 0.8 m² (8.61 ft²)

Cleaning and Sterilization

CRYPTOCLEAR PES cartridges can be repeatedly steam sterilized in-situ or autoclaved at up to 142 °C (287.6 °F). They can be sanitized with hot water at up to 90 °C (194 °F) and are compatible with a wide range of chemicals. Please refer to our Clean-in-Place support guide or contact your local Parker representative for more information.

Retention Characteristics

The removal efficiencies of CRYPTOCLEAR PES cartridges have been determined from tests conducted by Thames Water Utilities Limited on live *Cryptosporidium oocysts*.

Product	Micron	Retention
CRYPTOCLEAR PES	1.0	100%

Integrity Test Data

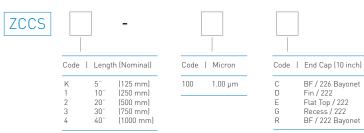
All filters are flushed with purified water prior to despatch. They are integrity testable to the following limits:

Micron Rating		1.0
Diffusional Flow Test Pressure Max. Diffusional Flow (ml / min)	(barg) (psig) (10)	0.6 9.0 21.0

Manufacturing Traceability

Each filter cartridge displays the product name, product code and lot number. Additionally, each module displays a unique serial number providing full manufacturing traceability.

Ordering information





CRYPTOCLEAR PLUS Food and Beverage

Filter Cartridges





Extensive research, including live oocyst challenge has resulted in a graded density filtration medium that maximizes loading capacity of the filters whilst accurately defining particle and

beverage and healthcare industries.

CRYPTOCLEAR PLUS cartridges can be repeatedly sanitized using hot water, steam and a wide range of chemicals.

oocyst retention under a variety of operating conditions.

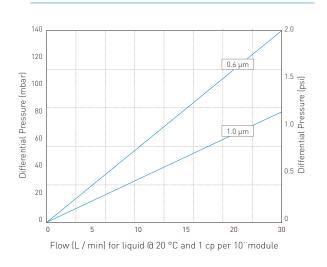
CRYPTOCLEAR PLUS pleated filter cartridges have been designed specifically for the removal of *Cryptosporidium parvum* and *Giardia intestinalis* from water in the food,

Features

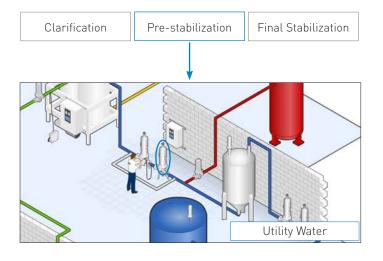
- Specifically designed for the reduction of *Cryptosporidium* parvum oocysts
- Graded density polypropylene pleated media, optimized for dirt holding capacity and oocyst retention
- 0.6 and 1.0 micron retention ratings

Benefits

- Assured performance to reduce the threat of *Cryptosporidium* infection
- Extended lifetime to blockage under high particle loading conditions
- Flexibility to optimize the filtration in-line with the facility requirements for *Cryptosporidium* control



Performance Characteristics





Materials of Construction

Filtration Media:	Polypropylene
Upstream Support:	Polypropylene
Downstream Support:	Polypropylene

- Inner Support Core:
- Outer Protection Cage:
- End Caps:
- End Cap Insert: Standard o-rings:
- lypropylene olypropylene Polypropylene Polypropylene Polypropylene 316L Stainless Steel Silicone

Food Contact Compliance



Materials conform to the relevant requirements of FDA 21 CFR Part 177, current EC1935 / 2004 and current USP Plastics Class VI - 121 °C. CRYPTOCLEAR PLUS is listed as a WRAS Approved Product. WRAS - Water Regulations Advisory Scheme BS6920 Test of Effect on Water Quality.

Recommended Operating Conditions

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

Temperatur	e	Max Fo	rward 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

Ordering information

10

20 30 40

| Length (Nominal)

(250 mm)

(500 mm)

(750 mm) (1000 mm) Code | Micron

0.6 µm

1.00 um

.60

1.0

Code

ZCCP

Effective Filtration Area (EFA)

10" (250 mm) Up to 0.57 m² (6.13 ft²)

Cleaning and Sterilization

CRYPTOCLEAR PLUS cartridges can be repeatedly steam sterilized in-situ or autoclaved at up to 142 °C (287.6 °F). They can be sanitized with hot water at up to 90 °C (194 °F) and are compatible with a wide range of chemicals.

Retention Characteristics

The removal efficiencies of CRYPTOCLEAR PLUS cartridges have been determined from tests conducted by Thames Water Utilities Limited on live Cryptosporidium oocysts.

Product	Micron	Retention
CRYPTOCLEAR PLUS CRYPTOCLEAR PLUS	0.6 1.0	>99.997% >99.3%

| End Cap (10 inch)

BF / 226 Bayonet

BF / 222 Bayonet

Fin / 222 Flat Top / 222

Recess / 222

Code

C D E G

R

Manufacturing Traceability

Each filter cartridge displays the product name, product code and lot number. Additionally, each module displays a unique serial number providing full manufacturing traceability.



Parker domnick hunter has a continuous policy of product development and although the Company reserves the right to change specifications, it attempts to keep customers informed of any alterations. This publication is for general information only and customers are requested to contact our Process Filtration Sales Department for detailed information and advice on a products suitability for specific applications. All products are sold subject to the company's standard conditions of sale.

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PREPOR PP Food and Beverage

Filter Cartridges





PREPOR PP filter cartridges will significantly reduce the number of yeast and spoilage organisms from beverage products, providing extremely cost-effective pre-stabilization of process liquids.

PREPOR PP filters will also "condition" liquids and can be used to improve the visual clarity and filterability of products, to benefit the performance and efficiency of terminal stabilization operations such as final membrane stabilization and pasteurization.

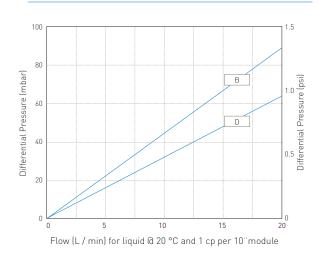
The filters have been designed to withstand harsh operating conditions. Their mechanical strength and wide chemical resistance make them suitable for aggressive clean-in-place operations using chemicals and steam.

Features

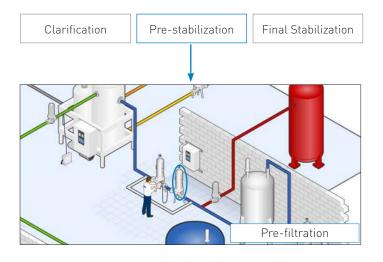
- I Validated retention to yeast and spoilage bacteria
- I High filtration area pleated media
- I Thermally bonded, all polypropylene construction

Benefits

- Short-term microbial stability of process liquids
- I High flow and service life to blockage
- Compatible with aggressive process conditions including chemical cleaning and steam sterilization



Performance Characteristics





PREPOR PP Food and Beverage

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: O-rings/gaskets:
- ene ene pylene 316L Stainless Steel Silicone / EPDM

Food Contact Compliance Materials conform to the relevant



requirements of FDA 21 CFR Part 177, current EC1935 / 2004 and current USP Plastics Class VI - 121 °C.

Recommended Operating Conditions

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

Temperatur	e	Max Fo	rward 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 0.5 m² (5.38 ft²)

Cleaning and Sterilization

PREPOR PP 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.

Retention Characteristics

The retention characteristics of PREPOR PP filters have been determined by a combination of controlled laboratory tests and in-use monitoring for a number of organisms.

Organism	LRV when challenged with a minimum of 10 ⁷ cfu per cm ²			
		В	D	
Saccharomyces co	erevisiae	4	2	
Escherichia coli		2	-	
Oenococcus oenos		2	-	
Serratia marcesce	ens	2	-	

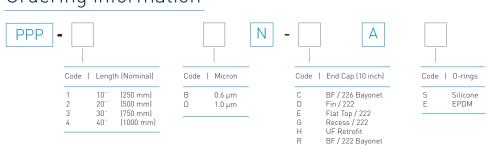
Manufacturing Traceability

Each filter cartridge displays the product name, product code and lot number. Additionally, each module displays a unique serial number providing full manufacturing traceability.

