

Filter Cartridges
Filtration Packages

www.Petro-Artan.com



info@Petro-Artan.com







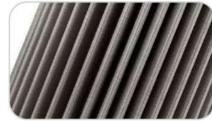
Filtration Grade

Select the filtration grade suitable for your application.



Premier

Fully TIG welded, this cartridge is suitable for temperatures up to 360°C.



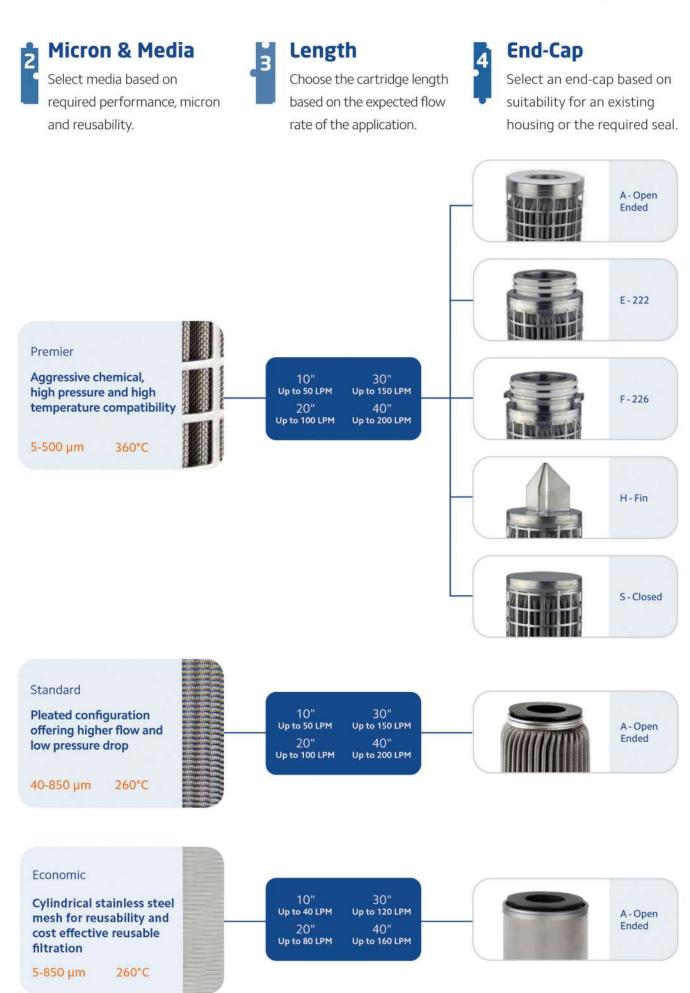
Standard

Pleated for higher dirt holding. Offers 3 times surface area of the Economic.

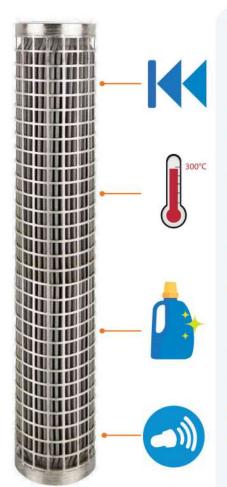


Economic

Welded with a cylindrical stainless steel mesh surface, complete with gasket.



The exacting construction of the PPS results in a robust cartridge capable of withstanding cleaning procedures which would typically damage or destroy consumable polymeric cartridges. These cleaning process enable stainless steel cartridges to be repeatedly reused, eliminating the disposal of expended single use cartridges, commonly deemed environmentally unacceptable. Depending on the characteristics



Reverse flow

of the contaminant and the solution there are different methods of cleaning that can be used.

Typically used when the majority of the contaminant is larger than the pore size of the filter media and remains on the surface of the cartridge, reverse flow is the simplest form of cleaning. Performed either in situ or externally, reverse flowing flushes the contaminant from the surface of the cartridge at pressures as low as 1 bar. The outer cage of the PPS means that higher pressure can be used to remove heavier loading.

High temperature burnout

The most aggressive form of cartridge cleaning, high temperature burnout is used to remove hardened adhesives, glues and paints. Exposing the cartridges to temperatures up to 300°C, collected contaminant is incinerated before being flushed and rinsed with filtered water.

Chemical cleaning

Due to the inert properties of the stainless steel media, aggressive chemicals and solvents can be successfully used to dissolve and remove both contaminant on the surface of the cartridge and finer embedded particulate within the depth of the media. Prior to reuse the cartridge is typically flushed with filtered water.

Ultrasonic cleaning

Using high-frequency sound waves, this technology breaks down hard, nondeformable particulate retained by the filter media. Once the contamination has been broken down, the cartridge is typically rinsed before use.

Replaceable gaskets after cleaning

After all cleaning processes it is recommended that gaskets are replaced to ensure a positive seal and reduce the risk of bypass, offering peace of mind. Fileder supplies a range of replacement gaskets and O-rings, available upon request.



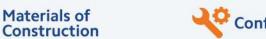
O E	fficienc	у							
			Ch	allenge Particulate S	iize				
		5µm	10µm	20µm	40µm	75µm	100µm	250µm	500µm
	5µm	95%	97%	99%	99+%	99+%			
ing	10µm		95%	96%	98%	99%	99+%		
Cartridge Micron Rating	20µm			95%	96%	97%	98%	99%	
icron	40µm				95%	97%	98%	99%	99%
N O	75µm					96%	98%	99%	99%
tridg	100µm						96%	98%	99%
ë	250µm							96%	98+%
	500µm								96%

Key Features

- Fully TIG welded 316L stainless steel and strengthened cage
- End-cap configuration options
- Highest temperature tolerances in the range

Typical Applications

- · High pressure differential applications
- · Environments where fewer cartridge cleans required



Filter media

Cage 316L Stainless Steel 316L Stainless Steel

Support media 316L Stainless Steel

EPDM / Teflon® / Viton®

Core

316L Stainless Steel



MOP & NPC



Micron (µm)

5 10 20 40 75 100 250 500

Length (") 10 20 30 40

End Caps AA EH ES FH FS

E = EPDM T = Teflon® V = Viton®

Specification

Efficiency

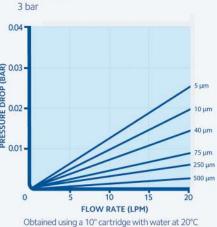
Surface Area 0.175 m² per 10"

Max. Operating Temperature 360°C at 5 bar

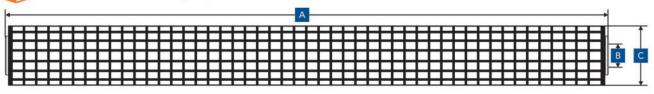
Max. Operating Pressure Differential

Max. Operating Reverse Pressure Differential

3 bar



Dimensions & Packaging



			A (mm)			B (mm)	C (mm)
Length	AA	EH	ES	FH	FS		
10"	250	319	275	317	273	27	65
20"	508	569	525	567	523	27	65
30"	750	819	775	817	773	27	65
40"	1000	1069	1025	1067	1023	27	65

Pac	ckaging
Box Qty	Box Weight (kg)
1	0.5
1	71
1	1.5
1	2

Bauble Point Test

Note: Dimensions ± 2mm





Standard Range

Increased Surface Area and Higher Dirt Loading Capacity

The all-welded pleated construction of the Standard range, offers over 3 times the surface area of the Economic, significantly improving permeability. The enhanced media construction, comprising of support

media either side of the filtration layer, results in higher dirt holding capacity, longer production times and fewer cartridge cleaning cycles.

