

AQUARit™

advanced water systems



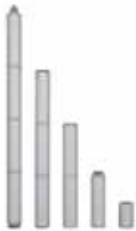
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AQUARiTTM

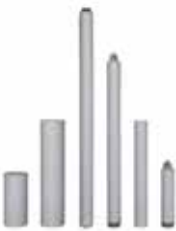
Showcasing the latest innovative and established products, AQUARiT has the complete range of fluid filtration, water treatment and purification solutions.

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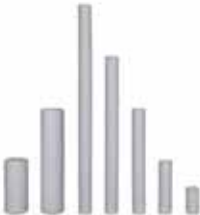
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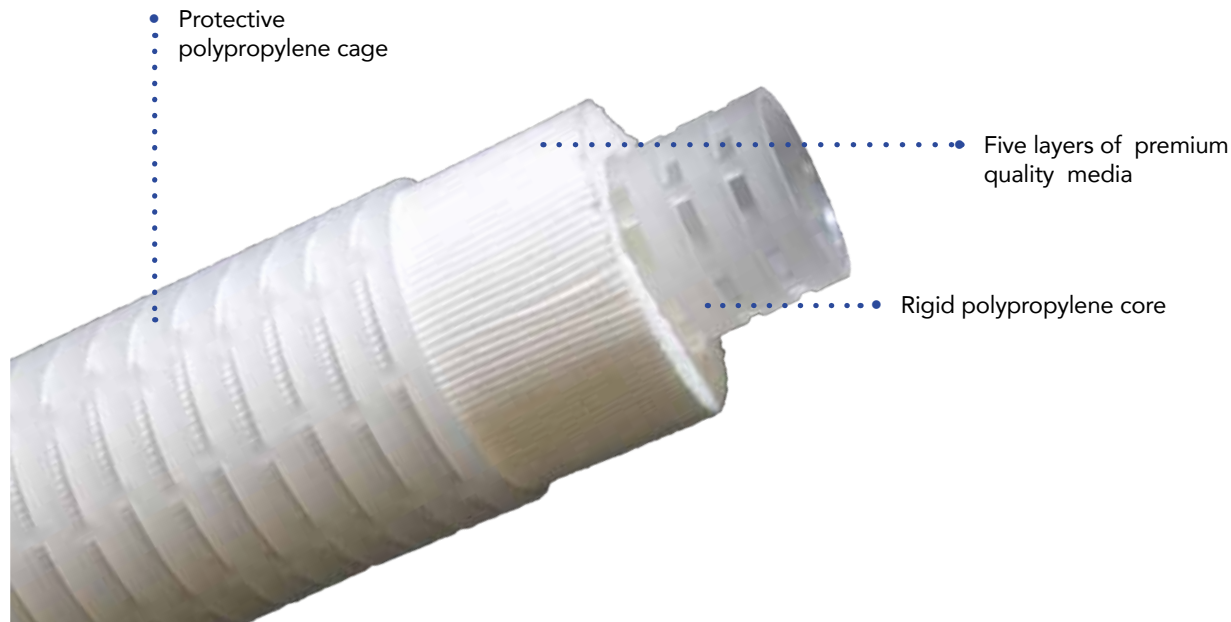
Constructed from FDA compliant media, the multi-layered PPP consistently and effectively removes the desired particle size, whilst still allowing finer particles through. A high performance cartridge, the all polypropylene construction give the premier pleat range wide application suitability.

Features & Information

- Superior media surface area of 0.6m² ensures superior flow and higher dirt-holding capacities of up to 50% more than some other industry comparable cartridges
- Sharp cut-off characteristics created by the superior media ensure dependable particle removal of the size required, therefore maximising filter life and application integrity
- FDA compliant media offering 11 micron sizes, 6 standard length options and 9 end cap choices, this range is versatile in its application suitability and capabilities
- Thermally-bonded ensuring no leaching of adhesives into the filter stream, particularly important for certain applications such as food and beverage
- Extensive chemical compatibility is achieved with all-polypropylene construction

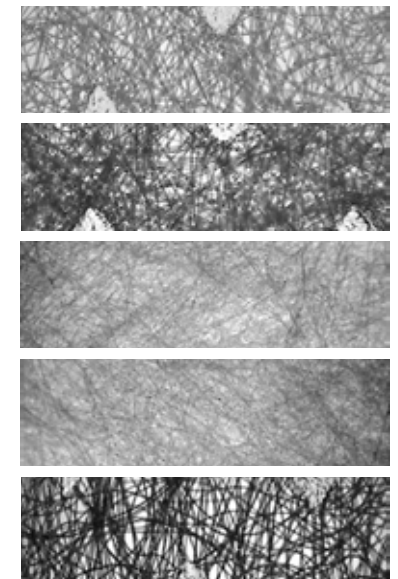
Applications & Industries

- Pre or final stage filtration of general water applications
- Beverage applications requiring purification or clarification
- Hospitals where secure seals are required and cartridge integrity is important

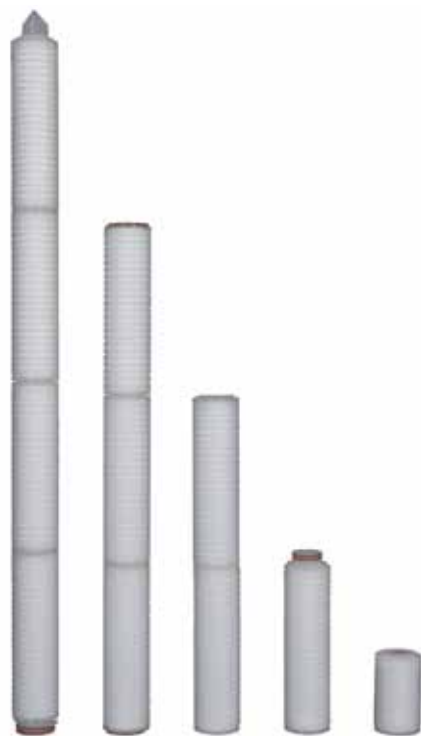


Layers

- 1 Coarse outer prefiltration layer
- 2 Finer secondary prefiltration layer
- 3 First polypropylene main filtration layer
- 4 Finer secondary polypropylene main filtration layer
- 5 Postfiltration support layer



PREMIER PLEAT POLYPROPYLENE



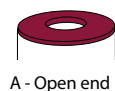
Product Specification

Material of Construction	POLYPROPYLENE
Maximum Temperature	82°C
Filter Lengths (")	4 ⁷ / ₈ , 9 ³ / ₄ , 10, 20, 30, 40
Micron Ratings (μ)	0.1, 0.2, 0.45, 1, 3, 5, 10, 20, 30, 50, 100

Ordering Details

Product Code	Micron (μ)	Standard Diameter Lengths (")	End Caps	Seal Material		
PPP	0.1, 0.2, 0.45, 1, 3, 5, 10, 20, 30, 50, 100	4" 9", 10, 20, 30, 40	AA, CG AA, CG, EG, EH, FG, FH, MH, QG, ZH	STANDARD SILICONE = S OPTIONAL EPDM = E VITON = V		
PPP						
e.g. PPP-3- 9"/CGS						
Packaging	4"	9"	10"	20"	30"	40"
	24 at 5kg	24 at 9kg	24 at 9kg	12 at 9kg	12 at 13kg	12 at 18kg

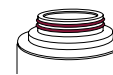
End cap options



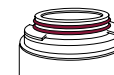
A - Open end



C - 213



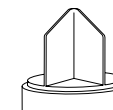
E - 222 / M - 224
Q - 222 SS ins



F - 226
Z - 226 SS insert

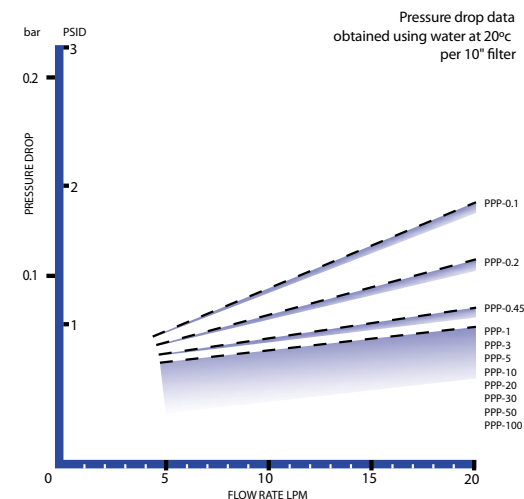


G - Closed end



H - Fin

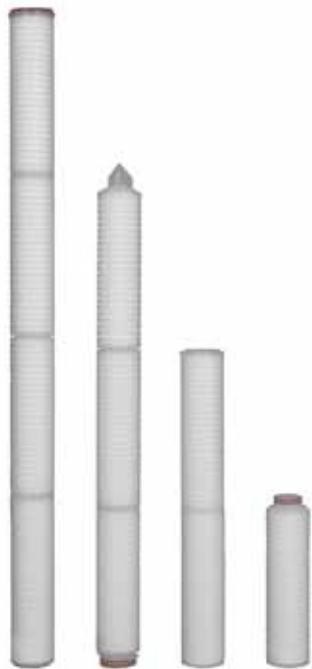
Product Performance



Retention Efficiency %											
Pore Size	0.1 μ	0.2 μ	0.45 μ	1 μ	3 μ	5 μ	10 μ	20 μ	30 μ	50 μ	100 μ
0.1 μ	95	96	98	98+	99	99+					
0.2 μ	93	95	97	98	98+	99+					
0.45 μ	82	83	96	97	98	99	99+				
1 μ	80	82	94	96	97	98	99	99	99+		
3 μ	30	59	82	86	97	97+	98+	98+	99	99	
5 μ				47	90	97	98	98+	99	99	99
10 μ					30	57	98	98	98+	99	99
20 μ					29	56	91	98	98+	98+	99
30 μ					28	55	90	97	98	98	98+
50 μ					26	54	89	96	97	97+	98+
100 μ							29	48	89	94	98

Particle removal efficiencies are determined using AC Fine Test Dust dispersed in water at a constant flow rate up to a differential pressure of 2.75 bar