VSH & HSL
HOUSING RANGE
AVAILABLE

Europe: © +44 (0)1914105121 🖅 dhprocess(gparker.com | North America: © toll free: +1 877784 2234 🖅 dhpsales.na(gparker.com | www.parker.com/dhbeverage

Ordering information



PEPLYN PLUS Food and Beverage

Filter Cartridges





PEPLYN PLUS filter cartridges are utilized for the clarification and pre-stabilization of process liquids and supporting utility solutions for the beverage industries.

Available in a range of absolute retention ratings, PEPLYN PLUS cartridges represent a cost-effective solution to condition a range of beverage products prior to intermediate storage or final stabilization.

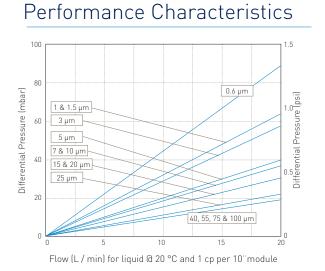
Extensive research has resulted in filter media with continuously graded fibre density giving progressively finer particulate retention through the depth of the media. This, combined with optimized media pleating density gives PEPLYN PLUS cartridges exceptional lifetime and retention performance characteristics.

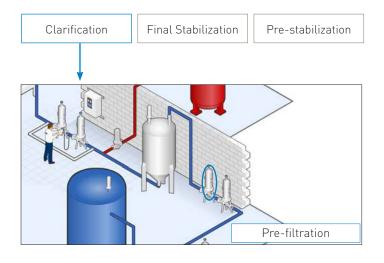
Features

- Absolute retention ratings from 0.6µm to 100µm
- Pleated media with graded density
- I All polypropylene, thermally bonded cartridge construction

Benefits

- Reliable, fine particle retention
- I High flow and increased service life to blockage
- Compatible with aggressive process conditions including chemical cleaning and steam sanitization







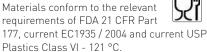
PEPLYN PLUS Food and Beverage

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 End Cap variants	
Standard o-rings:	Silicone

Food Contact Compliance



Recommended Operating Conditions

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

Temperatur	50	Max Ec	orward 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 0.6 m² (6.5 ft²)

Cleaning and Sterilization

PEPLYN PLUS 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.

Retention Characteristics

The retention characteristics of PEPLYN PLUS 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.

	Micron	rating at v	various ef	ficienc	ies
Media	>99.99%	99.98%	99.90%	99%	90%
Code	10000	5000	1000	100	10
0.6	0.60	0.57	0.54	0.32	0.20
1.0	1.00	0.95	0.90	0.70	0.50
1.5	1.50	1.40	1.10	0.80	0.60
003	3.00	2.80	1.80	1.00	0.70
005	5.00	4.70	4.50	3.50	1.00
007	7.00	6.70	6.30	4.50	2.50
010	10.00	8.00	7.00	4.80	2.80
015	15.00	12.00	10.00	7.20	4.50
020	20.00	16.00	14.00	10.00	6.00
025	25.00	20.00	17.00	12.00	7.00

* Higher microns

Manufacturing Traceability

Each filter cartridge displays the product name, product code and lot number. Additionally, each module displays a unique serial number providing full manufacturing traceability.

00	6.70	6.30	4.50	2.50
00	8.00	7.00	4.80	2.80
00	12.00	10.00	7.20	4.50
00	16.00	14.00	10.00	6.00
00	20.00	17.00	12.00	7.00
s avai	lable upon n	equest		
s avai	lable upon n	equest		
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s avai	lable upon n	equest		
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s avai	lable upon n	equest		

Ordering information

ZCPP			-						-				
	Code	Lengt	h (Nominal)	Code	Micron	Code	Micron	Code	End Cap (10 inch)	Code	Variant	Code	O-rings
	1	10	(250 mm)	.60	0.6	015	15.0	B*	dh DOE	S*	Steam Sterilizable	S*	Silicone
	2	20"	(500 mm)	1.0	1.0	020	20.0	С	BF / 226 Bayonet		1.1.1.05.10	E	EPDM
	3	30	(750 mm)	1.5	1.5	025	25.0	D	Fin / 222	*Not av	ailable in B End Cap variant		
	4	40"	(1000 mm)	003	3.0	040	40.0	E	Flat Top / 222				ne O-rings
				005	5.0	055	55.0	G	Recess / 222			suppli	ied as standard
				007	7.0	075	75.0	Н	UF Retrofit				
				010	10.0	100	100.0	R	BF / 222 Bayonet				
								*EPDM ga	skets supplied as standard				



DS_FBG_07_01/14 Rev. 1B

PEPLYN HD Food and Beverage

Filter Cartridges





PEPLYN HD filter cartridges have been developed to excel in liquid clarification applications where a consistent quality of filtrate is required from variable particle loadings of the process solution.

The PEPLYN HD filter media has outstanding particle holding capacity through its multi-layer high depth construction, providing extended service lifetimes and consistent quality filtrate under demanding conditions.

Capture of particles is throughout the depth of the media with larger particles being retained in the outer prefiltration layers, while the inner graded density media provides accurately defined retention to finer particulate. Both these mechanisms combine to provide a cartridge filter which returns extended service lifetimes.

Features

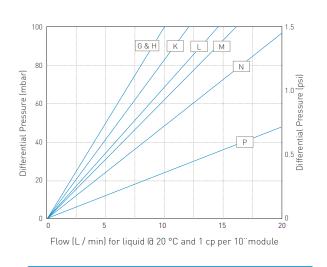
- I High depth, graded density filtration media
- Available in a range of absolute micron retention ratings

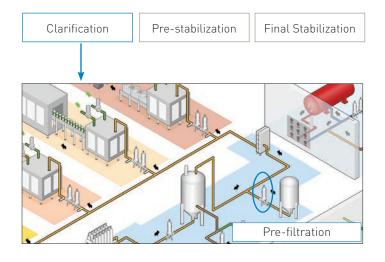
Performance Characteristics

I All polypropylene, thermally bonded construction

Benefits

- Increased dirt holding capacity and resistance to blockage under high loading conditions
- Ability to provide consistent quality of filtrate in a wide range of clarification applications
- Compatible with aggressive process conditions including chemical cleaning and steam sanitization







EPLYN HD Food and Beverage

Specifications

Materials of Construction

Filtration Media:	Polypropylene
Prefilter Layer:	Polypropylene
Upstream Support:	Polypropylene
Downstream Support:	Polypropylene
Inner Support Core:	Polypropylene
Outer Protection Cage:	Polypropylene
End Caps:	Polypropylene
End Cap Insert:	316L Stainless Steel
O-rings:	Silicone / EPDM

Food Contact Compliance



Materials conform to the relevant requirements of FDA 21 CFR Part 177, current EC1935 / 2004 and current USP Plastics Class VI - 121 °C.

Recommended Operating Conditions

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

Temperatur	е	Max Fo	orward 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 0.3 m² (3.22 ft²)

Cleaning and Sterilization

PEPLYN HD 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.

Retention Characteristics

The retention characteristics of PEPLYN HD 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.

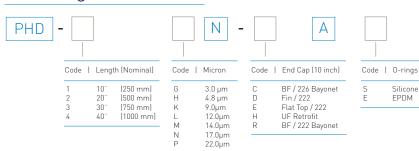
	Mic	ron ratin	g at vario	ous effi	icienci	es
Media	>99.99%	99.98%	99.90%	99%	95%	90%
Code	10000	5000	1000	100	20	10
G	3.00	2.80	1.80	1.00	0.85	0.70
Н	4.80	4.70	3.20	2.60	1.90	1.60
K	9.00	8.20	6.90	5.00	3.70	3.40
L	12.00	10.00	7.80	5.90	4.60	4.00
М	14.00	10.00	9.20	6.90	6.10	5.00
N	17.00	14.00	12.00	9.00	7.00	6.00
Ρ	22.00	18.00	15.00	12.00	9.40	6.80

Manufacturing Traceability

Each filter cartridge displays the product name, product code and lot number. Additionally, each module displays a unique serial number providing full manufacturing traceability.

