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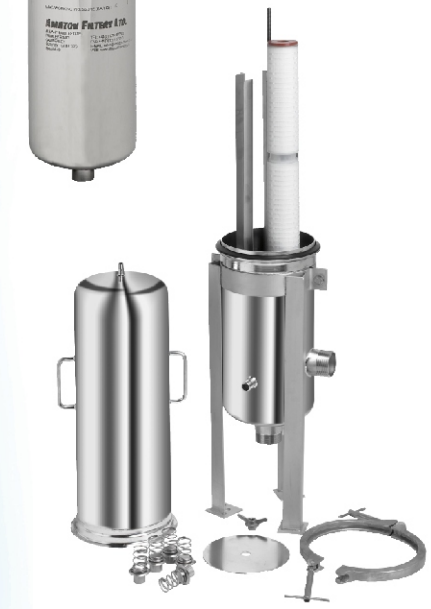
# Water Cartridge filters
# kaarsenfilters
# Filtres à cartouches

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# SupaGard

## Nominal Rated Polypropylene Filter Cartridge

**SupaGard** is the latest development in nominal rated spun bonded filter cartridge design.
Produced with an integral support core for strength and high void volume, these elements excel against similarly rated cartridges in terms of life and cost effectiveness. The superior structure remains integral even under severe operating conditions and is less prone to media migration and breakthrough often found on other unsupported spun bonded products.

**SupaGard** cartridges are produced using a unique manufacturing process resulting in the following features:-

### Nominal Rated Filter Media

- Available from 1 to 150µm
- Consistent reliable performance

### Unique Construction

- One piece high strength all polypropylene moulded support core
- High void volume, resulting in low clean Δp and excellent dirt holding capacity
- End cap welded direct to the core for extra security and strength
- Thermally bonded fibre matrix stops fibre migration
- One piece construction up to 1016mm (40")

### Manufacturing Properties

- 100% Polypropylene
- Materials meet FDA requirements throughout
- WRc listed for potable water production facilities
- No resins, binders or anti-static agents
- Wide chemical compatibility

**SupaGard** fibres are blown continuously onto a central moulded support core, without the need for binders, resins or lubricants. This results in a one piece construction that is resistant to unloading and media shedding. True depth filtration results from the closely controlled fibre production in manufacturing, and also the process environment which ensures a consistent and reliable high quality element.

Standard size elements are available up to 1016mm (40") in length, either double open ended or with most common end cap fittings, and also in 10" and 20" Big Blue sizes.

## SupaGard Features and Benefits

- Consistent and reliable performance and efficiency
- Identification imprinted on every cartridge
- Graded density structure for maximum dirt holding capacity
- Increased void volume giving high flow rates and low initial pressure losses
- Wide chemical compatibility, using 100% polypropylene to meet FDA requirements
- Range of Nominal ratings from 1 to 150µm
- Thermal bonding process stops media migration and ensures minimal extractables

SupaGard

SUPAGARD

# Technical Data

### Materials of Construction

| | |
|---|---|
| Filter Media: | Polypropylene |
| Core: | Polypropylene<br>Glass filled polypropylene |

### Dimensions

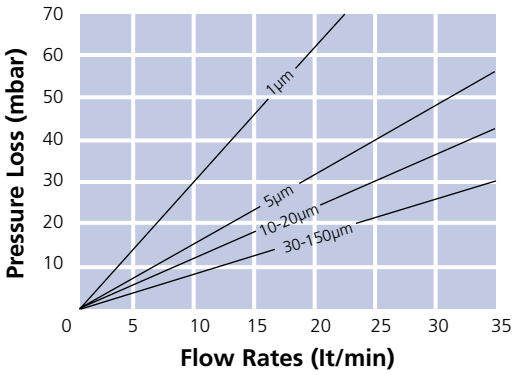
| | |
|---|---|
| Length: | See ordering guide |
| Outside Diameter: | 64mm |
| Core Diameter: | 28mm |

### Maximum Operating Conditions

| | | PP core | GFPP core |
|---|---|---|---|
| Recommended ΔP @ 20°C | | 1.5 Bar | 1.5 Bar |
| Maximum ΔP | @ 20°C | 4.0 | 4.0 |
| | @ 50°C | 1.5 | 2.5 |
| | @ 80°C | 0.25 | 1.0 |

Product guide available on request

**Flow Rates For Water (10" element)**




# Ordering Guide

**07** ○ ○ ○○○ – ○○ ○ ○ **A** ○○

| Media | Core/Assembly | Micron Rating | Length | Connections | Seal | Special Options |
|---|---|---|---|---|---|---|
| P - Polypropylene | **Standard**<br>P - Polypropylene<br>D - Glass Filled Polypropylene<br><br>**Advantage**<br>U - Outer cage<br>W - Outer cage + moulded ends<br>X - Outer cage + Glass filled core<br>Y - Outer cage + Glass filled core + moulded ends | 001 - 01µm<br>005 - 05<br>010 - 10<br>020 - 20<br>030 - 30<br>050 - 50<br>075 - 75<br>100 - 100<br>150 - 150 | 05 - 125mm<br>09 - 251<br>10 - 254<br>19 - 500<br>20 - 508<br>29 - 752<br>30 - 762<br>39 - 1002<br>40 - 1016 | N - None<br>A - Code A<br>B - Code B*<br>S - Code S<br>2 - Code 2<br>3 - Code 3<br>7 - Code 7<br>8 - Code 8 | N - None<br>P - PE Gasket<br>E - EPDM<br>S - Silicone<br>V - Viton<br>B - Buna<br>F - FEP/Silicone | BB - Big Blue<br>G - Glass filled end cap |

Example:
07PP005-20NPA = Polypropylene media and core,nominal 5µm micron rating, double length 508mm (20") long with Polyethylene seal.

*Code B - to fit Amazon **50 Series** housing only.

# Industries and Applications

| | |
|---|---|
| **Food and Beverage** | • Bottled water, Flavours, Polishing lines, Trap filters. |
| **Pharmaceuticals** | • Base product clarification, Membrane pre-filtration, Bulk transfer. |
| **Fine Chemicals** | • Solvents, Process streams, Water purification, Acids, Alcohols. |
| **Magnetic Coatings** | • Dispersions, Coating lines, Solvents. |
| **Petrochemicals** | • Waterflood, Completion fluids, Amine streams, Glycol. |
| **Cosmetics** | • Alcohols, Essential oils, Water lines, Transfer filters. |
| **Water Treatment** | • Membrane protection (Reverse Osmosis, Nano), Resin trap, Potable water. |
| **Metal Finishing** | • Plating solutions, Paint and resin products, Wash solutions. |

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# SupaSpun II

## Absolute Rated Depth Filter 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

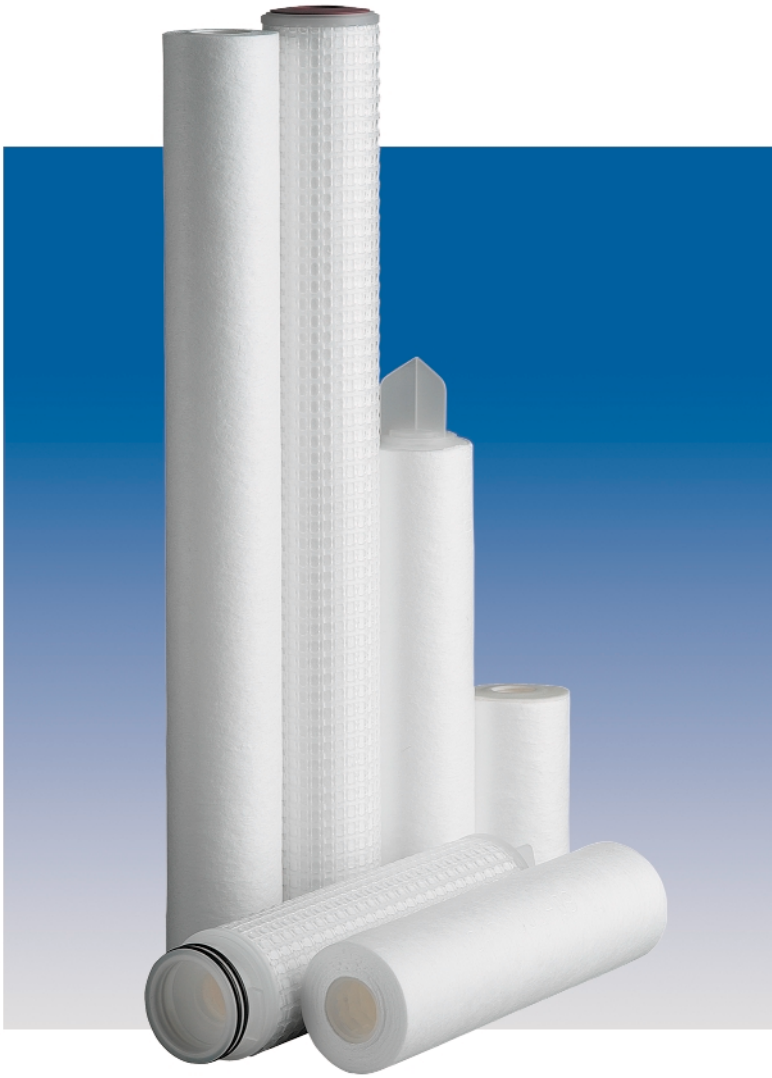
- Available from 0.5 to 180µm
- Polypropylene or Nylon
- Consistent reliable performance

### Unique Construction

- One piece high strength moulded support core
- High void volume, resulting in low clean Δp and excellent dirt holding capacity
- End cap welded direct to the core for extra security and strength
- Thermally bonded fibre matrix stops fibre migration
- One piece construction up to 1524mm (60")

### Manufacturing Properties

- 100% Polypropylene or Nylon
- Materials meet FDA requirements throughout
- WRc listed for potable water production facilities (polypropylene option only)
- No resins, binders or anti-static agents
- Wide chemical compatibility



**SupaSpun II** fibres are blown continuously onto a central moulded 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.