Key Features

- Pleating mesh construction provides over 3 times the surface area of the Economic range
- Additional mesh layers introduce depth characteristics for higher dirt holding
- Support layer increases rigidity for high viscosity fluids and heavily loaded solutions

Materials of

Construction

Typical Applications

- Cosmetics
- Pharmaceutical
- Industrial Water Treatment



Specification

Efficiency

Surface Area

0.16 m² per 10"

Max. Operating Temperature

Max. Operating Pressure Differential

Max. Operating Reverse Pressure



40 75 100 250 500 850

Filter media Core 316L Stainless Steel 316L Stainless Steel

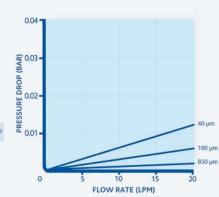
Support media

Cage (optional)

Buna / EPDM / Teflon® / Viton®

Length (") 9¾ 10 20 30 40

B = Buna E = EPDM T = Teflon® V = Viton®

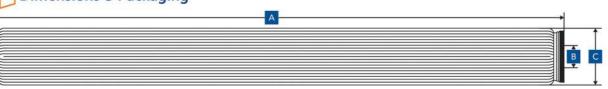


Obtained using a 10" cartridge with water at 20°C



MOP & NPC





		Pa	Packaging		
Length	A (mm)	B (mm)	C (mm)	Box Qty	Box Weight (kg)
9¾"	248	27	67:	51	0.5
10"	254	27	67	1	0.5
20"	508	27	67	1	1
30"	762	27	67	1	1.5
40"	1016	27	67	1	2









Economic RangeEntry Level Reusable Filtration

The cylindrical design provides a simple sleeve of filter media which is protected and supported by a woven mesh and central core. The media, central core and end fitting are welded together to ensure

cartridge integrity and to eliminate the risk of bypass. The cartridge is cleanable and re-useable which makes the Economic ideal for applications requiring low on-going costs.

Key Features

- All-Welded construction for strength and robustness
- 316L Stainless Steel cylindrical mesh allows for easy cleaning and re-use
- Wide range of micron ratings

Core

Buna / EPDM / Teflon®

Materials of

Construction

Typical Applications

- High pressure and high temperature applications
- Aggressive chemical compatibility

Configurations

Micron (µm)

250 500 850

Length (")

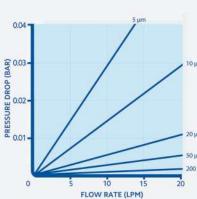


Surface Area 0.05 m² per 10"

Max. Operating Temperature

60°C

Max. Operating Pressure Differential 4.2 bar



Obtained using a 10" cartridge with water at 20°C

Seal

9¾ 10 20 30 40

5 10 20 40 75 100 200

MOP & NPC

Compliance

Filter media

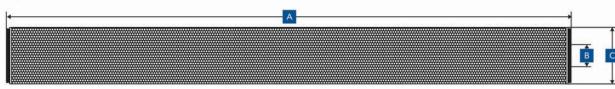
316L Stainless Steel

Support media

316L Stainless Steel

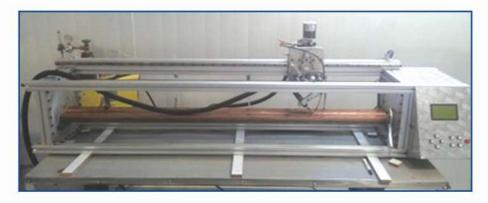
B = Buna E = EPDM T = Teflon® V = Viton®





		Dimensions (± 2mm)	Pa	Packaging		
Length	A (mm)	B (mm)	C (mm)	Box Qty	Box Weight (kg	
9¾"	248	27	64	1	0.5	
10"	254	27	64	1	0.5	
20"	508	27	64	1	-1	
30"	762	27	64	1	1.5	
40"	1016	27	64	1	2	













Filtration Grade

Select the filtration grade suitable for your application.



Standard

An entry level mono layer WRAS approved general grade filter.



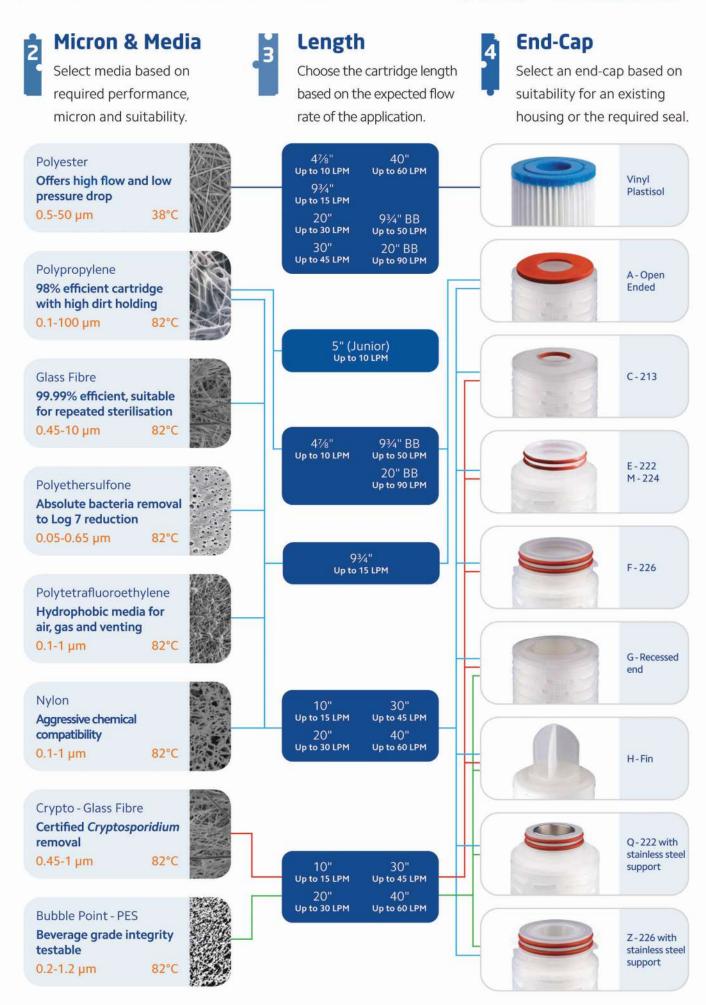
Premier

Multi-layered, high efficiency superior cartridge for precise classification.



Specialist

Targeted filtration for specific industry requirements.



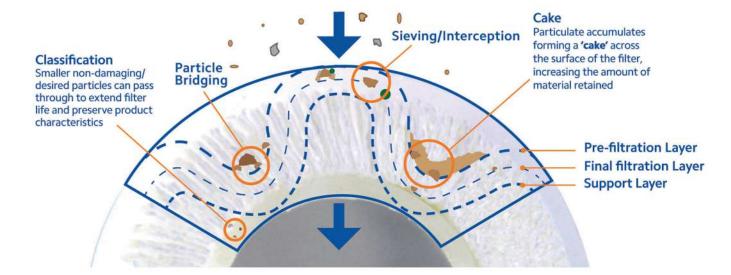




Pleated Technology

Pleated filters are widely used as effective surface filtration due to their excellent flow rates and high efficiency.

Pleating dramatically increases available surface area whilst maintaining high dirt loading and low pressure drops. Much of the media used in pleated cartridges also has some depth characteristics, thanks to its multi-layer construction, thereby aiding particle retention and classification.

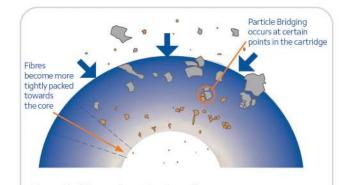


Surface Filtration Technology

Pleated filters are the ideal technology of choice over depth filtration for retention of known or uniformly sized particles.

The Standard (SPE) range of cartridges features a single layer media, which filters on the principles of direct interception and 'caking' where multiple particles accumulate across the media pore. Over time this leads to partial closure, which can increase efficiency and the chance to target finer particles.