VSH & HSL
HOUSING RANGE
AVAILABLE

Ordering information



DS_FBG_06_01/14 Rev. 1B

PEPLYN HA Food and Beverage

Filter Cartridges





PEPLYN HA filters have been specifically developed to provide the optimum solution for particulate removal in liquid clarification applications.

The filtration media balances a high surface area and closely controlled porosity, in a configuration that maximizes the cleaning efficiency of the cartridge through backwash procedures.

Capture of larger insoluble particulate is predominantly on the surface of the media, where the rigid, open pleat structure ensures that backwash cleaning provides effective removal. Smaller colloids are retained throughout the depth of the graded density PEPLYN media, providing accurately defined retention under the variable particle loading conditions typical in clarification applications.

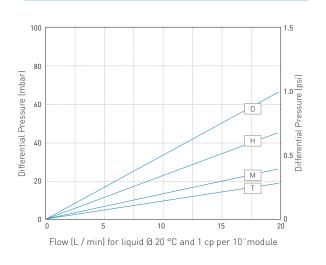
Features

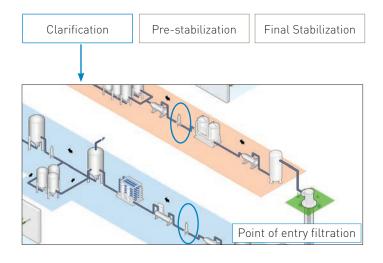
- Specially designed media for backwash regeneration against insoluble particulate
- High surface area
- I Available in a range of absolute micron retention ratings

Performance Characteristics

Benefits

- I Increased service life when combined with frequent backwash cleans
- I High flow and increased resistance to blockage under high particle loading conditions
- A consistent and reliable quality filtrate delivered to intermediate storage in the bottling facility









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:	316L Stainless

O-rings:

ne ne ne he ne ss Steel Silicone / EPDM

Food Contact Compliance Materials conform to the relevant



requirements of FDA 21 CFR Part 177, current EC1935 / 2004 and current USP Plastics Class VI - 121 °C.

Recommended Operating Conditions Up to 70 °C (158 °F) continuous operating

temperature and higher short-term temperatures during CIP to the following limits:

Temperatur	Max Fo	orward 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 0.7 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.

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.

	Mic	ron ratin	g at vario	ous eff	icienc	ies
Media	>99.99%	99.98%	99.90%	99%	95%	90%
Code	10000	5000	1000	100	20	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
Н	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
Р	32.00	27.00	24.00	18.00	13.00	10.00
Т	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

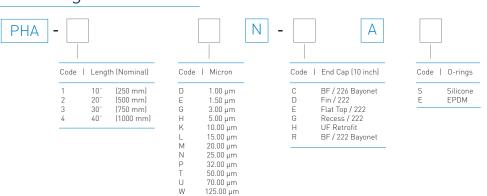
Manufacturing Traceability

Each filter cartridge displays the product name, product code and lot number. Additionally, each module displays a unique serial number providing full manufacturing traceability.

	VSH & HSL
l	HOUSING RANGE
l	AVAILABLE

DS_FBG_10_04/14 Rev. 1B

Ordering information



PROPLEAT PP Food and Beverage

Filter Cartridges





PROPLEAT PP filters have been developed to bridge the gap between meltblown depth filters and absolute rated pleated media filters for liquid clarification.

Their continuous length and all polypropylene construction results in a robust yet economical design that maximizes the effective filtration area and provides wide chemical compatibility, coupled with low extractable levels.

All PROPLEAT PP cartridges exhibit 99% efficiency at their given retention rating, providing consistent and economical clarification in a diverse range of applications.

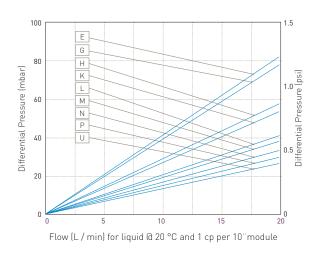
Features

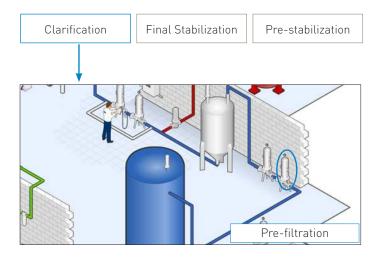
- A wide range of retention ratings
- Continuous length thermally bonded polypropylene sleeve and core
- Elevated temperature option available for hot water sanitization and steam sterilization

Performance Characteristics

Benefits

- I Flexibility to excel in a wide range of clarification applicaitons
- Strong, robust construction to provide stable retention in diverse process conditions
- Ability to be cleaned and sterilized in-situ









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 and L End Cap variants

Standard o-rings / Gaskets: Silicone / EPDM

Food Contact Compliance



Materials conform to the relevant requirements of FDA 21 CFR Part 177, current EC1935 / 2004 and current USP Plastics Class VI - 121 °C.

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 0.6 m² (6.5 ft²)

Cleaning and Sterilization

PROPLEAT PP cartridges can be repeatedly steam sterilized in-situ or autoclaved at up to 121 °C (250 °F). They can be sanitized with hot water at up to 90 °C (194 °F) and are compatible with a wide range of chemicals.

Retention Characteristics

The retention characteristics of PROPLEAT PP 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.

99	% approxim	ate ratings at lov	ver efficiencies
Media	99%	95%	90%
Code ß Ratio	100	25	10
E	0.8	0.7	0.6
G	1.0	0.9	0.7
Н	3.5	2.3	1.0
K	4.8	3.8	2.8
L	7.2	6.0	4.5
М	10.0	8.0	6.0
Ν	12.0	9.0	7.0
Ρ	18.0	13.0	10.0
U	40.0	30.0	25.0

Recommended Rinse Volume

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

Minimum Box Quantities All cartridges supplied in boxes of 6.

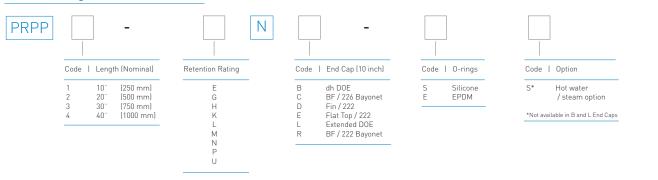
Dimensions

е

Standard Lengths (DOE seal to seal)

Length	B Style	L Style
1	9 ⁷ / ₈ " (250 mm)	9 ⁷ / ₈ " (250 mm)
2	19 ¹ / ₂ " (498 mm)	20 (508 mm)
3	29 ³/ ₈ " (746 mm)	30 ¹ / ₈ " (766 mm)
4	39 ¹ / ₈ " (994 mm)	40" (1014 mm)

Ordering information





PARMAX **Food and Beverage**

Filter Cartridges





Features

- Large diameter for high flow rates and ease of change-out
- Absolute retention ratings from 1 micron to 90 micron

Performance Characteristics

Inside - out flow pattern ensures positive capture of contaminants

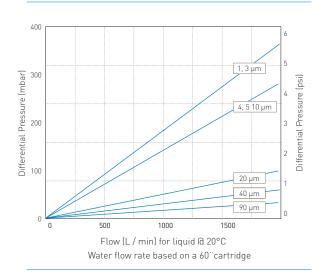
The best of pleated and large diameter technologies are combined in Parker domnick hunter's PARMAX high flow filter cartridges.

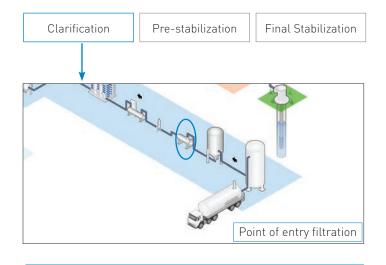
The unique layered construction provides excellent retention across a wide range of flux rates. One 6" diameter cartridge can handle up to 80 m3 / hr flow (60" length). The inside to outside flow allows for a high contaminant holding capacity and a long filter life which makes the PARMAX an ideal choice for a wide variety of critical process applications.