Standard size elements are available up to 1016mm (40") in length, either double open ended or with most common end cap fittings.

## SupaSpun II 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
- Range of Absolute ratings from 0.5 to 180µm (Beta Ratio 5000 on 0.5 to 20µm, PP only)
- Thermal bonding process stops media migration and ensures minimal extractables
- Identification imprinted on every cartridge

SupaSpun II

SupaSpun II

# Technical Data

### Materials of Construction

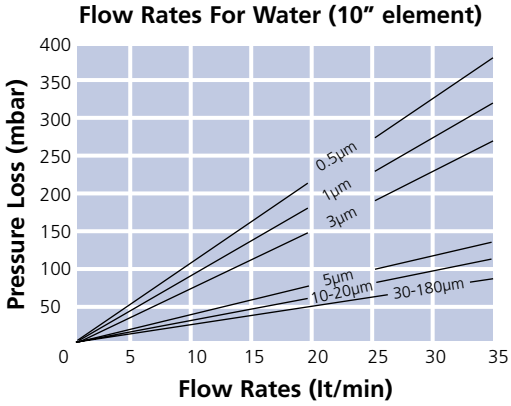
| | PP | NN |
|---|---|---|
| Filter Media: | Polypropylene | Nylon |
| Core: | Polypropylene (Glass filled) | Nylon |
| End caps (optional): | Polypropylene | Nylon |

### Dimensions

| | |
|---|---|
| Length: | See ordering guide |
| Outside Diameter: | 64mm |
| Core Diameter: | 28mm |

### Maximum Operating Conditions

| | | PP media PP core | PP media GFPP core | Nylon media Nylon core |
|---|---|---|---|---|
| Recommended ΔP @ 20°C | | 1.5 Bar | 1.5 Bar | 1.5 Bar |
| Maximum ΔP | @ 20°C | 4.0 | 4.0 | 4.0 |
| | @ 50°C | 1.5 | 2.5 | 4.0 |
| | @ 80°C | 0.25 | 1.0 | 1.0 |
| | @150°C | - | - | 0.5 |




Sterilisation and Sanitisation*

Steam - 121°C for 15 mins (10 cycles)

Hot Water: - 82°C for 30 mins (0.2 bar Δp max)

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

Product 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

04 ○ ○ ○○○–○○ ○ ○ A ○

| Media | Core/Assembly | Micron Rating | Length | Connections | Seal | Special Options |
|---|---|---|---|---|---|---|
| P - Polypropylene | **Standard** | 000 - 0.5µm (PP only) | 05 - 125mm | N - None | N - None | S - St.St Insert |
| N - Nylon | P - Polypropylene | 001 - 01 | 09 - 251 | A - Code A | P - PE Gasket | G - Glass filled end cap |
| | D - Glass Filled Polypropylene | 003 - 03 | 10 - 254 | B - Code B* | E - EPDM | |
| | N - Nylon | 005 - 05 | 20 - 508 | S - Code S (PP only) | S - Silicone | |
| | **Advantage** | 010 - 10 | 30 - 762 | 2 - Code 2 | V - Viton | |
| | U - Outer cage | 020 - 20 | 40 - 1016 | 3 - Code 3 | B - Buna | |
| | W - Outer cage + moulded ends | 030 - 30 | | 7 - Code 7 | F - FEP/Silicone | |
| | X - Outer cage + Glass filled core | 050 - 50 | | 8 - Code 8 | | |
| | Y - Outer cage + Glass filled core + moulded ends | 070 - 70 | | | | |
| | | 090 - 90 | | | | |
| | | 120 - 120 (PP only) | | | | |
| | | 150 - 150 (PP only) | | | | |
| | | 180 - 180 (PP only) | | | | |

Example:
04PP005-20NNA = Polypropylene media and core, Absolute 5 micron rating, double length 508mm (20") long, Double open end fitting, no seal.

*Code B - to fit Amazon **50 Series** housing only.

# Industries and Applications

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

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# CONTOUR

## LARGE DIAMETER FILTER CARTRIDGE

**CONTOUR** spun bonded cartridge filters utilise the very latest in high strength fibre production to create a large diameter core-free element. Engineered to operate in high flow applications, the high capacity, low pressure loss media is an ideal choice for use in a wide range of water and chemical processes. No resins, binders or other materials are used in the manufacturing process, this results in a fibre free, uncontaminated process fluid. Utilising the housings own integral support core, this cartridge shows excellent performance in terms of life, disposal costs and overall cost effectiveness when compared to conventional cartridges.

**CONTOUR** cartridges are produced using a unique manufacturing process resulting in the following features:

### High Efficiency Filter Media

- Available from 10 to 100µm+
- Consistent reliable performance

### Unique Construction

- Core-free design
- Free from resin binders
- High void volume, resulting in low clean Δp and excellent dirt holding capacity
- Thermally bonded fibre matrix stops fibre migration
- One piece construction up to 1010mm (40")

### Manufacturing Properties

- 100% Polypropylene or Nylon throughout
- No resins, binders or anti-static agents
- Wide chemical compatibility
- High temperature resistance
- True graded density for enhanced life

**CONTOUR** fibres are blown continuously onto a central production mandrel, without the need for resin binders or lubricants. This results in a one piece, core-free construction that is resistant to unloading and media shedding. True depth filtration results from the closely controlled manufacturing process and environment, which also ensures a consistent and reliable high quality element.
Two standard size elements are available, 505mm (20") and 1010mm (40"), double open ended format.

## CONTOUR FEATURES AND BENEFITS

- Consistent and reliable performance and efficiency
- No resin binders - thermal bonding process stops media migration and ensures minimal extractables
- Identification imprinted on every cartridge
- Graded density structure for maximum dirt holding capacity
- Increased void volume giving high flow rates and low initial pressure losses
- Wide chemical compatibility, using 100% polypropylene or nylon media
- Range of ratings from 10 to 100µm+

CONTOUR

CONTOUR

# Technical Data

**Materials of Construction**

Filter Media: Polypropylene or Nylon

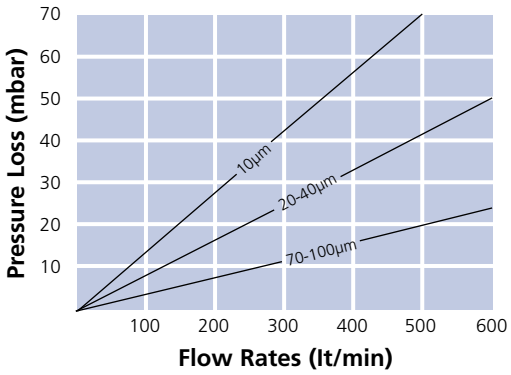
**Dimensions**

Length: 505 and 1010mm
Outside Diameter: 152mm
Inside Diameter: 114mm

**Maximum Operating Conditions**

| | | PW | NW |
|---|---|---|---|
| Recommended ΔP | @ 20°C | 1.5 Bar | 1.5 Bar |
| Maximum ΔP | @ 20°C | 3.0 | 3.0 |
| | @ 50°C | 1.5 | 2.5 |
| | @ 80°C | 0.25 | 1.0 |

**Flow Rates For Water (40" element)**




# Ordering Guide

14 ○ ○ ○○○ – ○○ ○ ○A

| Media | Core Material | Micron Rating | Length | Connections | Seal |
|---|---|---|---|---|---|
| P - Polypropylene<br>N - Nylon | W - Without core | 010 - 10µm<br>020 - 20<br>030 - 30<br>040 - 40<br>050 - 50<br>070 - 70<br>100 - 100 | 20 - 505mm<br>40 - 1010 | N - None | N - None |

Example:
14PW020-40NNA = Polypropylene media, no core, 20µm rating, 1010mm (40") long

# Industries and Applications

| | |
|---|---|
| **Food and Beverage** | • Bottled water, Polishing lines, Powder trap filters |
| **Fine Chemicals** | • Solvent trap filters |
| **Petrochemicals** | • Amine streams, Glycol solutions, Hydrocarbon (Kerosene), Wax based materials |
| **General Engineering** | • Return condensate |
| **Metal Finishing** | • Wash systems, Feed waters |
| **Automotive** | • Electrophoretic paints, Phosphate lines, Pre treatment rinse |

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# VisClear

## Nominal Rated Nylon Filter Cartridge

**VisClear** spun bonded cartridge elements have been specifically designed to operate in the chemical processing and liquid coatings industries. Manufactured using Amazon Filters unique fibre processing system, it offers controlled performance and no fibre shed – an absolute requirement in the world of high tech chemistry.
Offering a high void volume and integral support core for maximum strength, they show excellent performance in terms of life and cost effectiveness. These elements excel against older RBC (Resin Bonded Cartridges) that are similarly rated in removal efficiencies. The superior structure is ideal for high temperature, high viscosity applications, and remains integral even under severe operating conditions and is not prone to fibre shed.