PREMIER PLEAT POLYETHERSULFONE



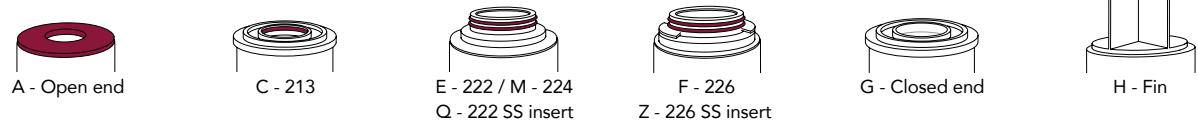
Product Specification

Material of Construction	POLYETHERSULFONE
Maximum Temperature	82°C
Filter Lengths (")	9 ³ / ₄ , 20, 30, 40
Micron Ratings (µ)	0.2, 0.45

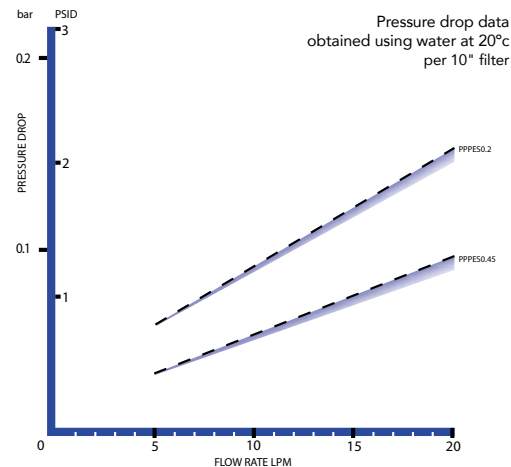
Ordering Details

Product Code	Micron (µ)	Standard Diameter Lengths (")	End Caps	Seal Material
PPES	0.2, 0.45	9 ³ / ₄ , 20, 30, 40	AA, CG, EG, EH, FG, FH, MH, QG, ZH	STANDARD SILICONE = S OPTIONAL EPDM = E VITON = V
PPES				
e.g. PPES-0.2-40EHS				
Packaging	9 ³ / ₄ " 24 at 9kg	20" 12 at 9kg	30" 12 at 13kg	40" 12 at 18kg

End cap options



Product Performance



The absolute rated hydrophilic polyethersulfone PPES membrane filter with its bacteria retention rates of log 7 make it ideal for critical applications.

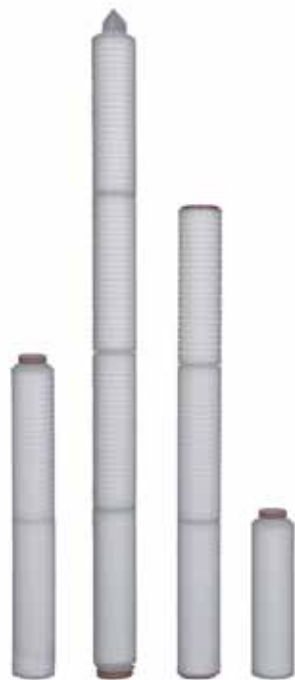
Features & Information

- Suitable for use across a wide range of chemical applications and over broad pH extremes
- Manufactured from lot controlled, thermally bonded FDA compliant materials
- Cartridges are formed around a polypropylene core, with the polyethersulfone media protected by a polypropylene cage
- Biological retention rates: Bacteria: 99.99999% (Brevundimonas diminuta)
- Suitable for repeated sterilisation (20 x 30 minute cycles at 121°C, Q or Z end caps required)
- Integrity tested media, the PPES records a bubble point of 4.3 bar (in water) at 0.2 micron
- Double skin construction of the flat sheet membrane ensures excellent mechanical properties

Applications & Industries

- Potable water
- Chemical manufacture
- Medical/Pharmaceutical
- Beverage
- Bacteria removal

PREMIER PLEAT
GLASS FIBRE



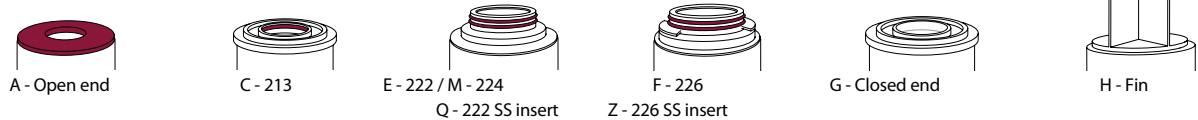
Product Specification

Material of Construction	GLASS FIBRE
Maximum Temperature	82°C
Filter Lengths (")	9 ³ / ₄ , 20, 30, 40
Micron Ratings (µ)	0.45, 1, 3, 5, 10

Ordering Details

Product Code	Micron (µ)	Standard Diameter Lengths (")	End Caps	Seal Material
PPG	0.45, 1, 3, 5, 10	9 ³ / ₄ , 20, 30, 40	AA, CG, EG, EH, FG, FH, MH, QG, ZH	STANDARD SILICONE = S OPTIONAL EPDM = E VITON = V
PPG	—	—	—	—
e.g. PPG-1-40FHS				
Packaging	9 ³ / ₄ "	20"	30"	40"
	24 at 9kg	12 at 9kg	12 at 13kg	12 at 18kg

End cap options



For Cryptosporidium and Giardia cyst removal, the PPG at 1 micron offers absolute rated performance equipped with a polypropylene pre and post layer to support and extend the life of the cartridge.

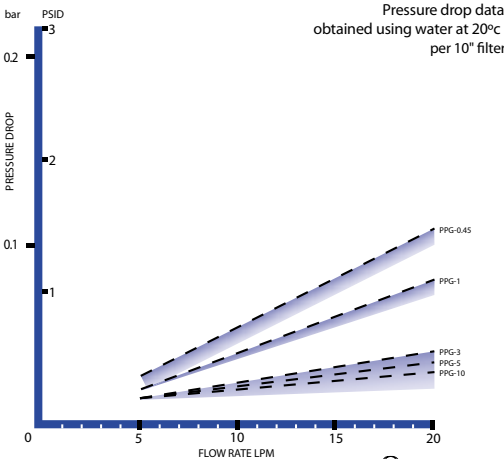
Features & Information

- Certified to NSF/ANSI Standard 53 for cyst reduction
- 1 micron PPG for Cryptosporidium and Giardia cyst removal
- 99.98% absolute rated for critical filtration requirements (Beta 5,000)
- Constructed from borosilicate laboratory grade glass fibre for high purity
- Cartridges are formed around a polypropylene core with the glass fibre media protected by a polypropylene cage and thermally welded end caps
- Superior to polypropylene, glass fibre is a high flow, low pressure drop hydrophilic media
- The PPG media has a graded pore density for high dirt-holding capacity

Applications & Industries

- Potable water
- Cyst reduction
- Air and gas filtration
- Beverage clarification

Product Performance



PREMIER PLEAT - JUNIOR



Product Specification

Material of Construction	POLYPROPYLENE
Maximum Temperature	80°C
Filter Length (")	5.3
Micron Ratings (µ)	1, 5, 10

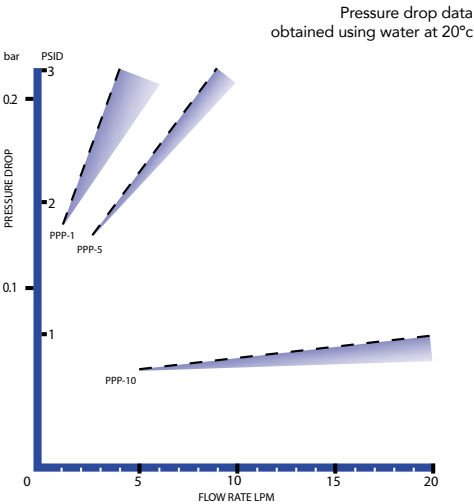
Ordering Details

Product Code	Micron (µ)	Standard Diameter Length (")	End Cap	Seal Material
PPP	1, 5, 10	5.3 = 5	120	SILICONE = S
PPP	-	5	-	S

e.g. PPP-1-5-120S

Packaging	5.3"
	48 at 10kg

Product Performance



The absolute rated, multi-layered, graded density polypropylene media means this retrofit cartridge, for Advanta, Nuclepore, Filtrite and LMO housings, delivers high particle retention at high flow rates to achieve long life.

Features & Information

- Available in 3 micron sizes, this filter comes with a 120 (CGS style) end cap fitting
- 0.25m² of surface area results in a filter with excellent performance and longevity
- The Junior is a retrofit for use in Nuclepore, Filtrite LMO and Advanta housings
- Ideally suited to applications of chemical compatibility or low volumes at high flow rates
- Sold in twin packs

Applications & Industries

- Laboratory and batch testing
- Lacquer and plating solutions
- Small scale bacterial control



Product Specification

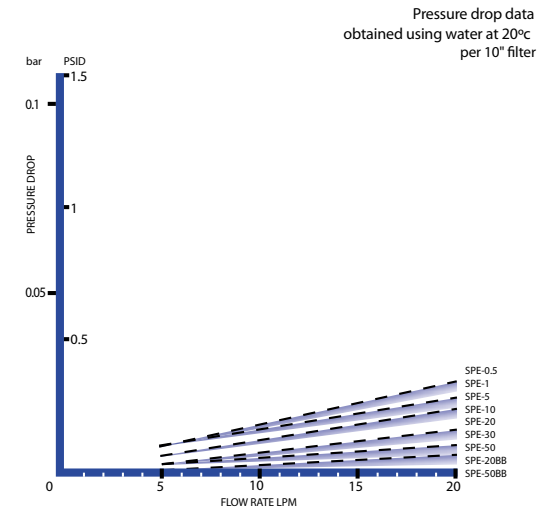
Material of Construction	POLYESTER
Maximum Temperature	38°C
Filter Lengths (")	4 ⁷ / ₈ , 9 ³ / ₄ , 20, 30, 40
Micron Ratings (µ)	0.5, 1, 5, 10, 20, 30, 50

Ordering Details

Product Code	Micron (µ)	Standard Diameter Lengths (")	Large Diameter Lengths (")
SPE	0.5, 1, 5, 10, 20, 30, 50	4 ⁷ / ₈ , 9 ³ / ₄ , 20, 30, 40	9 ³ / ₄ BB, 20BB
<div>SPE</div>	<div>—</div>	<div>—</div>	<div>OR</div>
e.g. SPE-10-20BB			

Packaging	4 ⁷ / ₈ "	9 ³ / ₄ "	20"	30"	40"	9 ³ / ₄ "BB	20"BB
	100 at 8kg	50 at 8kg	25 at 8kg	25 at 12kg	25 at 16kg	18 at 7kg	9 at 7kg

Product Performance



The pleated construction of the Pleat ² range results in a high surface area cartridge that performs well under high flow rates, whilst achieving excellent dirt-holding levels with no compromise to operational pressure drops.

