

# SUPASpun II

## Absolute Rated Depth Cartridge



SupaSpun II precision graded density filter elements are a further development of our already well proven absolute rated depth type filter. These high performance cartridges excel in dirt holding capacity and give extremely low clean pressure losses as a result of the strictly controlled manufacturing of the fibre matrix.

SupaSpun II filter cartridges are produced using an improved manufacturing process resulting in the following features:-

### Absolute Rated Filter Media

- Available from 0.3 to 180µm
- Polypropylene or nylon 6
- Consistent reliable performance

### Unique Construction

- One piece high strength support core



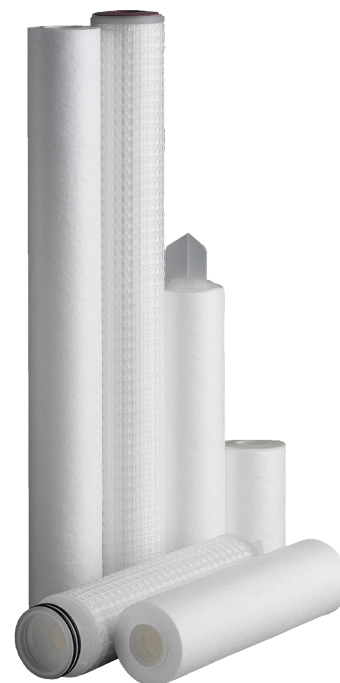
- High void volume, resulting in low clean  $\Delta p$  and excellent dirt holding capacity
- End cap welded direct to the core for extra security and strength
- Thermally bonded fibre matrix minimises fibre migration
- One piece construction up to 1524mm (60")
- **SupaSpun II Advantage** grade featuring moulded end caps and rigid outer support cage
- Optional glass filled core and end caps for high strength / temperature applications

### Product Features

- 100% polypropylene or nylon 6
- Materials meet US FDA Title 21 and USP Class VI requirements (PP Only)
- Meets the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004 (PP Only)

SupaSpun II fibres are blown continuously onto a central support core, with fibre diameters controlled to produce different pore sizes throughout the extrusion process.

All the layers are inter-linked to offer maximum support while ensuring that the high void volume is maintained, but



with increasing fibre density towards the cartridge central core - therefore resulting in true depth filtration.

Elements are available up to 1524mm (60") in length, either double open ended or with most common end cap fittings.

## Features and Benefits

- Absolute removal ratings for consistent and reliable performance
- Graded density structure for maximum dirt holding capacity
- Increased void volume giving high flow rates and low initial pressure losses
- Wide chemical compatibility using optional materials, polypropylene and nylon 6
- Range of Absolute ratings from 0.3 to 180µm (Beta Ratio 5000)
- Thermal bonding process minimises media migration and ensures minimal extractables
- Identification data embossed on every cartridge
- **Advantage** grade featuring moulded end caps and rigid outer support cage

## Industries and Applications

- |                          |   |
|--------------------------|---|
| <b>Food and Beverage</b> | • Bottled water, Beers, Wines, Flavours, Polishing lines, Clarification   |
| <b>Pharmaceuticals</b>   | • Membrane pre-filtration, Ophthalmics, Oral medications                  |
| <b>Fine Chemicals</b>    | • Polymers, Photoresists, Acids, Bases, Solvents                          |
| <b>Electronics</b>       | • High purity water, Photoresists, Acids, Etch solutions                  |
| <b>Cosmetics</b>         | • Alcohol, Creams, Lotions, Essential oils, Mouthwashes                   |
| <b>Metal Finishing</b>   | • Plating solutions, Wash solutions, Paints, Resins, Varnishes            |
| <b>Water Treatment</b>   | • Potable water, Resin trap, Pre/Post UV, Membrane protection             |
| <b>Automotive</b>        | • Blanking wash oils, Electrophoretic paints, Top Coats, Hydraulic fluids |
| <b>Petrochemicals</b>    | • Amine stream, Glycol solutions, Water injection and Membrane protection |

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# SupaSpun II Technical Data

Dimensions	PP	NN
Outside Diameter:	64mm	64mm
Core Diameter:	28mm	27mm

## Sterilisation and Sanitisation\*1

Steam:	121°C for 15 mins (20 Cycles)
	135°C for 30 mins (5 Cycles)
Hot Water:	90°C for 30 mins (0.2 bar $\Delta p$ max)

\*1 Applies to single open end cartridges only. For all steaming and hot water applications, the Glass Filled end cap option must be used (PP Only)

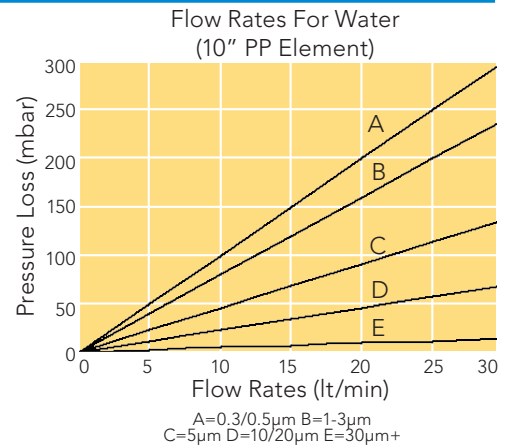
## Maximum Operating Conditions

Temperature:	04PP: 80°C
	04PD: 100°C
	04NN: 150°C
	04PS: 100°C

Recommended change-out differential pressure: 2.5 Bar

Maximum $\Delta p$	PP Media PP Core	PP Media GFPP Core	Nylon Media Nylon Core	PP Media St.St Core
@ 20°C	4.0	4.0	4.0	4.0
@ 50°C	1.5	4.0	4.0	4.0
@ 80°C	0.25	2.4	1.0	4.0
@ 100°C	-	1.5	0.5	4.0

Product Validation Guide available on request. All SupaSpun II cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.



## Ordering Guide

04P	P	005 -	20	N	N	A	
Media	Core/Assembly	Micron Rating	Length	End Caps	Seal	Branding	Options
04P - Polypropylene 04N - Nylon	<b>Standard</b> P - Polypropylene D - Glass Filled Polypropylene N - Nylon 6 S - St.St A - Nylon with Voile V - Polypropylene with Voile  <b>Advantage</b> W - Outer cage + moulded ends Y - Outer cage + glass filled core + moulded ends	00X - 0.3 $\mu$ m*2 000 - 0.5*2 001 - 1.0 002 - 2.0 003 - 3.0 005 - 5.0 010 - 10 020 - 20 030 - 30 050 - 50 070 - 70 090 - 90 120 - 120 150 - 150 180 - 180	05 - 125mm 09 - 251 10 - 254 13 - 332 20 - 508 30 - 762 40 - 1016 60 - 1524	N - None A - Code A B - Code B*3 D - Code D S - Code S 2 - Code 2 3 - Code 3 7 - Code 7 8 - Code 8 0 - Code 0	N - None B - Buna E - EPDM F - FEP/Silicone P - PE Gasket S - Silicone V - Viton	A - Amazon	G - Glass Filled PP End Cap

Example: 04PP005-20NNA = Polypropylene media and core, 5 $\mu$ m rating, double length 508mm (20") long, Double open connections, no seal  
 \*2 Polypropylene only \*3 Code B - to fit Amazon 50 Series housings only

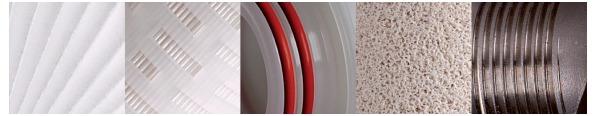
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# SUPAPORE PPG

## Pleated Depth Filter Cartridge



SupaPore PPG Microfiltration cartridges have been designed as effective prefilters for membrane and as final polishing filters for many liquid processing applications. Manufactured using 100% polypropylene media, drainage layers and hardware, the SupaPore PPG pleated depth cartridge offers excellent chemical compatibility across a wide range of liquid processing applications. Its thermally bonded construction ensures minimal extractables and its high filtration efficiency makes it an excellent choice for use in many manufacturing & water treatment processes.



The construction utilises thermal welding techniques to seal all the components therefore eliminating adhesives and extractables and optimising cartridge integrity.

SupaPore PPG cartridges use pleated depth media and are available in standard diameter and Junior sizes with micron ratings from 0.2µm to 40µm in the full range of industry standard lengths and end cap styles.

### Product Features

- 100% polypropylene construction
- Absolute removal ratings Beta ratio 5000
- Extended life version available
- No fibre migration
- Modular construction
- Standard and Junior configurations
- Materials meet US FDA Title 21 and USP Class VI requirements
- Meets the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004

Suitable for most sanitisation regimes including steaming, autoclaving, hot water flush and most common sanitising agents.

(Note: Steaming, autoclaving and hot water sanitisation must use the glass filled end-cap option.)



Amazon Filters manufactures a comprehensive range of filter housings for SupaPore cartridges including the industrial 50 and 60 Series and the 70 Series for hygienic applications. Please consult our Sales Office for further details on the full range.

## Features and Benefits

- Absolute removal ratings for consistent and reliable performance
- Pleated depth media for maximum dirt holding capacity
- High surface area giving high flow rates and low initial pressure losses
- XP - Extended life version available for more challenging applications
- PP - Wide chemical compatibility using 100% polypropylene, meets FDA requirements
- Range of Absolute ratings from 0.2 to 40µm
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification mark on every cartridge
- Comprehensive Product Validation Guide Available

## Industries and Applications

- |  |  |
|--|--|
| <p><b>Food and Beverage</b></p> <p><b>Pharmaceuticals</b></p> <p><b>Fine Chemicals</b></p> <p><b>Electronics</b></p> <p><b>Cosmetics</b></p> <p><b>Metal Finishing</b></p> <p><b>Water Treatment</b></p> | <ul style="list-style-type: none"> <li>• Bottled water, Beers, Wines, Flavours, Polishing lines, Clarification</li> <li>• Membrane pre-filtration, Ophthalmics, Oral medications</li> <li>• Polymers, Photoresists, Acids, Bases, Solvents</li> <li>• High purity water, Photo resists, Acids, Etch solutions</li> <li>• Alcohol, Creams, Lotions, Essential oils, Mouthwashes</li> <li>• Plating solutions, Wash solutions, Paints, Resins, Varnishes</li> <li>• Potable water, Resin trap, Pre/Post UV, Membrane protection</li> </ul> |
|--|--|



# SupaPore PPG Technical Data

## Dimensions

Outside Diameter:	Standard 10"	Junior 5"
	68.5mm	55.5mm
Typical Surface Area:	0.4 - 0.62m <sup>2</sup> (Per 10")	0.15 - 0.24m <sup>2</sup>

## Sterilisation and Sanitisation\*1

Steam or Autoclave	121°C for 15 mins (40 cycles) 135°C for 30 mins (5 cycles)
Hot Water:	90°C for 30 mins (0.2 bar Δp max)

\*Applies to single open end cartridges only. For all steaming and hot water applications, the Glass Filled end cap option must be used.

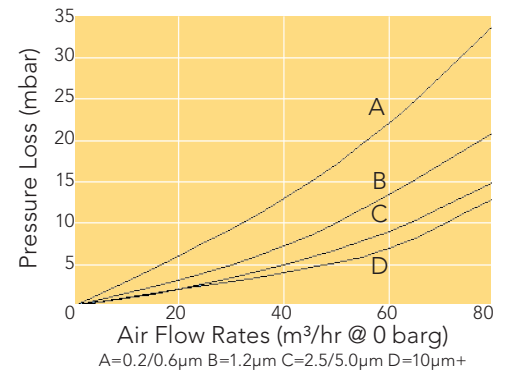
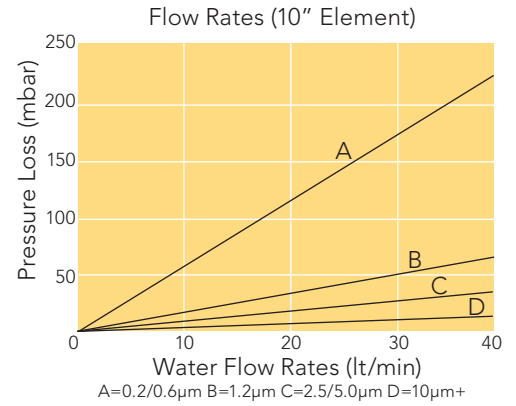
## Maximum Operating Conditions

Temperature: 80°C

Recommended change-out differential pressure: 2.5 Bar

Maximum ΔP	PP Media PP Core	PP Media GFPP Core	Maximum ΔP (Reverse Flow)
@ 20°C	4.0	4.0	3.5
@ 50°C	3.0	4.0	1.0
@ 80°C	1.0	2.4	0.5

Product validation guide available on request. All SupaPore PPG cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.



## Ordering Guide

16P	PG	012 -	30	S	E	A	
Media	Core/Assembly	Micron Rating	Length	End Caps	Seal	Branding	Options
16P - Polypropylene 16X - Extended Life Polypropylene*1	PG - Polypropylene DG - Polypropylene Cage and Endcaps, Glass Filled PP Core*4	002 - 0.2µm 004 - 0.45 005 - 0.5 006 - 0.6 008 - 0.8 012 - 1.2 025 - 2.5 050 - 5.0 100 - 10 200 - 20 400 - 40	02 - 64mm 05 - 125 09 - 250 20 - 509 30 - 762 40 - 1016	0 - DOE A - Code A B - Code B*2 S - Code S 2 - Code 2 3 - Code 3 6 - Code 6 7 - Code 7 8 - Code 8 9 - Code 9 J - Junior*3	B - Buna E - EPDM F - FEP/ Silicone (SOE Only) S - Silicone T - PTFE (DOE Only) V - Viton	A - Amazon	G - Glass filled PP end cap*4 A - Millidisk retrofit adaptor*5 B - 1/2" BSPM adaptor*5 C - Trueseal retrofit adaptor*5

Example: 16PPG012-30SEA = Polypropylene media and core, General grade, 1.2µm rating, triple length 30", Code S connection with EPDM seal.

\*1 Available for all Polypropylene micron ratings except 0.2, 0.45 and 0.6µm grades

\*2 Code B - to fit Amazon 50 Series housings only

\*3 Junior Cartridges available in 2" & 5", Code J, Single Open Ended Only

\*4 Not available on Junior cartridges.

\*5 Junior filters only

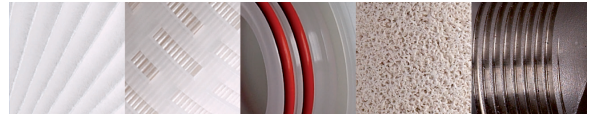
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# SUPAPORE FP H0P

## Hydrophobic Air and Gas Filter



SupaPore FP H0P hydrophobic filters are specifically designed for venting applications on tanks and vessels and for the filtration of compressed air and gases. These cartridges contain a very fine rated borosilicate glass fibre media surface modified with fluoropolymer to provide excellent hydrophobic properties. This ensures high flow rates and low pressure drops are achieved under a wide range of conditions.

All cartridges are thermally bonded and adhesive free to provide a robust filter.



### Product Features

- Double layer hydrophobic media rated at 0.02µm in air and gas
- Performance validated by bacterial aerosol challenge by an independent laboratory
- Polypropylene support
- Minimal fibre migration
- High flow rates and low pressure drops
- Available with a range of adaptors and in multiple lengths
- Long steam sterilisation life

The use of a hydrophobic media in SupaPore FP H0P cartridges helps prevent the filter from wetting-out during use. This is critical in applications where water vapour is present to ensure that air flow into and out of the equipment is maintained. Typical applications include tanks containing liquids at elevated temperatures, autoclaves where steam may come into contact with the filter and gas and air filtration in fermentation processes. The high flow characteristics of SupaPore FP H0P hydrophobic filters allow the use of smaller filters keeping costs to a minimum.



Amazon Filters manufactures a comprehensive range of housings for SupaPore FP H0P hydrophobic filters including the 50 and 60 Series for general applications and the 70 Series for more hygienic applications.

## Features and Benefits

- High flow rates allow the use of smaller filters
- Double layer media for high security
- Validated performance assuring effective removal of bacteria
- Hydrophobic media prevents wetting out of the filter
- Full Product Validation Guide available
- All SupaPore cartridges are manufactured under strict control with batch number identification, giving full traceability on all components
- Compliant with EN ISO13408:2011 and the requirements of EN1822 for H14 class filters

## Industries and Applications

- Tank and vessel venting
- Fermentation inlet gas and off-gas filtration
- Filtration of compressed air and gases
- Autoclave vacuum break



# SupaPore FP H0P Technical Data

## Dimensions

Outside diameter:	Standard 68.5mm	Junior 56mm
Surface area:	0.32m <sup>2</sup> (per 10")	0.06m <sup>2</sup> (2") 0.12m <sup>2</sup> (5")

## Sterilisation and Sanitisation\*2

Steam or Autoclave: 121°C for 15 minutes (20 cycles)  
 \*2Applies to single open end cartridges only. For all steaming and hot water applications, the Glass Filled PP end cap option must be used.

## Maximum Operating Conditions

Temperature: 80°C

Recommended Maximum Differential Pressure:

Forward Flow: 4.0 bar @ 20°C

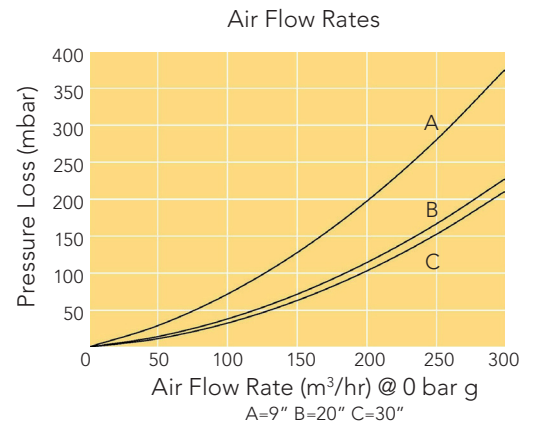
Reverse Flow: 1.5 bar @ 20°C

Recommended change-out differential pressure: 2.5 Bar

## Materials of Construction

Filter Media: Hydrophobic Fluoropolymer coated Borosilicate Glass  
 Microfibre  
 Media Support: Polypropylene  
 Cage, core and end caps: Polypropylene

Product validation guide available on request. All Supapore FP cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.



## Ordering Guide

16F	PG	H0P -	20	A	S	A	B
Media	Core/Assembly	Micron Rating	Length	End Caps	Seal	Branding	Options
16F - Fluoropolymer Coated Borosilicate Glass Microfibre	PG - Polypropylene DG - Polypropylene Cage and Endcaps, Glass Filled PP Core *5	H0P - 0.02µm	02 - 79mm 05 - 135mm 09 - 249mm 20 - 496 30 - 744 40 - 991	0 - DOE A - Code A B - Code B*3 D - Code D S - Code S 2 - Code 2 3 - Code 3 7 - Code 7 8 - Code 8 9 - Code 9 J - Junior*4	B - Buna*5 E - EPDM*5 F - FEP/Silicone (SOE Only)*5 S - Silicone T - PTFE (DOE Only)*5 V - Viton*5 G - FEP/Viton*5	A - Amazon	G - Glass filled PP end cap*7 A - Millidisk retrofit adaptor*6 B - 1/2" BSPM adaptor*6 C - Trueseal retrofit adaptor*6

Example: 16FPGH0P - 20ASA = Borosilicate Glass Microfibre media with polypropylene core, General grade, 0.02µm, 20", Code A connections with Silicone seals.

\*3 Code B - to fit Amazon 50 Series housings only  
 \*4 Junior cartridges available in 2" and 5", Code J, Single Open Ended Only  
 \*5 Not available in Junior cartridges  
 \*6 Junior filters only  
 \*7 Glass filled end cap standard on all junior cartridges

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# SUPAPORE VP

## Pleated Membrane Cartridge



Supapore VP Microfiltration cartridges use a pleated high surface area Polyethersulphone membrane that has been designed for use in a wide range of liquid processing applications. The naturally hydrophilic PES membrane contains no wetting agents and has very low levels of extractables making this cartridge an ideal choice for systems requiring a reliable and consistent high-quality filtrate.