**VisClear** cartridges are produced using a unique manufacturing process resulting in the following features:

### Nominal Rated Filter Media
- Available from 5 to 125µm
- Consistent reliable performance

### Unique Construction
- One piece high strength tinned steel support core
- Free from resin binders
- High void volume, resulting in low clean Δp and excellent dirt holding capacity
- Thermally bonded fibre matrix stops fibre migration
- One piece construction up to 1016mm (40")

### Manufacturing Properties
- 100% Nylon media
- No resins, binders or anti-static agents
- Wide chemical compatibility
- High temperature resistance

**VisClear** fibres are blown continuously onto a central support core, without the need for resins, binders or lubricants. This results in a one piece construction that is resistant to unloading and media shedding. True depth filtration results from the closely controlled manufacturing process and environment, which also ensures a consistent and reliable high quality element.
Standard size elements are available up to 1016mm (40") in length in standard double open ended format.

## VisClear Features and Benefits

- Consistent and reliable performance and efficiency
- No resin binders - thermal bonding process stops media migration and ensures minimal extractables
- High mechanical strength – ideal for high temperature viscose solutions
- Identification imprinted on every cartridge
- Graded density structure for maximum dirt holding capacity
- Increased void volume giving high flow rates and low initial pressure losses
- Wide chemical compatibility, using 100% nylon media
- Range of Nominal ratings from 5 to 125µm

VISCLEAR

# TECHNICAL DATA

**Materials of Construction**

| | |
|---|---|
| Filter Media: | Nylon |
| Core: | Tinned steel |
| | 316 St.St |
| | Nylon |

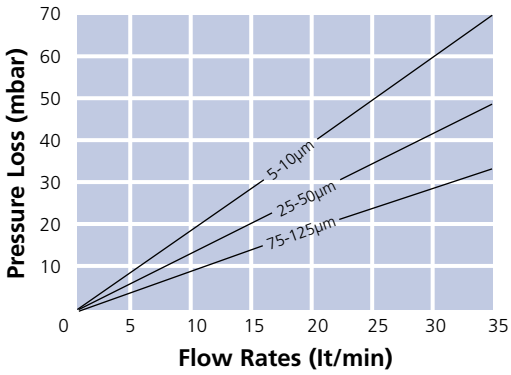
**Dimensions**

| | |
|---|---|
| Length: | See ordering guide |
| Outside Diameter: | 64mm |
| Inside Diameter: | 28mm |

**Maximum Operating Conditions**

| | | Tinned core | Nylon core |
|---|---|---|---|
| Recommended ΔP @ 20°C | | 1.5 Bar | 1.5 Bar |
| Maximum ΔP | @ 20°C | 4.0 | 4.0 |
| | @ 50°C | 4.0 | 4.0 |
| | @ 80°C | 4.0 | 1.0 |
| | @ 150°C | 4.0 | 0.5 |

**Flow Rates For Water (10" element)**




# ORDERING GUIDE

**08** ○ ○ ○○○ – ○○ ○ ○**A**

| MEDIA | CORE MATERIAL | MICRON RATING | LENGTH | CONNECTIONS | SEAL |
|---|---|---|---|---|---|
| N - Nylon | F - Tinned steel<br>T - 316 St.St.<br>N - Nylon | 005 - 5µm<br>010 - 10<br>025 - 25<br>050 - 50<br>075 - 75<br>100 - 100<br>125 - 125 | 09 - 251mm<br>19 - 495<br>20 - 508<br>29 - 743<br>30 - 762<br>39 - 990<br>40 - 1016 | N - None | N - None |

Example:
08NF025-09NNA = Nylon media, tinned steel core, nominal 25µm rating, single length 251mm (10") long

# INDUSTRIES AND APPLICATIONS

| | |
|---|---|
| **Fine Chemicals** | • Solvent trap filters |
| **Petrochemicals** | • Amine streams, Glycol solutions, Hydrocarbon (Kerosene), Wax based materials |
| **Coatings** | • Solvent and Aqueous based paints, Lacquers, Emulsions, Waxes, Inks |
| **General Engineering** | • Return condensate, High temperature water, Solvent wash systems |

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# SupaPore PP / FP

SupaPore PP / FP

## Pleated Depth Filter Cartridges

**SupaPore PP** and **FP** Microfiltration cartridges have been designed as effective membrane prefilters for all liquid processing applications. Utilising a high surface area pleated depth media, their dirt loading capabilities and wide fluid compatibility makes them an ideal choice.

**SupaPore PP** cartridges feature:
- Thermally bonded polypropylene media
- 100% polypropylene construction
- No fibre migration

**SupaPore FP** cartridges feature:
- Glass Microfibre media with acrylic binder
- High dirt holding capacity
- Minimal fibre migration

All cartridges are thermally bonded and adhesive free. They can be autoclaved and Steam sanitised.
- Meets current USP Class VI plastics test
- Meets CFR Title 21 for food contact

Available in a wide range of pore sizes.

**PP** – Polypropylene
- 0.5µm
- 0.6µm
- 1.2µm
- 2.5µm
- 5.0µm
- 10µm
- 20µm
- 40µm

**FP** – Glass Microfibre
- 0.3µm
- 0.5µm
- 1.0µm
- 1.0 + 0.50µm double layer

## SupaPore PP / FP 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
- **PP** - Wide chemical compatibility using 100% polypropylene to meet FDA requirements
- Range of Absolute ratings from 0.3 to 40µm (depending on media)
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification mark on every cartridge
- Full product guide available

**See product guides for further details stating test method and rated efficiencies*

SUPAPORE PP/FP

# Technical Data

**Materials of Construction**

| | PP | FP |
|---|---|---|
| Filter Media: | Polypropylene | Glass Microfibre |
| Filter Media Support: | Polypropylene | Polyester |
| End Caps: | Polypropylene | Polypropylene |
| Core: | Polypropylene | Polypropylene |
| Outer Support Cage: | Polypropylene | Polypropylene |

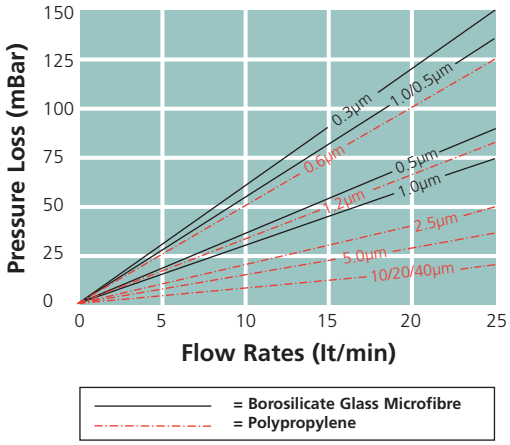
**Dimensions**

| | |
|---|---|
| Outside Diameter: | 68mm (2.7”) |
| Surface Area: | 0.4 – 0.65m² (4.3 – 7.0ft²) |

**Maximum Operating Conditions**

| | |
|---|---|
| Differential Pressure: | Forward – 4.1 Bar @ 20°C<br>Reverse – 2.1 Bar @ 20°C |
| Temperature: | 80°C |
| Sterilisation: | 121°C for 10 hours maximum accumulated exposure* |
| Sanitisation: | 82°C for 30 mins* |

**Flow Rates For Water (10” element)**




*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. Refer to AFL technical data sheets.

# Ordering Guide

16 ○ ○ G ○○○ – ○○ ○ ○A ○

| Media | Core/Assembly | Micron Rating | Length (DOE) | Connections | Seal | Special Options |
|---|---|---|---|---|---|---|
| F – Glass Microfibre<br>P – Polypropylene | P – Polypropylene | PP<br>005 – 0.5µm<br>006 – 0.6<br>012 – 1.2<br>025 – 2.5<br>050 – 5.0<br>100 – 10<br>200 – 20<br>400 – 40<br>FP<br>003 – 0.3µm<br>005 – 0.5<br>010 – 1.0<br>105 – 1.0/0.5 | 05 – 125mm<br>09 – 252<br>20 – 512<br>30 – 760<br>40 – 1020 | 0 – DOE<br>2 – Code 2<br>3 – Code 3<br>7 – Code 7<br>8 – Code 8<br>9 – Code 9<br>A – Code A<br>B – Code B*<br>S – Code S | B – Buna-N<br>E – EPDM<br>F – FEP/Silicone<br>S – Silicone<br>V – Viton | S – St. St insert<br>G – Glass filled end cap |

*Code B - to fit Amazon 50 series housing only.

Example 1: 16PPG012-30SEA = Polypropylene media and core, General grade, Absolute 1.2µm rating, triple length 760mm (30”) code S connections with EPDM seal.

Example 2: 16FPG005-09ASA = Glass Microfibre media with Polypropylene hardware, General grade, Absolute 0.5µm rating, single length 252mm (09”) code A connections with silicone seal.

# Industries and Applications

| | |
|---|---|
| **Food and Beverage** | • Bottled water, Beers, Wines, Flavours, Polishing lines, Clarification |
| **Pharmaceuticals** | • Membrane pre-filtration, Opthalmics, Oral medications, Serum |
| **Fine Chemicals** | • Polymers, Photoresists, Acids, Bases, Solvents |
| **Electronics** | • High purity water, Photo resists, Acids, Etch solutions |
| **Cosmetics** | • Alcohol, Creams, Lotions, Essential oils, Mouthwashes |
| **Metal Finishing** | • Plating solutions, Wash solutions, Paints, Resins, Varnishes |
| **Water Treatment** | • Potable water, Resin trap, Pre/Post UV, Membrane protection |

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# SupaPore VP

## Pleated Membrane Filter Cartridges

**SupaPore VP** Microfiltration cartridges use a pleated high surface area **Polyethersulphone** membrane which 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.