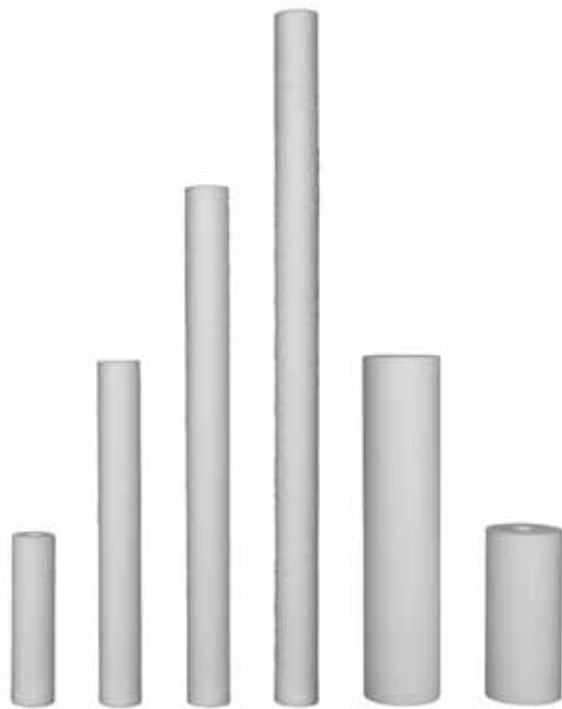
Features & Information

- Cartridges are formed around a polypropylene core, with the polyester media secured by bonded vinyl plastisol end caps to ensure filter integrity
- An economic, versatile and high flow capacity pre-filter
- The large surface area of the Pleat ² creates a filter with superior dirt-holding capacity
- Available in large diameter 10" and 20" lengths for reduced cartridge changeout frequency

Applications & Industries

- General particulate removal for incoming water filtration
- Pre or final stage filtration
- High flow applications

TRUDEPTH - STANDARD



Product Specification

Material of Construction	POLYPROPYLENE
Maximum Temperature	60°C
Filter Lengths (")	9 ⁷ / ₈ , 10, 20, 30, 40
Micron Ratings (μ)	1, 5, 10, 20, 50

Ordering Details

Product Code	Micron (μ)	Standard Diameter Lengths (")	Large Diameter Lengths (")			
SSP	1, 5, 10, 20, 50	9", 20, 30, 40	10BB, 20BB			
SSP	—	—	OR			
e.g. SSP-5-9"						
Packaging	9"	20"	30"	40"	10"BB	20"BB
	40 at 8kg	20 at 8kg	20 at 12kg	20 at 16kg	18 at 13kg	9 at 13kg



A TruDepth filter has high dirt-holding throughout



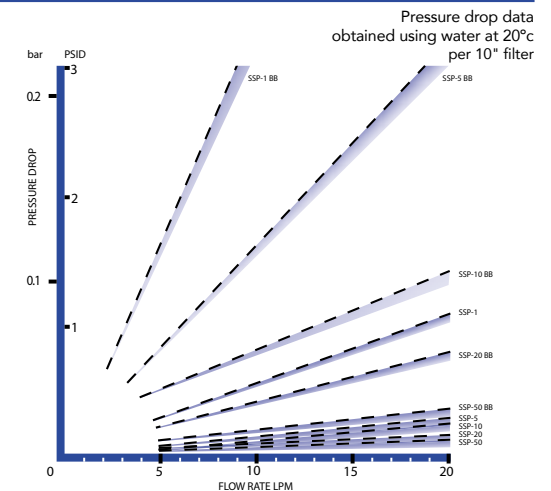
A rolled filters surface binding means low dirt-holding

Manufactured from pure polypropylene microfibres and bonded to create a complex filter matrix, the spun-bonded technology used in the TruDepth range of cartridges delivers improved dirt-holding capacity over traditional wound filters. The robust, self-supporting structure ensures the cartridge will not deform under pressure or contaminate the filtrate by migrating media or unloading particles or additives into the stream.

Features & Information

- Constructed from lot controlled, FDA approved materials
- Superior manufacturing technology over wound cartridges results in an economic, reliable pre-filter
- A true-graded density filter that incurs no surface blinding
- Contains no solvents, binders or anti-static agents
- Broad application compatibility
- Available in large diameter 10" and 20" lengths for reduced cartridge changeout frequency

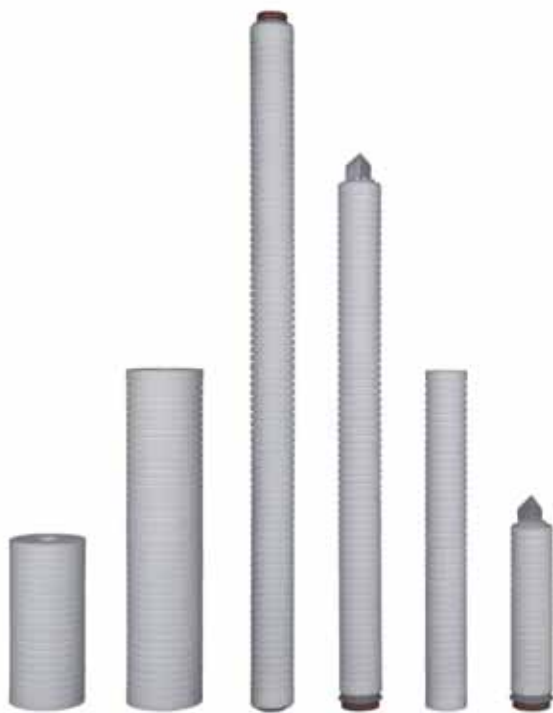
Product Performance



Applications & Industries

- General incoming water filtration
- Pre RO water treatment
- Nozzle and pump protection
- Food
- Beverage
- Chemical manufacture

TRUDEPTH - PREMIER



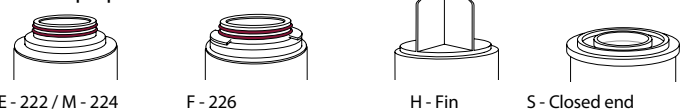
Product Specification

Material of Construction	POLYPROPYLENE
Maximum Temperature	82°C
Filter Lengths (")	9 ⁷ / ₈ , 10, 20, 30, 40
Micron Ratings (μ)	1, 5, 10, 20, 50

Ordering Details

Product Code	Micron (μ)	Standard Diameter Lengths (")	Large Diameter Lengths (")	End Caps	Seal Material		
PSP	1, 5, 10, 20, 50	9 ⁷ / ₈ , 20, 30, 40	10BB, 20BB	EH, ES, FH, MH	STANDARD SILICONE = S OPTIONAL EPDM = E VITON = V		
PSP	—	—	OR	—			
e.g. PSP-1-20-FHS							
Packaging		9 ⁷ / ₈ "	20"	30"	40"	10"BB	20"BB
		50 at 8kg	25 at 8kg	25 at 12kg	25 at 15kg	18 at 9kg	9 at 9kg

End cap options

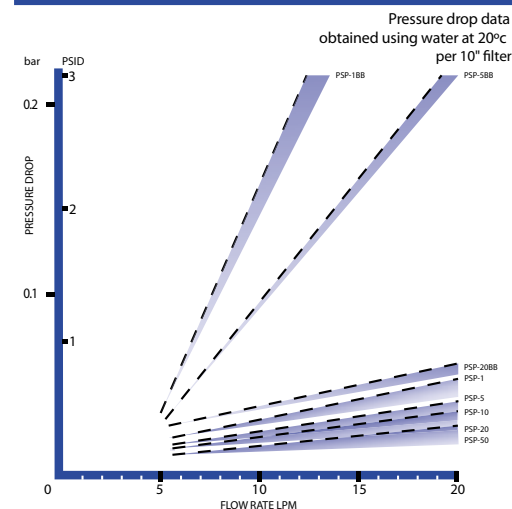


Premier TruDepth filters are the ideal choice for viscous and high temperature applications. Manufactured with a polypropylene core and dense, rigid matrix of polypropylene fibres, this range is engineered to deliver a strong, self-supporting structure and grooved surface for higher surface area.