PARMAX cartridges are available in polypropylene in absolute (99.98%) micro ratings from 1 to 90 microns.

Benefits

- Small filter system size and reduced running cost to represent an economical solution to a wide range of clarification duties
- Consistent quality filtrate is delivered in a wide range of clarification applications
- Increased protection to downstream systems and elimination of start-up cleans following change-out







Materials of Construction Filtration Media: Polypropylene

Filtration Media:
Support / Drainage:

- Hardware:
- Standard O-rings (SOE):
- Polypropylene Polypropylene :): EPDM Silicone

Food Contact Compliance

Materials conform to the relevant requirements of FDA 21 CFR Part 177 and current EC1935 / 2004.

Maximum Operating Temperature 80 °C (176 °F) @ 2.1 bar (30 psi)

Recommended Flow Rate Conditions

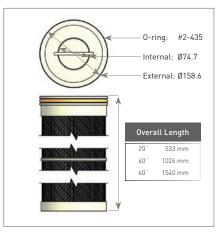
20	: Up to	40 m³ / hr
40	: Up to	80 m³ / hr
60	: Up to	80 m³ / hr

Recommended Change Out Pressure

2.41 bar (32 psi)

Retention Ratings (99.98%) 1, 3, 4.5, 10, 20, 40 and 90** μm

Maximum Differential Pressure 4.8 bar (70 psi) @ 25 °C (77 °F) 2.1 bar (30 psi) @ 80 °C (176 °F) Dimensions (Nominal)



Manufacturing Traceability

Each filter cartridge displays the product name, product code and lot number. Additionally, each module displays a unique serial number providing full manufacturing traceability.

Ordering information





MAXGUARD Food and Beverage

Filter Cartridges





Parker's MAXGUARD high capacity cartridge product line provides a cost-effective alternative to bag media or standard 2-1/₂ inch cartridges for high flow applications. Each MAXGUARD cartridge has a 6" (152 mm) nominal outside diameter and can handle flows up to 20m³/hr, significantly reducing the number of cartridges required for large flow applications.

MAXGUARD cartridges are available in polypropylene media. All cartridges feature an industry standard 226 positive o-ring seal and easy-to-grasp integrated handle. All cartridges have absolute retention ratings (beta = 5000) ideal for critical applications.

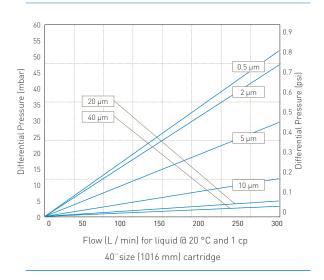
Features

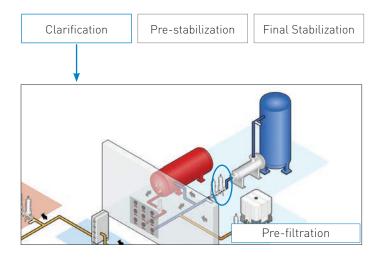
- Large diameter for high flow rates and ease of change-out
- I Absolute rated, high depth, polypropylene media
- Positive 226 o-ring seal for assured filtration integrity

Performance Characteristics

Benefits

- Small filter system size and reduced running cost to represent economical solution to a wide range of clarification duties
- Consistent quality filtrate is delivered and increased resistance to blockage in a wide range of clarification applications
- Assurance of filtration efficiency for more critical applications







MAXGUARD Food and Beverage

Specifications

Materials of Construction

Filtration Media:	Pol
Support Layers:	Pol
Support Core:	Pol
O-Rings:	Silio

Polypropylene
Polypropylene
Polypropylene
Silicone

Food Contact Compliance Materials conform to the relevant



requirements of FDA 21 CFR Part 177. current EC1935 / 2004 and current USP Plastics Class VI - 121 °C.

Maximum Operating Temperature

Max Temperature: 80°C at 2.1 bar Max Pressure:

4.8 bar at 25°C 2.1 bar at 80°C

Retention Ratings (99.98%)

99.98% specified micron rating

Flow Characteristics

MAXGUARD filters are capable of filtering 340 L / min per 40".

Recommended Change Out Pressure 2.41 bar (32 psi)

Dimensions (Nominal)

Cartridge Code		n Rating at 99.90%	Various E 99%	fficiencies 98%	95%
POLYPROF MXGP005 MXGP020 MXGP050	YLENE 0.5 2 5	0.4 1.4 3.8	0.2 0.4 1.2	>0.2 0.2 0.3	>0.1 >0.1 >0.1
MXGP050 MXGP100 MXGP200 MXGP400	10 20 40	3.8 7 18 23	1.2 3 5 18	0.3 0.9 2 8	>0.1 >0.2 >0.2 >0.7

Ordering information

MXGP	-		-	SM
Filter Media	Code Micron	Code Length (Nominal)	Code Seal Material	End Cap Configuration
Polypropylene	050 0.5µm 020 2.0µm	30 30" (750 mm) 40 40" (1016 mm)	S Silicone	226 O-ring / Flat cap w/ handle
	050 5.0µm	40 40 (1010 1111)		
	100 10.0µm			
	200 20.0µm			
	400 40.0µm			



DS_FBG_18_01/14 Rev. 1B

BAG Filters Food and Beverage

Filter Cartridges



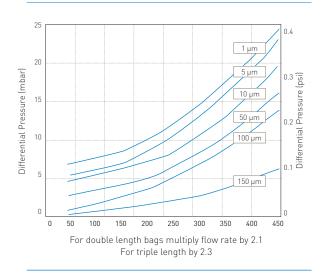


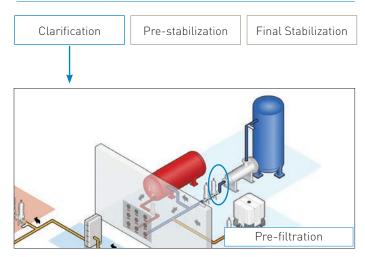
Parker domnick hunter's range of bag filters are manufactured from a variety of filter media each specifically chosen for its compatibility with a wide range of process liquids. Parker bag filters are of a fully welded design rather than sewn. No process liquid can bypass through needle holes caused by the sewing process or around a sewn ring. Parker domnick hunter's range of filter bags include:

Standard filter bags

Available in polypropylene, polyester and nylon from 1 to 1000µm.

Performance Characteristics







Materials of Construction

Filtration Media:	P
	Po
	N
Ring:	El
	St
	Μ

Polypropylene Felt Polyester Felt Nylon Mesh Electro Plated Steel Stainless Steel Moulded Polypropylene Polypropylene

Food Contact Compliance

Materials conform to the relevant requirements of FDA 21 CFR Part 177 and current EC1935 / 2004.



Viscous Flow Correction Factors

				Vis	scous Co	rrection	Factors						
Fluid Viscosity (cps)	10000	8000	6000	4000	2000	1500	1000	800	600	400	200	100	1
Flow rate (% water)	2.1	2.6	3.5	5	8	11	16	17	25	35	58	58	100

Compatibility

Material	Max Temperature	Organic Solvents	Oils and Fats	Alkalies	Organic Acids	Mineral Acids	Oxidising Agents	Resistance micro-organisms
Polypropylene	95°C (203°F)	Good	V. Good	Good	V. Good	Good	Fair	Fair
Polyester	150°C (302°F)	V. Good	V. Good	Good	Good	Good	Good	Good

Bag size	Diameter	Length	Surface Area	Volume	Max Flow Rate
1	7" (180 mm)	17" (435 mm)	0.25 m ²	11.0 ltr	20 m³/hr
2	7" (180 mm)	32" (810 mm)	0.5 m ²	20.5 ltr	40 m³/hr
1 (mini)	4" (104 mm)	9" (230 mm)	0.07 m ²	1.9 ltr	6 m³/hr
2 (mini)	4" (180 mm)	15" (380 mm)	0.12 m ²	3.2 ltr	10 m³/hr

Flow rate is dependant upon media type, micron rating and the fluid being filtered

Ordering information

Code Style	Code Diameter	Code Yarn	Code Media	Code Felt Rating Code Mesh Rating	Code Ring Code Ring
SG Ring	7 Standard 4 Mini	1 Single 2 Double 3 Triple	P Polypropylene Felt S Polyester Felt	001 1* 045 45 005 5 100 100 010 10 150 150 025 25 250 250 050 500 500 100 100 800 880 150 150 999 1000	S Stainless Steel H Handles M Moulded PP L Loops P Polypropylene

Parker domnick hunter has a continuous policy of product development and although the Company reserves the right to change specifications, it attempts to keep customers informed of any alterations. This publication is for general information only and customers are requested to contact our Process Filtration Sales Department for detailed information and advice on a products suitability for specific applications. All products are sold subject to the company's standard conditions of sale.