**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 LRV's using Brevundimonas Diminuta and Serratia Marcensens
- 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.

- Can be steam sterilised
- Sanitisable
- Fast rinse up time to 18 Megohm-cm*
- Non Pyrogenic*
- Meets current USP Class VI plastics test
- Meets CFR Title 21 for food contact
- Meets current USP requirements for total extractables

** B, E and W grades only*

Available in a range of grades & absolute rated pore sizes.

- General Grade
- Electronics Grade
- Wine Grade
- Biological Grade
- 0.03µm
- 0.10µm
- 0.20µm
- 0.45µm
- 0.65µm
- 0.80µm
- 1.00µm

## SupaPore VP Features & Benefits

- Validated* removal ratings for consistent and reliable performance
- Fully Integrity Testable - Bubble Point and Diffusional Flow values provided for all pore sizes
- Pleated PES membrane which exhibits exceptionally low protein binding characteristics
- High surface area giving high flow rates and low initial pressure losses
- Wide chemical compatibility, meets FDA approval
- Range of integrity testable ratings from 0.03 to 1.0µm (depending on grade)
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification marked on every cartridge
- Full product guide available (except general grade)

**See product guides for further details stating test method and rated efficiencies*

SupaPore VP

SupaPore VP

# Technical Data

### Materials of Construction

| | |
|---|---|
| Filter Media: | Polyethersulphone |
| Filter Media Support: | Polypropylene |
| End Caps: | Polypropylene |
| Core: | Polypropylene |
| Outer Support Cage: | Polypropylene |

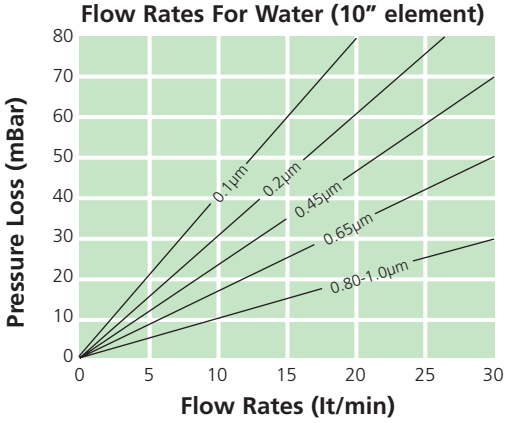
### Dimensions

| | |
|---|---|
| Outside Diameter: | 2.75" (70mm) |
| Typical Surface Area: | 0.55m² - 0.65m² (5.9-7.1ft²) |

### Maximum Operating Conditions

| | |
|---|---|
| Differential Pressure: | Forward – 4.1 Bar @ 20°C<br>Reverse – 2.7 Bar @ 20°C |
| Temperature: | 80°C |
| Sterilisation: | Steam or Autoclave at 121°C for up to 40 cycles of 15 mins each cycle*. |
| Sanitisation: | Hot Water – 90°C<br>Sanitising agents at normal concentrations |

**Flow Rates For Water (10" element)**




**INTEGRITY TEST SPECIFICATION**
E, B & W Grades

| MICRON RATING | BUBBLE POINT In water | DIFFUSION FLOW (cc/min/10") in water |
|---|---|---|
| 0.03µm | 5172mBar (75 psi) | <30 @4138mBar |
| 0.10µm | 4138mBar (60 psi) | <30 @3310mBar |
| 0.22µm | 3034mBar (44 psi) | <30 @2414mBar |
| 0.45µm | 1724mBar (25 psi) | <30 @1379mBar |
| 0.65µm | 1103mBar (19 psi) | <30 @1034mBar |
| 0.80µm | 966mBar (14 psi) | <30 @759mBar |
| 1.00µm | 690mBar (10 ps) | <30 @552mBar |

*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. Refer to AFL technical data sheets.

# Ordering Guide

16 ○○ ○ ○○○ – ○○ ○ ○ A ○

| Media/Core | Grade | Micron Rating | Length (DOE) | Connections | Seal | Special Options |
|---|---|---|---|---|---|---|
| VP – PES/PP– | B – Biological<br>E – Electronics<br>G – General<br>P – Pharmaceutical<br>W – Beverage | 00A – 0.03µm<br>001 – 0.10<br>002 – 0.20<br>004 – 0.45<br>006 – 0.65<br>008 – 0.80<br>010 – 1.0 | 09 – 251mm<br>20 – 510<br>30 – 757<br>40 – 1016 | 0 – DOE<br>A – Code A<br>B – Code B*<br>S – Code S<br>2 – Code 2<br>3 – Code 3<br>6 – Code 6<br>7 – Code 7<br>8 – Code 8<br>9 – Code 9 | E – EPDM<br>B – Buna<br>F – FEP/Silicone<br>S – Silicone<br>V – Viton | S – St. Steel insert<br>G – Glass Filled End cap |

*Code B - to fit Amazon 50 series housing only.

Example: 16VPG004-30ASA = Polyethersulphone media with Polypropylene core, General grade, Absolute 0.45 micron rating, Triple length 757mm (30") long, Code A end fitting with Silicone seal.

# Industries and Applications

| | |
|---|---|
| **Food and Beverage** | • Bottled water, Beers, Wines, Clarification |
| **Pharmaceuticals** | • Sterile filtration, WFI, Opthalmics, Oral medications, Large volume parenterals |
| **Fine Chemicals** | • Aqueous and Organic bulk feeds, Solvents, Bubble jet inks |
| **Electronics** | • High purity water, Polishing loop return lines, Point of use |
| **Cosmetics** | • Alcohol, Mouthwashes, Make up water |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# SupaPore TP/TT

## Pleated Membrane Filter Cartridges

**SupaPore TP and TT** Microfiltration cartridges have been designed specifically for use in a wide range of aggressive gas and liquid processing applications. Using the naturally hydrophobic PTFE membrane as standard it makes this cartridge an ideal choice for systems requiring a reliable and consistent high quality filtrate with excellent compatibility characteristics.

**SupaPore TP** cartridges feature:

- A naturally hydrophilic PTFE membrane
- Polypropylene support
- No fibre migration
- Wide chemical compatibility
- Low protein binding characteristics
- Available at 0.1, 0.2, 0.45 and 1.0µm

**SupaPore TT** cartridges feature:

- A naturally hydrophilic PTFE membrane
- All FEP, PFA and PTFE construction
- No fibre migration
- Excellent chemical compatibility
- Low protein binding characteristics
- Available at 0.1, 0.2, 0.45 and 1.0µm

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

- Can be steam sterilised
- Sanitisable
- Meets current USP Class V1 plastics test
- Meets CFR Title 21 for food contact
- Fully integrity testable by bubble point or diffusion flow test (E and B grade)
- All E and B grade modules are integrity tested during manufacture

## SupaPore TP/TT Features & Benefits

- Manufactured in clean room facilities under ISO quality systems
- Validated* removal ratings for consistent and reliable performance
- Fully Integrity Testable - Bubble Point and Diffusional Flow values provided for all biological grade pore sizes
- TP features naturally hydrophobic PTFE membrane and Polypropylene hardware
- TT features naturally hydrophobic PTFE membrane and all Fluoropolymer hardware for excellent chemical compatibility
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification embossed on every cartridge
- Full product guide available (except general grade)

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

SupaPore TP/TT

SUPAPORE TP/TT

# Technical Data

### Materials of Construction

| | TP | TT |
|---|---|---|
| Filter Media: | PTFE | PTFE |
| Media Support: | Polypropylene | FEP |
| End caps: | Polypropylene | PFA |
| Core: | Polypropylene | FEP |
| Support cage: | Polypropylene | FEP |
| Seal Material: | EPDM, Silicone, Viton, Buna, FEP encapsulated silicone | |

### Dimensions

| | | |
|---|---|---|
| Outside Diameter: | 70mm | 70mm |
| Surface Area: | 0.73m² | 0.73m² |

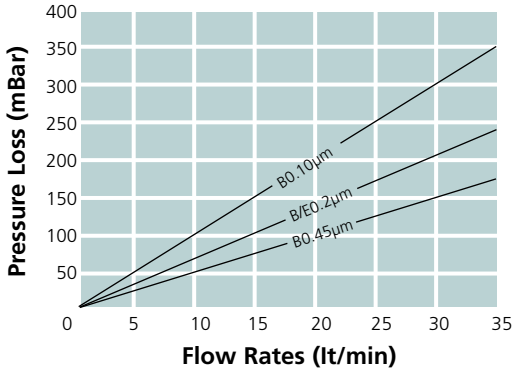
### Maximum Operating Conditions

| | | |
|---|---|---|
| Recommended Differential Pressure: | | |
| Forward Flow: | 6.0 Bar @ 20°C | 5.5 Bar @ 24°C |
| Reverse Flow: | 2.1 Bar @ 20°C | 1.0 Bar @ 120°C |
| Temperature: | 80°C | 80°C |
| Sterilisation and Sanitisation*: | | |
| Steam: | 121°C | - |
| Autoclave: | 136°C/100 cycles | - |
| Hot water: | 82°C | - |