Features & Information

- Manufactured from lot controlled FDA approved materials
- The grooved construction results in a higher surface area for increased particulate removal and handling of viscous fluids
- Exceptional performance in applications with known micron size, allowing the entire capacity of the cartridge to be used
- Ideal for high temperature and high differential pressure applications due to the engineered polypropylene core
- End caps and multiple filter sizes give greater flexibility and suitability to a wide range of applications
- Available in large diameter 10" and 20" lengths for reduced cartridge changeout frequency

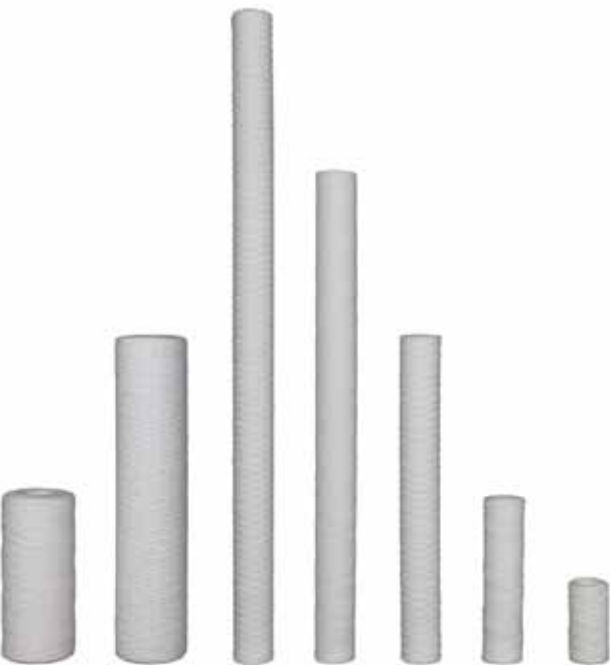
Product Performance



Applications & Industries

- General incoming water filtration
- Ink manufacture
- Adhesive production
- Pre RO water treatment
- Food
- Beverage
- Chemical manufacture

WOUND POLYPROPYLENE



Product Specification

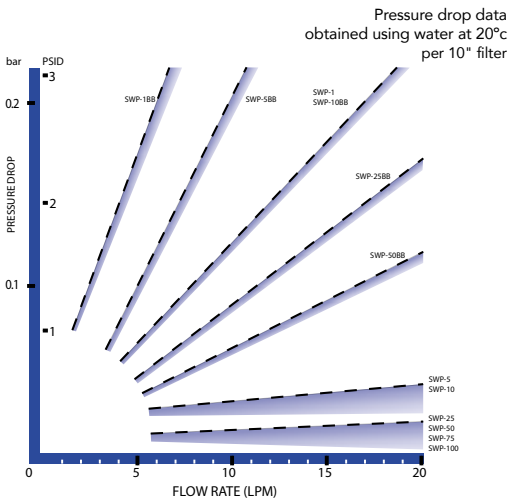
Material of Construction	POLYPROPYLENE
Maximum Temperature	65°C
Filter Lengths (")	4 ⁷ / ₈ , 10, 20, 30, 40
Micron Ratings (µ)	0.5, 1, 5, 10, 25, 50, 75, 100, 150

Ordering Details

Product Code	Micron (µ)	Standard Diameter Lengths (")	Large Diameter Lengths (")
SWP	0.5, 1, 5, 10, 25, 50, 75, 100, 150	4 ⁷ / ₈ , 10, 20, 30, 40	10BB, 20BB
SWP	—	—	OR
e.g. SWP-50-10BB			

Packaging	4 ⁷ / ₈ "	10"	20"	30"	40"	10"BB	20"BB
	30 at 4kg	30 at 9kg	15 at 9kg	15 at 14kg	10 at 8kg	18 at 6kg	9 at 6kg

Product Performance



Based on a tried and tested technology the SWP all polypropylene wound cartridge offers an economical particulate solution compatible with most processes. Often referred to as string, this product is commonly used for general dirt removal.

Features & Information

- Exact computer controlled wound pattern delivers reliable particulate removal throughout its media
- Available in a wide range of micron sizes from 0.5 - 150 are available in standard diameter, 10" to 40" lengths
- Available in large diameter 10" and 20" lengths for reduced cartridge changeout frequency
- Constructed with polypropylene media on a polypropylene core
- Graded density construction ensures high dirt-holding capacity

Applications & Industries

- Sand, silt and rust removal
- Manufacturing chemicals
- Metal finishing
- Surface coating
- Valve, pump or nozzle protection

WOUND COTTON/GLASS FIBRE



Product Specification

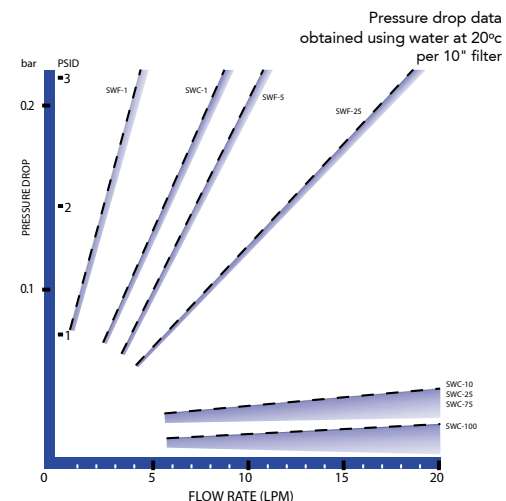
Materials of Construction	COTTON	GLASS FIBRE
Maximum Temperature	Cotton 120°C	Glass fibre 400°C
Filter Lengths (")	10, 20, 30, 40	
Micron Ratings (µ)	1, 5, 10, 25, 50, 75, 100	

Ordering Details

Product Code	Micron (μ)	Standard Diameter Lengths (")	Core Material
SWC	1, 5, 10, 25, 50, 75, 100	10, 20, 30, 40	STANDARD STAINLESS STEEL = BLANK OPTIONAL POLYPROPYLENE = P
SWF			STANDARD STAINLESS STEEL = BLANK
<div></div>	-	<div></div>	<div></div>
e.g. SWC-10-20			

Packaging	10"	20"	30"	40"
SWF weights x3	30 at 9kg	15 at 9kg	15 at 14kg	10 at 11kg

Product Performance



Cotton

SWC is the preferred choice if polypropylene media is incompatible, a higher operating temperature is required or if the application includes food contact.

Features & Information

- This range is manufactured from bleached cotton and meets FDA standards for food contact
- Can operate at high temperatures and maintain structure due to its 304L stainless steel core
- Also available with polypropylene core (SWC-P)

Applications & Industries

- Solvents
- Degreasing
- Electroplating cleaning baths
- Potable water

Glass fibre

For economic filtration, SWF wound cartridges are ideal for very high temperature applications.

Features & Information

- When filtering oxidising agents, glass fibre is an economical cartridge with excellent chemical compatibility
- Capable of handling temperatures up to 400°C and maintaining structure due to its 304L stainless steel core

Applications & Industries

- Boiler condensate
- Oxidising acids
- Oils

INOX - STANDARD



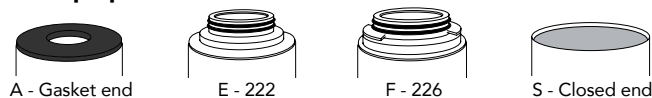
Product Specification

Material of Construction	316L STAINLESS STEEL
Maximum Temperature	260°C
Filter Lengths (")	9¾, 10, 20, 30, 40
Micron Ratings (µ)	5, 10, 20, 40, 75, 100, 200, 250, 500, 850

Ordering Details

Product Code	Micron (µ)	Standard Lengths (")	End Caps	Seal Material
SPS = Pleated	5, 10, 20, 40, 75, 100, 200, 250, 500, 850	9¾, 10, 20, 30, 40	STANDARD Blank = AA OPTIONAL ES = 222/closed end FS = 226/closed end	STANDARD BUNA = B OPTIONAL EPDM = E TEFLON = T VITON = V
SYS = Cylindrical				
e.g. SPS-5-20-ESB				
Packaging	10"	20"	30"	40"
	1 at 0.5kg	1 at 1kg	1 at 1.5kg	1 at 2kg

End cap options

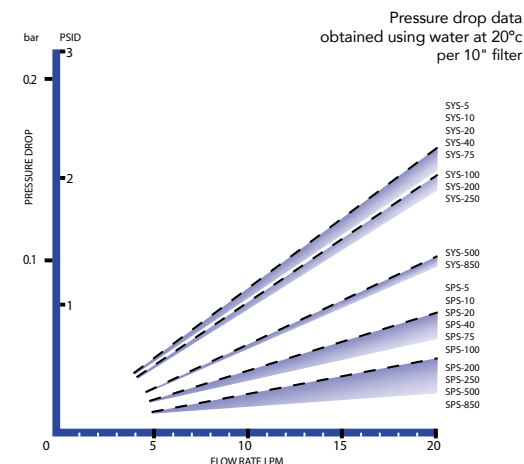


With wider application capabilities over material or membrane options, the Inox standard all-welded stainless steel construction delivers cartridge strength up to 4 bar pressure differential, and broader material resistant compatibility.

Features & Information

- Available in either a cylindrical or pleated stainless steel configuration, using no resin or glue-based binders, these reusable cartridges offer a perfect choice for high temperature applications
- The cartridges are offered in 5 to 850 micron with end cap options of 222 and 226
- The pleated construction of the SYS delivers an extra 0.1m² of surface area versus the cylindrical cartridge
- Suited to heavily contaminated applications and as prefiltration before expensive, disposable, final filters
- For challenging, industrial environments, a pleat protector cage option is available on the SPS

Product Performance



Applications & Industries

- High temperature specification
- Caustic fluids
- Petrochemicals
- Corrosive liquids and gases
- Chemical solutions
- Straining

INOX - PREMIER



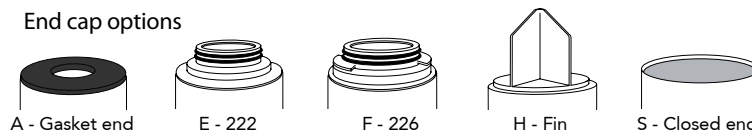
Product Specification

Material of Construction	316L STAINLESS STEEL
Maximum Temperature	300°C
Filter Lengths (")	9 ³ / ₄ , 10, 20, 30, 40
Micron Ratings (μ)	5, 10, 20, 40, 75, 100, 200, 250, 500, 850

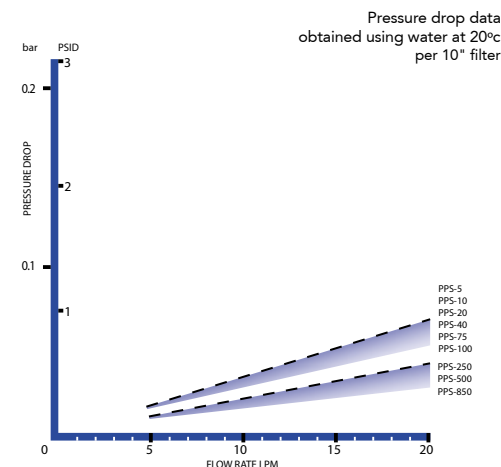
Ordering Details

Product Code	Micron (μ)	Standard Diameter Lengths (")	End Caps	Seal Material
PPS	5, 10, 20, 40, 75, 100, 200, 250, 500, 850	9 ³ / ₄ , 10, 20, 30, 40	STANDARD Blank = AA OPTIONAL ES = 222/closed end FS = 226/closed end FH = 226/fin	STANDARD EPDM = E OPTIONAL TEFLON = T VITON = V
PPS				
e.g. PPS-10-9 ³ / ₄ -FSE				
Packaging	10"	20"	30"	40"
	1 at 0.5kg	1 at 1kg	1 at 1.5kg	1 at 2kg

End cap options



Product Performance



The Inox premier cartridge range is specifically designed for applications requiring mechanical strength and for compatibility with aggressive process fluids.