DS_FBG_13_01/14 Rev. 1B

BEVPOR WG Utilities Filter Cartridges





Minimizing the cost of microbiological control while maintaining quality and product protection is a key requirement for utility water treatment within beverage production.

BEVPOR WG is an advanced membrane filter cartridge designed for the beverage industry to meet and surpass these criteria. Specifically developed as a beverage grade cartridge, BEVPOR WG utilizes an advanced polyethersulphone membrane configured to provide high flow and cost-effective performance. The membrane has an asymmetric pore structure which provides graded filtration throughout its depth, resulting in increased capacity to hold contaminants. Componentry has been selected to maximize mechanical strength and chemical compatibility enabling the filter to withstand repeated chemical cleaning and sterilization.

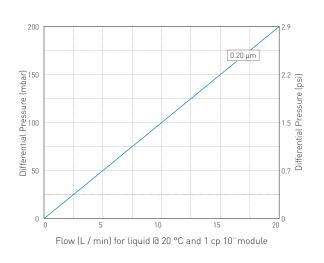
Features

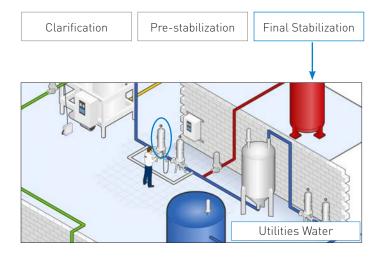
- Sterilizing grade PES membrane
- I Highly asymmetrical pore structure
- Robust materials of construction can be repeatedly steam sterilized and hot water sanitized

Performance Characteristics

Benefits

- Ensures safety of process water
- I High flow and cost-effective performance
- Extended service life









Materials of Construction Polyethersulphone

- Filtration Media:
- Upstream Support:
- Downstream Support:
- Inner Support Core:
- Outer Protection Cage:
- End Caps:
- End Cap Insert:
- O-rings:

Polypropylene Polypropylene Polypropylene Polypropylene Polypropylene 316L Stainless Steel Silicone / EPDM

Food Contact Compliance Materials conform to the relevant



requirements of FDA 21CFR Part 177, current EC1935 / 2004 and current USP Plastics Class VI - 121 °C.

Recommended Operating Conditions

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

Temperatur	e	Max Fo	orward 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 0.5 m² (5.38 ft²)

Cleaning and Sterilization

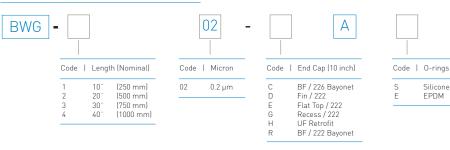
BEVPOR WG cartridges can be repeatedly steam sterilized in-situ or autoclaved at up to 130°C (266°F). They can be sanitized with hot water at up to 90°C (194°F) and are compatible with a wide range of chemicals.

Please refer to our Clean in Place support guide or contact your local Parker representative for more information.

Manufacturing Traceability

Each filter cartridge displays the product name, product code and lot number. Additionally, each module displays a unique serial number providing full manufacturing traceability.

Ordering information



VSH & HSL HOUSING RANGE AVAILABLE

BEVPOR MS Utilities Filter Cartridges





Minimizing the cost of microbiological control while maintaining quality and product protection is a key requirement for utility water treatment within beverage production. BEVPOR MS is an advanced membrane filter cartridge designed for the beverage industry to meet and surpass these criteria.

Specifically developed as a beverage grade cartridge, BEVPOR MS utilizes an advanced polyethersulphone membrane configured to provide high flow and cost-effective performance. The membrane has an asymmetric pore structure which provides graded filtration throughout its depth, resulting in increased capacity to hold contaminants. Componentry has been selected to maximize mechanical strength and chemical compatibility enabling the filter to withstand repeated chemical cleaning and sterilization.

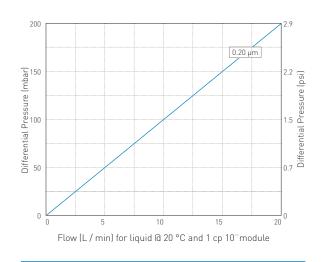
Features

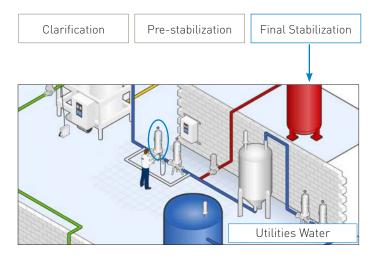
- Sterilizing grade PES membrane
- I Highly asymmetrical pore structure
- Robust materials of construction can be repeatedly steam sterilized and hot water sanitized
- Easily integrity tested in-situ

Benefits

- Ensures safety of process water
- I High flow and cost-effective performance
- Extended service life
- Assured filtration performance

Performance Characteristics









Materials of Construction

Filtration Media:	Polye
Upstream Support:	Polye
Downstream Support:	Polye
Inner Support Core:	Polyp
Outer Protection Cage:	Polyp
End Caps:	Nylor
End Cap Insert:	316L
O-rings:	Silico

Polyethersulphone Polyester Polypropylene Polypropylene Nylon 316L Stainless Steel Silicone / EPDM

Food Contact Compliance Materials conform to the relevant



requirements of FDA 21CFR Part **177**, current EC1935 / 2004 and current USP Plastics Class VI - 121 °C.

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

Temperatur	re	Max Fo	orward 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 0.6 m² (6.5 ft²)

Cleaning and Sterilization

BEVPOR MS cartridges can be repeatedly steam sterilized in-situ or autoclaved at up to 130 °C (266 °F). They can be sanitized with hot water at up to 90 °C (194 °F) and are compatible with a wide range of chemicals.

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

Retention Characteristics

0.2µm BEVPOR MS filters have been validated to provide sterile effluent after bacterial challenge testing following ASTM F838-05 methodology on 10" cartridges with more than 10⁷ cfu per cm² using *Brevundimonas diminuta*.

In addition, challenges with the following EU regulated organisms have been performed.

Organism	LRV when challenged with a minimum of 10 ⁷ cfu per cm ²
	0.20
Serratia marcesc Escherichia coli Enterococcus fae Clostridium perfr Pseudomonas ae	FR FR FR FR ingens FR

Integrity Test Data

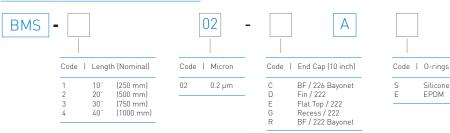
All filters are flushed with pharmaceutical grade purified water prior to despatch. They are integrity tested to the following limits:

Diffusional Flow Test Parameters	Micron Rating 0.20
Test Pressure (barg)	2.4
Test Pressure (psig)	35.0
Max Diffusional Flow	
Per 10" (ml / min)	16.0

Manufacturing Traceability

Each filter cartridge displays the product name, product code and lot number. Additionally, each module displays a unique serial number providing full manufacturing traceability.