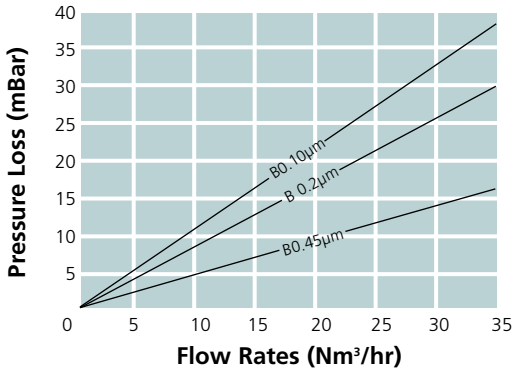
* For all steaming, hot water and autoclave applications, the stainless steel insert option must be used

| MICRON RATING | BUBBLE POINT In 60/40 IPA | DIFFUSION FLOW ml/min/10" in 60/40 IPA |
|---|---|---|
| TPB-0.10µm | ≥1620mBar | ≤ 10 @ 1300mBar |
| TPB-0.20µm | ≥1080mBar | ≤ 10 @ 800mBar |
| TTE-0.20µm | ≥900mBar | ≤ 8 @ 690mBar |
| TPB-0.45µm | ≥630mBar | ≤ 10 @ 400mBar |

### Flow Rates For Water (10" element)




### Flow Rates For Air (10" element)




# Ordering Guide

16 ○○ ○ ○○○ – ○○ ○ ○ A ○

| Media/Core | Grade | Micron Rating | Length | Connections | Seal | Special Options |
|---|---|---|---|---|---|---|
| TP-PTFE/ Polypropylene<br><br>TT-All PTFE/FEP | TP<br>B – Biological<br>G – General<br><br>TT<br>E – Electronics | 001 – 0.10µm<br>002 – 0.20<br>004 – 0.45<br>010 – 1.0<br><br>1.0µm available in TT only | 05 – 125mm<br>09 – 247<br>20 – 508<br>30 – 762<br>40 – 1016 | 0 – DOE<br>2 – Code 2<br>3 – Code 3<br>7 – Code 7<br>8 – Code 8<br>A – Code A<br>B – Code B*<br>S – Code S<br><br>TT available in code 3 and 7 only | E – EPDM<br>S – Silicone<br>V – Viton<br>B – Buna<br>F – FEP/Silicone (SOE only) | S – St. steel insert |

*Code B - to fit Amazon 50 series housing only.

Example: 16TPB002-203FA = PTFE media, Polypropylene assembly, Biological grade, Absolute 0.2µm rating, double length 508mm (20") long, code 3 end fitting with FEP/Silicone seal.

# Industries and Applications

| | |
|---|---|
| **Food and Beverage** | • $CO_2$ lines, Sterile vent for storage and transfer tanks |
| **Pharmaceutical** | • Solvent filtration, Polishing |
| **Fine Chemicals** | • Polymers, Aggressive acids, Bases, Solvents, Ozonated DI water |
| **Electronics** | • Photoresists, Acids, Etch solutions |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# SupaPleat II

## Absolute Rated Pleated Depth Filter Cartridge

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

Three options are offered as standard, the PP, GP and MP. 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 II PP cartridges feature:

- Melt blown Polypropylene media
- Wide chemical compatibility
- Materials meet FDA requirements throughout

SupaPleat II GP cartridges feature:

- Glass microfibre media
- Extremely high dirt holding capacity

SupaPleat II MP cartridges feature:

- Nylon monofilament woven mesh media
- High flow, low pressure loss

**Absolute Rated Filter media**

- Available from 1 to 400µm
- Consistent reliable performance

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

- One piece high strength all polypropylene support core up to 1018mm (40")
- High surface area, resulting in low clean Δp and excellent dirt holding capacity
- 100% thermally welded construction for maximum integrity and strength
- No use of any resins or adhesives
- All polypropylene hardware
- Optional high strength core for improved thermal stability at continuously elevated temperatures

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

## SupaPleat II Features and Benefits

- Absolute removal ratings for consistent and reliable performance
- PP – Wide chemical compatibility using 100% polypropylene to meet FDA requirements
- GP – Glass microfibre media gives excellent dirt holding capacity
- MP – Nylon monofilament mesh offers selective retention with the ability to be cleaned
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Batch traceability

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

SupaPleat II

SUPAPLEAT II

# TECHNICAL DATA

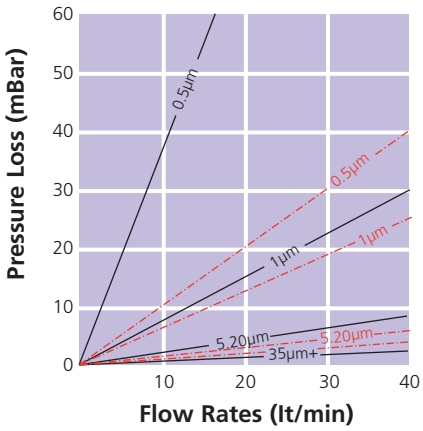
### Materials of Construction

| | PP | GP | MP |
|---|---|---|---|
| Filter Media: | Polypropylene | Glass Microfibre | Nylon Monofilament |
| Media Support: | Polypropylene | Polyester | Polypropylene |
| End caps: | Polypropylene | Polypropylene | Polypropylene |
| Core: | Polypropylene | Polypropylene | Polypropylene |
| Support cage: | Polypropylene | Polypropylene | Polypropylene |

### Dimensions (10")

| | | | |
|---|---|---|---|
| Typical Surface Area: | 0.55m²(5.92ft²) | 0.4m² (4.31ft²) | 0.3m² (3.23ft²) |
| Outside Diameter: | 66mm (2.6") | | |
| Core Diameter: | 28mm | | |

Flow Rates For Water (10" element)




### Maximum Operating Conditions

| | PP core | GFPP core |
|---|---|---|
| Recommended Δp | 1.5 Bar | 1.5 Bar |
| Maximum Δp @20C | 4.0 | 4.0 |
| @50C | 1.5 | 2.5 |
| @80C | 0.25 | 1.0 |

Sterilisation and Sanitisation*

| | |
|---|---|
| Steam: | 121°C for 15 mins (20 cycles) |
| Hot water: | 82°C for 30 mins (0.2 bar Δp max) |

*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. Refer to AFL technical data sheets.

Product guide available on request. **SUPAPLEAT II** cartridges are manufactured under strict control with batch number identification giving full traceability on all components used.

# ORDERING GUIDE

03 ○ ○ ○○○ – ○○ ○ ○ A ○

| MEDIA | CORE/ASSEMBLY | MICRON RATING | LENGTH | CONNECTIONS | SEAL | SPECIAL OPTIONS |
|---|---|---|---|---|---|---|
| G - Glass microfibre | P - All Polypropylene | 000 - 0.5µm | 05 - 125mm | 0 - DOE | B - Buna | S - St.St insert |
| M - Nylon Mono | D - Glass Filled Polypropylene | 001 - 1.0 | 10 - 249 | 2 - Code 2 | E - EPDM | G - Glass filled End cap |
| P - Polypropylene | | 003 - 3.0 | 20 - 510 | 3 - Code 3 | F - FEP/Silicone (SOE only) | |
| | | 005 - 5.0 | 30 - 764 | 7 - Code 7 | S - Silicone | |
| | | 010 - 10 | 40 - 1018 | 8 - Code 8 | V - Viton | |
| | | 020 - 20 | | 9 - Code 9 | | |
| | | 035 - 35 | | A - Code A | | |
| | | 050 - 50 | | B - Code B* | | |
| | | 070 - 70 | | S - Code S | | |
| | | 090 - 90 | | | | |
| | | 100 - 100* | | | | |
| | | 200 - 200* | | | | |
| | | 400 - 400* | | | | |

*M media only

*Code B - to fit Amazon 50 series housing only.

Example: 03PP005-203EA = Polypropylene media and core, Absolute 5µm rating, double length 510mm (20") long, code 3 end fitting with EPDM seal.

# INDUSTRIES AND APPLICATIONS

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

## High Surface Area Pleated Filter 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 options are offered as standard, the PP and GP. Both feature all polypropylene internal and external support core and end caps.

SupaPleat HFC-PP cartridges feature:
- Melt blown Polypropylene media
- Wide chemical compatibility
- Materials meet FDA requirements throughout

SupaPleat HFC-GP cartridges feature:
- Glass microfibre media
- Extremely high dirt holding capacity

Absolute Rated Filter media
- Available from 1 to 90µm
- Consistent reliable performance

SupaPleat HFC filter cartridges are produced using an improved manufacturing process resulting in the following features:
- One piece support core up to 1538mm (60")
- High surface area, resulting in low clean Δp and excellent dirt holding capacity
- Internal support core for resistance to back pressure

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.