Features & Information

- Constructed from all 316L FDA approved stainless steel, the pleated woven media, support core and fitting are TIG (Tungsten Inert Gas) welded to introduce no other materials
- Higher dirt-holding capacity than the standard pleated range
- The PPS can be cleaned by means of reverse flow, chemical, ultrasonic and high temperature burn-out
- PPS make an economical alternative to conventional polymeric cartridges where environmental issues prevent disposal
- Operating in conditions at up to 300°C and 25 bar differential pressure, these cartridges have the greatest tolerance of the range
- Each cartridge is integrity tested by bubble point in IPA (Isopropyl Alcohol) with data provided at despatch, together with a unique identification number

Applications & Industries

- High viscosity, such as gelatine
- Magnetic coatings
- High temperature specification
- Caustic fluids
- Petrochemicals
- Corrosive liquids and gases
- Chemical solutions
- Straining

BAG FILTERS

Designed to filter from the inside out, containing the particulate inside, bags are the simplest way to filter in high volumes and at high flow rates.

Features & Information

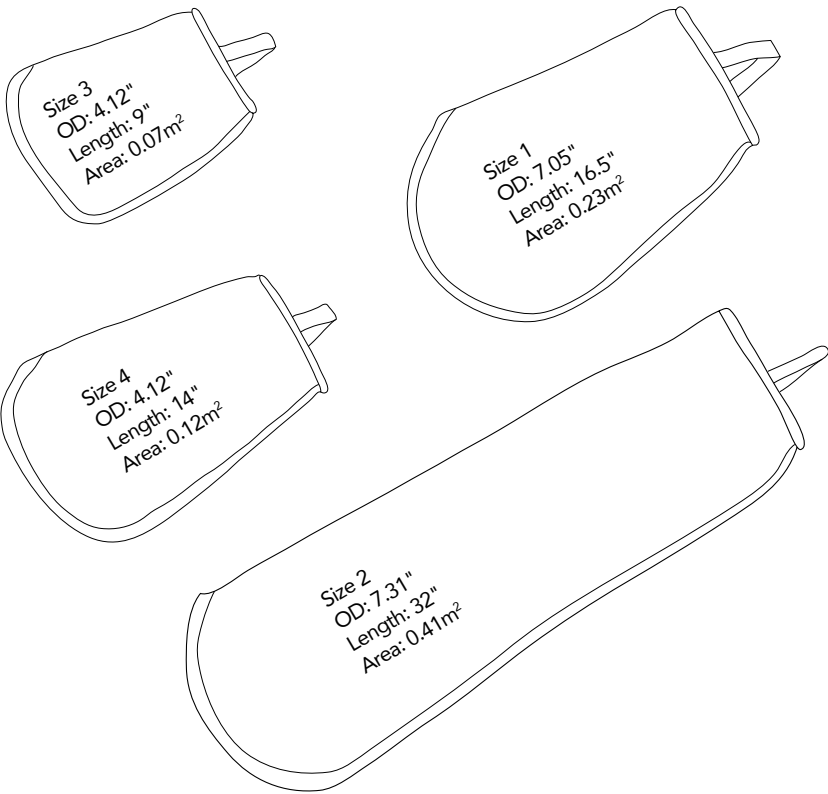
- High-flow rates are achieved in a housing at a fraction of the size of a cartridge vessel, reducing capital expenditure
- Consumables are of lower cost pro rata to contaminant removed
- Broad range of micron sizes available from 1 to 1000
- Simple and quick change-out, reducing operator time and expense
- SPECTRUM bags with plastic neck rings are made from FDA approved materials

Compatibility

	Media		
	Polypropylene	Polyester	Nylon
Organic Solvents	✓✓✓✓	✓✓✓✓	✓✓✓✓
Animal, Vegetable & Petroleum Oils	✓✓✓✓	✓✓✓✓	✓✓✓✓
Micro-organisms	✓✓✓✓	✓✓✓✓	✓✓✓✓
Alkalines	✓✓✓	✓✓✓✓	✓✓✓
Organic Agents	✓✓✓	✓	✓✓
Oxidising Agents	✓✓✓	✓✓✓	✓
Mineral Acids	✓✓✓	✓✓✓	✓

✓✓✓✓= Excellent ✓✓✓= Very Good ✓✓= Good ✓= Fair

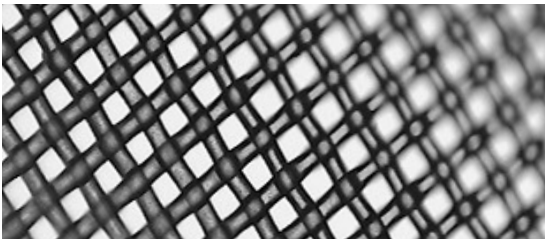
Dimensions



Media

Monofilament Mesh - Nylon

- Mesh media operates on the principle of surface filtration
- Easy to clean and therefore reuseable
- Non-fibre releasing
- Holds large quantities of contaminants

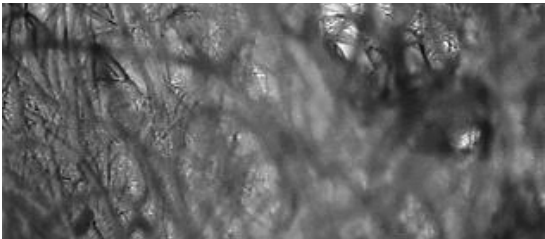


Applications

- De-greasing
- Coolant filtration
- Coarse filtration
- Paints and inks
- Trap filter
- Coatings and varnishes

Felt - Polypropylene or Polyester

- Felt exhibits depth and surface properties
- Disposable when using plastic neck ring
- Glazed finish reduces fibre migration
- Broad chemical compatibility
- High dirt-holding
- Effectively removes solids and gelatinous matter



Applications

- Pre filtration in water treatment
- Paints
- Syrup
- Recycled water filtration
- Trap filter
- Bulk chemical transfer

BAG FILTERS - ECONOMIC



Product Specification

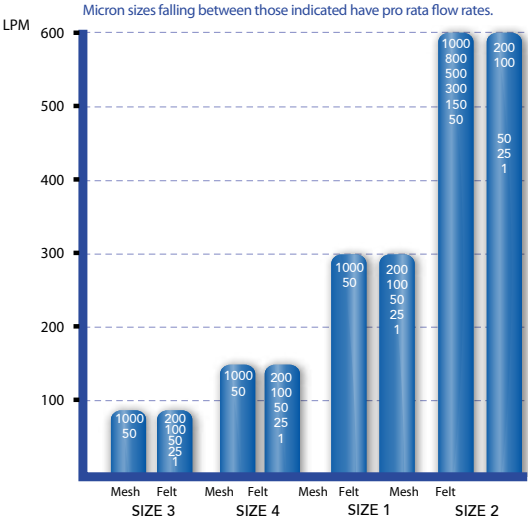
Materials of Construction	POLYPROPYLENE POLYESTER NYLON		
Maximum Temperature	Polypropylene 95°c	Polyester 150°c	Nylon 160°c
Bag Sizes	1, 2, 3, 4		
Micron Ratings (µ)	FELT - 1, 5, 10, 25, 50, 100, 200 MONOMESH - 50, 100, 150, 200, 300, 400, 500, 800, 1000		

Ordering Details

Product Code	Media	Micron (µ)	Bag Size	Neck Style
EB	P = Polypropylene felt E = Polyester felt	1, 5, 10, 25, 50, 100, 200	1, 2, 3, 4	P = Polypropylene S = 304 stainless steel
	N = Nylon monomesh	50, 100, 150, 200, 300, 400, 500, 800, 1000		
EB		-		-
e.g. EBE-10-4-P				

Packaging	Size 1	Size 2	Size 3	Size 4
EBP / EBE	50 at 8kg	50 at 15kg	50 at 3kg	50 at 4kg
EBN	50 at 3kg	50 at 4kg	50 at 2kg	50 at 2kg

Product Performance



The economic range of bag filters are of sewn construction and incorporate a ring-style neck fitting the widest range of bag housings. The ring, which is sewn into the media forms a bag opening with all seams double stitched creating a strong product capable of high flow and high dirt-holding.

Product Features & Information

- Heavy duty double stitching ensures particles will not pass through the filter bag
- A single fabric handle across the diameter of the neck aids easy removal
- Available in a wide range of material, size and micron options
- Where the application requires a more robust and compatible option, a stainless steel ring is available
- Polypropylene neck ring means economic bags can be recycled or disposed of by incineration



Ring-style neck with fabric handle

BAG FILTERS - STANDARD



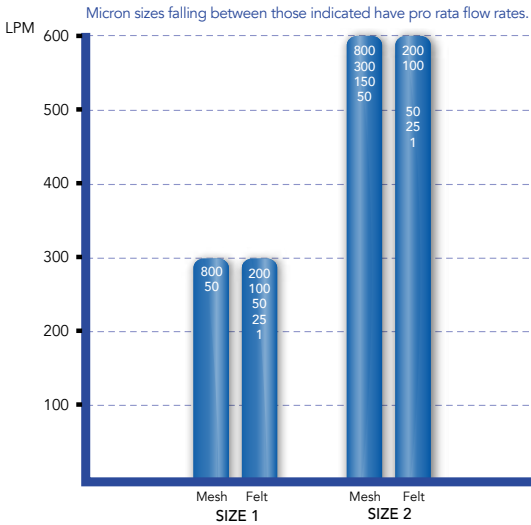
Product Specification

Materials of Construction	POLYPROPYLENE POLYESTER NYLON		
Maximum Temperature	Polypropylene 95°C	Polyester 150°C	Nylon 160°C
Bag Sizes	1, 2		
Micron Ratings (µ)	FELT - 1, 5, 10, 25, 50, 100, 200 MONOMESH - 50, 100, 150, 200, 300, 400, 800		

Ordering Details

Product Code	Media	Micron (µ)	Bag Size
SB	P = Polypropylene felt & polypropylene neck E = Polyester felt & polyester neck	1, 5, 10, 25, 50, 100, 200	1, 2
	N = Nylon monomesh & polypropylene neck	50, 100, 150, 200, 300, 400, 800	
SB		-	
e.g. SBE-10-2			
Packaging		Size 1	Size 2
SBP / SBE		50 at 8kg	50 at 15kg
SBN		50 at 3kg	50 at 4kg

Product Performance



Creating a more accurate seal than ring necks, the flanged neck manages increased differential pressure with improved sealing. For a wider choice in application flexibility and compatibility, standard filter bags include 100% polypropylene or polyester neck and media options.

