



## Bag Filtration

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EXPERTS IN FILTRATION

## Bag Filtration

From batch process to bulk solids removal, bag filters provide the most cost-effective solution for large flow rates, high viscosity and challenging compatibility applications.





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# Typical Applications

Simple to use and easy to install, bag filters have been successfully integrated into a wide range of applications, providing a versatile and consistent filtration method, across many industries; from paints and lacquers to food and beverage processing.

With different styles, materials and sizes available, bag filtration is ideal for applications where large volumes of fluid need processing and particulate or dirt holding are high.



**Cosmetics Manufacturing**



**High Flow Water**



**Paints & Inks Manufacturing**



# How to Select Your Bag Filter

Four simple steps are all it takes to select a bag filter.

**1**  
Grade

**4**  
Neck Seal

**2**  
Micron  
& Media

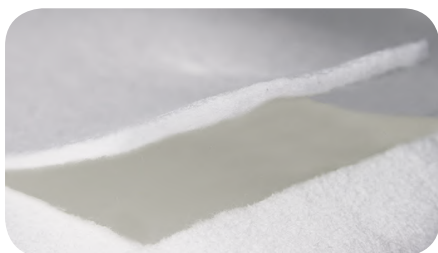
**3**  
Size

## Need a Bespoke Solution?

With a variety of different neck styles, materials and bag lengths our bespoke bag service can meet the majority of application requirements.

## **1** Filtration Grade

Select the filtration grade suitable for your application.



### Economic

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



### Standard

Effective pre-filter layer extends service life.



### Premier

Multi-layer construction for highly efficient particle removal.

## 2 Micron & Media

Select media based on required performance, micron and reusability.

## 3 Size

Choose the bag size based on the expected flow rate of the application.

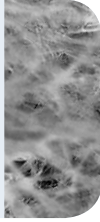
## 4 Neck Seal

Select a neck ring based on suitability for an existing housing or the required seal.

Economic Polypropylene

Suits majority of general applications

1-200µm 95°C



Size 3  
Up to 75 LPM

Size 4  
Up to 150 LPM

Size 1  
Up to 300 LPM

Size 2  
Up to 600 LPM

Economic Polyester

High temperature compatibility

1-200µm 150°C



Economic Nylon

Easy to wash and re-use

50-1000µm 95°C



Standard Polypropylene

Dual layered for increased service life

1-100µm 95°C



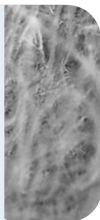
Size 1  
Up to 250 LPM

Size 2  
Up to 500 LPM

Premier Polypropylene

Highest efficiency graded filtration

0.5-25µm 95°C



Size 1  
Up to 200 LPM

Size 2  
Up to 400 LPM



Polypropylene or stainless steel ring



Industry favourite polypropylene flanged neck



Polypropylene flared neck for most positive seal



Polypropylene flanged neck for a positive housing seal



Polypropylene flanged neck for a positive housing seal



## Economic Range

### 1-1000 micron

Utilising a traditional single layer manufacturing method, the SPECTRUM Economic range offers the greatest option in terms of filtration media and neck seal type, providing a suitable solution for most bulk solid removal applications.



Economic felt bags also benefit from an all welded seam construction, meaning they are capable of holding several kg's whilst maintaining filter integrity. Heavy duty handles make changeouts simple, avoiding operator contact with the unwanted filtrate.





## Polypropylene Felt (P)

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

## Polyester Felt (E)

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

## Nylon Mesh (N)

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



## Compliance

FDA Compliant Media  
Manufactured from silicone-free materials  
WRAS Approved



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



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



Optimal flanged neck for most positive seal (P)