## SupaPleat HFC Features and Benefits

- Absolute removal ratings for consistent and reliable performance
- PP – Wide chemical compatibility using materials that meet FDA requirements
- GP – Glass microfibre media gives excellent dirt holding capacity
- Pleat geometry specifically designed for in-to-out flow direction
- Batch traceability
- Low maintenance – fewer number of cartridges

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

SupaPleat HFC

# SupaPleat HFC

## Technical Data

### Materials of Construction

| | PP | GP |
|---|---|---|
| Filter Media: | Polypropylene | Glass Microfibre |
| Media Support: | Polypropylene | Polyester |
| End caps: | Polypropylene | Polypropylene |
| Core: | Polypropylene | Polypropylene |
| Support sleeve: | EVA | EVA |

### Dimensions

| | |
|---|---|
| Outside Diameter: | 150mm (6") |
| Inside Diameter: | 70mm |

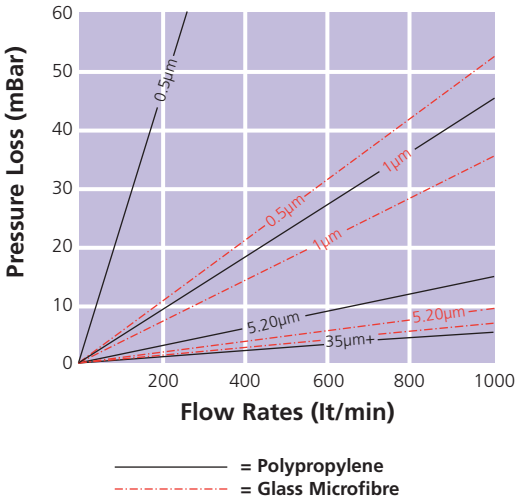
### Maximum Operating Conditions

| | |
|---|---|
| Recommended Δp | 1.5 Bar @ 20°C |
| Maximum Δp | 4.0 @ 20°C |
| Temperature | 60°C |

### Typical surface area in m² per cartridge

| Media/Length | 20" | 40" | 60" |
|---|---|---|---|
| PP | 4.5 | 9.0 | 13.5 |
| GP | 3.5 | 7.0 | 10.5 |

### Flow Rates For Water (40" element)




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

## Ordering Guide

15 ○ ○ ○○○ – ○○ ○ ○

| Media | Core/Assembly | Micron Rating | Length | Connections | Seal |
|---|---|---|---|---|---|
| G - Glass microfibre<br>P - Polypropylene | P - Polypropylene | 001 - 1.0µm<br>002 - 2.0<br>003 - 3.0<br>004 - 4.5<br>005 - 5.0<br>006 - 6.0<br>010 - 10<br>020 - 20<br>040 - 40<br>050 - 50<br>070 - 70<br>090 - 90 | 20 - 527mm<br>40 - 1038<br>60 - 1538 | C - Flange | B - Buna-N<br>E - EPDM<br>F - FEP/Silicone<br>S - Silicone<br>V - Viton |

Example: 15PP005-20CEA = Polypropylene media and core, Absolute 5µm rating, single length 527mm (20") long, C flange fitting with EPDM seal.

## Industries and Applications

| | |
|---|---|
| **Food and Beverage** | • Bottled water, Beers, Wines, Flavours, Polishing lines, General clarification |
| **Pharmaceutical** | • Solvent discharge, Raw water supplies, batch transfers |
| **Fine Chemicals** | • Polymers, Acids, Bases, Solvents |
| **Cosmetics** | • Alcohol, Essential oils, Mouthwash solutions |
| **Metal Finishing** | • Plating solutions, Wash solutions |
| **Water Treatment** | • Pre reverse osmosis, UV protection, Resin trap |
| **Automotive** | • Wash solutions, Cooling fluid, Blanking wash oils, Electrophoretic paints |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# SupaCarb

## Dual Function Depth Filter Cartridge

**SupaCarb** filter cartridges feature a choice of rolled felt carbon impregnated media or a superior sintered carbon block, both 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** offers the very best in carbon cartridge technology. The unique sintered block **BP** series offers far superior reduction levels compared to most other carbon cartridges.
Combining this with Amazon Filters unique spun bonded pre-filtration media, the **SupaCarb** offers an extremely economical solution to many common liquid treatment applications.

**SupaCarb RP/XP** cartridges feature:
- Multiple layered carbon impregnated polyester felt
- One piece construction up to 1018mm (40")

The construction of **SupaCarb RP/XP** uses a polyester substrate, unlike many other rolled elements which use a Cellulose based support. This minimises the risk of microbiological contamination and allows its use in a wider range of chemical applications, because of its greater compatibility.

**SupaCarb BP** cartridges feature:
- Unique sintered block using both granular and powdered carbon
- Modular construction up to 1018mm (40") The modular **SupaCarb BP** uses a unique sintering process that combines both granular and powdered 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 filtration layers and a full range of welded end caps, it makes the **SupaCarb** the very best 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.

## SupaCarb Features & Benefits

- Large carbon surface exhibits excellent chlorine reduction characteristics
- 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 granular (GAC) style cartridges
- Identification embossed on every cartridge
- Construction eliminates fluidising, channeling or bypass

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

SUPACARB

# TECHNICAL DATA

**Materials of Construction**

| | RP/XP | BP |
|---|---|---|
| Filter Media: | Carbon impregnated polyester/polypropylene | Sintered block/ polypropylene |
| End caps: | Polypropylene (SOE only) | Polypropylene |
| Core: | Polypropylene | N/A |

**Dimensions, RP/XP/BP**

| | |
|---|---|
| Length: | See ordering guide |
| Outside Diameter: | 64mm |
| Core Diameter: | 28mm |

**Maximum Operating Conditions**

| | |
|---|---|
| Recommended Differential Pressure: | 1.5 Bar |
| Collapse Differential Pressure: | 4 Bar @ 20°C |
| Temperature: | 80°C |

**Sterilisation and Sanitisation***

| | |
|---|---|
| Steam: | 121°C for 15 mins (20 cycles) |
| Hot water: | 82°C for 30 mins (0.2 bar Δp max) |

*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. Refer to AFL technical data sheets.

**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 Data**

| CARTRIDGE TYPE | Max. flow rate for odour, taste and chlorine reduction (litres/min) | Recommended max. flow rate for >96% chlorine reduction (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.

Product guide available on request. **SUPACARB** cartridges are manufactured under strict control with batch number identification giving full traceability on all components.

# ORDERING GUIDE

**06 ○○ ○○○ –○○ ○ ○ A**

**CARBON/MEDIA**
- BP – Sintered Block
- RP – Rolled Felt
- XP – High Volume Rolled Felt

**MICRON RATING**
- 005 – 5.0µm

**LENGTH**

RP/XP
- 09 – 249mm
- 20 – 506
- 26 – 663
- 30 – 759
- 40 – 1013

BP
- 09 – 249mm
- 20 – 510
- 30 – 764
- 40 – 1018

**CONNECTIONS**
- N – None (RP/XP)
- 0 – DOE (BP)
- 2 – Code 2
- 3 – Code 3
- 7 – Code 7
- 8 – Code 8
- A – Code A
- B – Code B*
- S – Code S

**SEAL**
- P – PE Gasket (RP/XP, DOE only)
- B – Buna
- E – EPDM
- F – FEP/Silicone (SOE Only)
- S – Silicone
- V – Viton

**SPECIAL OPTIONS**
- S – St. St insert
- G – Glass filled end cap

*Code B - to fit Amazon 50 series housing only.

Example: 06RP005-203EA = Rolled Felt media, nominal 5.0µm rating, double length 508mm (20") long, code 3 end fitting with EPDM seal.

# INDUSTRIES AND APPLICATIONS

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

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# DuoLine

## Disposable Filter Bags

**DuoLine** filter bags have been designed to provide effective filtration for a wide range of applications using a variety of filter media. Available in needlefelt, monofilament and melt blown formats, DuoLine bags can be used for both pre and final filtration duties.

**DuoLine PP, PE, NY and NX** range filter bags adopt the use of needlefelt type media which provides both surface and depth filtration for maximum dirt capacity. Manufactured with welded seams, to provide greater security over the more common stitched alternatives.

- Polypropylene, Polyester, Nylon and Nomex needlefelt media, rated between 1 - 200µm
- Wide chemical compatibility

**DuoLine XP** bags multi layered construction provides greater dirt holding capacity with a consequent longer life over standard needlefelt materials, resulting in longer life between changes.

- Polypropylene needlefelt media, rated 1 - 100µm
- Extended life

**DuoLine NM** bags are made from nylon monofilament media, woven into a cloth that exhibits high flow capacity and selective solid separation.

- Nylon monofilament media, rated between 25 - 800µm
- Precision filtration at all ratings

**DuoLine HE** bags utilise multi layered melt blown media with built in pre-filter layers. They offer effective particle removal ratings of >98%+, providing positive and controlled solids removal for more critical applications.

- Polypropylene melt blown media, rated between 1 - 25µm
- High efficiency media for critical applications

**DuoLine OilSorb** range feature Oil Adsorbent media for the effective removal of trace oil from automotive paint systems.

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.

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.

## DuoLine Bags Features & Benefits

- Micron ratings available from 1 to 800µm for wide ranging filtration needs
- Optional moulded polypropylene flange with handles for effective sealing and ease of handling
- Welded Needlefelt as standard for 4¼ and 7" ring sizes
- Wide selection of filter media and support ring materials
- Identification printed on every bag
- Silicone free for use in automotive paint applications

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

DuoLine

DUOLINE

# Technical Data

### Materials of Construction

| | |
|---|---|
| Filter Media: | **PP/XP/SO** – Polypropylene Needlefelt<br>**PE** – Polyester Needlefelt<br>**NY** – Nylon Needlefelt<br>**NX** – Nylon Monofilament<br>**HE/HO** – Polypropylene Meltblown |
| Support Method: | Zinc plated carbon steel ring<br>Stainless Steel (304) ring<br>Moulded polypropylene sealing flange |

### Maximum Operating Conditions

| | | |
|---|---|---|
| Temperature: | 95°C | PP Media |
| | 135°C | PE Media* |
| | 135°C | NY Media* |
| | 190°C | NX Media |
| | 135°C | NM Media* |
| Max. Differential Pressure: | 4 Bar | All media |
| Recommended Differential: | 1.75 Bar | All media |