### Product Features

Supapore VP cartridges feature:

- A naturally hydrophilic PES membrane
- Low protein-binding characteristics
- Exceptionally high flow rates with



- low clean pressure losses
- Bacterial retention data with LRVs using *Brevundimonas diminuta* and *Serratia marcescens*
- Wide chemical compatibility

All cartridges are thermally bonded and adhesive free. Each unit is preflushed with ultra pure water and integrity tested before final assembly.

- Fast rinse-up time to 18 Megohm cm<sup>\*1</sup>
- Non Pyrogenic<sup>\*2</sup>
- Materials meet US FDA Title 21 and USP Class VI requirements
- Meets the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004
- Meet current USP requirements for extractables

Available in a wide range of grades & absolute rated pore sizes:

- General Grade
- Electronics Grade
- Biological Grade

Suitable for most sanitisation regimes including steaming, autoclaving, hot water flush and most common sanitising agents.

(Note: Steaming, autoclaving and hot water sanitisation must use the glass filled end-cap option)



Amazon Filters manufactures a comprehensive range of filter housings for Supapore VP cartridges including the industrial 50 and 60 Series and the 70 Series for hygienic applications. Please consult our Sales Office for further details on the full range.

## Features and Benefits

- Validated<sup>\*3</sup> removal ratings for consistent and reliable performance
- Fully Integrity Testable - Bubble Point and Diffusional Flow values provided for all pore sizes<sup>\*4</sup>
- Pleated PES membrane that exhibits exceptionally low protein-binding characteristics
- High surface area giving high flow rates and low initial pressure losses
- Wide chemical compatibility, meets FDA requirements
- Range of integrity testable ratings from 0.03 to 1.0µm (depending on grade)
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification mark on every cartridge
- Comprehensive Product Validation Guide available

<sup>\*1</sup>E grades only <sup>\*2</sup>B grades only

<sup>\*3</sup>See product guides for further details stating test method and rated efficiencies <sup>\*4</sup>E and B Grades only

## Industries and Applications

### Pharmaceuticals

### Fine Chemicals

### Electronics

### Cosmetics

- Sterile filtration, WFI, Ophthalmics, Oral medications, Large volume parenterals
- Aqueous and Organic bulk feeds, Solvents, Bubble jet inks
- High purity water, Polishing loop return lines, Point of use
- Alcohol, Mouthwashes, Make up water

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# SupaPore VP Technical Data

## Dimensions

	Standard 10"	Junior 5" <sup>*7</sup>
Outside Diameter:	68.5mm	55.5mm
Typical Surface Area:	0.65m <sup>2</sup> - 0.75m <sup>2</sup> (10")	

## Sterilisation and Sanitisation<sup>\*5</sup>

Steam or Autoclave:	121°C for 60 mins (240 cycles) 135°C for 30 mins (25 cycles)
Hot Water:	90°C for 30 mins (0.2 bar Δp max)

<sup>\*5</sup>Applies to single open end cartridges only. For all steaming and hot water applications, the Glass Filled end cap option must be used

## Maximum Operating Conditions

Temperature:	80°C
Recommended Maximum Differential Pressure:	
Forward Flow:	4.0 Bar @ 20°C
Reverse Flow:	3.5 Bar @ 20°C

Recommended change-out differential pressure: 2.5 Bar

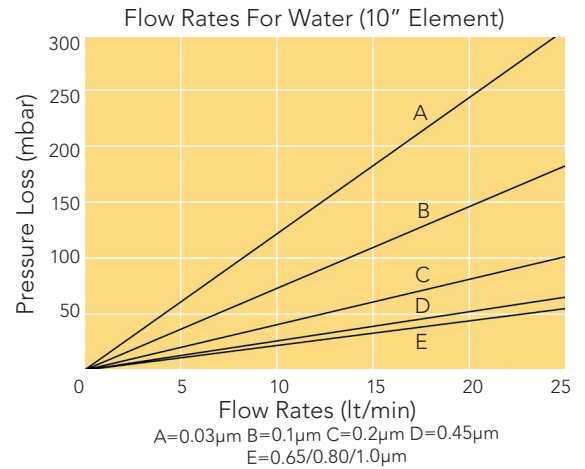
Product validation guide available on request. All SupaPore VP cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

## Materials of Construction

Filter Media:	Polyethersulphone (PES)
Cage, Core & End Caps:	P - Polypropylene (PP) D - Polypropylene Cage and Endcaps, Glass Filled PP Core

## Microorganism Removal Efficiency (per 10" cartridge)

16VPB002:	LRV>11 ( <i>Brevundimonas diminuta</i> (ATCC 19146))
16VPB004:	LRV>8 ( <i>Serratia marcescens</i> (ATCC 14756))



## Integrity Test Specification, B grade only

Micron Rating	Bubble Point In Water	Diffusion Flow (cc/min/10") In Water
0.03µm	5172mBar (75 psi)	≤ 30 @ 4138mBar
0.2µm	3030mBar (44 psi)	≤ 30 @ 2410mBar
0.45µm	1720mBar (25 psi)	≤ 30 @ 1380mBar
0.65µm	1310mBar (19 psi)	≤ 30 @ 1030mBar
0.8µm	1030mBar (15 psi)	≤ 30 @ 830mBar
1.0µm	690mBar (10 psi)	≤ 30 @ 550mBar

# Ordering Guide

16VP	G	004 -	30	3	S	A	
Media	Grade	Micron Rating	Length	End Caps	Seal	Branding	Options
16VP - Polyethersulphone/ Polypropylene 16VD - Polyethersulphone / Polypropylene Cage and Endcaps, Glass Filled PP Core	B - Biological E - Electronics G - General	00A - 0.03µm 001 - 0.10 <sup>*8</sup> 002 - 0.20 004 - 0.45 006 - 0.65 008 - 0.80 010 - 1.0	02 - 64mm 05 - 125 09 - 251 20 - 510 30 - 757 40 - 1016	0 - DOE A - Code A B - Code B <sup>*6</sup> S - Code S 2 - Code 2 3 - Code 3 6 - Code 6 7 - Code 7 8 - Code 8 9 - Code 9 J - Junior <sup>*7</sup>	B - Buna E - EPDM F - FEP / Silicone S - Silicone V - Viton	A - Amazon	G - Glass filled PP end cap A - Millidisk retrofit adaptor <sup>*9</sup> B - 1/2" BSPM adaptor <sup>*9</sup> C - Trueseal retrofit adaptor <sup>*9</sup>

Example: 16VPG004-303SA = Polyethersulphone media with polypropylene core, General Grade, 0.45µm, triple length 30" long, Code 3 end fitting with Silicone seal.

<sup>\*6</sup> Code B - to fit Amazon 50 Series housings only

<sup>\*7</sup> Junior cartridges available in VPB and VPG media, 2" & 5" lengths, Code J, Single open ended only. Glass filled end caps are not available on Junior products

<sup>\*8</sup> Not available in B grade

<sup>\*9</sup> Junior filters only

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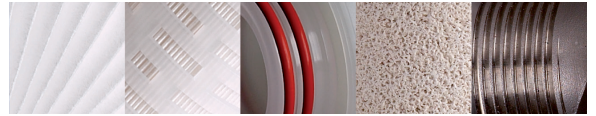
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# SUPAPORE NP

## Pleated Nylon Membrane Cartridge



SupaPore NP Microfiltration cartridges use a pleated high surface area Nylon 66 membrane that has been designed for use in a wide range of liquid processing applications. The naturally hydrophilic Nylon 66 membrane contains no wetting agents and has very low levels of extractables making this cartridge an ideal choice for systems requiring a reliable and consistent high-quality filtrate.

### Product Features

SupaPore NP cartridges feature:

- A naturally hydrophilic N66 membrane
- Exceptionally high flow rates with low clean pressure losses
- Bacterial retention data with LRVs using *Brevundimonas diminuta* and *Serratia marcescens*
- Wide chemical compatibility

All cartridges are thermally bonded and adhesive free. Each unit is preflushed with ultra pure water and integrity tested before final assembly.

- Non Pyrogenic
- Materials meet US FDA Title 21 and USP Class VI requirements
- Meet current USP requirements for extractables, particle release and endotoxins
- Fast rinse-up time to 18 Megohm-cm<sup>\*1</sup>
- Available in a wide range of absolute rated pore sizes.

Suitable for most sanitisation regimes including steaming, autoclaving, hot water flush and most common sanitising agents.

(Note: Steaming, autoclaving and hot water sanitisation must use the glass filled end-cap option)

Amazon Filters manufactures a comprehensive range of filter housings for SupaPore NP cartridges including the industrial 50 and 60 Series and the 70 Series for hygienic applications. Please consult our Sales Office for further details on the full range.



## Features and Benefits

- Validated<sup>\*2</sup> removal ratings for consistent and reliable performance
- Fully Integrity Testable - Diffusional Flow values provided for all pore sizes
- High surface area giving high flow rates and low initial pressure losses
- Wide chemical compatibility
- Meets FDA requirements
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification mark on every cartridge
- Comprehensive Product Validation Guide available

<sup>\*1</sup> Electronics grades only

<sup>\*2</sup> See product guides for further details stating test method and rated efficiencies

## Industries and Applications

- |                        |  |
|------------------------|--|
| <b>Pharmaceuticals</b> | • Sterile filtration, WFI, Ophthalmics, Oral medications, Large volume parenterals |
| <b>Fine Chemicals</b>  | • Aqueous and Organic bulk feeds, Solvents, Bubble jet inks                        |
| <b>Electronics</b>     | • High purity water, Polishing loop return lines, Point of use                     |
| <b>Cosmetics</b>       | • Alcohol, Mouthwashes, Make up water  |

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# SupaPore NP Technical Data

## Dimensions

Outside Diameter: 68.5mm  
 Typical Surface Area: 0.65m<sup>2</sup> (10")

## Sterilisation and Sanitisation\*3

Steam or Autoclave: 121°C for 15 mins (40 cycles)  
 Hot Water: 90°C for 30 mins (0.2 bar Δp max)

\*3 Applies to single open end cartridges only. For all steaming and hot water applications, the Glass Filled end cap option must be used

## Maximum Operating Conditions

Temperature: 80°C

Recommended Maximum Differential Pressure:

Forward Flow: 4.0 Bar @ 20°C

Reverse Flow: 3.5 Bar @ 20°C

Recommended change-out differential pressure: 2.5 Bar

Product Validation Guide available on request. All SupaPore NP cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

## Materials of Construction

Filter Media: Nylon 66 membrane, polypropylene support

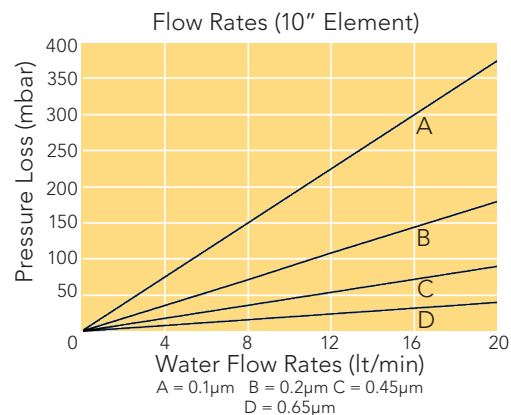
Cage, Core & End Caps: P - Polypropylene (PP)

D - Polypropylene Cage and Endcaps, Glass Filled PP Core

## Microorganism Removal Efficiency (per 10" cartridge)

16NPB002: LRV>7 (*Brevundimonas diminuta* (ATCC 19146))

16NPB004: LRV>7 (*Serratia marcescens* (ATCC 14756))



Micron Rating	Diffusion Flow (cc/min/10") in water
0.1µm	≤ 30 @ 3310mBar
0.2µm	≤ 30 @ 2410mBar
0.45µm	≤ 30 @ 1380mBar
0.65µm	≤ 30 @ 1030mBar

## Ordering Guide

16NP	E	001 -	09	0	E	A	
Media	Grade	Micron Rating	Length	End Caps	Seal	Branding	Options
NP - Nylon 66 membrane, Polypropylene Support Cage, Core and Endcaps	B - Biological E - Electronics	001 - 0.10 002 - 0.20 004 - 0.45 006 - 0.65	02 - 64mm 05 - 125 09 - 251 20 - 510 30 - 757 40 - 1016	0 - DOE A - Code A B - Code B*4 S - Code S 2 - Code 2 3 - Code 3 6 - Code 6 7 - Code 7 8 - Code 8 9 - Code 9 J - Junior*5	B - Buna E - EPDM F - FEP/ Silicone S - Silicone V - Viton	A - Amazon P - Plain	G - Glass filled PP end cap A - Millidisk retrofit*5 B - 1/2" BSPM thread retrofit*5 C - Trueseal retrofit*5
ND - Nylon 66, Polypropylene Support Cage and Endcaps, Glass Filled PP Core							

Example: 16NPB004-303SA = Nylon 66 media with polypropylene core, Biological Grade, 0.45µm, triple length 30" long, Code 3 end fitting with Silicone seal.

\*4 Code B - to fit Amazon 50 Series housings only. Not available on Junior cartridges

\*5 Juniors only

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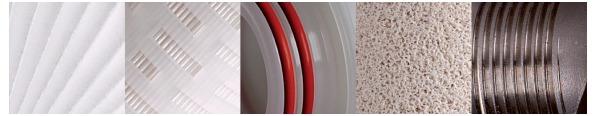
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# SUPAPORE TP

## Pleated Membrane Filter Cartridge



SupaPore TP Microfiltration cartridges have been designed specifically for use in a wide range of aggressive gas and liquid processing applications. Its naturally hydrophobic PTFE membrane makes this cartridge an ideal choice for systems requiring excellent compatibility, reliability and a consistently high quality filtrate.

### Product Features

SupaPore TP cartridges feature:

- A naturally hydrophobic PTFE membrane
- 0.2µm rated filter in liquids and 0.02µm in gases
- Polypropylene support
- Minimal fibre migration



- Wide chemical compatibility
- Validation by bacterial and aerosolised bacteriophage challenge
- Junior cartridge available

All cartridges are thermally bonded and adhesive free. Each unit is pre-flushed with ultra-pure water and integrity tested before final assembly.\*

- Can be steam sterilised
- Sanitisable
- Meet current US FDA CFR Title 21 requirements
- Fully integrity testable by Water Intrusion, Bubble Point or Diffusion Flow test<sup>1</sup>
- All B grade modules are integrity tested during manufacture

Available in a wide range of grades & absolute rated pore sizes:

- 0.1, 0.2, 0.45, 1.0µm and solvent grade
- General Grade
- Biological Grade

Suitable for most sanitisation regimes including steaming, autoclaving, hot water flush and most common sanitising agents.

(Note: Steaming, autoclaving and hot water sanitisation must use the glass filled end-cap option)



Amazon Filters manufactures a comprehensive range of filter housings for SupaPore TP cartridges including the industrial 50 and 60 Series and the 70 Series for hygienic applications. Please consult our Sales Office for further details on the full range.

## Features and Benefits

- Fully Integrity Testable - Water Intrusion, Bubble Point and Diffusional Flow values provided for biological grade pore sizes<sup>1</sup>
- Validated<sup>2</sup> removal ratings for consistent and reliable performance
- Naturally hydrophobic PTFE membrane and polypropylene hardware
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification mark on every cartridge
- Full product guide available

<sup>1</sup>B grade only

<sup>2</sup> See product guides for further details stating test method and rated efficiencies

## Industries and Applications

**Food and Beverage**  
**Pharmaceutical**  
**Fine Chemicals**  
**Electronics**

- CO<sub>2</sub> lines, Sterile vent for storage and transfer tanks
- Solvent filtration, polishing
- Polymers, Aggressive acids, Bases, Solvents, Ozonated DI Water
- Photoresists, Acids, Etch Solutions



# SupaPore TP Technical Data

## Dimensions

	Standard 10"	Junior 5"
Outside Diameter:	71mm	56mm
Typical Surface Area:	0.75m <sup>2</sup>	0.25m <sup>2</sup>
Length:	See ordering guide	

## Sterilisation and Sanitisation\*3

Steam or Autoclave: 135°C for >150 hours  
 \*3Applies to single open end cartridges only. For all steaming and hot water applications, the Glass Filled end cap option must be used.

## Maximum Operating Conditions

Temperature:	80°C
Recommended Maximum Differential Pressure:	
Forward Flow:	5.0 bar @ 20°C
Reverse Flow:	3.0 bar @ 20°C

Recommended change-out differential pressure: 2.5 Bar

Product validation guide available on request. All SupaPoreTP cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

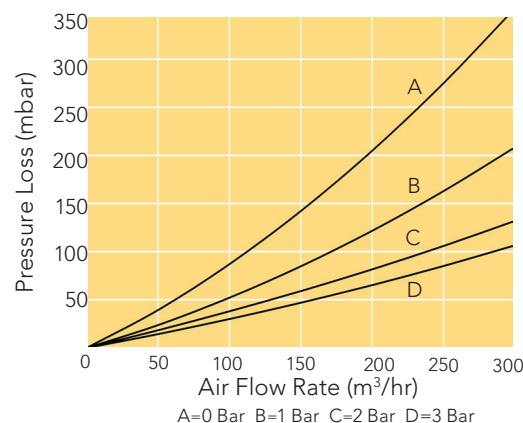
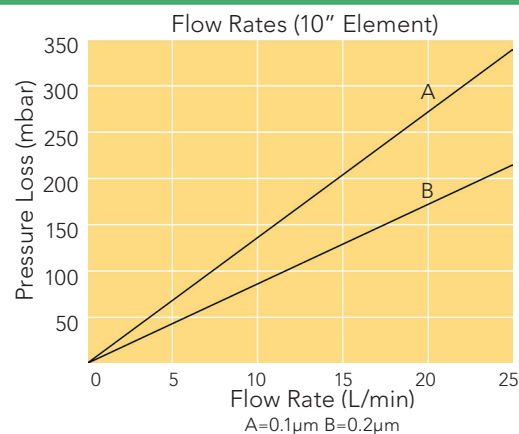
## Materials of Construction

Filter Media:	PTFE
Media Support:	Polypropylene (PP)
Cage, Core & End Caps:	Polypropylene (PP)

## Integrity Test Specification

B Grade

Micron Rating	Bubble Point In 60/40 IPA/Water	Diffusion Flow (cc/min/10") In 60/40 IPA/Water	Water Intrusion Flow (cc/10 mins/10")
0.10µm	≥ 1500mbar (22 psi)	≤ 11 @ 900mbar	-
0.22µm	≥ 1000mbar (14.5 psi)	≤ 11 @ 700mbar	≤ 13 @ 2500mbar



## Ordering Guide

16TP	B	002 -	20	3	F	A	
Media	Grade	Micron Rating	Length	End Caps	Seal	Branding	Options
16TP - PTFE / Polypropylene	B - Biological G - General	001 - 0.10µm 002 - 0.20 004 - 0.45*5 010 - 1.0*5 00P - Solvent Grade*5	02J - 64mm 05J - 122 05 - 124 (not 0.2µm) 05 - 143 (0.2µm only) 09 - 249 20 - 496 30 - 744 40 - 991	0 - DOE*5 A - Code A B - Code B*4 S - Code S 2 - Code 2 3 - Code 3 6 - Code 6*5 7 - Code 7 8 - Code 8 9 - Code 9*5 J - Junior*6	B - Buna E - EPDM F - FEP/Silicone (SOE Only) G - FEP/Viton S - Silicone T - PTFE V - Viton	A - Amazon	G - Reinforced glass PP end cap*7 A - Millidisk retrofit adaptor *8 B - 1/2" BSPM adaptor *8 C - Trueseal retrofit adaptor *8

Example: 16TPB002-203FA = PTFE media with polypropylene core, Biological Grade, 0.2µm, double length 20" long, Code 3 end fitting with FEP/Silicone seal.