Product Features & Information

- Standard felt bags are of welded construction, where the bag fabric is fused together to create a strong seal, reducing the possibility of loose, fibrous edges migrating downstream
- Neck rings have two handle tabs which greatly assist bag removal
- Nylon bags are heavy duty double stitched on the seams and neck
- With no metal components, standard bags can be recycled or disposed of by incineration



Flanged standard bag neck

BAG FILTERS - PREMIER



Product Specification

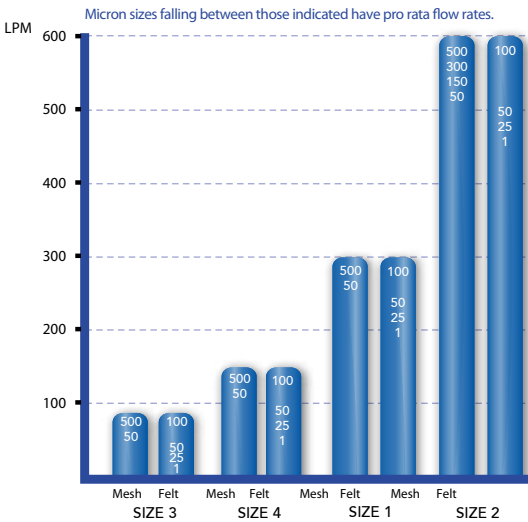
Materials of Construction	POLYPROPYLENE NYLON	
Maximum Temperature	Polypropylene 95°C	Nylon 160°C
Bag Sizes	1, 2, 3, 4	
Micron Ratings (µ)	FELT - 1, 5, 10, 25, 50, 100 MONOMESH - 50, 100, 150, 200, 400, 500	

Ordering Details

Product Code	Media	Micron (µ)	Bag Size
PB	P = Polypropylene felt & polypropylene neck N = Nylon monomesh & polypropylene neck	1, 5, 10, 25, 50, 100 50, 100, 150, 200, 400, 500	1, 2, 3, 4
PB		—	
e.g. PBN-150-3			

Packaging	Size 1	Size 2	Size 3	Size 4
PBP	50 at 8kg	50 at 15kg	50 at 3kg	50 at 4kg
PBN	50 at 3kg	50 at 4kg	50 at 2kg	50 at 2kg

Product Performance



The most positive seal of all the SPECTRUM bags is the premier bag with a flanged neck locating the bag filter into place within the housing, holding secure until the housing is closed.

Product Features & Information

- Felt bags have a durable welded seam and neck, eliminating fibrous edges and loose fibres migrating downstream
- Nylon bags are heavy duty double stitched on the seams and neck for security
- Flanged neck rings have polypropylene handles to aid bag removal
- With no metal components, premier bags can be recycled or disposed of by incineration



Tapered flanged premier bag neck

870 CARBON BLOCK ECONOMIC



Product Specification

Material of Construction
INDUSTRIAL GRADE CARBON

Maximum Temperature
82°C

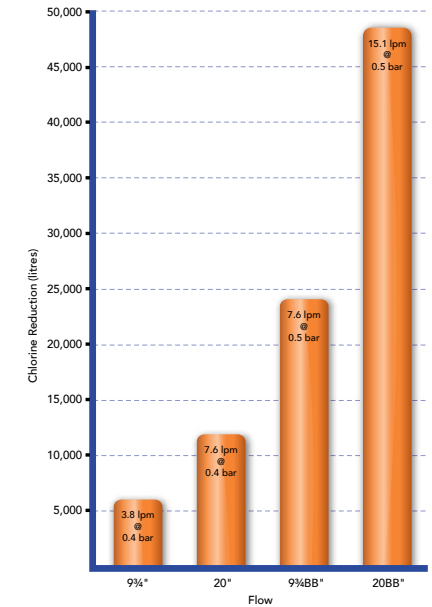
Filter Lengths (")
9³/₄, 20

Micron Ratings (μ)
1, 5, 10

Ordering Details

Product Code	Micron (μ)	Standard Lengths (")		
ECB	1, 5, 10	9"		
		20		
	5	9"/BB		
		20BB		
ECB	—	—		
e.g. ECB-5-9"				
Packaging	9"	20"	9"/BB	20"BB
	25 at 13kg	12 at 12kg	4 at 6kg	4 at 12kg

Product Performance



The ECB uses the latest carbon manufacturing techniques making it the economic choice for a wide range of industrial water applications.

Features & Information

- Suited to processes where the life of the carbon is never fully used
- A carbon cartridge manufactured from acid washed bituminous GAC (granular activated carbon) and extruded into a carbon block format
- Constructed with an outer polypropylene wrap that protects and extends the life of the carbon block, capturing particles and preventing premature plugging
- Available in large diameter 9³/₄" and 20" lengths for reduced cartridge changeout frequency

Applications & Industries

- Plating solutions
- Organic removal
- Batch processes

870 CARBON BLOCK STANDARD



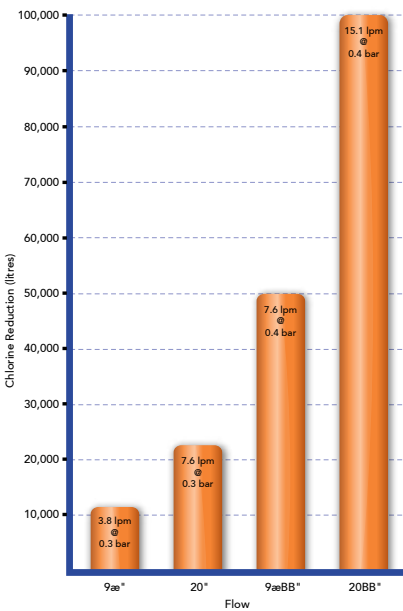
Product Specification

Material of Construction	FOOD GRADE CARBON
Maximum Temperature	82°c
Filter Lengths (")	9æ, 20
Micron Rating (µ)	5

Ordering Details

Product Code	Micron (μ)	Standard Lengths (")		
SCB	5	9"		
		20		
		9"BB		
		20BB		
SCB	—	5	—	
e.g. SCB-5-20BB				
Packaging	9"	20"	9"BB	20"BB
	25 at 13kg	12 at 12kg	4 at 6kg	4 at 12kg

Product Performance



Suitable for drinking water applications, the SCB is manufactured using powder activated carbon, greatly increasing surface area and cartridge life.

Features & Information

- Extruded from high quality carbon fines the SCB has a much high adsorption capacity, extending life and improved chlorine reduction capacities over the ECB
- The fine, acid washed bituminous, powdered activated carbon (PAC) used in the SCB results in a highly efficient carbon cartridge with sediment filtration capabilities
- Constructed with an outer polypropylene wrap that protects and extends the life of the carbon block, capturing particles and preventing premature plugging
- Food grade additives used to bond the PAC
- Available in large diameter 9æ" and 20" lengths for reduced cartridge changeout frequency

Applications & Industries

- Potable water
- Plating solutions
- Organic removal

870 CARBON WRAP



Product Specification

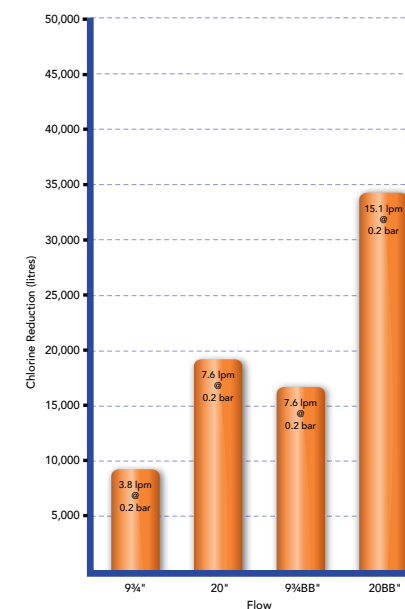
Material of Construction	CARBON CELLULOSE WRAP
Maximum Temperature	60°C
Filter Lengths (")	9 ³ / ₄ , 20
Micron Rating (μ)	5

Ordering Details

Product Code	Micron (μ)	Standard Lengths (")		
SCW	5	9"		
		20"		
		9"BB		
		20BB		
SCW	—	5	—	
e.g. SCW-5-20				

Packaging	9"	20"	9"BB	20"BB
	50 at 8kg	25 at 8kg	18 at 14kg	9 at 14kg

Product Performance



Powder activated carbon, impregnated into a cellulose fibre media means this two stage carbon acts as an effective and economical sediment, taste, odour and chlorine reduction filter.

Features & Information

- Capable of removing sediment and other fine particulates throughout its media
- This dual capability cartridge also works to reduce odours, remove water discolouration and volatile organic compounds
- Combines the advantages of both a high dirt-loading depth cartridge with the adsorption capabilities of powder activated carbon
- Carbon impregnated sheet wrapped around a polypropylene core, supported by an outer layer of polyethylene netting and EPDM gaskets
- Available in large diameter 9³/₄" and 20" lengths for reduced cartridge changeout frequency

Applications & Industries

- Pre RO water treatment
- Drinking water
- Photographic
- Chlorine and VOC reduction



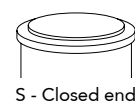
Product Specification

Material of Construction	RESIN IMPREGNATED FELT
Maximum Temperature	70°C
Filter Lengths (")	9 ³ / ₄ , 20, 30, 40
Hydrocarbon Removal (%)	99

Ordering Details

Product Code	Lengths (")	End Caps	Seal	Average Oil Removal (grams)		
SRIF	9"	AA ES	BUNA = B	360		
	20			720		
	30			1,080		
	40			1,140		
	9"BB			1,290		
	20BB			2,580		
SRIF	—		—		B	
e.g. SRIF-20-AAB						
Packaging	9"	20"	30"	40"	9"BB	20"BB
	20 at 5kg	20 at 10kg	20 at 15kg	20 at 20kg	6 at 5 kg	6 at 10kg

End cap options



Removing 99% of hydrocarbons, the OilOut-99 is designed for applications with <500 ppm total hydrocarbons after coalescing and other bulk removal, or as a cost effective polishing method.