The entire Premier range includes support and pre-filtration layers providing an element of depth characteristics. These layers retain larger particles, ensuring the specified micron rating of the cartridge can be utilised for exacting classification.



Depth Filtration Technology

The fibres become more tightly packed throughout a depth cartridge, progressively reducing the size of particles that can pass through the filter.

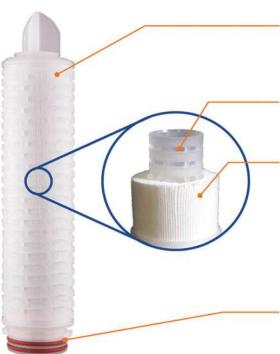
Advantage: Economic to produce.

Disadvantage: Higher pressure drop means a shorter service life compared to pleated cartridges.

Premier Pleat Construction

The Premier Pleat, Crypto and Bubble Point ranges are all constructed with a rigid inner core and outer polypropylene cage. Offering protection for the pleat pack, the cage also allows a variety of end-caps to be thermally bonded to the cartridge. This secure construction technique prevents bypass, creating a seal strong enough for repeated steam or chemical sterilisation as well as cartridge integrity testing.

Developments in 2018 see a new outer cage design that increases its void volume by over 10%. Whilst maintaining cartridge strength, increasing the open area allows a more uniform distribution of flow across the entire pleat pack ensuring low pressure drop and maximised dirt holding capacity.



Outer support cage

- Provides product strength and rigidity.
- Protects the pleat pack, ensuring media integrity.
- New outer cage design with increased void volume.

Inner support cage

 End-caps are bonded to the support core for product security and strength, ensuring no bypass and enabling integrity testing.

Media

- Pleated construction increases surface area, delivering high flow rates, low initial clean pressure drop and optimised dirt holding.
- Designed with an optimum balance of filtration media and void volume, the pleat pack is engineered to ensure that the entire surface area of the cartridge is used.

Thermally bonded end-cap

- · No adhesive ensures no leaching of additives.
- Numerous end-caps and seals available to suit various housings (refer to pages 32 and 33).

Identification

Lot Coded

- Laser etched lot code on membrane and Cryto cartridges
- Traceable back to raw materials

QR Code

 Links directly to further information for each product

Barcode

- Product traceability
- Stock management integration

Packaging

Four Protective Layers

- Vacuum sealed inner packaging
- Tough outer polybag layer provides additional protection
- Individual product boxes
- · Heavy duty outer carton





The removal efficiency of a filter is dependent on the criteria at which it is tested, along with the size and type of particulate challenge. The below table shows the efficiency of each PPP when using particle count analysis with AC Fine and AC Coarse Test Dust at various particulate challenges.

		Challenge Particulate Size										
		0.1 µm	0.2 µm	0.45 µm	1 µm	3 µm	5 µm	10 µm	20 µm	30 µm	50 µm	100 µm
	0.1 µm	95%	96%	98%	99%	99%	99%					
	0.2 µm	93%	95%	97%	98%	98%	99%					
	0.45 µm	82%	88%	96%	97%	98%	99%	99%				
ting	1 µm	80%	82%	94%	96%	97%	98%	99%	99%			
Cartridge Micron Rating	3 µm				86%	96%	97%	98%	98%	99%		
Micro	5 µm					90%	96%	97%	98%	99%	99%	
ridge	10 µm							97%	98%	98%	99%	99%
Cart	20 μm							91%	97%	98%	99%	99%
	30 µm								97%	97%	98%	99%
	50 µm									96%	97%	98%
	100 µm										95%	97%

Standard Diameter

With over 2000 possible configurations, the 70mm diameter range has the greatest diversity of micron ratings, lengths and end-caps available.



The PPP-BB, in 93/4" and 20", offers compact high efficiency filtration for flow rates up to 3 times the equivalent 70mm diameter cartridge.

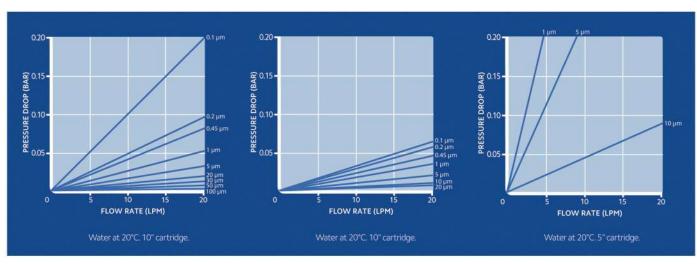
Junior

Designed to retrofit Filterite LMO, Advanta and Nuclepore housings.

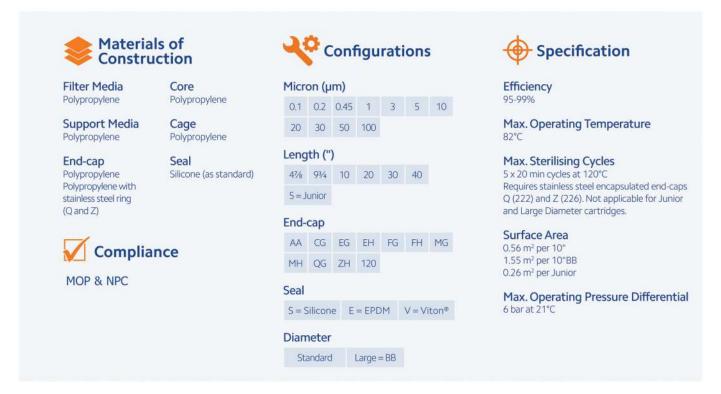




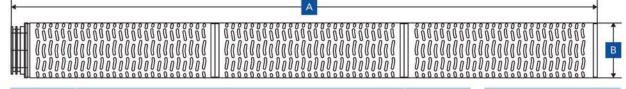












			A (mm)			B (mm)
Length (")	AA	CG	EG/FG/MG/QG	EH/FH/MH/ZH	120	
41/4	125	114			5	70
5 (Junior)	#	16	*	*	136	55
9¾	248	3		*	ĕ	70
10		241	270	310	67	70
20	508	506	520	560	¥)	70
30	750	ž.	770	810	製	70
40	1000	*	1020	1060	+1	70
9¾BB	248	2	2	2	23	115
20BB	508			-	+1	115

J.,	
Box Qty	Box Weight (kg)
18	2
18	4
9	4
9	4
9	7
9	10
9	14
4	3
4	6







End-Caps

Pleated Cartridge Configurations

Where product codes indicate an optional end-cap is available, a choice can be made from the following styles. End-cap variations are made to suit housing designs and application requirements, which dictate the reliability and integrity of the seal, along with the ease of cartridge change out.



Double Open Ended

Open-end gaskets, for use with housings containing a knife edge seal mechanism.



213 with Closed Recess

Single internal O-ring, seals onto housings that have a spigot.



EG / MG

Double external O-rings seal into female housing receiver with a closed, recessed end,

222/224 with Closed Recess

which is for housings with spigots.



EH / MH

222/224 with Fin Adaptor

Double external O-rings seal into female housing receiver whilst the Fin locates into housing plate holes to maintain vertical orientation.



FG

226 with Closed Recess

Bayonet type tabs lock into female housing receiver whilst the recessed end locates into housings with spigots.



FH

226 with Fin Adaptor

Bayonet type tabs lock into female housing receiver whilst the Fin locates into housing plate holes to maintain vertical orientation.

Stainless Steel Encapsulated End-Caps



QG

222 with Closed Recess

Suitable for high temperature housings, the QG configuration is suitable for repeated sterilisation and offers one of the best seals possible with its double O-ring fitting and stainless steel insert.



ZH

226 with Fin Adaptor

Suitable for multi-round high temperature housings, the ZH configuration provides the most positive seal with double O-rings and twin locking tabs. The encapsulated stainless steel insert makes the Z fitting suitable for repeated sterilisation.