\*4 Code B - to fit Amazon 50 Series housings only

\*5 TPG Only

\*6 Junior cartridge only available in 2" & 5", 0.2µm, Code J, Single open ended only

\*7 Not available on Junior Cartridges

\*8 Junior filters only

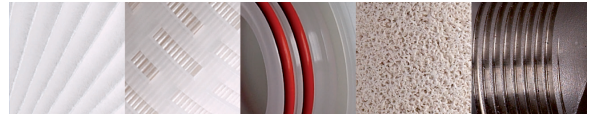
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# SUPAPORE TP VENT

## Autoclave and Tank Vent Filters



SupaPore TP vent filters are specifically designed for venting applications on tanks and vessels and to be used as vacuum break filters for autoclaves. They are manufactured using a naturally hydrophobic PTFE membrane to ensure high flow rates and low pressure drops are achieved under a wide range of conditions. All cartridges are thermally bonded and adhesive free to provide a robust filter. These filters are fitted with a 1/2" BSP male connector so can easily be fitted to autoclaves and other process equipment.

### Product Features

- A naturally hydrophobic PTFE membrane rated at 0.02µm in air and gas
- Polypropylene support
- Minimal fibre migration
- High flow rates and low pressure drops
- Available as 2" and 5" length cartridges
- 1/2" BSP male connectors
- Can be repeatedly steam sterilised



The use of a naturally hydrophobic membrane in SupaPore TP cartridges helps prevent the filter from wetting-out during use. This is critical in applications where water vapour is present to ensure that air flow into and out of the equipment is maintained. Typical applications include tanks containing liquids at elevated temperatures and autoclaves where steam may come into contact with the filter.

The use of an absolute rated membrane means that removal efficiency is maintained independent of flow rate. This allows the high flow characteristics of SupaPore TP vent filters to be utilised and smaller filters to be used.

## Features and Benefits

- High flow rates allow the use of smaller filters
- Absolute rating assures performance even at high flow rates
- Hydrophobic PTFE media prevents wetting out of the filter
- 1/2" BSP male connector so can be easily installed
- Full Product Validation Guide available
- All SupaPore cartridges are manufactured under strict control with batch number identification, giving full traceability on all components

## Industries and Applications

- Tank and vessel venting
- Autoclave vacuum break

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# SupaPore TP Technical Data

## Dimensions

Outside diameter:	70mm	
Filter size:	2"	5"
Surface area:	0.18m <sup>2</sup>	0.37m <sup>2</sup>
Length:	64mm	129mm

## Sterilisation and Sanitisation

Steam or Autoclave : 136°C for 30 minutes (100 cycles)

## Maximum Operating Conditions

Temperature: 80°C

Recommended Maximum Differential Pressure :

Forward Flow : 5.0 bar @ 20°C

Reverse Flow : 2.1 bar @ 20°C

Recommended change-out differential pressure: 2.5 Bar

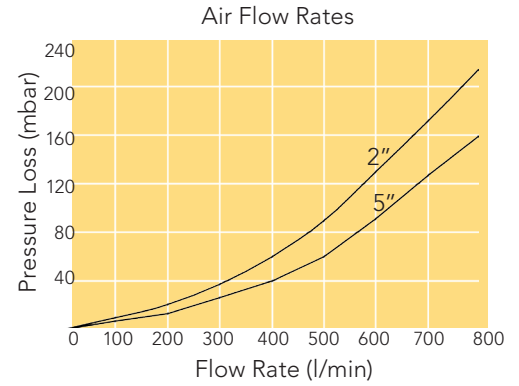
## Materials of Construction

Filter Media: PTFE

Media Support: Polypropylene

Cage, core and end caps: Polypropylene

Product validation guide available on request. All SupaPore TP cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.



## Ordering Guide

16TP	G	002 -	05	X	S	A	02
Media	Core/Assembly	Micron Rating	Length	End Cap	Seal	Branding	Options
TP - PTFE / Polypropylene	G - General	002 - 0.02µm	02 - 64mm 05 - 129mm	X - Screw thread	S - Silicone	A - Amazon	02 - ½" BSPP male

Example: 16TPG002-02XSA02 = PTFE media with Polypropylene core, General Grade, 0.2µm, 2" length, with Silicone seal.

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# SUPAPORE THB

## High Flow Pleated Membrane Cartridge



SupaPore THB Microfiltration cartridges have been designed specifically for air and gas applications where the highest flow rates and lowest pressure drops are critical e.g. off-gas filtration in fermentation. They are manufactured using a naturally hydrophobic expanded PTFE membrane which will not wet-out with water vapour, thus maintaining maximum flow in all typical process conditions. These robust filters can be repeatedly steam sterilised offering long life and lowest costs.

### Product Features

SupaPore THB cartridges feature:

- A naturally hydrophobic PTFE membrane rated at 0.2µm in liquids and 0.02µm in gases
- Large diameter core for higher flow rates
- Robust polypropylene core and support materials
- Minimal fibre migration
- Wide chemical compatibility
- Validation by bacterial and aerosolized bacteriophage challenge



All cartridges are thermally bonded and adhesive free. Each unit is pre-flushed with ultra-pure water and integrity tested before final assembly.

- Can be steam sterilised multiple times
- Meet current US FDA CFR Title 21 requirements
- Fully integrity testable by Water Intrusion, Bubble Point or Diffusion Flow test\*<sup>1</sup>
- Modules are integrity tested during manufacture

Amazon Filters manufactures a comprehensive range of filter housings for SupaPore THB cartridges including the industrial **50** and **60 Series** and the **70 Series** for hygienic applications. Please consult our Sales Office for further details on the full range.

## Features and Benefits

- Very high flow rates and low pressure drops
- Validated\*<sup>1</sup> removal ratings for consistent and reliable performance
- Fully Integrity Testable - Water Intrusion, Bubble Point and Diffusional Flow values provided\*<sup>1</sup>
- Features naturally hydrophobic expanded PTFE membrane and polypropylene hardware
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification mark on every cartridge
- Full product validation guide available

\*<sup>1</sup> See product guides for further details stating test method

## Industries and Applications

- |                          |  |
|--------------------------|--|
| <b>Food and Beverage</b> | • CO <sub>2</sub> lines, Sterile vent for storage and transfer tanks                 |
| <b>Pharmaceutical</b>    | • Sterile venting, Fermenter inlet/off-gas filtration, Solvent filtration, Polishing |
| <b>Fine Chemicals</b>    | • Polymers, Aggressive acids, Bases, Solvents, Ozonated DI Water                     |
| <b>Electronics</b>       | • Photoresists, Acids, Etch Solutions  |



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# SupaPore THB Technical Data

## Dimensions

Outside Diameter: 71mm  
 Typical Surface Area: 0.75m<sup>2</sup> (Per 10")

## Sterilisation and Sanitisation<sup>2</sup>

Steam or Autoclave: 135°C for >150 hours  
<sup>2</sup>Applies to single open end cartridges only. For all steaming and hot water applications, the stainless steel end cap insert or Glass Filled end cap option must be used.

## Maximum Operating Conditions

Temperature: 80°C  
 Recommended Maximum Differential Pressure:  
 Forward Flow: 5.0 bar @ 20°C, 0.5 bar @ 140°C  
 Reverse Flow: 3.0 bar @ 20°C, 0.5 bar @ 140°C  
 Recommended change-out differential pressure: 2.5 Bar

## Materials of Construction

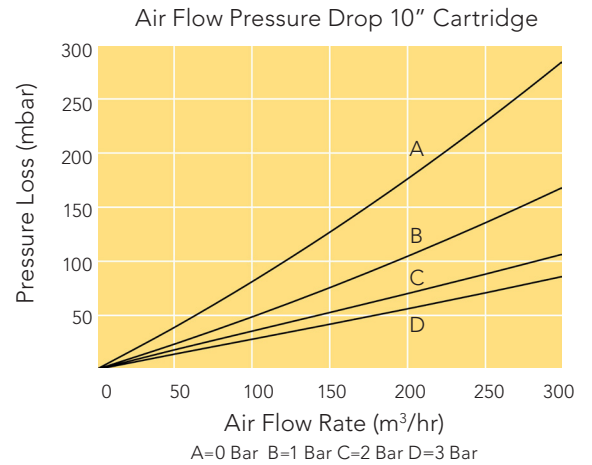
Filter Media: PTFE  
 Media Support: Polypropylene (PP)  
 Cage and End Caps: Polypropylene (PP)  
 Core: Polypropylene (PP)

Product validation guide available on request. All SupaPore THB cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

## Integrity Test Specification

Minimum Bubble Point		Diffusional flow Test Pressure		Maximum Diffusional Flow <sup>3</sup>	Water Intrusion Test pressure		Maximum Water Intrusion <sup>*3</sup>
bar	psi	bar	psi	ml/min	bar	psi	ml/10mins
1.0	14.5	0.7	10	11	2.5	36.3	13

<sup>3</sup> per 10" cartridge



# Ordering Guide

16TH	B	002 -	09	7	E	A	G
Media	Grade	Micron Rating	Length	End Caps	Seal	Branding	Options
TH - PTFE / Polypropylene	B - Biological	002 - 0.02µm	05 - 137mm 09 - 250 20 - 497 30 - 744 40 - 991	A - Code A B - Code B <sup>*4</sup> S - Code S 2 - Code 2 3 - Code 3 7 - Code 7 8 - Code 8	B - Buna E - EPDM F - FEP/Silicone (SOE Only) S - Silicone T - PTFE V - Viton	A - Amazon	G - Glass filled PP end cap (standard)

Example: 16THB002-207SAG = PTFE media with polypropylene support and core, Biological Grade, 0.2µm, double length 20" long, Code 7 end fitting with Silicone seal and glass filled end cap.  
<sup>\*4</sup> Code B to fit Amazon 50 Series housings only

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# SUPAPORE HALAR

## High Compatibility Pleated Filter



SupaPore Halar filters are constructed using Halar fluoropolymer media offering a unique combination of mechanical properties and thermal and chemical resistance. These filters are specifically designed to offer excellent compatibility and effective removal of particulates from solvents, solvent based liquids and ozonated water.

SupaPore Halar filters offer greater compatibility than polypropylene media filters at a cost that is typically lower than PTFE membrane cartridges. The advanced pleated meltblown media used in these filters provides both high flow rates and long life. They are also available with Nylon 6 cage, core and end-caps to widen the range of applications where SupaPore Halar filters can be used.

### Industries and Applications

The availability of high purity, particulate-free solvents is important to many industries including manufacturers of Active Pharmaceutical Ingredients (API), fine chemicals and microelectronics. Typical applications include:

#### API / Fine Chemical manufacturing

- Removal of fine particulates from product streams
- Clarification of chemicals used for

- product synthesis
- Filtration of solvents used for purification of crystallised compounds

#### Microelectronics industry

- Particle removal from chemicals and solvents used for microchip production

#### Water treatment

The use of ozone to control bioburden in purified water systems is increasing and ozonated water can damage standard polypropylene cartridges. SupaPore Halar cartridges are excellent for this application, exhibiting enhanced compatibility for water dosed with ozone. They are also used as vent filters to protect water tanks from particulate contamination.

#### Compatibility\*<sup>1</sup>

SupaPore Halar filters offer improved compatibility with a wide range of chemicals and solvents including:-

- Acetone
- Acetonitrile
- Acetic Acid (100%)
- Diethyl Ether
- DMAC
- DMF
- DMSO
- Ethyl acetate
- Ethanol

- Hexane
- Hydrochloric Acids
- Methanol
- MIBK
- MTBE
- n-Hyphenated
- Ozonated Water
- Sodium Hydroxide
- THF
- Toluene
- Xylene

\*<sup>1</sup> Chemical compatibility of filters can be affected by many process factors (e.g. temperature, exposure time etc). Filters should be pre-tested under users' own process conditions using appropriate safety practices in order to confirm compatibility.

Amazon Filters manufactures a comprehensive range of PED and ATEX compliant filter housings for use with SupaPore Halar cartridges. This range includes the industrial **50** and **60 Series** housings and the hygienic **70 Series**. We are also able to offer the **ClearView** housing containing a 'window' to allow on-line visual monitoring of the process.

Please consult our Sales Office for further details on the full range.



## Features and Benefits

- Broad chemical compatibility with a range of solvents and chemicals at an attractive cost
- Available with either polypropylene or nylon hardware
- High flow rates, low pressure drops, long life and low extractables
- Manufactured under strict control with batch number identification, giving full traceability on all components
- Materials USP Class VI Plastics tested and meet US FDA Title 21 requirements
- Full product validation guide available

## Industries and Applications

### Pharmaceuticals

- API manufacturing

### Fine Chemicals

- Filtration of Acids, Bases and Solvents

### Electronics

- High purity water, Photo resists, Acids, Etch solutions

### Water Treatment

- Ozonated water

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# SupaPore Halar Technical Data

## Dimensions

Outside Diameter: 69mm  
 Typical Surface Area: 0.54 m<sup>2</sup> (Per 10")

## Sterilisation and Sanitisation\*2

Steam or Autoclave: 121°C for 15 mins (40 cycles)  
 Hot Water: 90°C for 30 mins (0.2 bar Δp max)

\*2 Applies to single open end cartridges only. For all steaming and hot water applications, the Glass Filled end cap option must be used.

## Maximum Operating Conditions

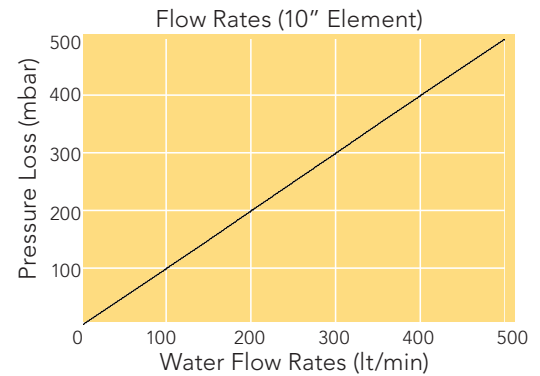
Temperature: 80°C  
 Recommended Maximum Differential Pressure:  
 Forward Flow: 4.0 Bar @ 20°C  
 Reverse Flow: 3.5 Bar @ 20°C

Recommended change-out differential pressure: 2.5 Bar

## Materials of Construction

Filter Media: Halar (ECTFE)  
 Media Support: P&D - Polypropylene  
 N - Polyester  
 Cage, Core & End Caps: P - Polypropylene (PP)  
 N - Nylon (N)  
 D - Polypropylene Cage and Endcaps,  
 Glass Filled PP Core

Product validation guide available on request. All SupaPore Halar cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.



Particulate Size	Beta Ratio (Efficiency)
0.6µm	100 (99%)
0.8µm	400 (99.75%)
1µm	2000 (99.95%)
2µm	5000 (99.98%)
3µm	>5000 (99.98%)
4µm	>5000 (99.98%)
>5µm	>5000 (99.98%)

## Ordering Guide

16L	PG	00P-	09	0	E	A	
Media	Core/Assembly	Removal Rating	Length	Connections	Seal	Branding	Options
16L - Halar	PG - Polypropylene NG - Nylon DG - Polypropylene Cage and Endcaps, Glass Filled PP Core	00P - Solvent Grade	05 - 125mm 09 - 250 20 - 509 30 - 762 40 - 1016	0 - DOE A - Code A B - Code B <sup>3</sup> S - Code S 2 - Code 2 3 - Code 3 6 - Code 6 7 - Code 7 8 - Code 8 9 - Code 9	B - Buna E - EPDM F - FEP/Silicone (SOE Only) G - FEP/Viton S - Silicone T - PTFE (DOE Only) V - Viton	A - Amazon	G - Glass filled PP end cap

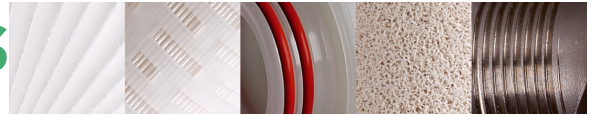
Example: 16LPG00P-30SEA = Halar media and polypropylene core, General Solvent grade, triple length 30", code S connection with EPDM seal.  
<sup>3</sup> Code B - to fit Amazon 50 Series housings only

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# SUPAPORE TT CAPSULES



## Pleated Membrane Capsules

Supapore TT microfiltration capsules have been designed specifically for use in a wide range of aggressive gas and liquid processing applications.

Its naturally hydrophobic PTFE membrane and all fluoropolymer casing makes this capsule an ideal choice for systems requiring excellent compatibility, reliability and a consistently high quality filtrate.

Supapore TT capsule filters are ready-to-use, no housings to purchase or maintain, easy to change-out with minimum downtime and reduced loss of process fluid.

### Product Features

- 100% Fluoropolymer construction
- Naturally hydrophobic PTFE membrane
- Capsules available in a range of lengths and inlet/outlet configurations
- Minimal fibre migration
- Wide chemical compatibility
- All capsules are thermally bonded and adhesive free
- Each unit is pre-flushed with ultra-pure water
- User integrity testable by bubble point
- All capsules are integrity tested and pressure tested during manufacture
- In-line design

Available in a wide range of absolute rated pore sizes:

- 0.1µm
- 0.2µm
- 0.45µm
- 1.0µm



## Features and Benefits

- Excellent chemical resistance offering wide process capability and compatibility
- Integral filter and housing minimizes operator exposure and maximizes uptime by allowing faster change-outs
- Capsules integrity tested during manufacturing to help ensure trouble free use
- Different connection and vent options can be supplied

## Industries and Applications

- |                          |   |
|--------------------------|---|
| <b>Food and Beverage</b> | • Ozonated water  |
| <b>Pharmaceutical</b>    | • Ozonated water, solvent filtration, high temperature air/gas        |
| <b>Fine Chemicals</b>    | • Ozonated water, solvent filtration, high temperature air/gas, acids |
| <b>Electronics</b>       | • Ozonated and high temperature UPW, photolithography chemicals       |



# SupaPore TT Capsules Technical Data

## Dimensions

Filter Module Length	Nominal Capsules Length	Typical Surface Area
100mm (4")	230mm	0.45m <sup>2</sup>
250mm (10")	445mm	0.9m <sup>2</sup>
500mm (20")	660mm	1.82m <sup>2</sup>
750mm (30")	927mm	2.76m <sup>2</sup>

## Maximum Operating Conditions

Recommended Maximum Differential Pressure:

Forward Flow: 5.5 bar @ 24°C  
3.8 bar @ 75°C  
2.0 bar @ 125°C  
1.0 bar @ 150°C

Reverse Flow 3.4 bar @ 24°C  
1.0 bar @ 121°C

Recommended change-out differential pressure: 2.5 Bar

## Materials of Construction

100% Fluoropolymer

## Metals Extractables

<20ppb (total) in a 10% HNO<sub>3</sub> extraction of 1.5 litres for 24 hours at ambient temperature

## Cleanliness (Particle Shedding)

Wet-Packed <2 particles/ml >0.2µm after 26.5 litres at 3.8 Lpm

## TOC/Resistivity rinse up (Wet Packed)

TOC recovery within 3-5ppb of feed after 45.5l @3.8lpm

Resistivity recovery within 0.4megohm-cm of feed after 83.5l @3.8lpm

Product validation guide available on request. All SupaPore TT capsules are manufactured under strict control with batch number identification, giving full traceability on all components.

## Ordering Guide

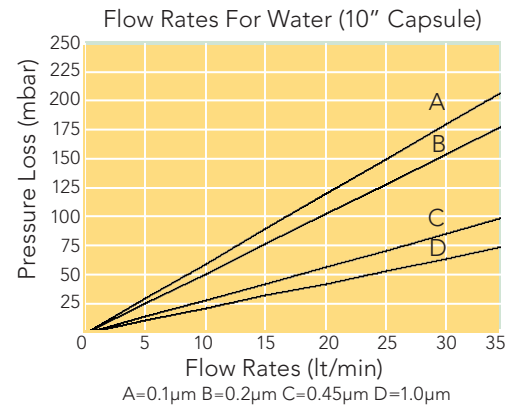
16T	CT	001 -	20	P	N	A
Media	Core/Assembly	Micron Rating	Length	Connections	Options	Branding
T - PTFE	C - Inline Capsule	001 - 0.10µm 002 - 0.20 004 - 0.45 010 - 1.0	04 - 100mm 10 - 250 20 - 500 30 - 750	P - 3/4" NPT'M'	N - None	A - Amazon

Example: 16TCT002-20PNA = PTFE media, inline capsule, 0.2µm, double length 20" long, 3/4" NPT'M' connections, same side vent alignment.