Product Features & Information

- Effectively removes through absorption dissolved and dispersed hydrocarbons efficiently from water, absorbing three times its own weight before changeout is required
- As the cartridge becomes exhausted, flow is not affected and no hydrocarbons are released
- Removes up to 99% of hydrocarbons with each 10" cartridge having a capacity of 360g in standard size and 1290g in its large diameter format
- Constructed from resin impregnated felt, polypropylene core and end caps, protected by polyethylene netting
- Multiple end cap options in standard and large diameter configurations ensures the OilOut-99 is suitable for large scale industrial to small commercial applications

Applications & Industries

- Bilge water
- Trace oil
- Surface water
- Degreasing
- Industrial discharge water

ION-X HEAVY METAL REMOVAL



Product Specification

Resin Function
HEAVY METAL
REMOVAL RESIN

Maximum
Temperature
37°C

Ordering Details

Product Code	Capacity Heavy Metals Removal (mg)	Flow Rate (lpm)	Packaging
SRHM-10	32,000	0.4	6 at 5kg
SRHM-20	66,000	0.8	6 at 10kg
SRHM-10BB	76,000	1	8 at 20kg
SRHM-20BB	180,000	2.3	4 at 20kg

The SRHM in 10" and 20" standard and large diameter formats provide a convenient cartridge style resin bed, removing heavy metals that can have harmful effects on health and manufacturing processes.

Features & Information

- Effective point of use solution for the removal of metals such as lead, zinc, mercury, copper and chromium from potable water supplies
- The SRHM also has softening capabilities achieved without sodium dosing

Applications & Industries

- Drinking water
- Pharmaceutical

ION-X NITRATE REMOVAL



Product Specification

Resin Function
NITRATE REMOVAL
RESIN

Maximum
Temperature
37°C

Ordering Details

Product Code	Capacity Nitrates (NH ₄) Removal (mg)	Flow Rate (lpm)	Packaging
SRNI-10	20,000	0.4	6 at 4kg
SRNI-20	43,500	0.8	6 at 8kg
SRNI-10BB	50,000	1	8 at 18kg
SRNI-20BB	100,000	2.3	4 at 18kg

A cost effective, point of use cartridge that selectively targets and removes toxic and difficult to detect nitrates, which can have harmful effects on health as well as interfering with manufacturing processes.

Features & Information

- Works well even when high levels of sulphates are present
- Ideal where nitrate levels exceed UK national contamination limits (50mg/L)

Applications & Industries

- Boreholes
- Fish keeping

ION-X DEIONISING - STANDARD



Product Specification

Resin Function

DEIONISING

Maximum Temperature

37°C

Ordering Details

Product Code	Capacity (mg TDS)	Flow Rate (lpm)	Packaging
SRDI-5	7,650	0.1	12 at 5kg
SRDI-10	24,000	0.4	6 at 5kg
SRDI-20	49,500	0.8	6 at 10kg
SRDI-10BB	57,000	1	8 at 20kg
SRDI-20BB	135,000	2.3	4 at 20kg

Designed for use where low TOC (total organic compounds) and TDS (total dissolved solids) are required, the SRDI is a convenient cartridge style resin bed.

Features & Information

- Achieves resistivity levels to 10 megohm, ideal for washing, rinsing and testing purposes
- For applications requiring almost complete reduction of total dissolved solids

Applications & Industries

- Laboratories
- Post RO water treatment

ION-X DEIONISING - PREMIER



Product Specification

Resin Function

COLOUR CHANGING
DEIONISING

Maximum Temperature

37°C

Ordering Details

Product Code	Capacity (mg TDS)	Flow Rate (lpm)	Packaging
PRDI-10	24,000	0.4	6 at 5kg
PRDI-20	43,500	0.7	6 at 10kg

Featuring similar benefits to the SRDI, the PRDI cartridge changes colour as the resin becomes exhausted, aiding application monitoring and maintenance.

Features & Information

- Colour change resin beads throughout the media give visual indication as the media becomes exhausted (from purple to light brown)
- Achieves resistivity levels to 10 megohm, ideal for washing, rinsing and testing purposes

Applications & Industries

- Laboratories
- Corrosive test chambers
- Dentistry

RESIN – SOFTENING

Product Specification

Resin Function	FOOD GRADE WATER SOFTENING
Resin Type	CATION

Ordering Details

Product Code	Packaging
CGSRESIN-25L	1 at 21kg



Softening resin is commonly used in residential and commercial markets to combat hard water and scale build-up by removing calcium and magnesium ions in exchange for sodium ones.

Features & Information

- Complies with FDA Regulations for potable water applications and is WQA tested to NSF 61 for materials safety
- Manufactured from a gel-type sulphonated polystyrene cation results in a resin of moist, uniform spherical beads which ensures overall integrity and strength, achieving excellent capacity and low extractable content
- Removes CaCO_3 and scale build-up which reduces long-term maintenance costs

Applications & Industries

- Commercial food processing
- Prevents scale deposits to protect equipment and appliances
- Pre RO water treatment

RESIN – GENERAL PURPOSE DI

Product Specification

Resin Function	DEIONISING
Resin Type	MIXED BED - CATION / ANION

Ordering Details

Product Code	Packaging
MAG-MBRESIN-25L	1 at 21kg



Used to produce purified water, MAG-MB is a popular choice across many industries due to its consistent performance abilities.

Features & Information

- Achieving water quality of 10 megohms, the low conductivity values of MAG-MB make it ideal where high quality water is required
- Removes mineral content, impurities and TOCs from water to produce pure water economically
- Low conductivity is achieved by the resin mix of type 1 strong acid cation and strong anions

Applications & Industries

- Commercial glass and window washing
- Cosmetic and pharmaceutical production
- Automotive, engineering and cooling applications

EMPTY CARTRIDGE SHELLS



Product Specification

Material of Construction	POLYETHYLENE
Maximum Temperature	37°C
Lengths (")	4 ⁷ / ₈ , 10, 20
Micron (µ) Post Filter	20

Ordering Details

Product Code	Standard Diameter Lengths (")	Large Diameter Lengths (")	Shell Colour
PES-PW	4 ⁷ / ₈ , 10, 20	10BB, 20BB	White
SES-PC	10	N/A	Clear
e.g. PES-PW10			

Volume	200ml	700ml	800ml	1650ml	1900ml	4500ml
Packaging	4 ⁷ / ₈ "	10"	10" Clear	20"	10"BB	20"BB
	100 at 6kg	50 at 6kg	50 at 6kg	25 at 6kg	18 at 6kg	30 at 19kg

Empty shells are a popular choice for those who require bespoke media cartridges. The threaded end caps of PES-PW make it possible to achieve significant savings by repeatedly replacing the media.

Features & Information

- The PES-PW have threaded end caps to allow repeated media changeouts
- Available in 4⁷/₈", 10" and 20" lengths, standard and large diameter
- Internal pre and post filters protect the media and prevent potential migration
Pre filter: 100 micron
Post filter: 20 micron
- Fits standard 2.5" and 4.5" large diameter filter housings
- The 10" SES-PC in clear polypropylene allows visual inspection of the media. Designed to be disposable, this empty shell can be sealed at one end with a glued end cap

Applications & Industries

- Low volume speciality carbon or resin
- Small production runs or trials
- Applications requiring repeated media changeouts



SES-PC10

PRESSURE VESSEL STANDARD

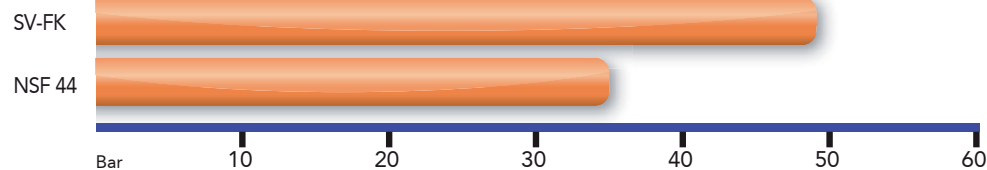


Product Specification

Materials of Construction	Vessel Liner POLYETHYLENE	Vessel Outer FIBREGLASS
Maximum Temperature	50°C	
Maximum Pressure (bar)	10.5	
Vessel Neck (")	2.5	

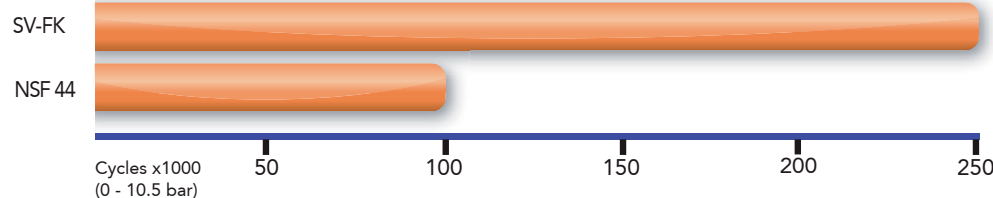
Performance Level Tests

Burst Test



To ensure rugged durability and safety, AQUARIT tanks pass the NSF 44 standard for burst and proof testing

Pressure Cycle Test



For reliability, AQUARIT tanks pass 2.5 times more pressure cycles than the NSF 44 standard

Pressure vessels, also known as resin tanks, treat water through a bed of media, typically resin or carbon, safely under pressure.