Seals

Pleated Cartridge Configurations

Providing a water-tight seal between the housing and cartridge, O-rings and gaskets are essential to the integrity of the filter and come in a range of materials, including Silicone, EPDM, Teflon® and Viton® to suit most applications.









Silicone

EPDM

Teflon®

Viton®

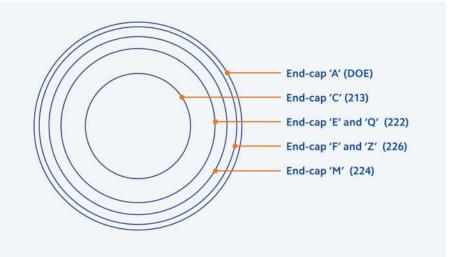
Chemical Compatibility

The below table details the different compatibility of each O-ring within different applications. (Source: Cole-Parmer)

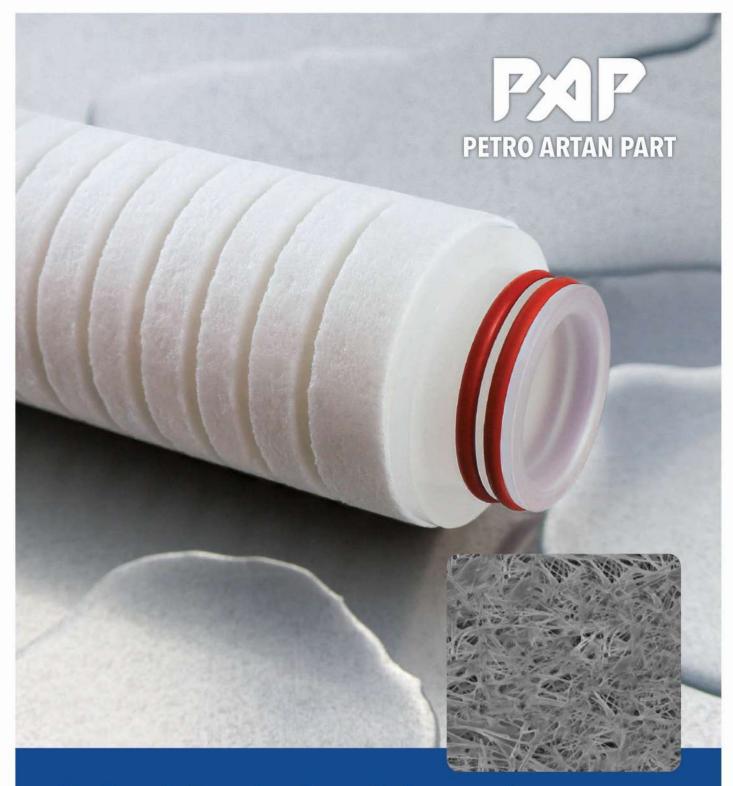
	Silicone	EPDM	Teflon	Viton*
Beer	Excellent	Excellent	Excellent	Excellent
Whisky & Wine	Excellent	Excellent	Excellent	Excellent
Deionised Water	Fair	Excellent	Excellent	Excellent
Alcoholic Methyl	Excellent	Excellent	Excellent	Fair
Aromatic Hydrocarbons	Poor	Poor	Excellent	Excellent
Sodium Hydroxide	Excellent	Good	Excellent	Poor
Hydrochloric Acid	Poor	Poor	Excellent	Excellent
Synthetic Hydraulic Oil	Good	Excellent	Excellent	Excellent

O-ring Sizing

This actual size chart is a useful aid in identifying common replacement O-rings. Place your current O-ring onto the chart to match the size required.







TruDepth Premier Spun Polypropylene

1-50 micron

With higher efficiency and a longer service life than both the Economic and Standard spun, the PSP is the most versatile and adept cartridge in the TruDepth range. The deep grooved construction significantly increases the surface area, maximising the dirt holding

capacity of the cartridge whilst the integral support core increases pressure and temperature operating conditions. Available with a range of end-caps for added seal security and operator ease for fitting in multi-round housings.

Key Features

- Deep-grooved finish for highest surface area and lowest pressure drop
- End-cap options for secure sealing
- A 4mm thick polypropylene core increases strength and temperature performance

Core

Seal

Polypropylene

Silicone (as standard,

Materials of

Filter Media

MOP & NPC

End-cap (Optional)

Compliance

Construction

Typical Applications

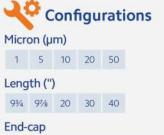
- Food and Beverage
- · Chemical manufacture
- Incoming water



Efficiency

Max. Operating Temperature

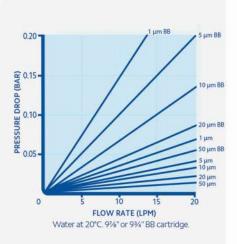
Max. Operating Pressure Differential





Seal $S = Silicone \quad E = EPDM \quad V = Viton^{\oplus}$

Diameter
Standard Large = BB



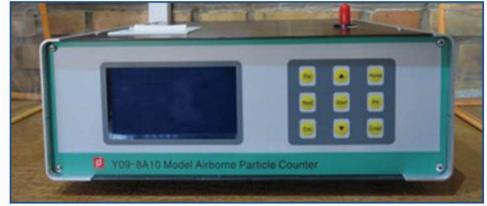




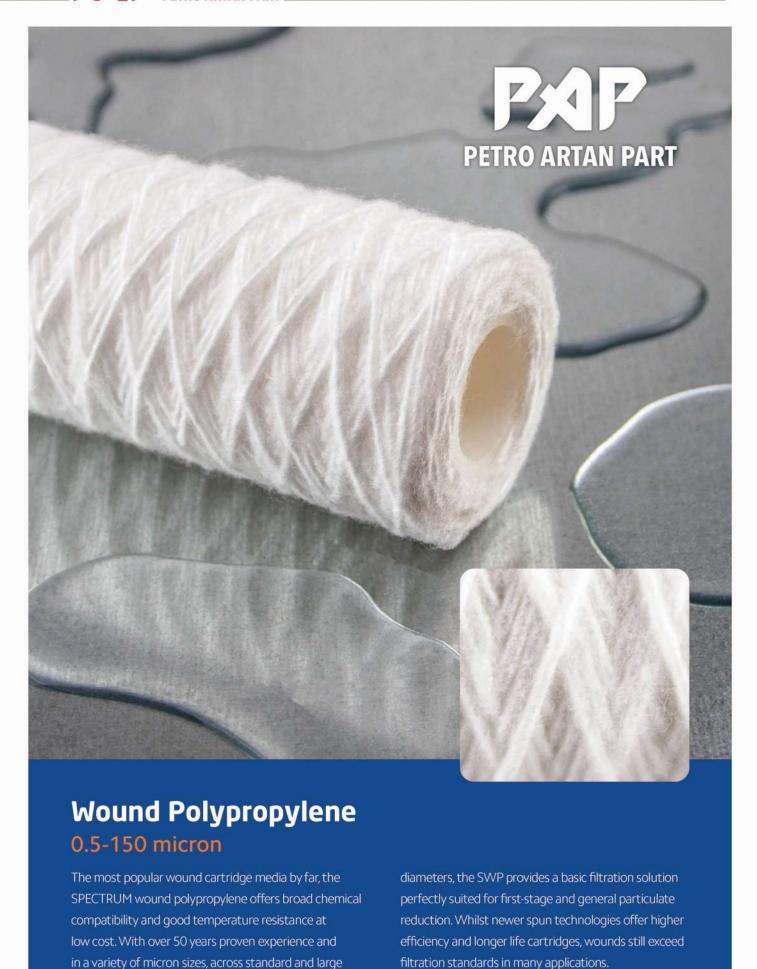
		Dimensions (mm)							
	Α			В			С		
Length (")		Blank	EH/MH	ES/ MS	FH	XK			
91/4	28	250	317	278	322	310	63		
20	28	508	575	536	580	568	63		
30	28	762	829	790	834	822	63		
40	28	1016	1083	1044	1088	1076	63		
934BB	30	248	- 2		51	12	115		
20BB	30	508	12	2	(2)	1/2	115		