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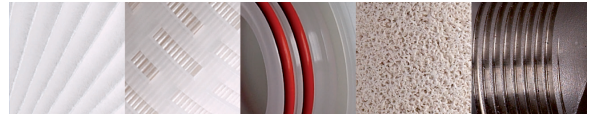


## Integrity Test Specification

Micron Rating	Bubble Point In 60/40 IPA/Water @ 25°C
0.10µm	1.5 bar
0.20µm	0.9 bar
0.45µm	0.5 bar
1.0µm	0.2 bar

# SUPAPORE CAPSULES

## Pleated Depth Media Capsules



SupaPore pleated depth media capsules are fully disposable filter units for small and medium scale liquid and gas processing applications. They are ready-to-use, avoiding the need to purchase or maintain filter housings and are easy to change-out with minimum downtime. The filtration unit is permanently enclosed inside the capsule shell to minimise post-use cleaning and operator exposure to process fluids.

SupaPore capsules are available with pleated polypropylene or Borosilicate Glass microfibres media and offered with a range of inlet/outlet connections to suit most process systems. The filters are supplied in a wide range of lengths from 50mm to 750mm long.

### SupaPore PC Capsules

- 100% polypropylene construction
- Absolute removal ratings
- Wide chemical compatibility

### SupaPore FC Capsules

- Borosilicate Glass Microfibre media
- 100% polypropylene hardware
- Absolute removal ratings
- Wide chemical compatibility

### Product Features

- Thermally bonded and adhesive free construction
- Capsules are non-pyrogenic and can be autoclaved multiple times
- Materials meet US FDA CFR Title 21 requirements
- Available in a range of grades and pore sizes
- Manufactured in clean room facilities under ISO quality system



## Features and Benefits

- Fully disposable unit avoids the need to purchase a filter housing
- Ready to use for easy filter change-out and minimum downtime
- Enclosed filter unit minimises operator exposure and post-use cleaning
- Wide range of inlet and outlet connections available so suitable for most process systems
- All polymer construction
- Full product validation guide available

## Industries and Applications

- Development and pilot plant applications
- Equipment requiring filtration e.g. laboratory water treatment systems, printing equipment etc
- Hospital critical water applications e.g. endoscope washing machines, dialysis equipment
- Venting and process air filtration
- Manufacturers of small or medium size batches of products where batch to batch cleaning is an issue
- Multi-purpose plants where flexibility is needed

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# SupaPore Capsules Technical Data

## Dimensions

Outside Diameter: 90mm

Filter Module Length	Nominal Capsule Length (Hose Barb connections)	Nominal Media Surface Area	Capsule Volume (litres)
50mm (2")	127mm	0.09m <sup>2</sup>	0.23
125mm (5")	220mm	0.26m <sup>2</sup>	0.57
250mm (10")	339mm	0.54m <sup>2</sup>	1.0
500mm (20")	582mm	1.08m <sup>2</sup>	1.9
750mm (30")	824mm	1.62m <sup>2</sup>	2.8

## Sterilisation and Sanitisation

Autoclave: 125°C for 60 mins (10 cycles)

Hot Water: Up to 90°C

## Maximum Operating Conditions

Maximum Temperature: 43°C @ 2.0 Bar

Maximum Pressure: 5.5 Bar @ 20°C (Liquid)

4.1 Bar @ 20°C (Gas)

Max Differential Pressure: 3.4 Bar @ 20°C Forward Flow

2.7 Bar @ 20°C Reverse Flow

Recommended change-out differential pressure: 2.5 Bar

## Materials of Construction

Filter media: P – Polypropylene or  
F – Borosilicate Glass Microfibre

Media Support: Polypropylene

Capsule Assembly: Polypropylene

Vent and Drain Valves: Polypropylene Luer-Lok

Product validation guide available on request. All SupaPore capsules are manufactured under strict control with batch number identification, giving full traceability on all components.

## Ordering Guide

16PC	G	005 -	09	A	A	A
Media	Core/Grade	Micron Rating	Length	Inlet	Outlet	Branding
PC – Polypropylene FC – Borosilicate Glass Microfibre	G - General	FC 003 - 0.3µm 005 - 0.5 010 - 1.0 050 - 5.0 100 - 10  PC 005 - 0.5µm 006 - 0.6 012 - 1.2 025 - 2.5 050 - 5.0 100 - 10 200 - 20 400 - 40	02 - 127mm 05 - 220 09 - 339 20 - 582 30 - 824	A - 8.5-16mm Hosebarb B - ¼" NPT 'M' C - ¼" NPT 'F' D - ⅜" NPT 'F' E - ½" NPT 'M' F - ½" NPT 'F' G - 1 ½" Sanitary Flange BS4825	A - 8.5-16mm Hosebarb B - ¼" NPT 'M' C - ¼" NPT 'F' D - ⅜" NPT 'F' E - ½" NPT 'M' F - ½" NPT 'F' G - 1 ½" Sanitary Flange BS4825	A - Amazon

Example: 16PCG012-20GAA = Polypropylene media, 1.2µm, 20" long, Sanitary Flange inlet and Hosebarb outlet

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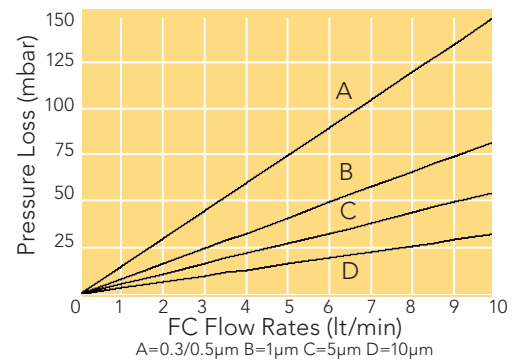
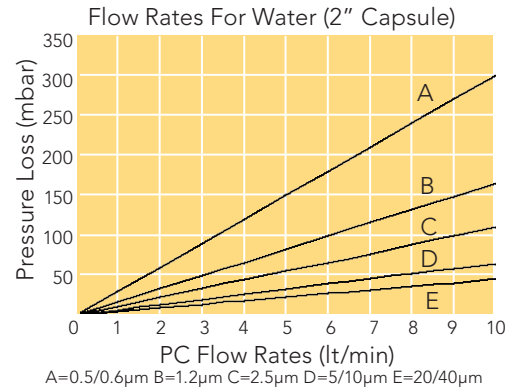
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# SUPAPORE CAPSULES

## Pleated Membrane Filter Capsules



SupaPore microfiltration membrane capsules are fully disposable filter units for small and medium scale liquid and gas processing applications. They are ready-to-use, avoiding the need to purchase or maintain filter housings and are easy to change-out with minimum downtime. The filtration unit is permanently enclosed inside the capsule shell to minimise post-use cleaning and operator exposure to process fluids.

SupaPore capsules are available with pleated PES (polyethersulphone) or PTFE membranes and offered with a range of inlet/outlet connections to suit most process systems.

The filters are supplied in a wide range of lengths from 50mm to 750mm long.

### SupaPore VC Capsules

- Naturally hydrophilic PES membrane
- Low protein binding
- 100% polypropylene hardware
- Available in a range of Absolute removal ratings
- Integrity testable
- Presterilised option available (gamma irradiated at minimum 25 kG)



### SupaPore TC Capsules

- Naturally hydrophobic PTFE membrane
- 100% polypropylene hardware
- Available in a range of Absolute removal ratings
- Integrity testable

### Product Features

- Thermally bonded and adhesive free construction
- Capsules are non-pyrogenic and can be autoclaved multiple times
- Materials meet US FDA CFR Title 21 requirements
- Available in a range of grades and pore sizes
- Manufactured in clean room facilities under ISO quality system

## Features and Benefits

- Fully disposable unit avoids the need to purchase a filter housing
- Presterilised option provides maximum convenience
- Ready to use for easy filter change-out and minimum downtime
- Enclosed filter unit minimises operator exposure and post-use cleaning
- Wide range of inlet and outlet connections available so suitable for most process systems
- All polymer construction
- Full product validation guide available

## Industries and Applications

- Development and pilot plant applications
- Equipment requiring filtration e.g. laboratory water treatment systems, printing equipment etc
- Hospital critical water applications e.g. endoscope washing machines, dialysis equipment
- Venting and process air filtration
- Manufacturers of small or medium size batches of products where batch to batch cleaning is an issue
- Multi-purpose plants where flexibility is needed

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# SupaPore Capsules Technical Data

## Dimensions

Outside Diameter: 90mm

Filter Module Length	Nominal Capsule Length (Hose Barb connections)	Typical Surface Area	Capsule Volume (Litre)
50mm (2")	127mm	0.09m <sup>2</sup>	0.23
125mm (5")	220mm	0.28m <sup>2</sup>	0.57
250mm (10")	339mm	0.65 - 0.70m <sup>2</sup>	1.0
500mm (20")	582mm	1.3 - 1.40m <sup>2</sup>	1.9
750mm (30")	824mm	1.95 - 2.10m <sup>2</sup>	2.8

## Sterilisation and Sanitisation \*Applies to non gamma sterilised option only

Autoclave: 125°C for 60 mins (10 cycles)

Hot Water: Up to 90°C

## Maximum Operating Conditions

Maximum Temperature: 43°C @ 2.0 Bar

Maximum Pressure: 5.5 Bar @ 20°C (Liquid)

4.1 Bar @ 20°C (Gas)

Max Differential Pressure: 3.4 Bar @ 20°C (Forward Flow)

2.7 Bar @ 20°C (Reverse Flow)

Recommended change-out differential pressure: 2.5 Bar

## Materials of Construction

Filter media: V - Polyethersulphone (PES) or  
T - Polytetrafluoroethylene (PTFE)

Media Support: Polypropylene

Capsule Assembly: Polypropylene

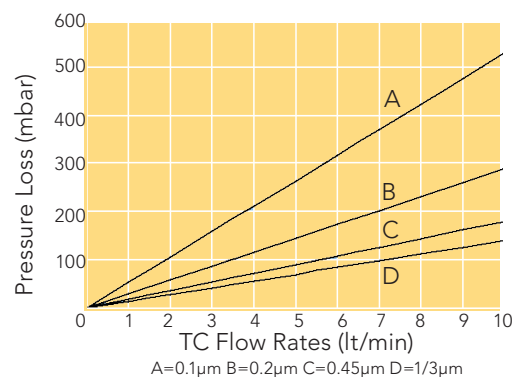
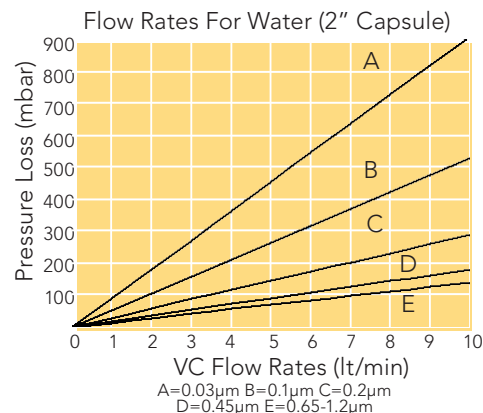
Vent and Drain Valves: Polypropylene Luer-Lok

## Microorganism Removal Efficiency (per 10" cartridge)

16VCB002: LRV>11 (*Brevundimonas diminuta* (ATCC 19146))

16VCB004: LRV>8 (*Serratia marcescens* (ATCC 14756))

Validation guide and Integrity test data available on request. All SupaPore capsules are manufactured under strict control with batch number identification, giving full traceability on all components.



# Ordering Guide

16VC	G	001 -	09	A	A	A
Media	Grade	Micron Rating	Length	Inlet	Outlet	Branding
VC - Polyethersulphone TC - PTFE VG - Gamma sterilised PES	G - General B - Biological	PES 00A - 0.03µm 001 - 0.1* 002 - 0.2 004 - 0.45 006 - 0.65 008 - 0.8 010 - 1.0  PTFE 001 - 0.1µm 002 - 0.2 004 - 0.45 010 - 1.0 030 - 3.0	02 - 127mm 05 - 220 09 - 339 20 - 582 30 - 824	A - 8.5-16mm Hosebarb B - ¼" NPT 'M' C - ¼" NPT 'F' D - 3/8" NPT 'F' E - ½" NPT 'M' F - ½" NPT 'F' G - 1 ½" Sanitary Flange BS4825	A - 8.5-16mm Hosebarb B - ¼" NPT 'M' C - ¼" NPT 'F' D - 3/8" NPT 'F' E - ½" NPT 'M' F - ½" NPT 'F' G - 1 ½" Sanitary Flange BS4825	A - Amazon

Example: 16VCB002-20GAA = PES media, 0.2µm, 20" long, Sanitary Flange inlet and Hosebarb outlet.

\*G Grade only

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# SUPAPLEAT PLUS

## Absolute Rated Pleated Depth Filter



SupaPleat Plus high surface area pleated depth cartridges have been developed to suit industrial processes where high levels of efficiency and extremely low pressure losses are required.

In-house developments have optimised the filter media to give higher levels of porosity, and state of the art manufacturing technologies give excellent build quality.

SupaPleat Plus filters have enhanced durability due to the use of a robust outer cage. For more critical applications where greater process control is required there is also the option to have lot and part number identification on every cartridge.

Two media options are offered as standard, the PB and GB. The PB features the specific CRY Cryptosporidium grade designed for Food and Beverage applications. All feature 100% polypropylene cage, core and end cap assembly.

Thermal welding processes seal all components, eliminating adhesives and extractables, and optimising cartridge integrity.



SupaPleat Plus PB cartridges feature:

- Melt blown polypropylene media
- Extended life version available
- Materials meet US FDA title 21 and USP Class VI requirements
- Meets the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004
- CRY Cryptosporidium grade

SupaPleat Plus GB cartridges feature:

- Glass microfibre media
- Extremely high dirt holding capacity

**Absolute Rated Filter Media**

- Available from 0.5 to 400µm
- Consistent reliable performance
- Beta 5000 rating

**Product Features**

- One piece high strength all polypropylene support cage and core up to 1017mm (40")
- Optional high strength core for improved thermal stability at continuously elevated temperatures.
- Suitable for most sanitisation regimes including steaming, autoclaving, hot water and most common sanitising agents.

(Note: Steaming, autoclaving and hot water sanitisation must use the glass filled end-cap option)

- Batch traceability

## Features and Benefits

- High surface area, resulting in low clean  $\Delta p$  and excellent dirt holding capacity
- Absolute removal ratings for consistent and reliable performance
- PB - Wide chemical compatibility using 100% polypropylene to meet FDA requirements
- XB - Extended life version for more challenging applications
- GB - Glass microfibre media gives excellent dirt holding capacity
- Cryptosporidium grade (CRY) with typical  $10^4$  log reduction value for use in Food and Beverage applications

## Industries and Applications

- |                          |  |
|--------------------------|--|
| <b>Food and Beverage</b> | • Bottled water, Beers, Wines, Flavours, Polishing lines, General clarification        |
| <b>Pharmaceutical</b>    | • Solvent discharge, Raw water supplies  |
| <b>Fine Chemicals</b>    | • Polymers, Acids, Bases, Solvents   |
| <b>Cosmetics</b>         | • Alcohol, Essential oils, Mouthwash solutions   |
| <b>Metal Finishing</b>   | • Plating solutions, Wash solutions, Paints, Resins, Varnishes                         |
| <b>Water Treatment</b>   | • Pre reverse osmosis, UV protection, Resin trap, Cryptosporidium removal              |
| <b>Automotive</b>        | • Wash solutions, Cooling fluid, Blanking wash oils, Electrophoretic paints, Top coats |



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# SupaPleat Plus Technical Data

## Dimensions

Outside Diameter:	66mm
Core Diameter:	27mm
Typical Surface Area:	03PB: 0.4 - 0.6m <sup>2</sup>
	03GB: 0.36 - 0.39m <sup>2</sup>
	03XB: 0.30m <sup>2</sup>

## Sterilisation and Sanitisation\*1

Steam:	121°C for 60 mins (240 cycles)
Hot Water:	90°C for 30 mins (0.2 bar Δp max)

\*1 Applies to single open end cartridges only. For all steaming and hot water applications, the Glass Filled PP end cap option must be used.

## Maximum Operating Conditions

Temperature: 80°C

Recommended change-out differential pressure: 2.5 Bar

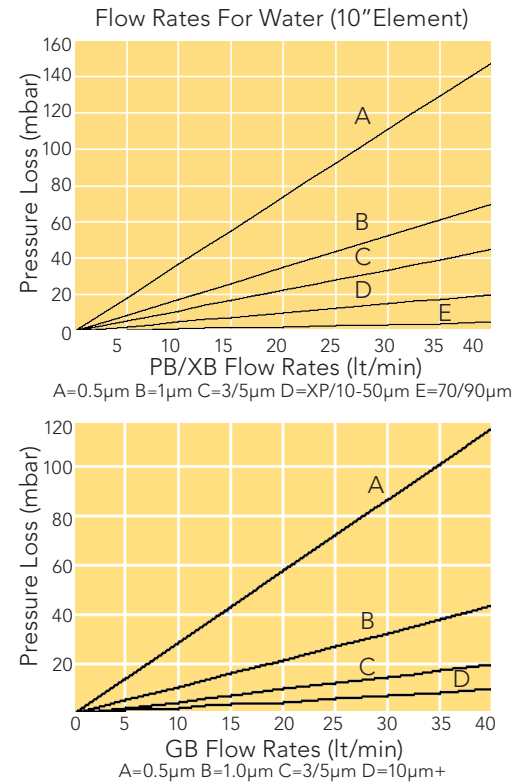
Maximum ΔP	PP Media PP Core	PP Media GFPP Core
@ 20°C	4.0	4.0
@ 50°C	1.5	4.0
@ 80°C	0.25	2.4

Product validation guide available on request. All SupaPleat Plus cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

## Ordering Guide

Media	Core/Assembly	Micron Rating	Length	End Caps	Seal	Branding	Options
03G - Glass Microfibre	B - PP Core, PP Single Piece Hard Cage	<b>Glass microfibre/ Polypropylene</b>	09 - 250mm	0 - DOE	B - Buna	A - Amazon	G - Glass filled PP end cap
03P - Polypropylene	C - GFPP Core, PP Single Piece Hard Cage	CRY - Crypto*2	10 - 255	A - Code A	E - EPDM		
03X - Extended Life Polypropylene*4	E - Stainless Steel Core, PP Single Piece Hard Cage moulded ends	000 - 0.5µm	20 - 505	B - Code B*3	F - FEP/Silicone (SOE only)		
		001 - 1.0	30 - 763	S - Code S	S - Silicone		
		003 - 3.0	40 - 1017	2 - Code 2	T - PTFE		
		005 - 5.0		3 - Code 3	V - Viton		
		010 - 10		7 - Code 7			
		020 - 20		8 - Code 8			
		035 - 35		9 - Code 9			
		050 - 50*2					
		070 - 70*2					
		090 - 90*2					
		<b>Nylon</b>					
		100 - 100					
		200 - 200					
		400 - 400					

Example: 03PB005-203EA = Polypropylene media and core with Polypropylene single piece hard cage. 5µm rating, double length (20") long, code 3 connections with EPDM seal.  
\*2 - Polypropylene media only \*3 - Code B to fit Amazon 50 Series housings only \*4 - Available for all Polypropylene micron ratings except the CRY.



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# SUPAPLEAT B-BLUE

## Large Diameter High Flow Process Filters



SupaPleat B-Blue filters are large diameter, high surface area pleated cartridges offering maximum efficiency and exceptionally high flow capabilities. They have been developed to suit larger scale processes where high performance is required. The filters incorporate advanced pleated depth media providing low pressure loss and high dirt capacity. SupaPleat B-Blue filters are Absolute rated to ensure reliable and consistent performance over a variety of process conditions. This makes these cartridges the ideal choice for a wide range of applications.

SupaPleat B-Blue cartridges are manufactured from polypropylene pleated depth media, end caps and internal support core. Thermal welding processes seal all components, eliminating adhesives and extractables and optimising cartridge integrity. In-house developments have optimised the pleat pack ensuring rigidity is maintained at all flow rates.