## Neck Material

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

## Max. Operating Temperature

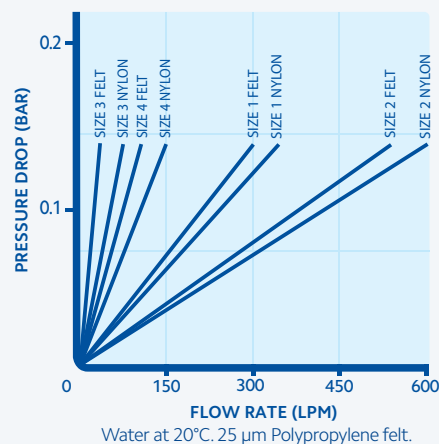
Polypropylene - 95°C

Polyester - 150°C

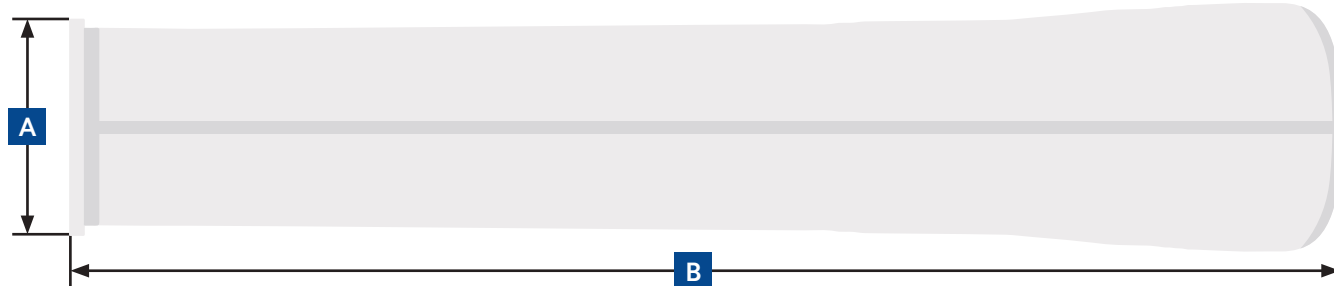
Nylon - 95°C

## Max. Operating Pressure Differential

1 bar



## Dimensions & Packaging



Bag Size	Dimensions		
	A (mm)	B (mm)	Area (m²)
3	102	229	0.07
4	102	356	0.12
1	178	406	0.23
2	178	813	0.41

Box Qty	Packaging		
	Box Weight (kg) Polypropylene	Box Weight (kg) Polyester	Box Weight (kg) Nylon
50	3	3	2
50	4	4	2
50	8	8	3
50	15	15	4

## Part Number

Code	Neck	Media	Micron	Size
EB	E, S, P, ES	Polypropylene (P)	1, 5, 10, 25, 50, 100, 200	3, 4, 1, 2
		Polyester (E)		
		Nylon (N)	50, 100, 150, 200, 300, 400, 500, 800, 1000	

e.g. EBSP-5-2





## Standard Range

### 1-100 micron

The Standard all welded construction of the SPECTRUM bag filter range prevents contamination bypass sometimes associated with stitching pin holes. Featuring a double-layer graded density construction, the first



“pre-filter” layer traps larger particles and gelatinous contaminants, which often cause premature blinding, with the second, finer filtration layer effectively trapping unwanted particulate.





## Media

### Polypropylene Felt (P)

- Reduced changeout, waste and process downtime
- Depth characteristics provide high dirt loading
- Service life increased with dual layer staged media
- Glazed surface finish eliminates fibre migration
- Broad chemical compatibility
- All welded construction

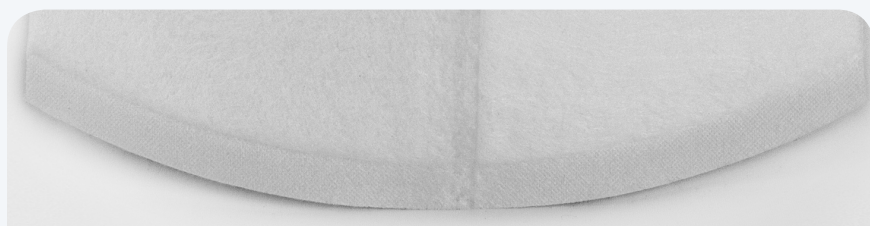


## Compliance

FDA Compliant Media

Manufactured from silicone-free materials

WRAS Approved



Fully welded seams for improved strength & efficiency



## Neck Seal



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



## Specification

Neck Material

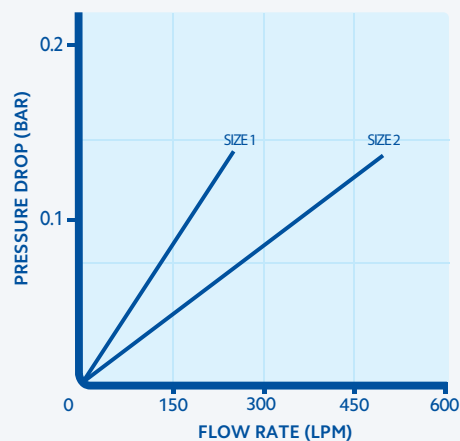
Polypropylene

Max. Operating Temperature

95°C

Max. Operating Pressure Differential

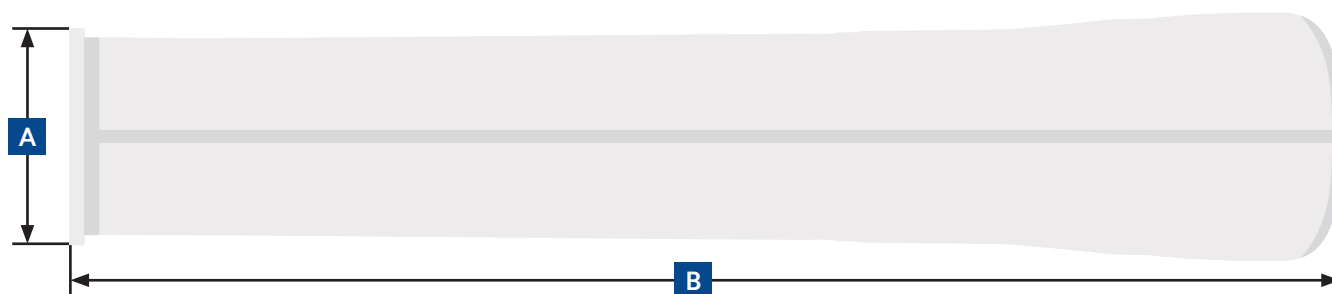
1 bar



Water at 20°C. 25 µm Polypropylene felt.