Packaging					
Box Qty	Box Weight (kg)				
15	4				
15	8				
15	12				
15	16				
4	2				
А	4				









Key Features

- Tried and tested with over 20 years of experience
- Broad chemical compatibility

Typical Applications

- · General particulate filtration
- · Sand, silt and rust removal
- Batch process

Specification

Efficiency

Max. Operating Temperature

Max. Operating Pressure Differential 2 bar at 21°C



Filter Media Polypropylene

Core Polypropylene

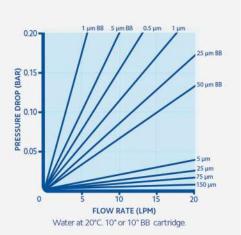


Compliance

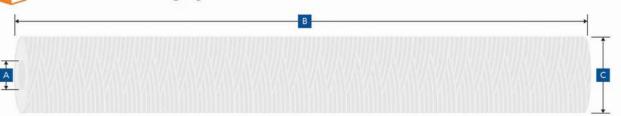
MOP & NPC



Diameter Standard Large = BB

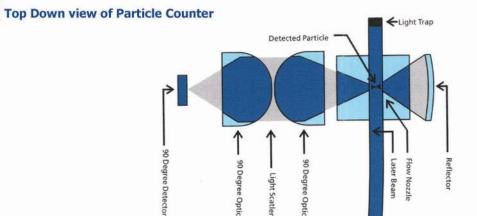






	Dimension (mm)					
Length (")	A	В	C			
41/8	28	124	63			
10	28	254	63			
20	28	508	63			
30	28	762	63			
40	28	1016	63			
10BB	30	254	115			
20RR	30	508	115			

Packaging		
Box Qty	Box Weight (kg)	
48	5	
24	6	
24	12	
9	7	
9	9	
4	3.5	
4	7	









Filtration Grade

Select the filtration grade suitable for your application.



Economic

Single layer media, offering the widest micron range and media choice.



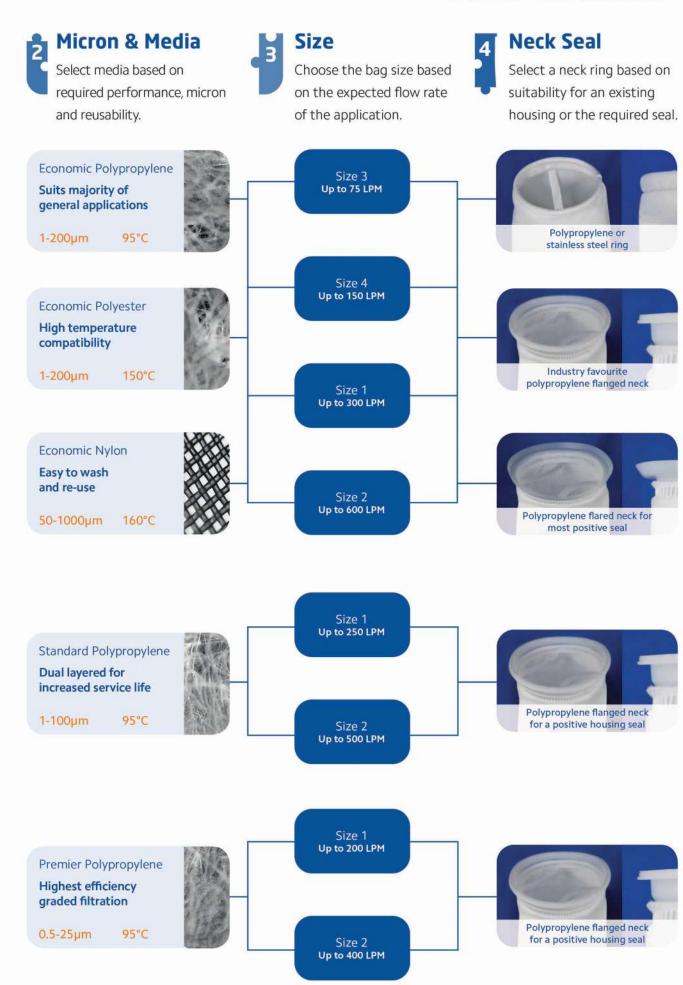
Standard

Effective pre-filter layer extends service life



Premier

Multi-layer construction for highly efficient particle removal.







Polypropylene Felt (P)

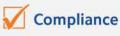
- Glazed surface finish to prevent fibre migration into the filtrate
- Broadest chemical compatibility
- · Single layer media with welded seams

Polyester Felt (E)

- Excellent for high temperature solvent compatibility
- Single layer media with welded seams
- Glazed surface finish avoids fibre migration

Nylon Mesh (N)

- Suitable for washing and re-using
- Monofilament mesh with stitched seams provides a high strength media
- Binded Seams



MOP & NPC





Ring seal fits a wide range of housings (E/ES)



Industry favourite (retrofit for FSI, GAF and Hayward) flanged neck (S)



Specification

Neck Material

Polypropylene (E, S, P) Stainless Steel (ES)

Max. Operating Temperature

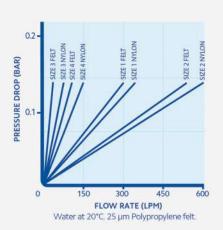
Polypropylene-95°C

Polyester - 150°C (with ES Neck)

Nylon -160°C (with ES Neck)

Max. Operating Pressure Differential

1 bar

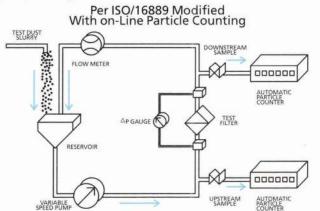






		Dimensions			Pack	aging	
Bag Size	A (mm)	B (mm)	Area (m²)	Box Qty	Box Weight (kg) Polypropylene	Box Weight (kg) Polyester	Box Weight (kg) Nylon
3	102	229	0.07	50	3	3	2
4	102	356	0.12	50	4	4	2
i	178	406	0.23	50	8	8	3
2	178	813	0.41	50	15	15	4









Flow rates up to 150 LPM

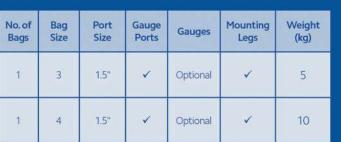
Inox Size 3 & 4 Housing

Size 3 and 4 bag filters are ideally suited to batch processes or multi-line applications where economic costs and frequent changeouts are required. The

reduced footprint of a size 3 and 4 bag housing also makes these suitable for applications with space limitations.









Standard Housing



Gauges (PG3)

11 bar ¼" glycerine filled stainless steel back mounted pressure gauge.





Flow rates up to 300 LPM

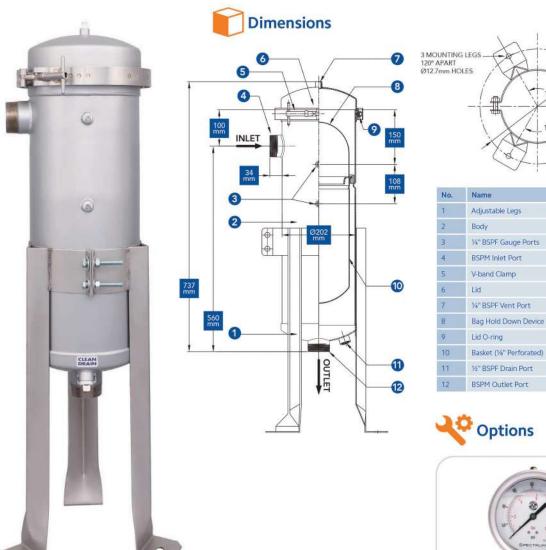
Inox Size 1 Housing

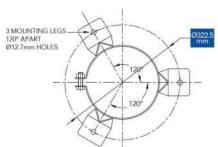
The SPECTRUM size 1 stainless steel housings range come available in both Standard, v-band clamp closure and Premier, swing-bolt configurations.