SupaPleat B-Blue cartridges feature:

- High surface area polypropylene media
- Extended life version available
- Wide chemical compatibility
- Special CRY Cryptosporidium grade designed for Food and Beverage applications

- All cartridges are thermally bonded and adhesive free
- Meets requirements on materials used for articles intended to come into contact with food as described in CFR Title 21, as well as the appropriate European guidelines
- Manufactured under strict control with batch number identification, giving full traceability on all components

### Absolute Rated Filter Media

- Available in Absolute ratings from 0.5 to 50µm
- Consistent and reliable performance under a wide range of process conditions
- Beta 5000 rating

### Filter Housings

Amazon Filters supplies both stainless steel and plastic housings for SupaPleat B-Blue filters. Please consult our Sales Office for further details on these ranges.

## Features and Benefits

- High flow rates and long life help to minimise filtration costs
- High capacity filters means less filters to change-out
- Absolute removal ratings for consistent and reliable performance
- Available in numerous removal rating (0.5 - 50µm) so suitable for a wide range of applications
- PP - Wide chemical compatibility
- XP - Extended life version available for more challenging applications
- Cryptosporidium removal grade (CRY) with typical  $10^4$  log reduction value
- Full product validation guide available
- Manufactured under strict control with batch number identification, giving full traceability on all components

## Industries and Applications

**Food and Beverage**  
**Pharmaceutical**  
**Fine Chemicals**  
**Water Treatment**  
**Automotive**  
**Oil & Gas**  
**Power Generation**

- Bottled water, Beers, Wines, Polishing lines, General clarification
- Solvent discharge, Raw water supplies, batch transfers
- Polymers, Acids, Bases, Solvents
- Pre reverse osmosis, UV protection, Resin and carbon trap
- Wash solutions, Cooling fluid, Blanking wash oils, Electrophoretic paints
- Water injection systems, Amine streams, Glycols
- Water treatment (boiler feed sweetening), return condensate lines



# SupaPleat B-Blue Technical Data

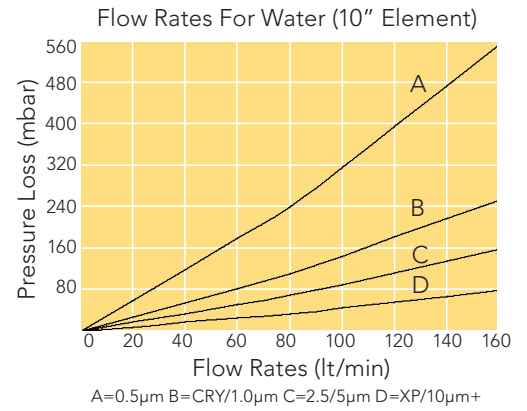
## Dimensions

Outside Diameter:	117mm	
Typical Surface Area:	0.5µm:	1.8m <sup>2</sup>
(Per 10")	CRY/1/5/10µm:	1.6m <sup>2</sup>
	20µm:	1.2m <sup>2</sup>
	50µm:	1.6m <sup>2</sup>
	XP:	0.9m <sup>2</sup>

## Maximum Operating Conditions

Temperature:	80°C
Recommended Maximum Differential Pressure:	
Forward Flow:	4.0 Bar @ 20°C
Recommended change-out differential pressure:	2.5 Bar

Maximum ΔP	PP Media PP Core	PP Media GFPP Core
@ 20°C	4.0	4.0
@ 50°C	1.5	4.0
@ 80°C	0.25	2.4



Product validation guide available on request. All SupaPleat B-Blue cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

## Ordering Guide

03P	P	005 -	20	X	E	ABB	
Media	Core/Assembly	Micron Rating	Length	End Caps	Seal	Branding	Options
03P - Polypropylene 03X - Extended Life PolyPropylene *4	P - Polypropylene	CRY - Crypto 000 - 0.5µm 001 - 1.0 005 - 5.0 010 - 10 020 - 20 050 - 50	09 - 249mm 20 - 508	0 - DOE 3 - Code 3*1 X - Internal 'O' Ring*2	B - Buna E - EPDM F - FEP/Silicone S - Silicone T - PTFE*3 V - Viton	A - Amazon	G - Glass filled end cap

Example: 03PP005-20XEABB= Polypropylene media and core, 5µm rating, double length 508mm (20") long, Code X connection with EPDM seal.  
 \*1 To fit 51 Series B-Blue Housing only \*2 To fit 28 Series only \*3 DOE Cartridge Only \*4 Available for all Polypropylene micron ratings except the CRY.  
 For the full range of grades and media available please refer to the Sales Office

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# SUPAPLEAT HFC

## High Surface Area Pleated Cartridge

SupaPleat HFC high surface area cartridges utilise pleated depth media offering maximum efficiency and exceptionally high flow capabilities. Developed to suit industrial processes where high performance is required, the low pressure loss and high dirt capacity makes it the ideal choice for fine polishing applications. In-house developments have optimised the pleat pack ensuring rigidity is maintained at all flow rates.

Two media options are offered as standard, the **PP** and **GP**. The **PP** features the specific CRY cryptosporidium grade designed for Food and Beverage applications. The standard range is manufactured using all polypropylene end caps and internal support core. Amazon Filters also offers cartridges manufactured with stainless steel cage and core and nylon end fittings. These are particularly suited for applications where higher temperature ratings are required or compatibility may be an issue. Thermal welding processes seal all components, eliminating adhesives and extractables and optimising cartridge integrity.

SupaPleat HFC-PP cartridges feature:

- Melt blown polypropylene media
- Extended life versions available

- Wide chemical compatibility
- Materials meet US FDA title 21 requirements
- Meets the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004

SupaPleat HFC-GP cartridges feature:

- Glass microfibre media
- Extremely high dirt holding capacity

**Absolute Rated Filter Media**

- Available from 0.5 to 90µm
- Consistent reliable performance
- Beta 5000 Rating

**Product Features**

SupaPleat HFC filter cartridges are produced using an improved manufacturing process resulting in the following features:

- High surface area, resulting in low clean  $\Delta p$  and excellent dirt holding capacity
- 100% thermally welded construction for maximum integrity and strength, up to 1541mm (60")
- Internal support core for resistance to back pressure
- More robust stainless steel cage and core option available
- Nylon end caps option available



Amazon Filters manufacture a comprehensive range of filter housings for the **SupaPleat HFC** cartridges. Available in many materials and sizes to suit all flow rates, please consult our sales office for further details on our full range.

## Features and Benefits

- Absolute removal ratings for consistent and reliable performance
- Filters can be sterilised by steam or sanitised by hot water or chemicals
- **PP** – Wide chemical compatibility using materials that meet FDA requirements
- **XP** - Extended life version for more challenging applications
- **GP** – Glass microfibre media gives excellent dirt holding capacity
- Stainless steel cage and core and nylon end caps versions available for more aggressive processes
- Low maintenance – fewer number of cartridges
- Cryptosporidium grade (CRY) with typical  $10^4$  log reduction value for use in Food and Beverage applications

See product guides for further details of test methods and rated efficiencies

## Industries and Applications

**Food and Beverage**

**Pharmaceutical**

**Fine Chemicals**

**Water Treatment**

**Automotive**

**Oil & Gas**

**Power Generation**

- Bottled water, Beers, Wines, Polishing lines, General clarification
- Solvent discharge, Raw water supplies, batch transfers
- Polymers, Acids, Bases, Solvents
- Pre reverse osmosis, UV protection, Resin trap
- Wash solutions, Cooling fluid, Blanking wash oils, Electrophoretic paints
- Water injection systems, Amine streams, Glycols
- Water treatment (boiler feed sweetening), return condensate lines

The Amazon Filters logo, featuring the word "AMAZON" in a bold, red, sans-serif font, with a horizontal line through the middle of the letters. The logo is enclosed in a thin black circular border.

# SupaPleat HFC Technical Data

## Dimensions

Outside Diameter:	160mm
Core Diameter:	75mm
Typical Surface Area:	15PP: 8 - 10.3m <sup>2</sup> (per 40")
	15GP: 6.2 - 6.7m <sup>2</sup>
	15XP: 4.9m <sup>2</sup>

## Sterilisation and Sanitisation

Steam or Autoclave:	121°C (10 cycles)
Hot Water:	90°C for 30 mins

## Maximum Operating Conditions

Temperature:	15PP: 80°C
	15PS / PN: 100°C

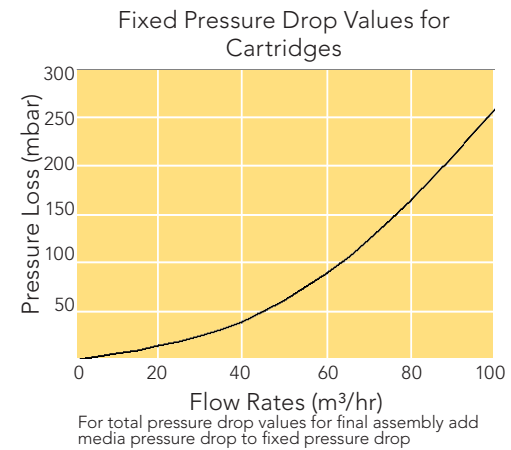
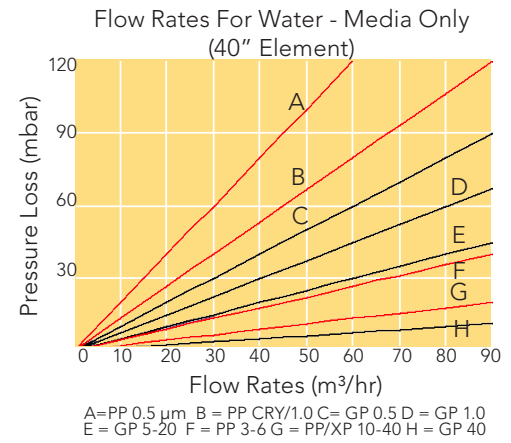
Normal operating mode is inside to outside flow direction

Recommended change-out differential pressure: 2.5 Bar<sup>\*1</sup>

Maximum ΔP	PP Media	GP Media
@ 20°C	3.4	3.4

<sup>\*1</sup> Amazon Filters recommend that SupaPleat HFC cartridges are changed at a differential pressure of 2.5 bar in normal service the operating conditions above should be treated as maximum differential pressures for short term use without causing cartridge collapse problems.

Product validation guide available on request. All SupaPleat HFC cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.



## Ordering Guide

15P	P	005 -	20	C	S	A	
Media	Core/Assembly	Micron Rating	Length	Connections	Seal	Branding	Options
15G - Glass Microfibre 15P - Polypropylene 15X - Extended Life Polypropylene <sup>*4</sup>	P - Polypropylene S - Polypropylene End Caps, 304 St.St Core and Cage N - Nylon End Caps, 304 St. St Core and Cage	CRY - Crypto-to <sup>*2</sup> 000 - 0.5μm 001 - 1.0 002 - 2.0 <sup>*3</sup> 003 - 3.0 <sup>*2</sup> 004 - 4.5 <sup>*2</sup> 005 - 5.0 006 - 6.0 010 - 10 020 - 20 040 - 40 050 - 50 <sup>*2</sup> 070 - 70 <sup>*2</sup> 090 - 90 <sup>*2</sup>	20 - 527 40 - 1038 60 - 1541	C - Flange	B - Buna E - EPDM F - FEP/Silicone S - Silicone V - Viton	A - Amazon	

Example: 15PP005-20CSA = Polypropylene media and core, 5μm rating, single length 527mm (20") long, C flange connection with Silicone seal.  
<sup>\*2</sup> Polypropylene media only <sup>\*3</sup> Glass microfibre media only <sup>\*4</sup> Available for all Polypropylene micron ratings except the CRY.

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# SUPACARB

## Dual Function Depth Cartridge



SupaCarb filter cartridges feature a choice of rolled felt carbon impregnated media or a superior sintered carbon block. Both are combined with Amazon Filters unique spun bonded particulate removal layers resulting in a genuine dual purpose element.

The SupaCarb RP/XP series offer economy with efficiency for chlorine, odour, colour and trace organic reduction levels, whilst the SupaCarb BP series use a unique sintered carbon technology that combines the best features of both powdered (PAC) and granular (GAC) activated carbon in one cartridge. Both element styles use the SupaGard spun bonded media for the pre-filtration layer and are available with moulded polymer ends for superior sealing and enhanced product performance.

SupaCarb offers an extremely economical solution to many common liquid treatment applications.

### Product Features - RP/XP

- Multiple layered carbon impregnated polyester felt
- One piece construction up to 1015mm (40")
- Polymer materials meet US FDA Title 21 requirements



The construction of SupaCarb RP/XP uses a polyester substrate, unlike many other rolled elements that use a cellulose based support. This minimises the risk of microbiological contamination and because of its better compatibility it can be used in a wider range of chemical applications.

### Product Features - BP

- Unique sintered block using both granular and powdered carbon
- Modular construction up to 1017mm (40")
- Polymer materials meet US FDA Title 21 requirements

The modular SupaCarb BP uses a unique sintering process that combines high purity powdered and granular carbon, this results in the very highest available surface area for a 10" cartridge. Superior adsorption and on-stream life makes the BP the very best choice of carbon cartridges.

Equipped with 5µm nominal rated spun bonded polypropylene pre-filtration layers and a full range of welded end caps, SupaCarb is the ideal choice of activated carbon cartridges. Compared with conventional Granular Activated Carbon cartridges, the SupaCarb will not fluidise, channel or bypass, therefore maximising the effectiveness of the carbon media.

## Features and Benefits

- Large carbon surface area exhibits excellent chlorine reduction characteristics
- Low volume pre-use flush required compared to lenticular cartridges
- Graded density pre-filtration layer for effective sediment removal and protection of the carbon media
- All polymeric construction offers excellent chemical compatibility and stability in aqueous solutions
- Minimal carbon release when compared to conventional loose filled granular (GAC) style cartridges
- Identification embossed on every cartridge
- Construction eliminates fluidising, channelling or bypass
- Can be sanitised and steam sterilised

See product guides for further details of test methods and rated efficiencies

## Industries and Applications

- |                          |   |
|--------------------------|---|
| <b>Metal Finishing</b>   | • Organic reduction in plating baths  |
| <b>Fine Chemicals</b>    | • Colour reduction in solvents  |
| <b>Food and Beverage</b> | • Colour reduction in alcohol, Bottled waters, General clarification, Ozone reduction |
| <b>Water Treatment</b>   | • Small scale chlorine, odour, colour and trace organic reduction                     |
| <b>Pharmaceutical</b>    | • Colour reduction in solvents  |

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# SupaCarb Technical Data

## Dimensions

Outside Diameter: 66.5mm  
Core Diameter: 27mm

## Sterilisation and Sanitisation\*

Steam: 121°C for 15 mins (20 cycles)  
Hot Water: 90°C for 30 mins (0.2 bar Δp max)

\*Applies to single open end cartridges only. For all steaming and hot water applications, the Glass Filled end cap option must be used

## Maximum Operating Conditions

Temperature: 80°C  
Recommended change-out differential pressure: 2.5 Bar

Product validation guide available on request. All SupaCarb cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

## Chlorine Reduction Capacity Data

Cartridge Type	Flow Rate (Litres/min)	Chlorine reduction Capacity (litres)
06RP	3.7	>2000
06XP	3.7	>10000
06BP	3.7	>75000

The above test is based on challenging a 10" filter with water containing 3.0 ppm of free chlorine. The chlorine reduction capacity is the volume, in litres, of water from which the filter will successfully remove >96% of free chlorine present upstream of the filter when operating at given flow rate.

## Flow Rate

Cartridge Types	Max flow rate for odour, taste and chlorine reduction (litres/min)	Recommended max flow rate for >96% chlorine reduction capacity (litres/min)
06RP	8 @ 20mBarΔp	3.7 @ 10mBarΔp
06XP	15 @ 40mBarΔp	3.7 @ 10mBarΔp
06BP	15 @ 280mBarΔp	3.7 @ 70mBarΔp

Note: For safety reasons, the Amazon SupaCarb range of cartridge elements should only be used on microbiologically safe water supplies. Activated carbon cartridges are not designed to remove or kill bacteria or viruses. All the data shown should be treated with caution, actual results will vary with the different combinations of organic content present, pH variations and temperature, and should not be considered a warranty of any kind.

# Ordering Guide

06RP	005 -	20	3	E	A	
Carbon/Media	Micron Rating	Length	Connections	Seal	Branding	Options
06BP - Sintered Block 06RP - Rolled Felt 06XP - High Volume Rolled Felt 06RD - Rolled Felt, Glass Filled PP core 06XD - High Volume Rolled Felt, Glass Filled PP core	005 - 5.0µm	<b>RP/XP</b> 09 - 252mm 20 - 507 26 - 663 30 - 760 40 - 1015 <b>BP</b> 09 - 249mm 20 - 509 30 - 763 40 - 1017	N - None (RP/XP Only) 0 - DOE (BP) A - Code A B - Code B* <sup>2</sup> S - Code S 2 - Code 2 3 - Code 3 7 - Code 7 8 - Code 8	P - PE Gasket (RP/XP, DOE Only) B - Buna E - EPDM F - FEP/Silicone (SOE Only) S - Silicone V - Viton	A - Amazon	G - Glass filled end cap

Example: 06RP005-203EA = Rolled Felt media, 5.0µm rating, double length 20" long, code 3 connections with EPDM seal.

<sup>2</sup> Code B - to fit Amazon 50 Series housings only.

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# SUPACARB CP

## High Performance Carbon Block



SupaCarb CP offers the very best in activated carbon technology. The cartridge is manufactured using a unique sintered carbon that is specifically designed for maximum decolourisation and organic contaminant reduction. It offers far superior adsorption levels when compared to other carbon block cartridges.

SupaCarb CP is an extremely economical and effective solution to many common liquid treatment applications where the reduction of colour, organics and other impurities is required. The carbon block is made using a high purity micro-porous, acid washed, steam activated carbon and is particularly suited to pharmaceutical applications.

### Product Features

- Unique sintered block using both granular and powdered carbon
- Spun bonded polypropylene prefiltration layer
- Modular construction from 5mm segments to 1018mm (40") long cartridges, suitable for laboratory, pilot plant and production scale operations.



SupaCarb CP cartridges are manufactured using the latest thermal welding technology, eliminating bypass commonly associated with adhesive bonded carbon modules. This results in a robust and durable filter assembly. They are suitable for a wide range of process conditions, including use in the harsh operating conditions encountered in pharmaceutical API plants.

The SupaCarb CP carbon block uses a unique sintering process that combines both granular and powdered activated carbon. This results in the highest available surface area for adsorption of contaminants. The carbon block is protected by a spun-bonded, pure polypropylene fibre prefiltration layer, to produce a unique high performance module, offering superior on-stream life.

## Features and Benefits

- Combination of both granular and powdered activated carbon offers superior contaminant adsorption levels
- Low volume pre-use flush required compared to lenticular cartridges
- High active carbon content per module results in the use of smaller installations, less space required and lower costs
- Convenient low-weight cartridge format is easy to handle and modules can be changed-out without using lifting gear, special tools or other apparatus
- High purity micro-porous steam activated powdered carbon is particularly suited to removal of coloured impurities from pharmaceutical product and solvent streams
- Graded density prefiltration layer protects carbon block offering extended life
- Thermally bonded construction eliminates fluidising, channelling and bypass
- All polymeric support structure offers excellent chemical compatibility
- Each cartridge is embossed with an identification number and fully traceable

## Industries and Applications

**Pharmaceutical and Fine Chemicals**  
**Food and Beverage**  
**Water Treatment**  
**Chemical Manufacturing**

- Removal of coloured impurities from product and solvent streams
- Colour and odour reduction in beverages
- Removal of chlorine, ozone, odour, colour and trace organic compounds
- Removal of catalysts and wastewater treatment



# SupaCarb CP Technical Data

## Dimensions

Outside Diameter: 66.5mm  
 Inside Diameter: 27mm

## Sterilisation and Sanitisation<sup>1</sup>

Steam: 121°C for 15 mins (20 cycles)  
 Hot Water: 90°C for 30 mins (0.2 bar Δp max)  
<sup>1</sup>Applies to single open end cartridges only. For all steaming and hot water applications, the Glass Filled end cap option must be used.