Ordering information





SPUNFLOW QN Utilities

Filter Cartridges





Features

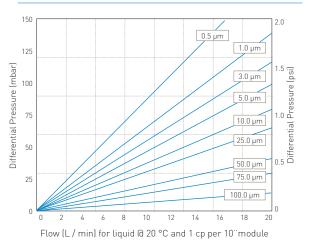
- I Thermally bonded polypropylene
- 90% nominal rated
- I High throughput and low pressure loss

Graded density, high porosity, SPUNFLOW QN filter elements are manufactured from thermally bonded Polypropylene microfibers. Offering high throughputs, low pressure loss, high holding dirt capacity and long on-stream life, the bonded fibre construction minimizes any possibility of fibre migration and is rugged enough to resist particle shedding, even under pulse conditions.

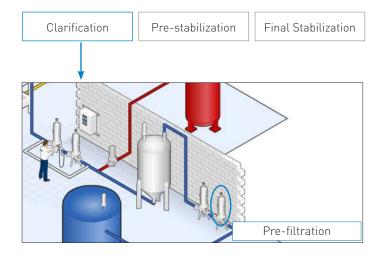
Consisting only of pure polymer, SPUNFLOW QN is compatible with most chemical processes and contain no additives, leachables or extractables and is compliant with the requirements of the FDA for food and beverage contact. Elements can be incinerated to trace ash reducing disposal costs.

Benefits

- Ability to provide defined clarification under a wide particle loading of the feed solution
- Strong construction for stable retention
- I Decreased system size and lower running costs provide an economical solution to clarification applications



Performance Characteristics







Materials of Construction

Filtration Membrane:	Polypropylene
----------------------	---------------

	C
EIIU	Caps

Standard o-rings:

Polyester / Nylon
Polypropylene
Nylon
Silicone

Food Contact Compliance

Materials conform to the relevant requirements of FDA 21 CFR Part 177 and current EC1935 / 2004.

Recommended Operating Conditions Maximum Temperature: Polypropylene - 65°C (149°F)

Maximum Differential Pressure 4 bar at 20°C (68°F)

Maximum Recommended Differential Pressure 2 bar (29 psid)

Dimensions Standard Cartridge Outside diameter: Inside diameter:	62 mm (2.44) 29 mm (1.14)
End Capped Cartridge Outside diameter: Inside diameter:	64 mm (2.51'') 27 mm (1.06'')

Ordering information

Code Length (Nominal)	Code Material	Code Micron	Code End Fitting	Code Seal Material
09 9.75" (247 mm) 10 9.875" (251 mm) 11 10" (254 mm) 19 19.50" (500 mm) 20 20" (508 mm) 20 20.50" (750 mm) 30 30" (762 mm) 39 39.25" (1000 mm) 40 40" (1016 mm) Other lengths available upon request request	P Polypropylene	A5 0.5 μm 01 1μm 03 3 μm 05 5 μm 10 10 μm 25 25 μm 50 50 μm 75 75 μm 99 99 μm CL 150 μm CD 250μm	0 DOE 2 Flat / 226 3 Flat / 222 6 Flat / 118 / 020 7 Fin / 226 8 Fin / 222 9 213 X Plain E Ext Core	X None E EPDM S Silicone

Minim	um Box Quantity
10	40
20	20
30	20
<i>κ</i> ο	20



SPUNFLOW QA Utilities

Filter Cartridges





SPUNFLOW QA cartridges are a range of absolute graded density filter elements, manufactured from thermally bonded polypropylene microfibers layered onto a resilient centre core. The construction consists of numerous, distinctive filter zones with coarser outer layers acting as prefilters for the tighter, absolute rated central zone. This profile produces an element possessing high voids volume, for flow rates high flow rates, low pressure loss, high dirt holding capacity and long life.

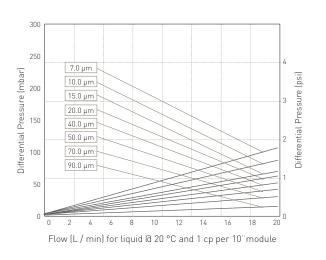
The thermally bonded media also eliminates fibre migration and resists the tendency to unload during service.

Features

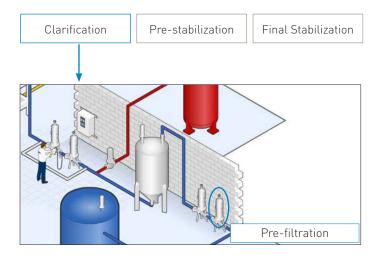
- Absolute ratings from 0.5 to 120 micron
- I Thermally bonded polypropylene
- I High throughput and low pressure loss

Benefits

- Ability to provide defined clarification under a wide particle loading of the feed solution
- Strong construction for stable retention
- Decreased system size and lower running costs provide an economical solution to clarification applications



Performance Characteristics







Materials of Construction lembrane:

ΗI	tr	atic	n	IV
 _		~		

End Caps:

Standard o-rings:

Polypropylene Nylon Silicone

Polypropylene

Food Contact Compliance Materials conform to the relevant requirements of FDA 21 CFR Part 177 and current EC1935 / 2004.



Recommended Operating Conditions Maximum Temperature: Polypropylene - 65°C (149°F)

Maximum Differential Pressure 4 bar at 20°C (68°F)

Maximum Recommended Differential Pressure 2 bar (29 psid)

Dimensions

Standard Cartridge 64 mm (2.52") Outside diameter: 29 mm (1.14") Inside diameter:

A caged version can be supplied in polypropylene 68mm (2.68")

Ordering information

QA	Code Length [Nominal]	Code Material	Code Micron	Code End Fitting	Code Seal Material	Code Cage Option	Minimum Box Quantity
	09 9.75" [247 mm] 10 9.875" [251 mm] 11 10" (254 mm) 19 19.50" (500 mm) 20 [508 mm] 20" 29 29.50" (750 mm) 30 30" [762 mm] 39 39.25" (1000 mm) 40 40" (1016 mm) 0ther lengths available upon request Traditional states of the state	P Polypropylene	A5 0.5 μm A7 0.7 μm 01 1 μm 03 3 μm 05 5 μm 07 7 μm 10 10 μm 15 15 μm 20 20 μm 40 40 μm 50 50 μm 70 70 μm 90 90 μm 120 CA	0 DOE 2 Flat / 226 3 Flat / 222 6 Flat / 118 / 020 7 Fin / 226 8 Fin / 222 9 213 X Plain E Ext Core	E EPDM S Silicone	S Standard L Light Cage	10" 40 20" 20 30" 20 40" 20



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CARBOFLOW MX Utilities

Filter Cartridges



hunter



CARBOFLOW MX cartridges are offered in both high efficiency and general grades. They consist of bituminous coal sourced carbon, extruded together with an FDA listed thermoplastic binder, to produce an extremely porous yet rigid structure.

The result is a filter offering unsurpassed adsorptive capacity, up to 20 times that of traditional granular carbon or carbon impregnated filters, and high particle removal efficiency.

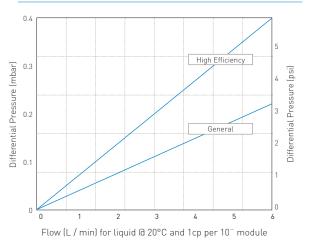
The rigid structure of CARBOFLOW MX not only minimizes any possibility of channeling, bypass or fluidizing, but also the release of carbon fines during start-up and operation. Such problems are common with more traditional carbon filters. CARBOFLOW MX is available in lengths up to 40" (1016 mm) together with end fittings to suit most industry standard housings.

Features

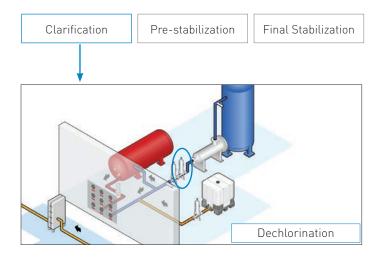
- Solid piece, extruded construction
- High surface area

Benefits

- No flow channeling associated with other forms of carbon filter. This aspect provides a consistent level of adsorption and particle retention throughout the filter's lifetime
- Small system sizes per application reduce the cost of filtration and return an economical solution



Performance Characteristics







Materials of Construction

Food Contact Compliance

- Carbon: Carbon Type:
- Carbon type:
- Carbon Weight (per 10"):
- End Caps:
- Bituminous Coal Steam activated Acid wash '): 350g Polypropylene

ropylene

Materials conform to the relevant requirements of FDA 21 CFR Part 177, current EC1935 / 2004 and current USP Plastics Class VI - 121 °C.