Premier housings come complete with pressure gauges providing essential pressure drop information to effectively monitor system performance.



Standard Housing





No.	Name	Material
1	Adjustable Legs	304 SS
2	Body	316LSS
3	1/4" BSPF Gauge Ports	316LSS
4	BSPM Inlet Port	316LSS
5	V-band Clamp	304 SS
6	Lid	316L SS
7	14" BSPF Vent Port	316LSS
8	Bag Hold Down Device	316LSS
9	Lid O-ring	Buna-N
10	Basket (1/4" Perforated)	316LSS
11	1/2" BSPF Drain Port	316L SS
12	BSPM Outlet Port	316L SS

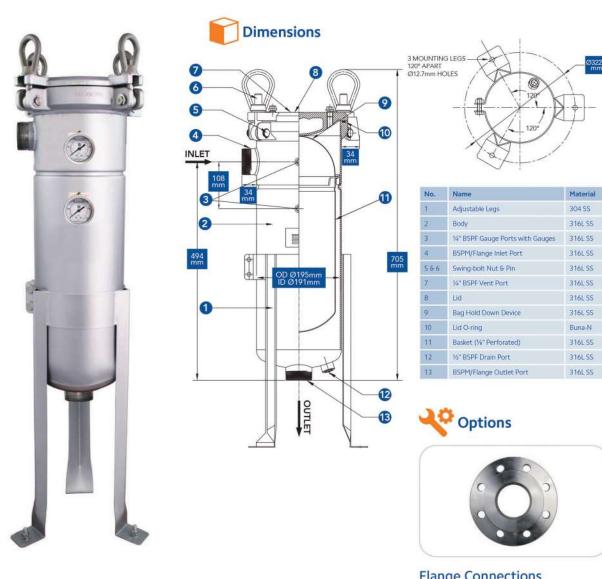


Gauges (PG3) 11 bar 1/4" glycerine filled stainless steel back mounted pressure gauge.

No. of Bag Size Mounting Weight Port Gauge Gauges Size (kg) Bags Legs 2"BSPM Optional 19 3"BSPM 1 19 Optional 1 1 29 1 1 2"BSPM 3"BSPM 29 34 2"DN50 3"DN80 34



Premier Housing



Flange Connections

DN50 and DN80 316L stainless steel flange connections for ease of installation and to provide security at higher flow rates.



Flow rates up to 600 LPM

Inox Size 2 Housing

The largest of the single-round range, the size 2 stainless steel bag housings provide a solution to high flow rate and bulk solid removal applications.

With high dirt loading capabilities, systems and processes can stay online for longer.



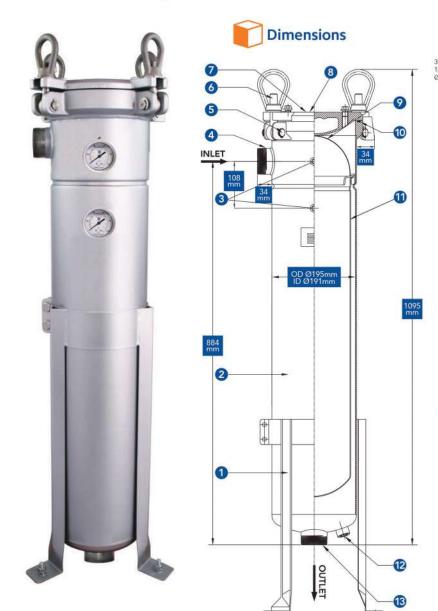
Standard Housing

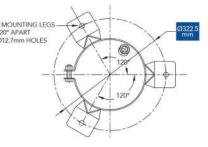






Premier Housing





Name	Material
Adjustable Legs	304 SS
Body	316LSS
1/4" BSPF Gauge Ports with Gauges	316L SS
BSPM/Flange Inlet Port	316L SS
Swing-bolt Nut & Pin	316L SS
14" BSPF Vent Port	316L SS
Lid	316L SS
Bag Hold Down Device	316L SS
Lid O-ring	Buna-N
Basket (¼" Perforated)	316L SS
1/2" BSPF Drain Port	316L SS
BSPM/Flange Outlet Port	316LSS
	Body W"BSPF Gauge Ports with Gauges BSPM/Flange Inlet Port Swing-bolt Nut & Pin W"BSPF Vent Port Lid Bag Hold Down Device Lid O-ring Basket (%" Perforated) W"BSPF Drain Port





Flange Connections
DN50 and DN80 316L stainless steel
flange connections for ease of installation
and to provide security at higher flow rates.



Flow rates up to 4,000 LPM

Inox Multi-Round Housing

Designed to suit industry standard size 2 bag filters, multi-round heavy duty housings are suited to highvolume, high dirt-loading and demanding applications. Each housing utilises a swing-bolt closure system, davit arm assembly and pressure gauges supplied as standard to simplify bag filter operation and changeouts.



Premier Housing





Davit Arm
Included as standard, the davit lifting arm improves operator safety, whilst making filter change-out quicker, cleaner and more efficient.



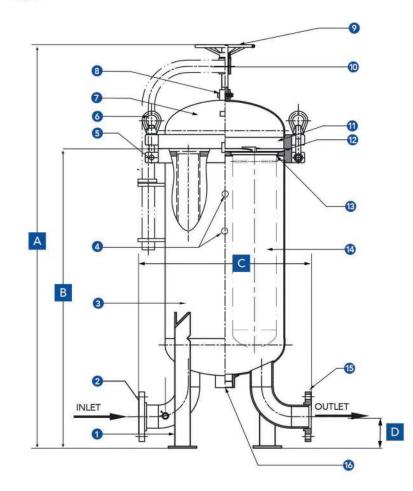
Precise Design
The engineered design ensures e

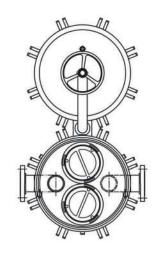
The engineered design ensures each bag is securely fitted and held in place, providing a positive seal to minimise particulate bypass.











No.	Name	Material
1	Mounting Legs	304L SS
2	Flange Inlet	316LSS
3	Body	316L SS
4	1/4" FNPT Gauge Ports with Gauges	316L SS
566	Eyebolt Nut & Pin	Zinc Plated Steel
7	Lid	316L SS
8	16" FNPT Vent Port	316L SS
9810	Handle & Davit Arm	Zinc Plated Steel
11 8 12	Basket Seal	Buna-N
13	Bag Hold-Down Device	316L SS
14	Basket (1/4" Perforated)	316L SS
15	Flange Outlet	316LSS
16	3/4" FNPT Drain Port	316LSS

Flow Rate (LPM)	A (mm)	B (mm)	C (mm)	D (mm)
800	1540	1143	660	120
1350	1589	1155	762	127
1800	1589	1155	762	127
2250	1761	1087	850	233
3400	1761	1168	990	152



Stainless Steel Multi-Round Housings

From 3 round to 36 round

Offered in two versions, Standard and Premier, excepting flow rates from 11 to 3600 lpm. The Premier range incorporates swing bolt closures and, in the larger sizes, a davit arm assembly, for easy and safe housing maintenance. The Premier range is supplied with pressure gauges as well as DN flanged connections for simple line connection. The Standard range is manufactured from the same high quality material and to the same design standards as the Premier range, however the closing device is the industry accepted V-band clamp and the ports are threaded. To provide the flexibility both the Premier and Standard ranges are supplied complete with a universal cartridge plate.