## Maximum Operating Conditions

Temperature: 80°C  
 Recommended change-out differential pressure: 2.5 Bar  
 Recommended flow rate: 2.0l/minute per 10" filter

Product validation guide available on request. All **SupaCarb CP** cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

## Ordering Guide

06CP	005 -	20	3	E	A	
Carbon/Media	Micron Rating	Length	Connections	Seal	Branding	Options
06CP - Carbon Sintered Block	005 - 5.0µm	09 - 249mm 20 - 510 30 - 764 40 - 1018	0 - DOE A - Code A B - Code B* <sup>2</sup> S - Code S 2 - Code 2 3 - Code 3 7 - Code 7 8 - Code 8	P - PE Gasket B - Buna E - EPDM F - FEP/Silicone (SOE Only) S - Silicone V - Viton	A - Amazon	G - Glass filled end cap

Example: 06CP005-203EA = Carbon sintered block media, 5.0µm rating, double length 20" long, code 3 connections with EPDM seal.  
<sup>\*2</sup>Code B - to fit Amazon 50 Series housings only.

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# SUPAMESH

## Stainless Steel Filter Cartridges



SupaMesh stainless steel filter cartridges are for use in a wide range of applications and industries, suitable for use in both liquids and gases.

All SupaMesh cartridges are manufactured from 316 stainless steel throughout. They are available in both plain cylindrical and pleated configurations, using the very latest in high specification mesh or sintered metal fibre media. Each design provides a simple sleeve of filter medium supported by a central core. The pleated design provides over twice the effective filtration area of the cylindrical cartridge. The plain cylindrical sintered metal powder cartridges are self supporting.

In all designs, the construction method used is fully welded with no adhesives or glues used. This method of construction guarantees cartridge integrity, eliminating the risk of bypass and the presence of extractables derived from any bonding agents.



### Unique Construction

Modular assembly up to 745mm (30") long, 316 Stainless steel, welded for ultra clean assembly

- **SS Grade** - Nominal rated precision woven mesh, available 5 – 840µm
- **SF Grade** - Absolute rated Sintered metal fibre, available 3 – 60µm
- Optional backwash cage for enhanced mechanical strength
- **SP Grade** - Sintered powder media, available 6-60µm

### Product Features

SupaMesh cartridges are available with many standard industrial end cap configurations and seal materials. They are available with optional outer guards for reverse flow or backwashing to enhance their superior robust design. The method of construction and materials used allow for use from -150°C to +300°C and up to 25 bar differential pressure in normal flow direction.

## Features and Benefits

- All 316 stainless steel construction for wide chemical resistance
- Individually marked with full product code
- Choice of precision woven wire, sintered metal fibre and sintered powder media
- Wide range of ratings from 3µm through to 840µm
- Fully welded construction for all grades
- Full material traceability
- Suitable for use from -150°C to 300°C
- No adhesives or bonding agents use

## Industries and Applications

- |                        |   |
|------------------------|---|
| <b>Pharmaceuticals</b> | • Steam, Solvents, Chemicals                          |
| <b>Fine Chemicals</b>  | • Polymers, Acids, Bases, Solvents                    |
| <b>Cosmetics</b>       | • Alcohol, Creams, Lotions, Waxes, Oil based solution |
| <b>Water Treatment</b> | • Potable water, Resin trap                           |
| <b>Automotive</b>      | • Blanking wash oils, Mastic lines                    |
| <b>Petrochemicals</b>  | • Amine stream, Glycol solutions                      |

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# SupaMesh Technical Data

## Dimensions

Outside Diameter: 66mm  
 Typical Surface Area: Cylindrical: 0.05m<sup>2</sup>  
 (per 10") Pleated: 0.13m<sup>2</sup>

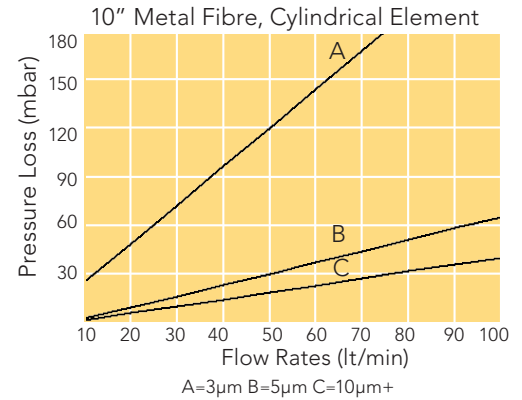
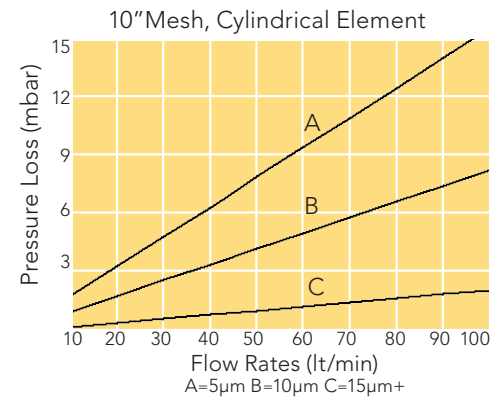
## Maximum Operating Conditions

Temperature: 300°C

## Recommended Maximum Differential Pressure:

Forward Flow: Cylindrical: 15 bar  
 Pleated: 25 bar  
 Reverse Flow: 3 bar with backflush support

The flow rate curves are for 10" plain cylindrical elements. To gain the clean pressure loss for all pleated elements, multiply the cylindrical element clean loss by 0.4.



## Ordering Guide

05SF	C	005 -			09	0	E	A
Media/Core	Core/Assembly	Micron Rating			Length	End Caps	Seal	Branding
05SS - 316 Stainless Steel mesh	C - Cylindrical	<b>SS - Mesh</b>	<b>SF - Fibre</b>	<b>SP - Powder</b>	09 - 250	0 - Code 0	B - Buna	A - Amazon
05SF - 316 Stainless metal fibre	B - Cylindrical + support	005 - 5µm	003 - 3µm	006 - 6µm	19 - 500	2 - Code 2	E - EPDM	
05SP - Sintered powder*1	P - Pleated + support	010 - 10	005 - 5	010 - 10	29 - 750	3 - Code 3	F - FEP/Silicone (SOE Only)	
		020 - 20	010 - 10	015 - 15		7 - Code 7	G - FEP/Viton (SOE Only)	
		040 - 40	015 - 15	030 - 30		8 - Code 8	S - Silicone	
		070 - 70	020 - 20	060 - 60			T - PTFE (DOE Only)	
		100 - 100	030 - 30				V - Viton	
		250 - 250	040 - 40					
		450 - 450	060 - 60					
		840 - 840						

Example: 05SFC005-090EA = Cylindrical Stainless metal fibre, 5.0µm rating, single length 10" long (247mm), code 0 connections with EPDM seal.  
 \*1 Cylindrical Only

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# DUOLINE FELT

## Disposable Needlefelt Filter Bags



DuoLine filter bags have been designed to provide effective filtration for a wide range of applications using a variety of filter media. They are manufactured using the latest technology to ensure structural integrity and provide greater security during demanding process conditions.

DuoLine PP, PE, NY, NX, TT and UT ranges of filter bags adopt the use of needlefelt type media which provides both surface and depth filtration for maximum dirt capacity.

### Product Features

- Polypropylene, PTFE, Polyester, Nylon and Nomex needlefelt media, rated between 1 - 200µm
- Wide chemical compatibility and PTFE version available for aggressive process conditions
- Double integral handles available
- FDA compliant material (PP and PTFE, PE available on request)
- Meets the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004 (PP and PTFE, PE available on request)



DuoLine XP filter bags are designed to give longer service life, therefore reducing operating costs and process downtime.

The XP bags greater depth provides additional void volume resulting in a greater dirt holding capacity. This provides up to 2-5 times longer life over standard needlefelt materials.

### Product Features

- Polypropylene needlefelt media, rated 1 - 200µm
- Double integral handles available
- Extended life
- FDA and EC food contact compliant material

Three bag diameters are available in the DuoLine range, 4¼, 5½ and 7" all fitted as standard with a top ring locator in various materials and styles.

All DuoLine bags are designed to filter from the inside to out leaving the contamination inside the bag for simple disposal. These needlefelt bags can be used for both pre and final filtration duties.

Amazon Filters manufacture a comprehensive range of filter housings for the DuoLine bags. Available in many materials and sizes to suit all flow rates, please consult our sales office for further details of the full range.

## Features and Benefits

- Micron ratings available from 1 to 200µm for wide ranging filtration needs
- Extended life XP version available
- PTFE bags are offered with or without PTFE membrane and are ideal for the filtration of corrosive fluids
- Optional moulded polypropylene flange with handles for superior sealing and ease of handling
- FDA and EC food contact compliant materials available
- Wide selection of filter media and support ring materials
- Identification supplied with every bag
- Silicone free for use in automotive paint applications

## Industries and Applications

- |                        |   |
|------------------------|---|
| <b>Pharmaceutical</b>  | • Bulk transfer, Catalyst removal. Powder trap                                |
| <b>Cosmetics</b>       | • Creams, Lotions, Gels, Filling head trap filter                             |
| <b>Metal Finishing</b> | • Wash solutions, Paints, Resins, Varnishes                                   |
| <b>Water Treatment</b> | • Membrane protection (Reverse osmosis, nano), Resin trap, Potable water      |
| <b>Automotive</b>      | • Cooling fluid, Electrophoretic paints, Degreasing systems, Phosphate filter |
| <b>Chemical</b>        | • Bulk transfer lines, Tanker discharge and loading lines                     |
| <b>Petrochemical</b>   | • Amine and Glycol systems, Bulk kerosene processing, Solvent transfer lines  |

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# DuoLine Technical Data

## Maximum Operating Conditions

Temperature	19PP:	95°C
	19PE:	135°C*1
	19NY:	135°C*1
	19NX:	190°C*1
	19TT/UT:	250°C*1

Recommended Maximum Differential Pressure: 4 Bar

\*1 Bags adopting the use of a polypropylene sealing flange have a maximum operating temperature of 95°C.

Amazon Filters recommend that DuoLine Needlefelt bags are changed at a differential pressure of 2.5 Bar in normal service - the operating condition above should be treated as a maximum differential pressure for short term use.

Please note that operating temperatures greater than ambient will reduce the bags' ability to withstand differential pressure and that the bag should be used with caution at elevated temperatures. Product Validation Guide available on request.

## Dimensional Data

Bag Size	Length (mm)*2	Ring Diameter (mm)	Capacity (Litres)	Surface Area (m <sup>2</sup> )	Flow Rate (m <sup>3</sup> /hr)*3
1M (P3)	216	105	1.8	0.069	3
2M (P4)	368	105	3.0	0.118	6
1A	432	140	6.6	0.190	9
2A	788	140	12.1	0.347	18
3A	1118	140	17.3	0.495	28
1G (P1)	433	178	10.7	0.242	12
2G (P2)	825	178	20.5	0.461	25
3G	1194	178	29.7	0.668	40

\*2 Lengths are nominal \*3 The flow rates quoted are our maximum recommended values for each bag type based on water, or liquid of a similar viscosity at ambient temperature. For advice on the filtration of liquids with greater viscosities please contact our sales office.

## Ordering Guide

19PP	025 -	2	G	T	E	P	
Media	Micron Rating	Length	Ring Type	Option 1	Option 2	Branding	Option 3
19PP - Polypropylene Needlefelt 19PE - Polyester Needlefelt 19NY - Nylon Needlefelt 19NX - Nomex Needlefelt 19XP - Extended Life Polypropylene*3 19TT - PTFE Needlefelt (5µm Only) 19UT - PTFE Needlefelt + PTFE membrane (1µm Only)	001 - 1.0µm 005 - 5.0 010 - 10 025 - 25 050 - 50 100 - 100 200 - 200	1 - Single 2 - Double 3 - Triple (A & G type only)	M - 4.25" A - 5.50" G - 7.00"	<b>PP, PE, NY, NX, &amp; XP</b> L - Zinc Plated Ring + Loops T - St.St Ring + Loops Y - Polypropylene moulded sealing flange (M & G type only) E - PE Ring (G type only)  <b>TT &amp; UT</b> T - St.St Ring + Loops G - FEP/Viton J - Hastelloy	E - Standard (Silicone Free)  Other special options are available on request	P - Plain	B - Individually Bagged

Example: 19PP025-2GTEP = Polypropylene needlefelt media, 25µm rating, Double length, 7" diameter, Stainless steel support ring with loops, Silicone free  
\*3 Available with Y ring option on G size ring only

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# DuoLine HE

## Disposable High Efficiency Filter Bags



DuoLine HE filter bags have been designed to provide effective filtration for a wide range of applications using a variety of graded filter media.

DuoLine HE bags utilise multi-layered polypropylene microfibre media with built in pre-filter layers. The progressive density depth filtration delivers high efficiency of up to 99.9% positive and controlled solids removal.\*1



The multi layered construction of the HE bag uses varying thickness of media to create a depth type filter with up to 12 different grades of material.

Two bag diameters are available in the DuoLine HE range, 4¼" and 7" both fitted as standard with a top ring locator in various materials and styles.

### Product Features

- Polypropylene melt blown media, rated between 0.5 - 25µm
- High efficiency media for critical applications

All DuoLine bags are designed to filter from the inside to out leaving the contamination inside the bag for simple disposal.

Amazon Filters manufacture a comprehensive range of filter housings for the DuoLine bags. Available in many materials and sizes to suit all flow rates, please consult our sales office for further details of the full range.

\*1 Verified by independent laboratory testing using latex beads yielding efficiencies up to 99.9% under controlled laboratory conditions.



## Features and Benefits

- Micron ratings available from 0.5 to 25µm for wide ranging filtration needs
- Optional moulded polypropylene flange with handles for superior sealing and ease of handling
- Wide selection of filter media and support ring materials
- Identification supplied with every bag
- Silicone free for use in automotive paint applications
- FDA compliant material

## Industries and Applications

### Pharmaceutical

### Cosmetics

### Metal Finishing

### Water Treatment

### Automotive

- Bulk transfer, Catalyst removal, Powder trap
- Creams, Lotions, Gels, Filling head trap filter
- Wash solutions, Paints, Resins, Varnishes
- Membrane protection (Reverse osmosis, nano), Resin trap, Potable water
- Cooling fluid, Electrophoretic paints, Degreasing systems, Phosphate filter

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# DuoLine HE Technical Data

## Maximum Operating Conditions

Temperature 19HE: 80°C

Recommended Maximum Differential Pressure: 4 Bar

Filtration Efficiency 0.5µm: 99.0%  
 1µm: 99.0%  
 5µm: 99.3%  
 10µm: 99.8%  
 25µm: 99.9%

Amazon Filters recommend that DuoLine 19 bags are changed at a differential pressure of 2.5 Bar in normal service - the operating condition above should be treated as a maximum differential pressure for short term use. Please note that operating temperatures greater than ambient will reduce the bags' ability to withstand differential pressure and that the bag should be used with caution at elevated temperatures.

## Dimensional Data

Bag Size	Length (mm)	Ring Diameter (mm)	Capacity (Litres)	Surface Area (m <sup>2</sup> )	Flow Rate (m <sup>3</sup> /hr) <sup>2</sup>
1M (P3)	200	108	1.8	0.068	1
2M (P4)	355	108	3.2	0.120	2
1G (P1)	420	178	10.0	0.235	4
2G (P2)	810	178	20.0	0.453	8

<sup>2</sup>The flow rates quoted are our maximum recommended values for 5µm bag type based on water, or liquid of a similar viscosity at ambient temperature. For advice on the filtration of liquids with greater viscosities please contact our sales office.

Product validation guide available on request.

# Ordering Guide

19HE	025 -	2	G	T	E	P	
Media	Micron Rating	Length	Ring Type	Option 1	Option 2	Branding	Option 3
19HE - High Efficiency Polypropylene Meltblown	000 - 0.5µm 001 - 1.0 005 - 5.0 010 - 10 025 - 25	1 - Single 2 - Double	M - 4.25" G - 7.00"	L - Zinc Plated Ring + Loops T - St.St (304) Ring + Loops Y - Polypropylene Moulded sealing flange	E - Standard (Silicone Free)  Other special options are available on request	P - Plain	B - Individually Bagged

All bags are available with an optional nylon Monofilament outer support scrim - please refer to the Sales Office.  
 Example: 19HE025-2GTPE = High Efficiency polypropylene Meltblown media, 25µm rating, Double length, 7" diameter, Stainless steel support ring with loops, Silicone free

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# SUPAPLEAT FFC

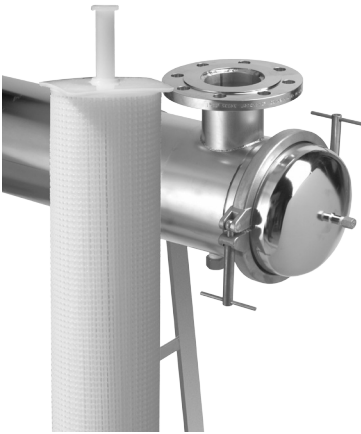
## Large Diameter High Flow Filters



SupaPleat FFC filters are high surface area cartridges offering maximum efficiency and exceptionally high flow capabilities.

Developed to suit large scale processes where high performance is required, the filters incorporate advanced pleated depth media providing low pressure loss and high dirt capacity. This makes SupaPleat FFC cartridges the ideal choice for a wide range of applications.

These large diameter pleated cartridges are manufactured from either polypropylene or borosilicate glass microfibre depth media. The standard range is manufactured using polypropylene end caps and internal



support core. Amazon Filters also offers cartridges manufactured with stainless steel cage and core and nylon end fittings. These are particularly suited for applications where higher temperature ratings are required or compatibility may be an issue. Thermal welding processes seal all components, eliminating adhesives and extractables and optimising cartridge integrity. In-house developments have optimised the pleat pack ensuring rigidity is maintained at all flow rates.

### Product features

- High surface area polypropylene or glass fibre media operating in 'out to in' mode
- More robust stainless steel cage and core option available
- Nylon end caps option available
- Available with different connectors to allow retrofitting of existing high flow systems
- Special CRY Cryptosporidium grade designed for Food and Beverage applications
- All cartridges are thermally bonded and adhesive free
- Meets requirements on materials used for articles intended to come into contact with food as described in CFR Title 21, as well as the

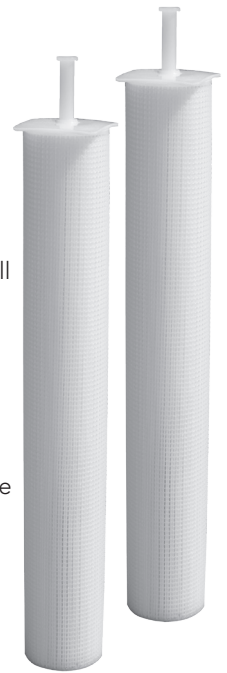
appropriate European guidelines

- Manufactured under strict control with batch number identification, giving full traceability on all components
- Extended life versions available

### Filter Housings

Amazon Filters manufactures a range of stainless steel and plastic housings for SupaPleat FFC cartridges including the 27 Series GRP Glass Reinforced Plastic housings with super duplex end fittings. This housing is particularly suited to brackish or seawater applications.

Please consult our Sales Office for further details on these ranges.