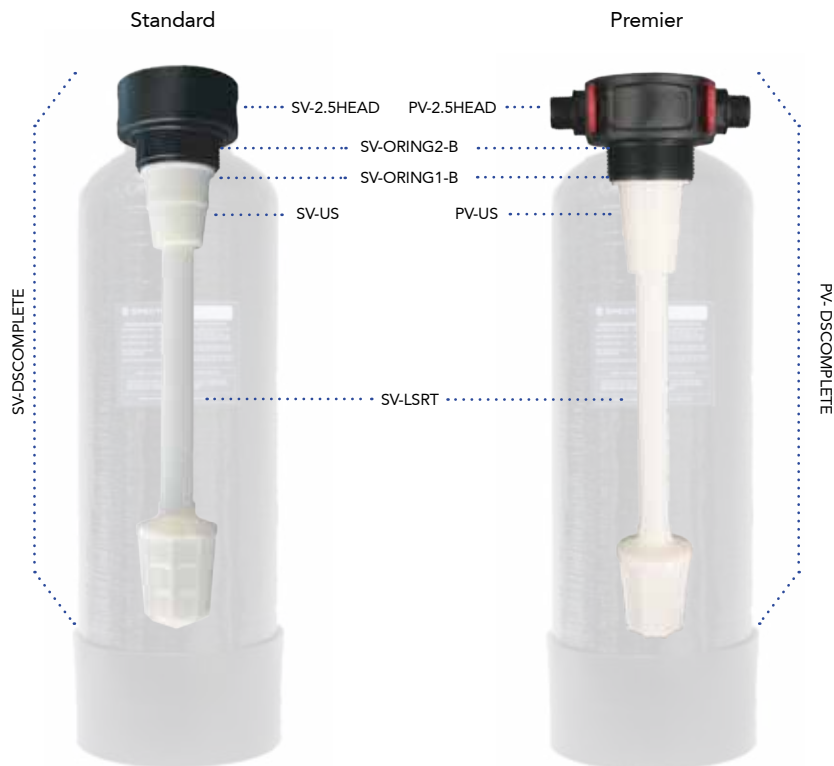
Features & Information

- Food grade materials are used on parts in contact with water
- 5 year warranty
- NSF 44 certified and complies with PED 97/23/EC Directive
- Threads on the vessel neck are made from 30% glass-filled polypropylene for enhanced strength
- Pressure cycle tested 250,000 times to ensure reliability
- Pressure tested to 42 bar ñ over 4 times the maximum operating pressure
- Lot-coded for traceability and tracking
- Individually packaged to assist storage, handling and transportation

Applications & Industries

- Commercial and residential water softening
- Glass and window washing
- Coffee machine protection
- Rinse water in engineering or finishing

Distribution Systems



Comprising a head, riser tube, lower and upper screens, distribution systems disperse the incoming water evenly throughout the media.

Benefits of a premier head and fittings:

- Push-fitting connector ports make it possible to remove the vessel head in situ
- ½", æ" and 1" male port adaptors enable the premier head to be changed to suit different applications
- Ports are secured with locking clips
- The upper screen used in the premier head has a twist-lock mechanism to prevent it from being dislodged when removing or fitting the head

Ordering Details

Pressure Vessels

Product Code	Vessel Diameter (")	Vessel Length (")
SV-FK	5	20
	6	13, 18
	7	17, 30, 35
	8	17, 22, 35, 44
	10	35, 44, 54
	11	44
	13	44, 54
	14	52, 65
	16	44, 65

SV-FK — —

Add suffix "-C" to the above code when ordering a vessel with complete distribution system
e.g. SV-FK-613-C

Accessories



Ordering Details

Distribution Systems

Product Code	Riser Tube Length (")	Port Size (")	Description
SV-DSCOMPLETE	13, 17, 18, 22, 30, 35, 44, 54, 65	æ	Pressure vessel head, æ" ports, 2½" thread with upper & lower screen & riser tube for vessels (13" to 65")
PV-DSCOMPLETE	13, 17, 18, 22, 30, 35, 44, 54, 65	½, æ, 1	Pressure vessel head ½", æ", 1" male port adaptors, 2½" thread with upper & lower screen & riser tube for vessels (13" to 65")

— — — e.g. PV-DSCOMPLETE-18-½

Volume	4.5L	4.6L	6.8L	8.5L	15.8L	19.1L	10.5L	14.4L	23.6L	31.3L
Packaging	05 x 20"	06 x 13"	06 x 18"	07 x 17"	07 x 30"	07 x 35"	08 x 17"	08 x 22"	08 x 35"	08 x 44"
	1 at 1.5kg	1 at 2kg	1 at 2kg	1 at 2kg	1 at 3kg	1 at 3kg	1 at 2.5kg	1 at 3kg	1 at 4kg	1 at 4.5kg

Volume	38.3L	48.8L	61L	59.8L	84.8L	105.7L	115L	148L	131.6L	188.6L
Packaging	10 x 35"	10 x 44"	10 x 54"	11 x 44"	13 x 44"	13 x 54"	14 x 52"	14 x 65"	16 x 44"	16 x 65"
	1 at 5kg	1 at 6.5kg	1 at 8kg	1 at 7kg	1 at 8.5kg	1 at 11kg	1 at 11kg	1 at 15kg	1 at 13.5kg	1 at 20kg

PRESSURE VESSEL PREMIER



Product Specification

Material of Construction	POLYPROPYLENE
Maximum Temperature	45°C
Maximum Pressure (bar)	8
Port Sizes (")	1/2, 3/4, 1

Ordering Details

Product Code	Vessel Diameter (")	Vessel Length (")
PV-PK	7	17
PV-PK	8	17, 35
e.g. PV-PK-835	—	

Volume	4.7L	5.6L	17.8L
Packaging	07 x 17"	08 x 17"	08 x 35"
	1 at 3kg	1 at 4kg	1 at 6kg

The premier pressure vessel range is engineered to create higher resin efficiencies by means of an integrated distribution system. This unique design reduces channelling within the resin therefore enabling the complete resin bed to be used.

Features & Information

- 30% higher resin yields achieved, resulting in savings on resin and servicing costs
- Constructed from 100% non-toxic, injection moulded, thermally welded polypropylene materials these vessels offer far superior strength and durability to alternative composite tanks
- The integrated top and bottom plate distribution system eliminates the likelihood of dead zones and reduces the potential of channelling, enabling the media to be used to its full potential
- Vessels come complete with premier head, adaptors, locking clips, O-rings and integrated distribution system



Accessories



PV- FUNNEL
Simplifies the process of filling the vessel with media



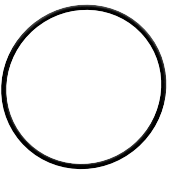
PV-2.5HEAD
2½" thread (requires PV-Adaptors)



PV-ADAPTOR
½", ¾", 1" male (two required per head)



SV-ORING1-B
Internal O-ring Buna



SV-ORING2-B
Head O-ring Buna

ABSOLUTE: When referring to filters is used in reference to the micron rating indicating that all particles larger than a specified size will be trapped within or on the filter and will not pass through (typically 99.98%).

ABSORPTION: The process of taking up a substance into the physical structure of a liquid or solid by physical or chemical action, but without chemical reaction.

ADSORPTION: The process by which molecules, colloids or particles adhere to the surfaces by physical action but without chemical reaction.

BAR: Designation of pressure units. 1 bar = 14.5 psi.

BUBBLE POINT: The differential gas pressure that when applied to a filter element submerged in the test fluid causes the first steady emission of gas (air) from the filter element being tested. This is a means of verifying the micrometer rating of the test element.

CHANNELING: Often associated with wound-string or granular carbon filters, is the phenomenon of liquid forcing a channel through the filter, thus meaning that the filtration does not occur.

CHLORINE: Chemical used for its qualities as a bleaching, oxidising or disinfecting agent in water purification.

EXTRACTABLES: Water-soluble matter, which can be eluted from a filter into the effluent.

FDA CRITERIA: The Food and Drugs Administration issues criteria for the suitability of a material for use in human food or drugs production.

FEED/FEEDWATER: The input solution to a treatment/purification system, including the raw water supply prior to any treatment.

HEAVY METALS: Metals having a high density or specific gravity of approximately 5.0 or higher. The elemental weight is also high. A generic term used to describe contaminants such as cadmium, lead and mercury. In low concentrations are toxic to humans.

HYDROPHILIC: Water-accepting.

HYDROPHOBIC: Water- repelling.

INTEGRITY TESTED: If a filter has been integrity tested then it has been checked after manufacture to ensure that it will perform to specification with regard to particulate and/or bacterial removal.

LOG REDUCTION: A mathematical term for a tenfold (one decimal) or 90% reduction in numbers of live bacteria

LPH: Litres per hour.

MG/L: Milligrams of an element per litre of water, approximately equal to ppm.

MICRON: A metric unit of measurement equivalent to 10^{-6} metres, 10^{-4} centimeters. Symbol is μ .

NOMINAL: In terms of filtration, a nominal rating describes the ability of the filter media to retain a percentage of particulate at the rated pore size

PORE: An opening in a membrane or filter matrix.

POROUS: The ability of certain substances to pass fluids due to an open physical structure.

PPM: Parts per million, commonly considered equivalent to milligrams per litre (mg/L).

PRESSURE DROP: the decrease in pressure from one point in a pipe or tube to another point downstream.

RESINS (ION EXCHANGE): Specially manufactured polymer beads used in the ion exchange process to remove dissolved salts from water.

REVERSE OSMOSIS: The separation of one component of a solution from another component by flowing the feed stream under pressure across a semipermeable membrane. RO concentrates ionized salts, colloids, and organics down to 150 molecular weight in the concentrate stream and provides a purified stream of water.

SHARP CUT-OFF: A feature of a filter, which means that it will remove particles of a certain size, but will leave the vast majority of smaller particles in the effluent.

TDS: Total Dissolved Solids.

TOC: Total Organic Compound - the amount of carbon bound in organic compounds in a water sample as determined by a standard laboratory test. The CO^2 is measured when a water sample is atomised in a combustion chamber.

VOC: Volatile Organic Compound - synthetic organic compounds that easily volatilise. Many are suspected carcinogens.

NOTE

The contents of this catalogue has been carefully compiled and every effort has been made to provide accurate information, however errors or text misprints are a possibility. With application parameters varying greatly, performance data should only be used as a guide.

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