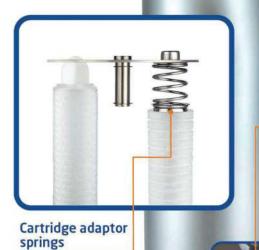




Legs

Supplied as

standard on all housings, enabling housing to be secured to the floor for safety and security.



Designed to facilitate the installation of DOE or AA cartridges, the springs create a secure seal between the cartridge and housing top plate.

Baffle Plate

Placed on the inlet, the baffle plate deflects the water up into the housing, distributing flow across all cartridges.



monitoring of differential pressure.

Universal Plate

Supplied as standard, the plate allows for both DOE/ AA and 222 end cap filters to be installed, at no extra cost.





Premier Features







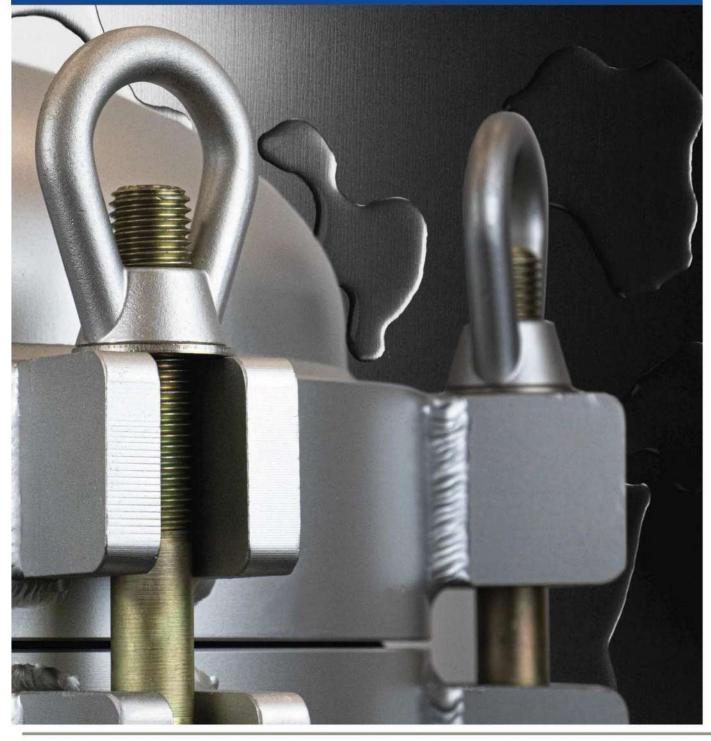




Stainless Steel Multi-Round Housings

Premier

Designed with the user in mind, the swing bolt and hinged lid or Davit arm assembly enables cartridge changeout to be achieved with no loose parts, heavy lifting or tools required. Manufactured with lids weighing up to 60 kg, these heavyduty housings ensure all health and safety angles are covered by this Premier housing feature, whilst also providing reduced labour operation for engineers carrying out cartridge changeouts. Extensive stock holding, along with complete technical back up, ensures confidence in finding the correct housing for each application. All housings come complete with a universal plate which is capable of accepting both DOE and 222 fittings.







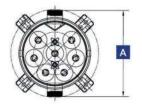
Multi-Round Inox Filter Housings

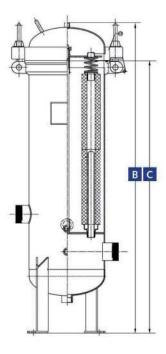
Premier - 7 Round

The Premier range benefits operators with a swing bolts and hinged lid configuration which keep the head secured to the vessel during cartridge changeout. Additional drain ports also assist cartridge changeout allowing for complete emptying of the housing, while the supplied pressure gauges provide accurate differential pressure readings for filter monitoring. The 7 round housings accept seven cartridges in 30" or 40" with 2" BSPM inlet and outlet connections with the 40" being the first in the range to be available with 3" flanged connection.









Key Features

Pressure Vent

Vent pressure after use or release

trapped air after cartridge changeout.

Tie Rod and Top Plate

Mobile, adjustable plate ensure simple installation and allows

for length variations.

2" BSPM in standard configurations.

4x Mounting

Heavy duty, stainless

steel legs bolt to the

Located on the clean

and dirty side, the drain ports allow for easy and

quick emptying of the

floor for security.

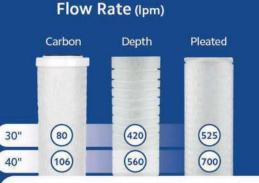
Drain Ports

fluid within.

Inlet

Legs

- Swing bolt closure for a secure seal
- Universal cartridge adaptors securely hold 222, DOE or AA
- Drain ports allow for quick and easy cartridge change-outs
- · Protective polycoat finish





Port Sizes (")

2	(3
RSDM	D

3F

Cartridge Compatibility (")



End-Cap Compatibility











Temperature (°C) Pressure Rating (bar)

120



Materials

Head & Body - 316L Stainless Steel - Polycoated Eye Nut & Swing Bolt - 304 & Zinc Plated Steel

Legs - 304 Stainless Steel	O-Ring - Buna

Description	Box Weight (kg)
PAP INOX Premier Filter Housing 7 X 30" 2" BSPM with Gauges	50
PAP INOX Premier Filter Housing 7 X 40" 2" BSPM with Gauges	55
PAP INOX Premier Filter Housing 7 X 40" 3" DN80 Flange with Gauges	57

Swing Bolt Provides a quick

and convenient

sealing method.

Allowing for easy removal of the head

Surface Finish The polycoat finish

provides everyday

protection, guarding against corrosion.

Universal Cartridge Plate

DOE/AA and 222 compatible.

2" BSPM port carries

Pressure Gauges

Supplied as standard

with Premier housings,

the gauges allow for

easy monitoring of

differential pressure.

filtered fluid out.

Flange options

Outlet

Hinged



Head & Body - 316L Stainless Steel - Polycoated

Eye Nut & Swing Bolt - 304 & Zinc Plated Steel

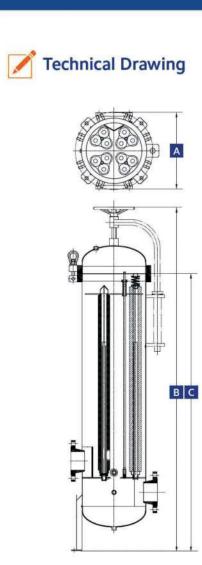
Legs - 304 Stainless Steel O-Ring - Buna-N

Multi-Round Inox Filter Housings

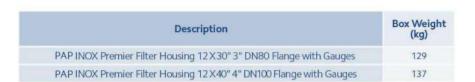
Premier - 12 Round

Larger Premier housings, starting from the 12 round, offer additional peace-of-mind by utilising a swing bolt and Davit arm assembly. This feature, safely and effortlessly moves the housing lid to one side during changeout, eliminating the need for heavy lifting and significantly reducing downtime. Accommodating flowrates up to 1200 litres per minute, these housings include 3" DN80 inlet and outlet connections on the 12 x 30" version and 4" DN100 on the 12 x 40". Drain ports for complete emptying of the housing during changeout and pressure gauges to provide accurate differential pressure readings for filter monitoring.









fluid out.

Pressure Gauges

Supplied as standard

with premier housings,

the gauges allow for

easy monitoring of

differential pressure.

floor for security.

Drain Ports

fluid within.