## Features and Benefits

- High flow rates and long life to minimise filtration costs
- Up to 60" length filters allow quick cartridge replacement
- Absolute removal ratings (Beta 5000) for consistent and reliable performance
- XP - Extended life version for more challenging applications
- Available in numerous removal ratings (0.5 - 50µm) so suitable for a wide range of applications
- Cryptosporidium removal grade (CRY) with typical 10<sup>4</sup> log reduction value
- Stainless steel cage and core and nylon end caps versions available for more aggressive processes

## Industries and Applications

- |                          |   |
|--------------------------|---|
| <b>Food and Beverage</b> | • Bottled water, Beers, Wines, Polishing lines, General clarification       |
| <b>Pharmaceutical</b>    | • Solvent discharge, Raw water supplies, batch transfers                    |
| <b>Fine Chemicals</b>    | • Polymers, Acids, Bases, Solvents  |
| <b>Water Treatment</b>   | • Pre reverse osmosis, UV protection, Resin and carbon trap                 |
| <b>Automotive</b>        | • Wash solutions, Cooling fluid, Blanking wash oils, Electrophoretic paints |
| <b>Oil &amp; Gas</b>     | • Water injection systems, Amine streams, Glycols                           |
| <b>Power Generation</b>  | • Water treatment (boiler feed sweetening), return condensate lines         |



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# SupaPleat FFC Technical Data

## Dimensions

Outside Diameter: 153mm  
 Typical Surface Area: 5.2 - 10.7 m<sup>2</sup> per 40" filter

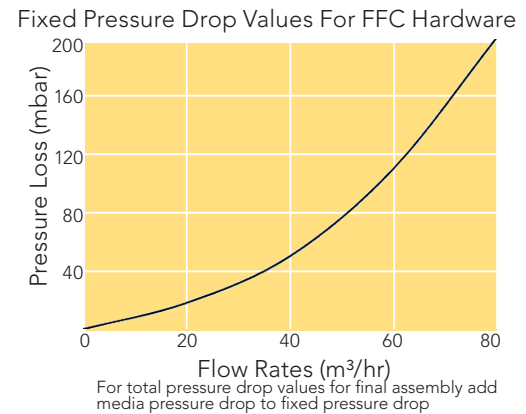
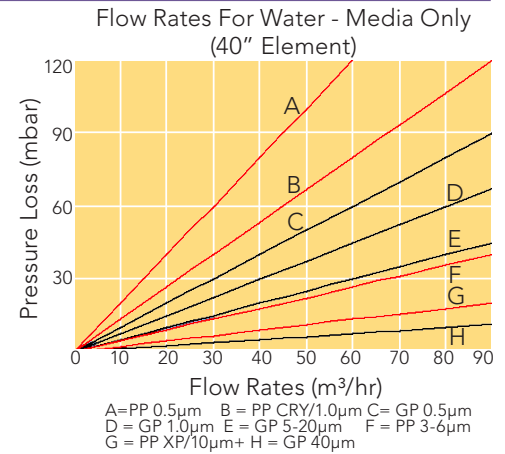
## Maximum Operating Conditions

Temperature: 24PP: 80°C  
 24PS / PN: 100°C  
 24GP / GS: 80°C

Recommended Maximum Differential Pressure:  
 Forward Flow: 4.0 Bar @ 20°C

Recommended change-out differential pressure: 2.5 Bar

Product validation guide available on request. All SupaPleat FFC cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.



## Ordering Guide

24P	P	005 -	20	H	E	A	
Media	Core/Assembly	Micron Rating	Length	End Caps	Seal	Branding	Options
24P - Polypropylene 24G - Glass Microfibre 24X - Extended Life Polypropylene*1	P - Polypropylene S - Polypropylene End Caps, 304 St.St Core and Cage N - Nylon End Caps, 304 St. St Core and Cage	CRY - Crypto*2 000 - 0.5µm 001 - 1.0 002 - 2.0*3 003 - 3.0*2 005 - 5.0 010 - 10 020 - 20 035 - 35*2 040 - 40*3 050 - 50*2	<b>Code H/P</b> 20 - 509mm 40 - 1020 60 - 1522  <b>Code E</b> 39 - 930mm (3M Cuno 740 Series retrofit)  <b>Code F</b> 40 - 1020mm 60 - 1522 (3M Cuno HF retrofit)  <b>Code G</b> 60 - 1512mm (Pentair cartridge retrofit)	H - Code H*4 P - Code P*5 E - Code E F - Code F G - Code G	B - Buna E - EPDM S - Silicone V - Viton	A - Amazon	

Example: 24PP005-20HEA = Polypropylene media and core, 5µm rating, single length 509mm (20") long, Code H connection with EPDM seal.

\*1 Available for all Polypropylene micron ratings except the CRY \*2 Polypropylene only \*3 Glass Microfibre media only

\*4 27 and 6601 Series housings only \*5 Multi-round 66 Series housings only  
 For the full range of grades and media available please refer to the Sales Office

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# DuoMESH

## Stainless Steel Lined Basket Filters



DuoMesh lined basket filters have been designed to be used in standard bag filter housings and to provide cost effective filtration for a wide range of applications.

The baskets are manufactured from 316L stainless steel mesh so can be cleaned and reused time and time again. DuoMesh basket filters are available in a range of removal ratings from 50–2000µm so can be used for fine, medium or coarse clarification or as a prefilter to finer filters downstream. They are available as single, double or triple length baskets and in different diameters.



### Product Features

- Robust construction in 316L stainless steel
- Available in single or triple layer mesh providing removal ratings from 50 to 2000µm
- Can be supplied as single, double or triple length baskets
- Range of collar sizes available
- Offered with a handle to aid removal from housing
- Consistent and reliable performance under a wide range of process conditions

### Filter Housings

Amazon Filters manufacture a comprehensive range of filter housings for the DuoMesh baskets. These can be manufactured from a range of metals and in different sizes so can be supplied to suit all flow rates. Please consult our Sales Office for further details on these ranges.



## Features and Benefits

- Available in a range of removal ratings so suitable for a wide range of filtration applications
- 316L construction offers wide chemical and process compatibility
- Offered with a handle to aid removal from housing

## Industries and Applications

**Food and Beverage**  
**Pharmaceutical**  
**Fine Chemicals**  
**Water Treatment**  
**Coatings**

- General process water
- Particulate removal from creams, lotions and gels, solids recovery
- Polymers, acids, bases, solvents
- Raw water filtration
- Paints, inks, resins and varnishes



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# DuoMesh Technical Data

## Maximum Operating Conditions

Temperature: 200°C

Recommended Maximum Differential Pressure: 5 Bar g

## Materials of Construction

316L Stainless Steel

50 and 100µm versions use triple layer media. (870µm upstream and downstream)

## Dimensional Data

Bag Size	Length (mm)	Ring Diameter (mm)	Compatible Housings
Single MINI (P3)	135	100	81
Double MINI (P4)	295	100	81
Single Amazon	356	124	82/83/87
Double Amazon	716	124	82/83/87
Triple Amazon	1036	124	82/83/87
Single Universal (P1)	369	170	84/85/86/88/89
Double Universal (P2)	729	170	84/85/86/88/89
Triple Universal	1109	170	84/85/86/88/89

# Ordering Guide

80MS	V	1	0050	Special Options
Ring Size	Handle Option	Length	Micron Rating	
80MS - MINI (4 ¼") 80AS - Amazon (5½") 80US - Universal (7")	V - With Handle N - No Handle	1 - Single 2 - Double 3 - Triple	0050 - 50µm 0100 - 100 0150 - 150 0200 - 200 0250 - 250 0315 - 315 0400 - 400 0560 - 560 0870 - 870 1000 - 1000 1250 - 1250 1600 - 1600 2000 - 2000	

For detail on lined baskets outside the micron rating range given above, please consult our sales office. The no handle option should only be selected when the basket is being used in conjunction with either a filter bag or a displacement pod.  
Example: 80MSV10050 = DuoMesh MINI 4 ¼" basket with handle, Single length, 50µm.

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# 43 SERIES

## Housings For Small Scale Processes



Amazon Filters is able to offer a range of mini-housings particularly suited to small scale processes. They are ideal for small production batches or for down-scaled process evaluation.

This housing range is suitable for a range of mini-filters including:-

- Double opened and single open ended cartridges
- 5mm, 10mm, 25mm and 50mm lengths
- Pleated, depth and activated carbon media

### 43 Series Typical Applications

- Pilot plant and R&D laboratory operations
- Small custom batches of product
- High value/low volume production runs
- Down-scaled process evaluation
- Filter train optimisation



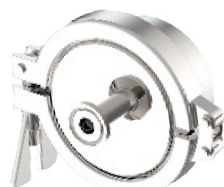
Housing Design	Filter Size and Type	Part Number
Standard design with 1/2" Tri Clamp inlet/outlet	25mm length double open ended (DOE) segment	1. 43SF123000
	50mm length double open ended (DOE) segment	2. 43SF123001
Low hold-up volume design with 1/2" Tri Clamp inlet/outlet (For use with SupaCarb segments only)	5mm length double open ended (DOE) segment	3. 43SF122000
	10mm length double open ended (DOE) segment	4. 43SF122001
	25mm length double open ended (DOE) segment	5. 43SF122002
Standard design with 1/4" BSP male inlet/outlet	25mm length double open ended (DOE) segment	6. 43SF124000
	50mm length double open ended (DOE) segment	7. 43SF124001
Standard design with 1/4" BSP female inlet/outlet	25mm length single open ended code 3 cartridge	8. 43SF048000

Detailed drawings of these housings are available upon request.

## 43 Series Housing Design Options



1/2" Tri-Clamp

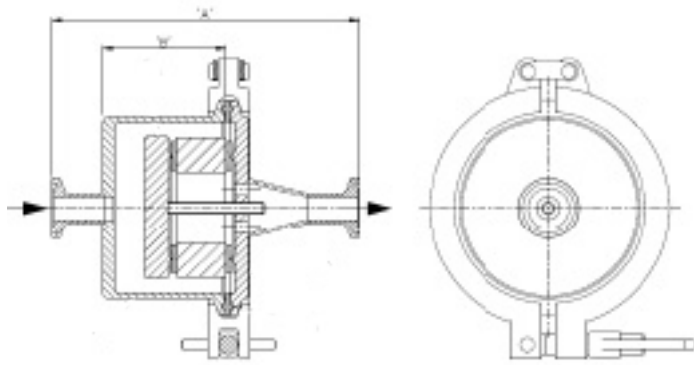


1/4" BSPM



1/4" BSPF





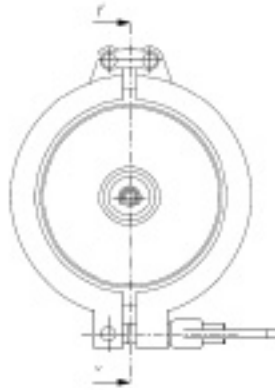
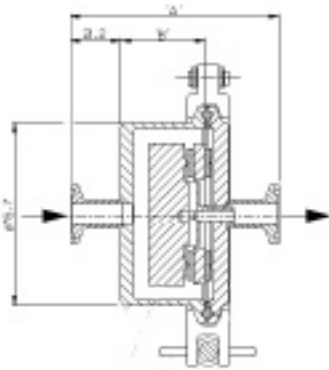
25mm SEGMENT HOLDER  
FILTER HOUSING  
SCALE 1:2

Standard design  
with 1/2" Tri Clamp  
inlet/outlet  
DOE Cartridge

1. 43SF123000
2. 43SF123001

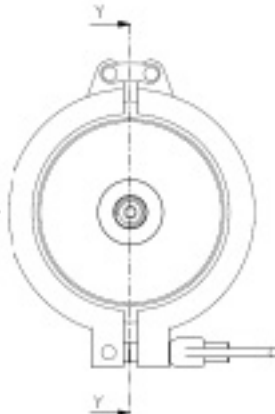
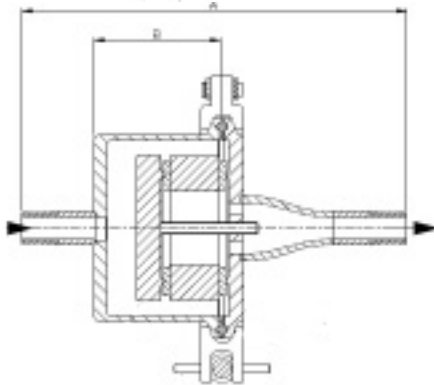


50mm SEGMENT HOLDER  
FILTER HOUSING  
SCALE 1:2



Low hold-up  
volume design with  
1/2" Tri Clamp  
inlet/outlet  
DOE Cartridge  
(For use with SupaCarb  
segments only)

3. 43SF122000
4. 43SF122001
5. 43SF122002



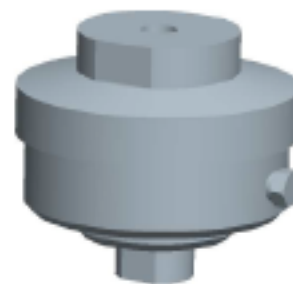
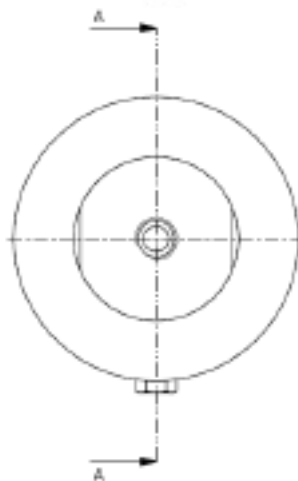
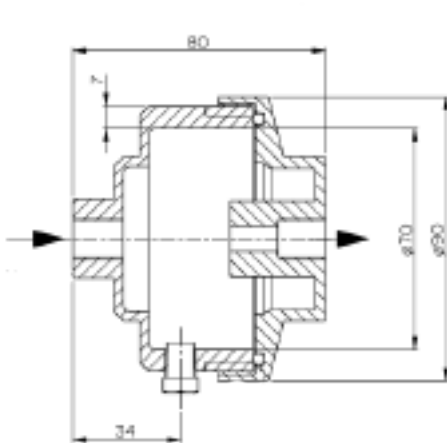
25mm SEGMENT HOLDER  
FILTER HOUSING  
SCALE 1:2

Standard design  
with 1/4" BSP male  
inlet/outlet  
DOE Cartridge

6. 43SF124000
7. 43SF124001



50mm SEGMENT HOLDER  
FILTER HOUSING  
SCALE 1:2



Standard design  
with 1/4" BSP  
female inlet/outlet  
Code 3 Cartridge

8. 43SF048000

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# 50 SERIES OVERVIEW

## Single Stack Cartridge Housing



The high quality **50 Series** cartridge housings offer the widest possible choice in lightweight single cartridge filter assemblies for all types of processes. Featuring state of the art components this range of housings is available in various different designs to ensure the most cost effective option can be offered for a diverse range of applications. They are suitable for both liquid and gas duties and can be operated in safety whilst offering easy to use closures.

The **50 Series** housing range consists of :-

### 51 Series

- Suitable for general purpose liquid and gas applications
- Can be used with both single and double open-ended cartridges
- Quick release Vee Clamp Closure for easy opening
- Large diameter **51 B-Blue** version available

### 52 Series

- Designed for higher pressures of up to 20 bar
- Can be used with both liquids and gases
- Suitable for full vacuum
- High performance Cast Vee Clamp closure

### 53 Series

- Designed for higher pressures of up to 28 bar
- DIN threaded closure allows higher operating pressure and security
- Suitable for gas, steam and pulsating flows
- High pressure 40 bar version available

### 54 Series Clearview

- Contains a borosilicate 'viewing' section to assist in process monitoring

- Borosilicate tube offers maximum fluid compatibility
- Quick Release Vee Clamp closure for easy opening
- Can be used with a range of plug in style cartridges

### 55 Series

- Provides easy access in limited spaces
- Through bolt closure allows easy removal of housing bowl and used cartridge
- Unique design means cartridges can be change out in spaces where not possible previously
- Accepts double open ended cartridges only

### 56 Series

- Utilises a bolted closure design
- Provide a high security closure
- Suitable for hazardous liquid and gas applications
- Full vacuum rating in liquids and gases

The **50 Series** range will accept the full range of Amazon and industry standard cartridges ranging from 0.1 to 500µm with nominal lengths of 5, 10, 20 and 30". Most models will accept both Single Open End (Code 3) and Double Open End cartridges without modification.

The investment cast heads with precision machined sealing faces are manufactured in 316L stainless steel as standard and have the option of Alloy C22 for most models.

Other features include fully welded flanges, dairy fittings and Tri Clamp connections, and a wide choice of sealing materials such as EPDM, Viton, FEP and Silicone.



## Features and Benefits

- Available in a wide range of designs to ensure the most cost effective option can be used in a diverse range of applications
- Universal cup enables choice of plug in (Code 3, Code 8 and Code A) or DOE cartridge styles in the same housing
- Full housing customisation service available
- Every housing is etched with a batch number for full traceability
- Full PED compliance with 2014/68/EU and full ATEX compliance with 2014/34/EU, level CE Ex II 2 GD c X
- Integral vent and drain sockets



# 50 Series Technical Data

## Maximum Operating Conditions

		51 Series			51 B-Blue Series		52 Series			53 Series			54 Series			55 Series			56 Series		
		10"	20"	30"	10"	20"	10"	20"	30"	10"	20"	30"	10"	20"	30"	10"	20"	30"	10"	20"	30"
Maximum Pressure	Liquid	10			10		20			28			10			10			10		
	Gas	10			10		20	12	9	28			6			-			10	10	9
Maximum Temp.		150°C			150°C		150°C			150°C			110°C			110°C			150°C		
Volume (Litres)		2.2	3.7	5.1	4.2	7.3	2.2	3.7	5.1	2.2	3.7	5.1	2.2	3.7	5.2	1.8	3.3	4.8	2.2	3.8	5.2

## Materials of Construction

Body and Head: 316L St. Steel  
Alloy 22

Closure: 316L St. Steel  
304 St. Steel (non wetted parts)

Seal: Ethylene Propylene  
Viton

## Standard Connections

Inlet/Outlet: 1" BSPF

Vent: 1/4" BSPF with Plug

Drain: 1/4" BSPF with Plug

Optional Connections: BS4825-3 Tri Clamp, EN1092-1 Flange, ASME Flange, RJTM, DIN2633 Flange

**PED Status:** Compliant with 2014/68/EU



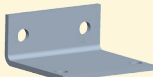
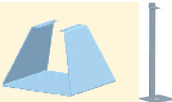
Exceptions: Group 1 liquids - Explosive

**ATEX:** Compliant with 2014/34/EU

		51 Series	52 Series	53 Series	54 Series	55 Series	56 Series
Fluid Groups	Liquids	Groups 1+2	Groups 1+2	Groups 1+2	Groups 1+2	Groups 1+2	Groups 1+2
	Gas	Group 2	Groups 1+2	Groups 1+2	Group 1	-	Groups 1+2
Marking		SEP + CE	CE	CE	SEP	SEP	CE

Technical drawings for each individual housing showing dimensions, volume, weights, maximum temperatures and design pressures available on request.

## 50 Series Accessories

<p>Pressure Gauge and Vent Valve Kit 1/4" BSPM, 63mm 316 St.St gauge, 0-27 bar, Perspex front</p>	
<p>Ball Valve and Nipple 1/4"-1" BSPF, 316 St.St, Reduced bore - PTFE seat</p>	
<p>Mounting Bracket St.St mounting bracket with screws</p>	
<p>Stands Stand + bolts for inverted base mounting or vertical stand for 10 and 20" housings</p>	



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# 54 SERIES

## Single Stack Filter Housing



The **ClearView** single cartridge housing is unique with its special clear bowl section enabling viewing of the condition of the filter element.

Designed specifically for use in the Fine Chemicals and Pharmaceutical industries, the **ClearView** has proved to be highly successful where fluid cleanliness requires visual monitoring online.




Materials of construction are either 316L or Alloy 22 for all metallic parts, whilst the unique clear screen utilises a Borosilicate tube for maximum fluid compatibility. Seal materials offered are EPDM, Viton, Silicone and encapsulated FEP. When used in conjunction with the Amazon ceramic solids retaining screen, it proves to be the optimum choice for users of catalyst reaction vessels and powder filters where any breakthrough can be clearly seen on the retaining screen. Replacing more conventional glass bodied assemblies (which can be notoriously difficult to work with) the **ClearView**, with its easy to use cast Vee clamp closure, has proved highly successful with operators and engineers alike.

The **ClearView** will accept the full range of Amazon and industry standard cartridges ranging from 0.1 to 500µm with nominal lengths of 10, 20 and 30".