### Dimensions

| Bag Size | Length (mm) | Ring Diameter (mm) | Capacity (Litres) | Surface Area ($m^2$) | Flow Rate ($m^3/hr$)** |
|---|---|---|---|---|---|
| 1M (P3) | 200 | 108 | 1.8 | 0.068 | 3 |
| 2M (P4) | 355 | 108 | 3.2 | 0.120 | 6 |
| 1A | 420 | 140 | 6.4 | 0.185 | 9 |
| 2A | 810 | 140 | 12.5 | 0.356 | 18 |
| 3A | 1220 | 140 | 19.0 | 0.536 | 28 |
| 1G (P1) | 420 | 178 | 10.0 | 0.235 | 12 |
| 2G (P2) | 810 | 178 | 20.0 | 0.453 | 25 |
| 3G | 1220 | 178 | 30.0 | 0.682 | 40 |

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

** 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

**19 ○○ ○○○ – ○ ○ ○ ○ P**

**Media**

- PP–Polypropylene Needlefelt
- PE–Polyester Needlefelt
- XP–Extended Life Polypropylene
- NY–Nylon Needlefelt
- NX–Nomex Needlefelt
- NM–Nylon Monofilament
- HE–High Efficiency Polypropylene Meltblown
- SO–Oil Adsorbent PP Needlefelt
- HO–Oil Adsorbent PP Meltblown

**Micron Rating**

Needlefelts
- 001–1.0µm
- 005–5.0
- 010–10
- 025–25
- 050–50
- 100–100
- 200–200

**Micron Rating**

HE Only
- 001–1.0µm
- 002–2.0
- 005–5.0
- 010–10
- 025–25

**Micron Rating**

NM Only
- 025–25µm
- 050–50
- 075–75
- 100–100
- 150–150
- 200–200
- 300–300
- 400–400
- 600–600
- 800–800

**Length**

- 1–Single
- 2–Double
- 3–Triple (A & G type only)

**Ring Type**

- M–4.25"
- A–5.50"
- G–7.00"

**Option 1**

- L–Zinc Plated Ring + Loops
- T–St. Steel Ring + Loops
- Y–Polypropylene Moulded sealing flange (M & G type only)
- B–RP Moulded flange (G type only)

**Option 2**

- E–Standard (Silicone Free)

Other special options are available on request

Outer support scrims are available for all bags using Nylon Monofilament mesh – please refer to the sales office.

Example: 19PP025-2GTEP = Polypropylene needlefelt media, Nominal 25µm rating, Double length, 7" diameter, Stainless steel support ring with loops, Silicone free

# Industries and Applications

| | |
|---|---|
| **Pharmaceutical** | • Bulk transfer, Catalyst removal, Powder trap |
| **Cosmetics** | • Creams, Lotions, Gels, Filling head trap filter |
| **Metal Finishing** | • Wash solutions, Paints, Resins, Varnishes |
| **Water Treatment** | • Membrane protection (Reverse osmosis, nano), Resin trap, Potable water |
| **Automotive** | • Cooling fluid, Electrophoretic paints, Degreasing systems, Phosphate filter |

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# 51 Series

51 Series

## Single Stack Filter Housing

The **51 Series** single cartridge housing is renowned for its high quality design and manufacture. With the ability to accept both standard Double Open End and Single Open End cartridges, this single stack housing with Vee clamp closure has proved very successful in a wide variety of applications within the liquids processing industry.

The **51 Series** 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".

**Product Features:**

- Quick release Vee Clamp Closure for easy opening
- Lightweight, high specification investment cast head
- 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
- Available in 316L stainless steel or Hastelloy C22 for maximum compatibility
- 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, 10 bar g gas

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

## 51 Series 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 PFTE washer
- Unique interchangeable configuration enables choice of SOE 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 C22 Hastelloy

# 51 Series

## Technical Data

### Maximum Operating Conditions

Pressure Range: Liquid: FV / 10 bar g
Gas: FV / 10 bar g
Temperature Range: -10°C / 150°C

### Materials of Construction

Body and Closure: 316L St.Steel
Hastelloy C22
Clamp: 304 St.Steel
Seal: Ethylene Propylene

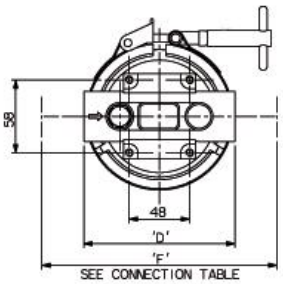
### Finish

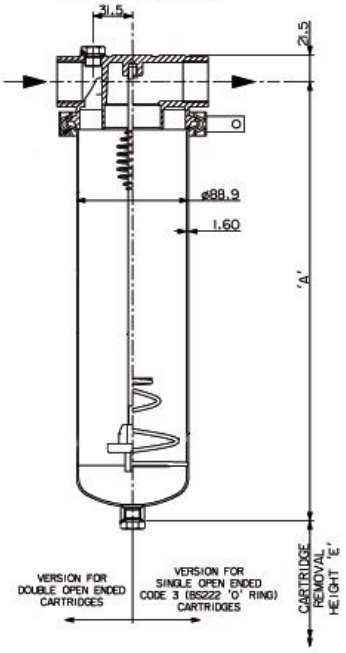
Vessel: Externally polished sump, bead blast head

### Connections

Inlet/Outlet: 1" BSPF
Vent: ¼" BSPF with Plug
Drain: ¼" BSPF with Plug

| Model | Dimensions | | | | | Volume (Litres) | Dry Weight |
|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | | |
| 5" | 214 | - | - | 120 | 173 | 1.5 | 2.0 |
| 10" | 341 | - | - | 120 | 300 | 2.2 | 2.5 |
| 20" | 595 | - | - | 120 | 554 | 3.7 | 3.5 |
| 30" | 849 | - | - | 120 | 808 | 5.2 | 4.5 |




**PED Status:** Compliant with 97/23/EC
Fluid Groups: Gas Group 2
Liquids Group 1 + 2
Marking: 10" & 20": Sound Engineering Practice
30": CE Marked
Exceptions: Group 1 liquids - Explosive
**ATEX:** Compliant 94/9/EC, 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

**No Of Stacks**
01 - 1 Stack

**Cartridge End Cap Style**
0 - Code 0
B - Code B
3 - Code 3
7 - Code 7
I - MCY1000 Insert*[1]

**Mounting**
N - None
E - Bracket
K - Double Vent
L - Double Vent and Bracket

**Connection Type**
B - BSPF (1" Only)
C - BS4504 Flange PN16
H - ANSI Flange 150#
L - Tri Clamp
M - DIN11851 Coupling
N - RJTM Coupling
P - SMSM Coupling
R - IDFM Coupling
S - DIN2633 Flange
T - NPTF (1" Only)

**Finish**
C - Externally polished sump, bead blast head
D - Externally polished sump, electropolished head
J - Externally polished sump, pickle electropolished and bead blast head (Hastelloy Only)

**51**

**Cartridge Length**
0 - 5"
1 - Single 10"
2 - Double 20"
3 - Triple 30"

**Closure Style**
V - Pressed Vee Clamp

**Connection**
10 - 1"
15 - 1 ½"

**Materials**
1 - 316 st.st (L Grade)
4 - Hastelloy C22

**Seal**
E - EPDM
F - FEP/Silicone
S - Silicone
V - Viton

Example: 510110VN10B1CE = 51 Series, 1 x 10" DOE cartridge, pressed 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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# 64 Series

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## Multi Stack Filter Housing

The 64 Series Multi cartridge housing is designed to accommodate 3, 5, 10 or 15 stacks of filters up to 40" long. The centre positioned, split shell opening style is equipped with a Cast Vee clamp as standard for pressures ranging from FV - 10 bar g. Leg mounted with the split shell opening, this is the ideal choice when using Single Open End plug in style cartridges. The simple to lift off lightweight dome allows full and easy access to the cartridges for rapid changeouts. With the free draining clean chamber, the 64 Series housings suit processes where cleanliness and ease of operation are essential. Accepting both standard Double Open End and Single Open End cartridges, this leg mounted, free standing housing will suit most applications. Bolted closures are an option available for all models.

The 64 Series will accept the full range of Amazon and industry standard cartridges with nominal lengths of 20, 30 and 40".

**Product Features:**

- Split body design allows easy access to cartridges on changeout
- Dished bottom end allows complete drainage of clean chamber, leading to improved system cleanliness
- Adjustable strap legs allow the user to set inlet and outlet heights
- Vee clamp closures use unique 'W' style seal for reliable leak free operation
- High quality cast Vee clamps for safety and security
- Cast compression nut with integal PTFE washer for easy, hand tight cartridge sealing
- Wide range of connection sizes and types available
- Universal cup allows the use of plug in Code 3, Code 8 and Code A) and DOE cartridge styles in the same housing
- PED and ATEX Compliant

| Accessories | |
|---|---|
| Pressure Gauge and Vent Valve Kit | |
| Pressure Gauge and Auto Vent Valve Kit | |
| Ball Valve and Nipple | |

## 64 Series Features and Benefits

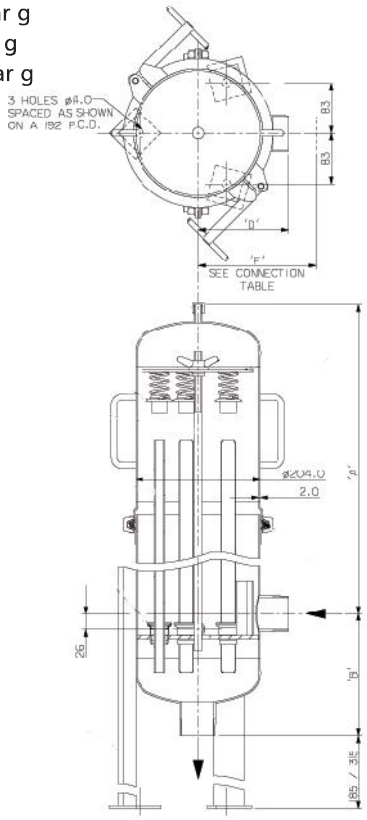
- Large selection of housing sizes available so suitable for a wide range of processes
- Integral vent, clean and dirt drains to aid efficient filter changeout
- Each housing hydrostatically pressure tested
- Internally and externally electropolished as standard
- Each housing etched with a unique serial number for full traceability
- Full housing customisation service available
- Universal cup allows the use of plug in (Code 3, Code 8 & Code A) or DOE cartridge styles in the same housing