Located on the clean and dirty side, the drain

ports allow for easy and

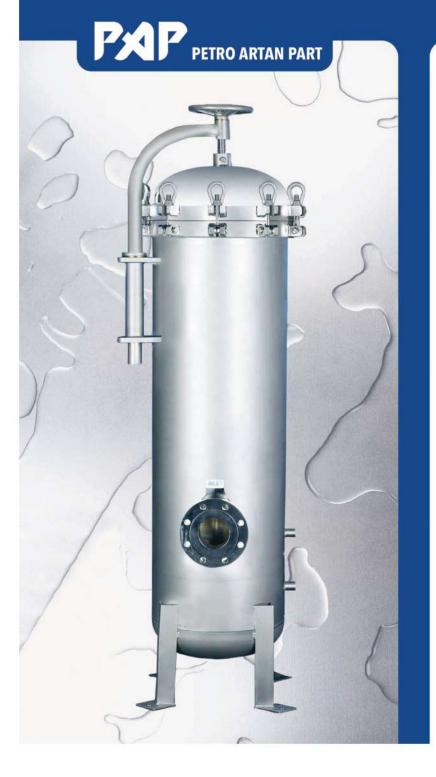
quick emptying of the

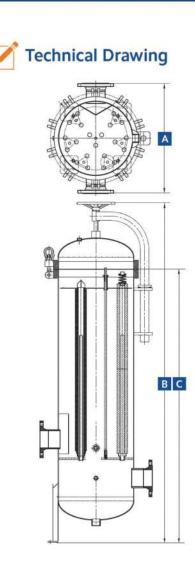


Multi-Round Inox Filter Housings

Premier - 21 Round

The 21 round housing utilises a swing bolt and Davit arm assembly to safely and effortlessly move the housing lid to one side, eliminating the need for heavy lifting and significantly reducing downtime during changeout. Providing effective filtration equivalent to 84 10" cartridges, this housing is supplied with 4" DN100 inlet and outlet connections, drain ports for complete emptying of the housing during changeout and pressure gauges to provide accurate differential pressure readings for filter monitoring.





Key Features

Mobile, adjustable

plates ensure simple

for length variations.

4" DN100 flanged connection as

4x Mounting Legs

Heavy duty, stainless

steel legs bolt to the

Located on the clean

and dirty side, the drain

ports allow for easy and

quick emptying of the fluid within.

floor for security.

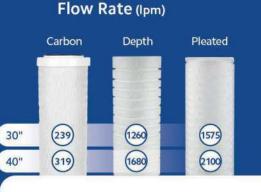
Drain Ports

Inlet

standard.

installation and allows

- · Swing bolt closure for a secure seal
- Universal cartridge adaptors securely hold 222, DOE or AA cartridges
- Drain ports allow for quick and easy cartridge change-outs
- Protective polycoat finish





The polycoat finish

provides everyday

against corrosion

protection, guarding

Universal Cartridge Plate

DOE/AA and 222

compatible.

4" DN100 flange

carries filtered

Pressure Gauges

Supplied as standard

with premier housings,

the gauges allow for easy monitoring of differential pressure.

Outlet

fluid out.

30	40
End-Cap	Compatibility



222	DOE	A
5/EH	Double	Gasl
nded	open ended	end
Pleat	eg TruDepth	eg. Ca

Temperature (°C)	Pressure Rating (bar)

1	2	0	



Materials

Head & Body - 316L Stainless Steel - Polycoated

Eye Nut & Swing Bolt - 304 & Zinc Plated Steel

Legs - 304 Stainless Steel O-Ring - Buna-N

Description	Box Weight (kg)
PAP INOX Premier Filter Housing 21 X 30" 4" DN100 Flange with Gauges	218
PAP INOX Premier Filter Housing 21X40" 4" DN100 Flange with Gauges	237





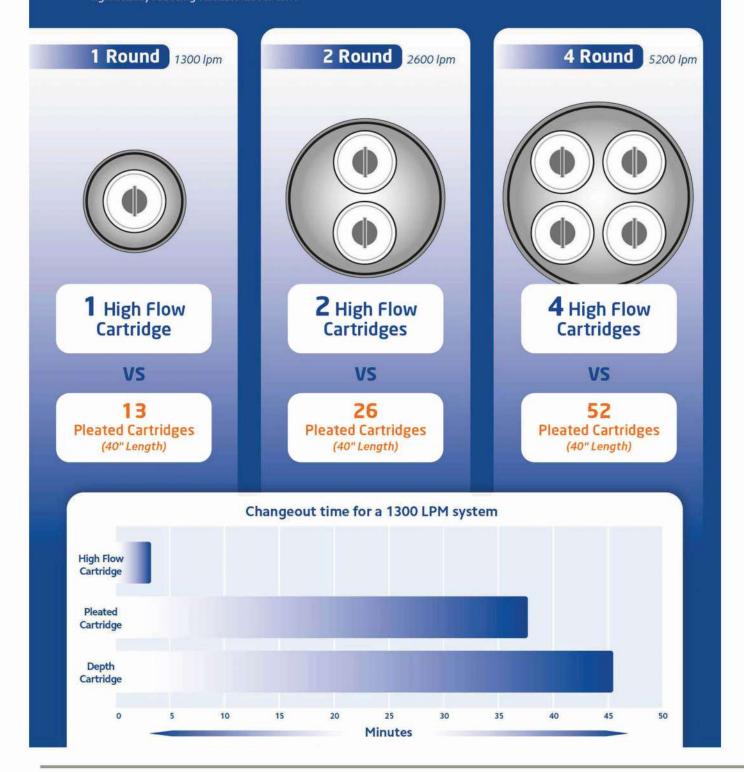
High Flow vs Traditional Cartridges

Enhanced Design

- Offers up to 350% higher flowrate than regular diameter cartridge alternatives
- Reduced footprint can provide the perfect solution to limited floorspace installations
- Swing-bolt closures allow tool-free changeout, significantly reducing valuable labour time

Reduced Costs

- Engineered housings allow higher flow rates in a comparably smaller design offering significant cost savings
- Replacement high flow cartridges can cost over 80% less than regular diameter cartridges for the same flow rate system



Higher Dirt Holding

- Increased surface area and multi-layered graded density filter matrix provides greater dirt holding capacity
- A single 40" high flow cartridge can hold as much as 7kg of dirt, equivalent to almost 5 x 40" regular cartridges
- Increased dirt holding capacity results in fewer changeouts and less system downtime

Simple to Install

- Simple to install, highflow cartridges have an ergonomic and robust handle for easy changeout
- 6" diameter pleated design creates massive surface area allowing huge flow rates and low pressure drops
- Inside-to-out flow pattern ensures particulate is retained within the cartridge during changeout







Inox High Flow Filter Housings

Features

Manufactured from 316L stainless steel, the PAP Inox High Flow range is supplied with a host of easy-to-use features such as swing bolt and Davit arm closure mechanisms for reduced change out time, included pressure gauges for accurate pressure drop monitoring, a housing top plate to reduce bypass and flanged inlet and outlet ports to suit typical industry pipework.

Cartridge Compatibility

PAP High Flow filters are high surface area filters developed to suit large scale applications where maximum efficiency is required.





Gauges

Pressure gauges (supplied as standard) optimise service life, acting as a visual indicator for cartridge changeout.

Pressure Vent

Used to depressurise the housing and allow safe handling.

Housing Body

316L stainless steel body with glass beaded finish provides durability.

Top Plate

Once cartridges are installed a top plate is fitted for safety and security to prevent bypass.

Mounting Legs

Heavy duty, stainless steel, saddle style legs bolt to the floor, offering stability and







Drains

Enables efficient draining of the unit to allow quick and easy changeout.



Manufactured as standard on all multi-round systems, the Davit arm assembly enables quick cartridge changeout and safe operation.



Flange

Supporting easy engineering and high flow rates, all multi-round systems come with flanged connections.