### Product Features

- Quick release cast Vee Clamp Closure for easy opening
- Lightweight, high specification investment cast head
- Unique clear bowl assembly for reviewing cartridge or screen condition
- Easy to use tie rod assembly design ensures cartridge centralisation (for a reliable knife edge seal) that enables the use of either 9.75" or 10" cartridge length configurations or multiples) in the same housing
- Dual purpose head accepts SOE code 3 and DOE cartridges
- SOE code 7 and code B adaptors available
- Wide range of connection size and types, cartridge lengths and materials of construction.
- PED Compliant to Sound Engineering Practice
- Full traceability on all parts, material certification packs available
- Rated to 10 bar g liquid, 6 bar g gas



Accessories	Part Number
Pressure Gauge and Vent Valve Kit 	60S000016
Ball Valve and Nipple 	60S000010
Stand 	50S010012
Mounting Bracket 	50S010003

## Features and Benefits

- Investment Cast head (avoids the porosity & inclusion problems associated with lower quality sand castings)
- Integral vent and drain sockets to aid efficient filter changeout complete with PTFE washer
- Unique interchangeable configuration enables choice of plug in or DOE cartridge styles in the same housing
- Every housing is etched with a serial number for full traceability
- Full housing customisation service available
- Available in both 316L Stainless Steel and Alloy 22
- Suitable for both liquid and gas applications

## Product Range

Amazon Filters design and manufacture an extensive range of liquid filtration systems, providing one of the widest selections of filtration vessels, depth filters and pleated cartridges available today, ensuring excellent process and filter compatibility. As one of Europe's leading manufacturers of filtration systems, Amazon Filters is able to offer a solution to meet all filtration requirements. Amazons' filters are manufactured in clean room conditions and all products come with detailed Product Validation Guides and Technical Support documentation.



# 54 Series Technical Data

## Maximum Operating Conditions

Pressure Range: Liquid: FV / 10 bar g  
Gas: FV / 6 bar g  
Temperature Range: -10°C / 110°C

## Materials of Construction

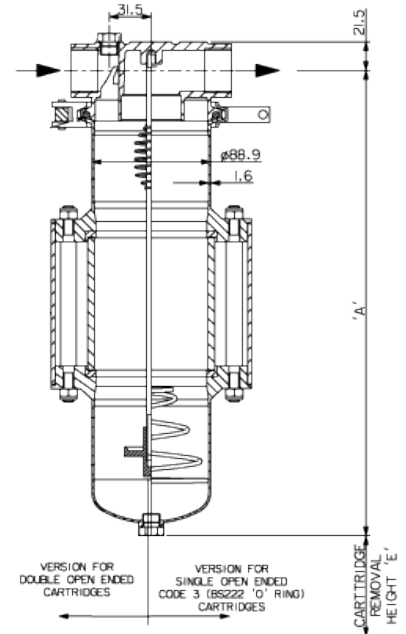
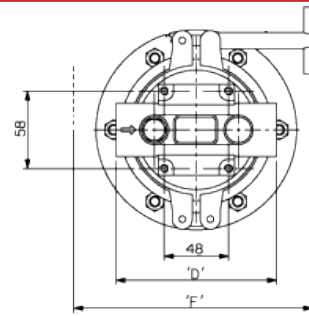
Body and Closure: 316L St.Steel  
Alloy 22  
Clamp: 304 St.Steel  
Seal: EPDM  
Retaining Glass: Borosilicate with Acrylic safety shield and PTFE Seals

## Finish

Vessel: Externally polished sump, bead blast head

## Connections

Inlet/Outlet: 1" BSPF  
Vent: 1/4" BSPF with Plug  
Drain: 1/4" BSPF with Plug



Model	Dimensions					Volume (Litres)	Dry Weight
	A	B	C	D	E		
10"	347	-	-	120	320	2.2	6.4
20"	601	-	-	120	554	3.7	7.3
30"	855	-	-	120	800	5.2	8.2

## PED Status:

Fluid Groups: Compliant with 2014/68/EU  
Gas Group 1  
Liquids Group 1 + 2

Marking: Sound Engineering Practice  
Exceptions: Group 1 liquids - Explosive

## ATEX:

Compliant with 2014/34/EU, level CE Ex II 2 GD c X

Technical drawings for each individual housing showing dimensions, volume, weights, maximum temperatures and design pressures available on request.

# Ordering Guide

5401	1	0	A	N	10	B	1	C	E
No of Stacks	Cartridge Length	Cartridge End Cap Style	Closure Style	Mounting	Connection	Connection Type	Materials	Finish	Seal
5401 - 1	1 - Single 10" 2 - Double 20" 3 - Triple 30"	0 - Code 0 B - Code B 3 - Code 3 7 - Code 7 I - MCY1000 Insert*1	A - Cast Vee Clamp X - DIN Screwed closure	N - None E - Bracket K - Double Vent and Bracket	10 - 1" 15 - 1 1/2"	B - BSPF (1" Only) C - EN1092-1 Flange PN16 H - ASME Flange 150# L - BS4825-3 Tri Clamp M - DIN11851 Coupling N - RJTM Coupling P - SMSM Coupling R - IDFM Coupling S - DIN2633 Flange T - NPTF (1" Only)	1 - 316 st.st (L Grade) 4 - Alloy 22	C - Externally polished sump, bead blast head	E - EPDM F - FEP/Silicone S - Silicone V - Viton G - FEP/Viton

Example: 540110AN10B1CE = 54 Series, 1 x 10" DOE cartridge, Cast Vee Clamp closure, No mounting, 1" BSPF connections. St.Steel construction with EPDM gaskets, externally polished sump with bead blast head.

\*1 Can not be converted to accept code 3 cartridges.

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# 60 SERIES OVERVIEW



## Multi Stack Cartridge Housings

The **60 Series** multiple cartridge housing range has set the standard for lightweight cartridge assemblies for use in the general liquids processing industry. Designed for ease of operation, economy and with the widest range of sizes and connections on offer in the market, these housings have been used in all the main process industries.

The **60 Series** housing range consists of:-

### 61 Series

- Widely used where low capital cost is important, these housings will suit most filtration applications
- Free-standing, easy to install design
- Vee clamp closure uses unique 'W' style seal for reliable leak free operation
- Designed to accommodate 3,5,10,15 and 19 element stacks up to 40" long

### 62 Series

- Dished bottom end allows complete drainage of clean chamber
- Adjustable legs on 3 and 5 round housings enable the user to set inlet and outlet heights
- Suitable for use up to 150°C, in full vacuum and up to 10 bar
- Designed to accommodate 3,5,10,15,19,24 and 30 element stacks up to 40" long

### 63 Series

- Free standing unit avoids need for legs and takes up less space
- Split body design allows easy access to cartridges for filter change out
- Vee clamp closure uses unique 'W' style seal for reliable leak free operation
- Designed to accommodate 3,5,10 and 15 element stacks from 20" - 40" long

### 64 Series

- Leg mounted design
- Split body design allows easy access to cartridges for filter change out
- Dished bottom end allows complete drainage of clean chamber
- Designed to accommodate 3,5,10 and 15 element stacks from 20" - 40" long

### 65 Series

- Higher pressure housing – up to 16 bar in liquids and gases
- Leg mounted design
- Dished bottom end allows complete drainage of clean chamber
- Designed to accommodate 3, 5 or 10 element stacks from 20" - 40" long

### 66 Series

- Designed for use with large diameter cartridges in high flow systems
- Can be used with either forward flowing FFC style cartridges or 'in to out' HFC style cartridges
- Can be installed in the vertical or horizontal positions and can be supplied with fixed or adjustable legs
- Available for 1 to 30 round cartridges and for 20", 40" and 60" lengths

The **60 Series** range offers amazing flexibility with many unique design features include 10 different connection styles, 4 different end cap configurations, various different top closure styles, split bowls, free standing units and electropolished finish both inside and out making these housings the market leaders for industrial applications.



## Features and Benefits

- Large selection of housing sizes available so suitable for a wide range of process applications
- Universal cup enables choice of plug in (Code 3, Code 8 and Code A) or DOE cartridge styles in the same housing
- Full housing customisation service available
- Every housing is etched with a batch number for full traceability
- Full PED compliance with 2014/68/EU and full ATEX compliance with 2014/34/EU, level CE Ex II 2 GD c X
- Integral vent and drain sockets

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# 60 Series Technical Data

## Maximum Operating Conditions

		61/63 Series					62/64 Series					65 Series		66 Series		
		6*03	6*05	6*10	6*15	6119	6*03	6*05	6*10	6*15	6219	6224-6230	6503/6505	6510	6601	6603-6607
Max. Pressure (bar g)	Liquid	FV/10				FV/6	FV/10				FV/6	FV/10	FV/16		FV/10	
	Gas	FV/7.5	FV/4.5	FV/2	FV/1.5	FV/1	FV/7.5	FV/4.5	FV/2	FV/1.5	-		FV/16	FV/1.5	FV/3	-
Maximum Temp.		-10°C-150°C								-10°C/110°C		-10°C/150°C		-10°C/110°C		

Details in the table above represent bolted closures only, for full details on any of our housings please contact the Sales Office or refer to individual datasheets available upon request.

## Materials of Construction

Body and Head: 316L St.Steel  
 Closure - Vee Clamp: 304 St.Steel (non wetted parts)  
 Screw Clamp: Zinc Plated carbon steel  
 Seal: Ethylene Propylene  
 Viton

## Standard Connections

Inlet/Outlet: 2" BSPM, 2" - 6" Flange  
 Vent: 1/4"-1/2" BSP with Plug  
 Drain: 1/2"-1" BSP with Plug  
 Optional Connections: Tri Clamp, EN1092-1 Flange, ASME Flange, RJTM, DIN2633 Flange

## PED Status:

Compliant with 2014/68/EU

## Exceptions:

Group 1 liquids - Explosive

## ATEX:

Compliant with 2014/34/EU, level CE Ex II 2 GD c X

		61/63 Series			62/64/65/66 Series				
Fluid Groups	Liquid	Group 2			Groups 1+2				
	Gas				Group 2	-	Groups 1+2	Group 2	-
Marking		CE							

Technical drawings for each individual housing showing dimensions, volume, weights, maximum temperatures and design pressures available on request.

For full details on any of our housings please contact the Sales Office or refer to individual datasheets available upon request.

# 60 Series Accessories

<p>Pressure Gauge and Vent Valve Kit                      1/4" BSPM, 63mm 316 St.St gauge, 0-27 bar, Perspex front</p> 
<p>Pressure Gauge and Auto Vent Valve Kit                      1/4"-1/2" BSPF, Brass or St.St gauge, 0-10 bar, ball valve</p> 
<p>Ball Valve and Nipple                      1/4"-1" BSPF, 316 St.St, Reduced bore - PTFE seat</p> 
<p>Adjustable Leg Set                      168-219mm 304 St.St Adjustable leg set</p> 



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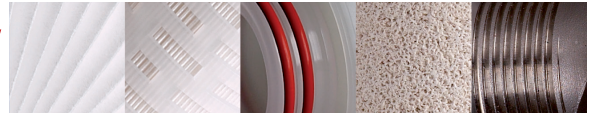
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# 70 SERIES OVERVIEW

## Hygienic Cartridge Housings



The **70 Series** hygienic filter housing range brings together advanced design and finishing techniques to produce a modern range of sanitary single and multi-cartridge filter vessels.

The **70 Series** housing range consists of:-

### 71 Series

- Design primarily as a hygienic vent filter
- Low cost simple design
- Crevice free construction with hygienic single polished inlet/outlet port
- Available for 5", 10", 20" or 30" length cartridges and recommended for use with the naturally hydrophobic **SupaPore TP** PTFE membrane cartridge

### 72 Series

- 'T' Style configuration is ideally suited to smaller scale or pilot based processes
- Base mounted, this free standing housing allows easy access to all internal areas
- No loose internals for trouble free operation
- Available for elements from 5" up to 30" long

### 73 Series

- This leg mounted, free standing housing is ideal for larger scale critical applications
- Lightweight dome allows full and easy access for rapid change-outs
- Suitable for 3, 5 or 8 element stacks up to 30" long
- Rated up to 10 bar in liquids, up to 7 bar in gases and up to 150°C

### 74 Series

- Inline connections for smooth flow path
- Plenum style housing ideally suited for Air and Gas streams
- Chamber equipped with drain plug for condensation removal
- Available for 5", 10", 20" and 30" code 7 cartridges

### 76 Series

- Single cartridge housing suited to both gas and liquids
- Self draining, minimum product hold up
- Premium pharmaceutical quality
- Rated for full vacuum, up to 10 bar and 150°C
- Accepts 5", 10", 20" and 30" code 7 cartridges

Manufactured in 316L stainless steel as standard and with an option of Alloy 22. Available in a variety of design styles so suitable for most clean processes.

Features include 'T' style designs (to provide ease of installation and minimal flow resistance) and various different connections and end cap configurations. The housings are finished by mechanical polishing to remove all crevices and then electro-polished both inside and outside, making them the market leaders in hygienic filtration systems.



## Features and Benefits

- 316L construction for maximum corrosion resistance
- Full housing customisation service available
- Available with finishes ranging from 0.4  $\mu\text{m}$  to 0.8  $\mu\text{m}$  Ra
- Every housing is etched with a serial number for full traceability
- Wide range of connection options available
- Full PED compliance with 2014/68/EU and full ATEX compliance with 2014/34/EU, level CE Ex II 2 GD c X



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# 70 Series Technical Data

## Maximum Operating Conditions

		71 Series		72 Series			7303 Series			7305 Series			74 Series		76 Series	
		10"	20"	10"	20"	30"	10"	20"	30"	10"	20"	30"	10"	20"	10"	20"
Maximum Pressure	Liquid	-								10						
	Gas	-		10			7			6			10		10	
Maximum Temp.		150°C														
Volume (Litres)		2.5	4.5	2.6	4.6	6.6	11.4	19.4	27.4	14.2	23.3	32.4	3.8	5.5	2.6	4.5

## Materials of Construction

Body and Head: 316L St.Steel  
 Closure: 304 St.Steel (non wetted parts)  
 Seal: Silicone  
 Viton

## Standard Connections

Inlet/Outlet: 1-2½" Tri Clamp  
 Vent: ¼" BSPF with Plug  
 Optional Connections: Tri Clamp, RJTM Coupling, DIN11851 Coupling, IDFM Coupling

## PED Status:

Compliant with 2014/68/EU

## Exceptions:

Group 1 fluids – Explosive

## ATEX:

Compliant with 2014/34/EU Level CE Ex II 2 GD c X

		71 Series	72 Series	73 Series	74 Series	76 Series	
Fluid Groups	Liquids	-	Groups 1+2	Groups 1+2	Groups 1	Groups 1+2	
	Gas	-	Groups 1+2	Group 2	Group 1+2	Groups 1+2	
Marking		-				CE	

For full details on any of our housings please contact the Sales Office or refer to individual datasheets available upon request.

Technical drawings for each individual housing showing dimensions, volume, weights, maximum temperatures and design pressures available on request.

# 70 Series Accessories

## Hygienic Diaphragm Gauge

¼" BSPM, 316 St.St gauge, 0-10 bar, glass or perspex front  
 1½" Tri Clamp, 316 St.St gauge, 0-10 bar, glass or perspex front



## Hygienic Reducers

0.8 µm Ra, 1" Tri Clamp reducers to 1½" 2" DIN 11851 male, RJTM, SMSM or IDFM



## Clamps and Seals

Silicone, EPDM, Viton, PTFE



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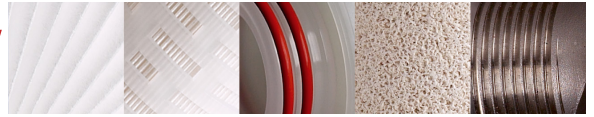
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# 80 SERIES OVERVIEW



## Single and Multi Bag Housings

The **80 Series** bag housings are available as a comprehensive range of styles to suit almost all liquid and gas processes.

Manufactured in 316L grade stainless steel as standard and designed to meet the needs of most applications, this range includes lightweight vee clamp closure side entry units such as the **81 Series** 'MINI' through to the rapid bag changeout 'Swan Neck' style of the **86 Series**.

The **80 Series** bag housing range consists of:-

### 81 Series

- 4¼" 'MINI' bag housing available in single or double lengths
- Ideal for small and medium scale processes
- The side inlet and bottom outlet configuration provides a simple to clean, easy access housing
- Bottom dished end and top closure with vee clamp or bolted option

### 82 and 84 Series

- Free standing 5½" and 7" bag housing
- Suitable for 16", 32" and 48" nominal length bags
- Inverted dished end style is ideally suited to continuous process operations
- Offers great flexibility in terms of high flow and high dirt capacity whilst requiring only a small footprint

### 83 and 85 Series

- Conventional dished end to enable full draining and cleaning
- Ideal for all areas involving liquids processing where free draining and frequent process changes takes place
- Adjustable legs and wide range of inlet/outlet connections

- Suitable for 5½" or 7" ring diameters and up to 48" triple bag lengths

### 86 Series

- Top entry, bottom outlet configuration
- Novel cast head incorporates an integral one piece inlet, double vent ports and features a special bolt retaining mechanism
- Filter bags can be changed without the need to disconnected process pipework
- Suitable for 7" ring diameter bags of 16" single and 32" double lengths

### 87 Series

- Multi-pot 5½" bag housing suitable for 32" double or 48" triple length bags
- Offering exceptional surface area with maximum economy the **87 Series** is widely used for chemical processing and water treatment
- Dished end to enable full draining and cleaning
- Top opening style equipped with a cast vee clamp as standard and with the option of a Rathman style bolted closure for operating pressures up to 10 bar g

### 88 Series

- Multi-pot 7" bag housing suitable for 32" double or 48" triple length bags
- Conventional dished end to aid drainage and cleandown
- Available for 4, 6, 8 and 12 bags
- Ideal for high flow, high dirt volume applications where free draining and frequent process changes will take place

Unique design features include 10 different top connection styles, 4 different bag sealing rings, 4 different top closure styles and the choice of free

standing or bottom dished end with adjustable legs. These bag housings are ideal for chemical and general filtration applications.



## Features and Benefits

- Suitable for a wide range of applications
- Integral vent to aid efficient filter change out
- Robust bag support basket assembly fabricated from perforated sheet rather than wire mesh for extra strength
- Full housing customisation service available
- Every housing is etched with a batch number for full traceability

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# 80 Series Technical Data

## Maximum Operating Conditions

		81 Series		82/83 Series		84/85 Series			86 Series		87 Series		88 Series		
		Single	Double	Single	Double	Single	Double	Triple	86011	86012	8703	8705	88041	88042	88043
Maximum Pressure	Liquid	FV/10 bar g													
	Gas	FV/10 bar g		FV/7.5 bar g		FV/4.5 bar g			FV/10 bar g		FV/1		-		
Maximum Temp.		-10/150°C											-10°C/110°C		
Volume (Litres)		2.9	4.8	13.3	21	19.7	31	46	16	28	-		238	247	338

## Materials of Construction

Body and Head: 316L St.Steel  
Alloy 22

Closure: 316L St.Steel  
304 St.Steel (non wetted parts)

Seal: Ethylene Propylene  
Viton

## Connections

Inlet/Outlet: 1" -2" BSP, 4" -6" Flange

Vent: 1/4"-1/2" BSP with Plug

Drain: 1/2"-1" BSP with Plug

Optional Connections: EN1092-1 Flange, ASME Flange, Stub Pipe, DIN2633 Flange, BS4825-3 Tri Clamp, RJTM Coupling

## PED Status:

Compliant with 2014/68/EU

## Exceptions:

Group 1 liquids – Explosive

## ATEX:

Compliant with 2014/34/EU level CE Ex II 2 GD c X

		81 Series	82 Series	83 Series	84 Series	85 Series	86 Series	87 Series	88 Series
Fluid Groups	Liquids	Groups 1+2	Group 2	Groups 1+2	Group 2	Groups 1+2			
	Gas	Group 2				Group 1+2		-	-
Marking		SEP				CE			

For full details on any of our housings please contact the Sales Office or refer to individual datasheets available upon request.

# 80 Series Accessories

<p>Pressure Gauge and Vent Valve Kit 1/4" BSPM, 63mm 316 St.St gauge, 0-27 bar, Perspex front</p>	
<p>Pressure Gauge and Auto Vent Valve Kit 1/4"-1/2" BSPF, Brass or St.St gauge, 0-10 bar, ball valve</p>	
<p>Bag Displacement Pod Single or Double length, 316 St.St with handle</p>	
<p>Adjustable Leg Set 168-219mm 304 St.St Adjustable leg set</p>	



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