Maximum Operating Temperature 60°C (158°F)

Maximum Differential Pressure 7 bar (101.52 psi) Recommended Change Out Pressure 2 bar (29 psi)

Retention Characteristics

	1 High Efficiency	2 General
Particle Removal Chlorine Reduction** Chloroform Reduction*	99.9% @ 2 mic 76 cu.m @ 4 l / min 3 cu.m @ 2 l / min	98% @ 10 mic 22.7 cu.m @ 4 l / min n / a

 Per 10⁻⁻ element, for longer lengths multiply pro-rata for details of test conditions contact Parker domnick hunter for details.
 Based on an inlet concentration of 2 ppm chlorine.

Applications

Pre and post R.O. filtration
De-chlorination
Process water
Product rinse waters
De-colourization

Ordering information

Code Flow Path	Code	Length	Code	Туре	Code	Grade	Code	End Fitting	Code	Seal Material
C Carbon	05 09 10 11 19 20 29 30 39 40	4.75" (124 mm) 9.75" (247 mm) 9.875" (251 mm) 10" (254 mm) 19.50" (500 mm) 20" (508 mm) 20.50" (750 mm) 30" (762 mm) 30.50" (1000 mm) 40" (1016 mm)	М	Extruded	<u>1</u>	High Efficiency General	0 2 3 7 8 9 S	DOE Flat / 226 Flat / 222 Fin / 226 Fin / 222 213 SOE	E S	EPDM Silicone



DS_FB6_14_01/14 Rev. 1B

Steam Filters Utilities Filter Cartridges





Features

- Robust all welded 316L stainless steel construction
- I 'JUMBO' filter configuration ensures maximum utilization of pipework capacity
- Available in culinary grade 1 micron absolute

Steam filtration is often neglected or regarded as an add on to liquid or gas filtration applications.

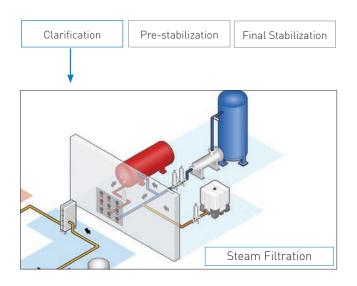
It is however, a specific application and should be treated with the same level of importance as air, gas and liquid systems if longer filter lifetimes and overall system cost-effectiveness are to be achieved.

The quality of steam used within food and dairy industries has been raised higher on the agenda in an ever increasing number of companies. Minimum acceptable standards are now being quoted on a more regular basis with particular reference to 'culinary grade' steam. Steam serves several purposes in the food and beverage industry. It is critical that this steam is of a high quality to ensure effective and continuous operation of the process.

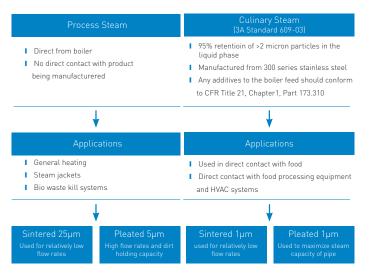
Benefits

- Long service life under extreme conditions
- Reduced operational cost
- Assures performance to 3A standard

Filtration Stage



Which filter for which applicaiton?







Specifications - Pleated

Materials of Construct	ion	Effective Filtration Area (EFA)				
Filtration Media:	316L Stainless Steel	10" (250 mm)	0.15 m ² (1.61 ft ²)			
Inner Support Core:	316L Stainless Steel					
Outer Protection Cage:	316L Stainless Steel	Housing Materia	ls of Construction			
End Caps:	316L Stainless Steel	Material:	316L Stainless Ste			
Standard o-rings/gaskets:	EPDM (Standard)	Surface Finish				
	Silicone and Viton	Single Internal:	Electropolished Ra			
	(options available)	Single External:	Mechanical Polish			
			(Commercial Brigh			
		Jumbo Internal:	Upstream - Beadb			
			Outlet Assembly -			
Recommended Operat	5		Linished 180 grit			
The maximum differentia	l pressure in	Jumbo External:	Beadblast			
direction of flow (outside	to in) is	Vent / Drain				
10 barg (145.03 psig).		Single / Jumbo:	1/4" BSPP			
			Female Thread			
The maximum differentia direction of flow (in to out		Seal Material:	EPDM Aseptic Sea			

on Area (EFA)	Housing Design	^o ressure and		
0.15 m² (1.61 ft²) s of Construction	Temperature Single:	16 barg (232 psig) @ 200 °C (392 °F)		
316L Stainless Steel				
Electropolished Ra 0.8 Mechanical Polish (Commercial Bright) Upstream - Beadblast Outlet Assembly - Liniched 180 arit	Jumbo:	7 barg (101 psig) @ 170 °C (338 °F)		

1 📇	2	Figure	Housing Code	Connection Size	Capacity Kg / hr @ 1 barg	Overall Height	Replacement Filter Code
		1 1 2 2 2 2 2	HBAHP01KY HBAHP011C VISCE-01J-D VISCE-01J-E VISCE-03J-G VISCE-03J-H	1.5" (38.1 mm) 2" (50.8 mm) 3" (50.8 mm) 4" (101.6 mm) 6" (152.4 mm) 8" (203.2 mm)	<100 mbar or 40 m / sec 150 280 750 1300 2300 3750	14.8" (376 mm) 20.7" (526 mm) 30.0" (763 mm) 35.2" (895 mm) 41.2" (1049 mm) 48.7" (1237 mm)	ZCHS-KC ZCHS-1C ZCHS-J3 ZCHS-J4 3 x ZCHS-J3 3 x ZCHS-J4

Note: For efficient steam distribution it is recommended that steam velocities are restricted to 25 m / sec⁻¹. For more information on the HBA range, please contact Parker domnick hunter.

Correction Factors

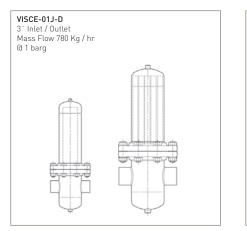
2 barg (29.00 psig).

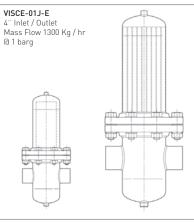
The maximum recommended continuous operating temperature range is -75 °C (-103 °F) to +200 °C (392 °F). Note: Temperature dependant on o-ring compound

To use the table above, the steam flow rates must be at 1 barg (14.50 psig). For system flows at different line pressures, divide the system flow by the correction factor to find the equivalent flow @ 1 barg (14.50 psig).

Steam Pressure	0	1	2	3	4	5	6	7	8	9	10
Correction Factor	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5

Table showing the relative system size difference between pleated cartridges left and sintered cartridges right.





Steam Filters Utilities

Filter Cartridges

Specifications - Sintered

Materials of Construction

Filtration Media:	Sir
	Ste
End Caps:	310
Standard o-rings/gaskets:	ΕP
	Sili

ntered Stainless eel (316L) 6L Stainless Steel PDM (Standard) licone and Viton® (options available)

Recommended Operating Conditions

The maximum differential pressure in direction of flow (outside to in) is 10 barg (145.03 psig).

The maximum differential pressure in direction of flow (in to outside) is 5 barg (72.51 psig).