64 Series

64 SERIES

# TECHNICAL DATA

| Max Operating Conditions | 6403 | 6405 | 6410 | 6415 |
|---|---|---|---|---|
| Liquids: Vee clamp: | 10 bar g | 10 bar g | 10 bar g | 7 bar g |
| Bolted closure: | FV/10 bar g | FV/10 bar g | FV/10 bar g | FV/10 bar g |
| Gases: Vee clamp: | 6 bar g | 4.5 bar g | 2 bar g | 1.5 bar g |
| Bolted closure: | FV/6 bar g | FV/4.5 bar g | FV/2 bar g | FV/1.5 bar g |
| Temperature Range: | -10°C / 150°C | | | |




## Materials of Construction

| | |
|---|---|
| Body: | 316L St.Steel |
| Closure: | Vee Clamp - 304 St.Steel<br>Screw Clamp - Zinc Plated carbon steel<br>(Optional stainless steel) |
| Vessel Finish: | Electropolished |

| Connections | 6403-05 | 6410 | 6415 |
|---|---|---|---|
| Inlet/Outlet: | 2"BSPM | 3" Flange | 4" Flange |
| Vent: | ¼" BSPM | ¼" BSPM | ½" BSPM |
| Drain: | ½" BSPM | ½" BSPM | 1" BSPM |

Technical drawings for each housing showing dimensions, volume and weights available on request.

| | |
|---|---|
| **PED Status** | Compliant with 97/23/EC |
| Fluid Groups: | Liquid Groups 1 + 2<br>Gas Group 2 |
| Marking: | CE |
| Exceptions: | Group 1 liquids - Explosive |
| **ATEX:** | Compliant 94/9/EC, level CE Ex II 2 GD c X |

# ORDERING GUIDE

**64**

**Number Of Stacks**
- 03 - 3 Stack
- 05 - 5 Stack
- 10 - 10 Stack
- 15 - 15 Stack

**End Cap Style**
- 0 - Code 0
- 7 - Code 7
- 8 - Code 8
- A - Code A
- U - Universal

**Mounting**
- B - Fixed Legs
- C - Adjustable Legs *6403 & 6405 Only

**Connection Type**
- A - BSPM
- C - BS4504 Flange PN16
- G - Table 'E' Flange
- H - ANSI Flange 150#
- K - Stub Pipe
- L - Tri Clamp
- M - DIN11851 Coupling
- N - RJTM Coupling
- P - SMSM Coupling
- R - IDFM Coupling
- S - DIN2633 Flange
- U - NPTM *2" Only

**Finish**
- E - Electropolished

**Cartridge Length**
- 2 - 20" *6403 & 6405 Only
- 3 - 30"
- 4 - 40"

**Closure**
- A - Cast Vee Clamp
- E - Dome cover with Screw Clamps
- T - Dome cover with St.Steel screw clamps

**Connection Size**
- 3-5 Stack
  - 20 - 2"
  - 30 - 3" *6405 Only
- 10-15 Stack
  - 30 - 3"
  - 40 - 4"

**Materials**
- 1 - 316 st.st (L Grade)

**Seal**
- E - EPDM
- F - FEP/Silicone *Screw clamps only
- S - Silicone *not available on 6415
- V - Viton

Example: 640520AC20A1EE = 64 Series, 5 x 20" DOE cartridge, Cast vee clamp closure, Adjustable Legs, 2" BSPM connections. 316L St.Steel construction with EPDM gaskets, electropolished all over.
Note: Not all options are available on every housing, please refer to Sales Office.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# 66 Series

## High Flow Liquid and Gas Housing

The **66 Series** housing range is specifically designed for use with the large bore **SupaPleat HFC** cartridge to provide a filtration system that offers maximum efficiency, high flow rates and long life. This high quality electropolished 316L stainless steel housing is easy to use and is suited to many filtration processes across a range of industries. Available in a selection of sizes and with a choice of connections and closure types the optimum housing can be provided for each application.

The **66 Series** housing is available to be used with 20", 40" or 60" cartridges. It can be installed in either the vertical or horizontal position and can be supplied with fixed or adjustable legs. This ensures that the housing can normally be used even where space or changes to inlet and outlet pipework are limited.

### Product Features

- Designed for high flow systems
- Multi cartridge units available up to 30 round
- Easy and quick cartridge change-out
- Electropolished inside and out
- Available for 20", 40" or 60" filters
- Each housing is hydrostatically pressure tested
- Available with 3"or 4" connections and in a range of types
- Can be supplied with adjustable or fixed legs where required
- Rated at 10 bar g liquid, 3 bar g gas
- PED and ATEX Compliant

| Accessories | |
|---|---|
| Pressure Gauge and Vent Valve Kit | |
| Pressure Gauge and Auto Vent Valve Kit | |
| Ball Valve and Nipple | |

## 66 Series Features and Benefits

- Designed for use with the **SupaPleat HFC** cartridge for maximum flow rates
- Utilises large bore cartridge allowing quick and easy filter change out
- Can be used vertically or horizontally with or without legs
- Flexible design allows use of either V band or Rathmann clamp closure
- Full housing customisation service available

66 Series

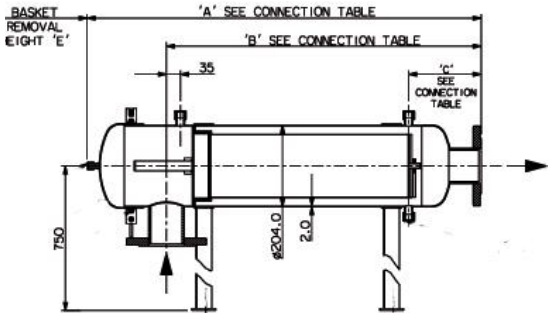
66 SERIES

# TECHNICAL DATA

## Maximum Operating Conditions

Pressure Range: Liquid: Vee clamp: 10 bar g
Bolted: FV / 10 bar g
Gas: Vee clamp: 3 bar g
Bolted: FV / 3 bar g

Temperature Range: -10°C / 150°C




## Materials of Construction

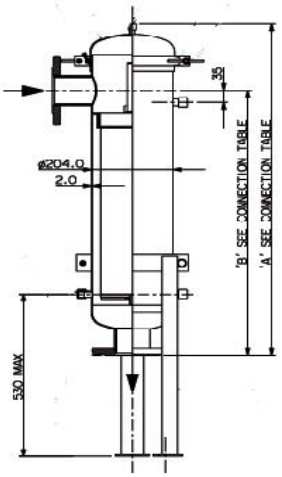
Body: 316L St.Steel
Closure: Vee Clamp - 304 St. Steel
Bolts - Zinc plated carbon steel
(Optional stainless steel)

## Finish

Vessel: Electropolished

## Connections

Inlet/Outlet: 3" Flanged
Vent: Horizontal: ½" BSPM




| Model | Dimensions (Nominal) | | | | | Volume (Litres) | Dry Weight (Kg) |
|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | | |
| 66012CAC30C1EE | 983 | 787 | 181 | 200 | 500 | 27.4 | 34.4 |
| 66014CAC30C1EE | 1498 | 1302 | 181 | 200 | 1000 | 43.5 | 41.9 |
| 66016CAI30C1EE | 1998 | 1802 | 181 | 200 | 1500 | 59.1 | 41.5 |

## PED Status

Compliant with 97/23/EC
Fluid Groups: Liquids Group 1 + 2
Gas Group 2
Marking: CE
Exceptions: Group 1 liquids - Explosive
**ATEX:** Compliant 94/9/EC, level CE Ex II 2 GD c X

# ORDERING GUIDE

**NUMBER OF STACKS**
01 - 1 Stack

(Available up to 30 round - please contact the Sales Office)

**END CAP STYLE**
C - HFC Cartridge

**MOUNTING**
I - Adjustable Legs - Horizontal * 40" and 60" Only
C - Adjustable Legs - Vertical * 20" and 40" Only

**CONNECTION TYPE**
A - BSPM
C - BS4504 Flange PN16
G - Table 'E' Flange
H - ANSI Flange 150#
K - Stub Pipe
L - Tri Clamp
M - DIN11851 Coupling
N - RJTM Coupling
P - SMSM Coupling
R - IDFM Coupling
S - DIN2633 Flange

**FINISH**
E - Electropolished

66

**CARTRIDGE LENGTH**
2 - 20"
4 - 40"
6 - 60"

**CLOSURE**
A - Cast Vee Clamp
H - Hinged plus bolts
W - Hinged + St.St bolts

**CONNECTION SIZE**
20 - 2"
30 - 3"
40 - 4"

**MATERIALS**
1 - 316 st.st (L Grade)

**SEAL**
E - EPDM
F - FEP/Silicone *Flat cover only
S - Silicone
V - Viton

Example: 66014CAI30C1EE= 66 Series, 1 x 40" HFC cartridge, Cast vee clamp closure, Adjustable legs - Horizontal, 3" BS4504 Flange PN16 connections. 316L St.Steel construction with EPDM gaskets, electropolished all over.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