The maximum recommended continuous operating temperature range is -75 °C (-103 °F) to +200 °C (392 °F). Note: Temperature dependant on o-ring compound

	Parker hun	ter
ousing	Materials of Construction	

domnick

Housing Materials of Construction									
Material:	316L Stainless Steel								
Surface Finish									
Internal:	Electropolished Ra 0.8								
External:	Mechanical Polish								
Vent / Drain:	(Commercial Bright) 1/4" BSPP								
	Female Thread								
Seal Material:	(Supplied with Plug) EPDM Aseptic Seal								

Housing Design Pressure and Temperature 16 barg (232 psig) @ 200°C (392°F)

1 📇	Figure	Housing Code	Connection Size	Capacity Kg / hr @ 1 barg	Overall Height	Replacement Filter Code
	1 1 1	НВАНР01КҮ НВАНР011С НВАНР012С	1.5" (38.1 mm) 2" (50.8 mm) 2" (50.8 mm)	<100 mbar or 40 m / sec 1 μm 25 μm 21 45 40 160 82 280	14.8" (376 mm) 20.7" (526 mm) 30.5" (776 mm)	ZCSSKC ZCSS1C ZCSS2C

Note: For efficient steam distribution it is recommended that steam velocities are restricted to 25 m / sec⁻¹. For more information on the HBA range, please contact Parker domnick hunter,

Correction Factors

To use the table above, the steam flow rates must be at 1 barg (14.50 psig). For system flows at different line pressures, divide the system flow by the correction factor to find the equivalent flow @ 1 barg (14.50 psig).

Steam Pressure	0	1	2	3	4	5	6	7	8	9	10
Correction Factor	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5

Ordering information

ZC	SS	-]			ZC	HS]		
ode	Lengi	th	Code Rating	Nominal Micron 9 Steam	Code	End Cap (10")	Code	Leng	th	Code Rating	Nominal Micron g Steam	Code	End Cap (10'')
3	2.5"	(65 mm)	001	1.0 µm (Culinary)	В	dh DOE	В	2.5"	(65 mm)	001	1.0 µm (Culinary)	В	dh DOE
	5" 5"	(125 mm) (125 mm)	025	25.0 μm	C	226 Bayonet	A K	5" 5"	(125 mm) (125 mm)	005	5.0 µm	3	226 Bayonet 3" JUMBO
	10" 20"	(250 mm) (500 mm)			Code	End Cap (Demi)	1	10" 20"	(250 mm) (500 mm)			4	4" JUMBO
	30	(750 mm)					3	30	(750 mm)			Code	End Cap (Demi)
	40"	(1000 mm)			T	TRUSEAL Demi A & B Std	J	JUM	30				
	tridges su items	pplied as			2		All cai single		ipplied as			T Z	TRUSEAL Demi A & B Std

SINTERED Stainless Steel Retrofit Cartridge Part Numbers - 1.0 µm & 25 µm

Parker domnick hunter Cartridge	DS-R 3/1	DS-R 3/1.4	DS-R 4/1.5	DS-R 4/2.5	DS-R 5/2.5	DS-R 5/3	DS-R 10/3	DS-R 15/3	DS-R 20/3	DS-R 30/3	DS-R 30/5				
Retrofit Cartridge	GS3/1 SS3/1	GS3/1.5 SS3/1.5	GS4/1.5 SS4/1.5	GS4/2.5 SS4/2.5	GS5/2.5 SS5/2.5	GS5/3 SS5/3	GS10/3 SS10/3	GS15/3 SS15/3	GS20/3 SS20/3	GS30/3 SS30/3	GS30/5 SS30/5				
Parker domnick hunter Cartridge Retrofit Cartridge	DS-R 02/05 GS02/05 SS02/05	DS-R 02/10 GS02/10 SS02/10	DS-R 03/05 GS03/05 SS03/05	DS-R 03/10 GS03/10 SS03/10	DS-R 04/10 GS04/10 SS04/10	DS-R 04/20 GS04/20 SS04/20	DS-R 05/20 GS05/20 SS05/20	DS-R 05/25 GS05/25 SS05/25	DS-R 07/25 GS07/25 SS07/25	DS-R 07/30 GS07/30 SS07/30	DS-R 10/30 GS10/30 SS10/30	DS-R 15/30 GS15/30 SS15/30	DS-R 20/30 GS20/30 SS20/30	DS-R 30/30 GS30/30 SS30/30	DS-R 30/50 GS30/50 SS30/50
Parker domnick hunter Cartridge	PDS-R 02/05	PDS-R 02/10	PDS-R 03/05	PDS-R 03/10	PDS-R 04/10	PDS-R 04/20	PDS-R 05/20	PDS-R 05/25	PDS-R 07/25	PDS-R 07/30	PDS-R 10/30	PDS-R 15/30	PDS-R 20/30	PDS-R 30/30	PDS-R 30/50
Retrofit Cartridge	P-GS02/05 P-SS02/05	P-GS02/10 P-SS02/10	P-GS03/05 P-SS03/05	P-GS03/10 P-SS03/10	P-GS04/10 P-SS04/10	P-GS04/20 P-SS04/20	P-GS05/20 P-SS05/20	P-GS05/25 P-SS05/25	P-GS07/25 P-SS07/25	P-GS07/30 P-SS07/30	P-GS10/30 P-SS10/30	P-GS15/30 P-SS15/30	P-GS20/30 P-SS20/30	P-GS30/30 P-SS30/30	P-GS30/50 P-SS30/50



Steam Filters Utilities

Specifications - Sintered retrofit cartridges

Materials of Construction

Filtration Media:	0
	0
End Caps:	
Standard o-rings/gaskets:	I
	0

Sintered Stainless Steel (316L) 316L Stainless Steel EPDM (Standard) Silicone and Viton® (options available)

Recommended Operating Conditions

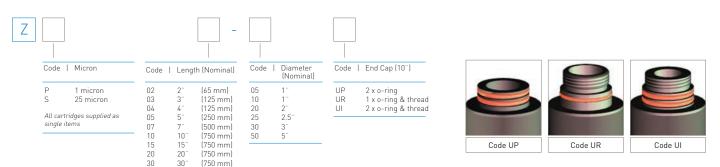
The maximum differential pressure in direction of flow (outside to in) is 10 barg (145.03 psig).

The maximum differential pressure in direction of flow (in to outside) is 5 barg (72.51 psig).

The maximum recommended continuous operating temperature range is -75 °C (-103 °F) to +200 °C (392 °F). *Note: Temperature dependant on o-ring compound*

Ordering Information

SINTERED retrofit cartridges



Description	L	D	Diagram	Description	L	D	Diagram	Description	L	D	Diagram
ZP/ZS 0310 UR	88	40	øD>	ZP/ZS 0210 UP	-		,≪—øD—≫	ZP/ZS 0205 UI	75	35	,≪−øD→>
ZP/ZS 0315 UR	88	40	← G →	ZP/ZS 0310 UP	86	35		ZP/ZS 0210 UI	93	35	← G →
ZP/ZS 0415 UR	124	40		ZP/ZS 0305 UP	-	-		ZP/ZS 0305 UI	89	35	
ZP/ZS 0425 UR	125	54		ZP/ZS 0410 UP	114	35		ZP/ZS 0310 UI	93	35	
ZP/ZS 0525 UR	152	54		ZP/ZS 0420 UP	117	40		ZP/ZS 0410 UI	121	35	
ZP/ZS 0530 UR	148	76	÷	ZP/ZS 0520 UP	141	40		ZP/ZS 0420 UI	127	40	-
ZP/ZS 1030 UR	269	76	Ĺ	ZP/ZS 0525 UP	141	54	. ∓ L	ZP/ZS 0520 UI	151	40	
ZP/ZS 1530 UR	405	76		ZP/ZS 0725 UP	193	54		ZP/ZS 0525 UI	151	54	
ZP/ZS 2030 UR	532	76		ZP/ZS 0730 UP	196	76	T	ZP/ZS 0725 UI	203	54	
ZP/ZS 3030 UR	784	76		ZP/ZS 1030 UP	269	76		ZP/ZS 0730 UI	206	76	
ZP/ZS 3050 UR	774	130	¥	ZP/ZS 1530 UP	396	76	♥	ZP/ZS 1030 UI	279	76	¥
				ZP/ZS 2030 UP	523	76		ZP/ZS 1530 UI	406	76	
				ZP/ZS 3030 UP	775	76		ZP/ZS 2030 UI	533	76	
				ZP/ZS 3050 UP	775	76		ZP/ZS 3030 UI	785	76	
								ZP/ZS 3050 UI	785	130	

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