## Dimensions & Packaging



Bag Size	Dimensions		
	A (mm)	B (mm)	Area (m²)
1	178	406	0.23
2	178	813	0.41

Packaging	
Box Qty	Box Weight (kg)
25	8
25	15

## Part Number

Code	Media	Micron	Size
SB	Polypropylene (P)	1, 5, 10, 25, 50, 100	1, 2

e.g. SBP-5-2





## Premier Range

### 0.5-25 micron

Where high efficiency bag filters are required, the SPECTRUM Premier range is the perfect choice for accurate process liquid filtration from 0.5 to 25 micron. A multi-layer construction ensures high levels of contaminant holding and highly efficient graded-



density filtration. The microfibre media coupled with the flanged neck seal lessens the risk of particle bypass. All layers are sewn together to the neck ring providing a strong, reliable and effective product capable of finer filtration at high process flow rates.





## Media

### Polypropylene Felt (P)

- Multi-layered construction passes filtrate through a series of filtration layers to deliver high efficiency and maximise bag life
- Support, pre-filtration and microfibre media are internally sewn together to prevent bypass and provide strength
- Glazed finish on all Premier bags reduces fibre migration
- Media provides excellent oil absorption capabilities



### Compliance

FDA Compliant Media

Manufactured from silicone-free materials

WRAS Approved



## Neck Seal



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



## Specification

### Neck Material

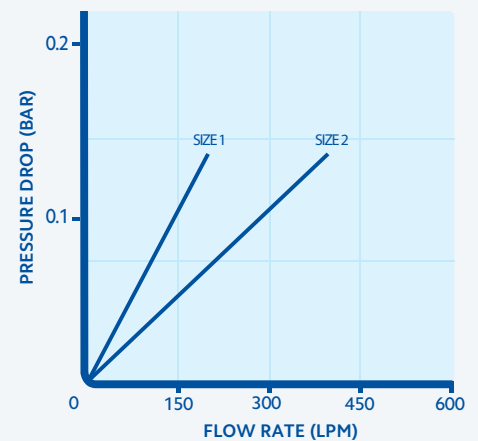
Polypropylene

### Max. Operating Temperature

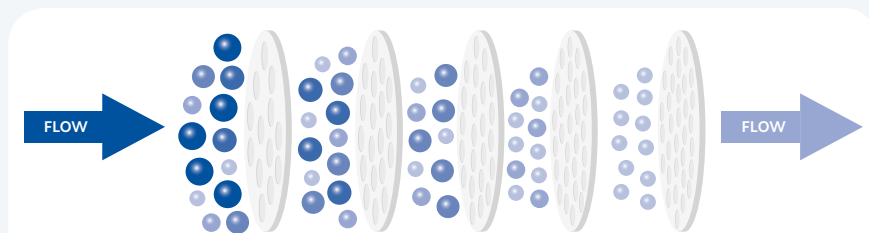
95°C

### Max. Operating Pressure Differential

1 bar



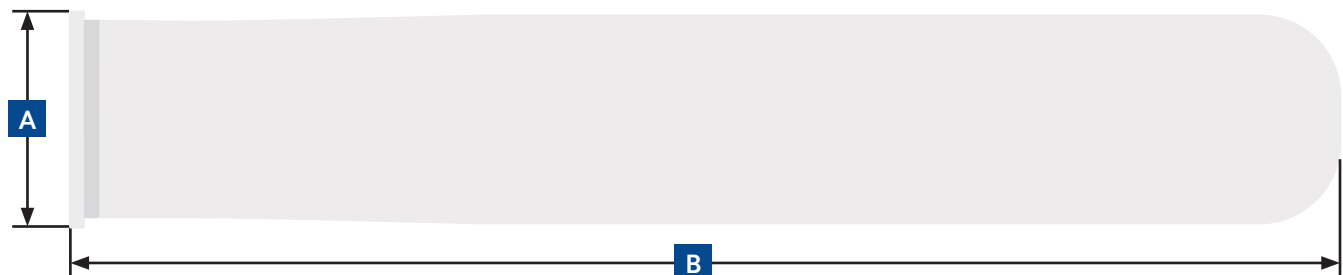
Water at 20°C. 25 µm Polypropylene felt.



The above represents the particle removal efficiency through the multi-layers of the Premier polypropylene felt media. The Premier bag has an efficiency rating of 93%.



## Dimensions & Packaging



Bag Size	Dimensions		
	A (mm)	B (mm)	Area (m²)
1	178	406	0.23
2	178	813	0.41

Packaging	
Box Qty	Box Weight (kg)
25	8
25	15

## Part Number

Code	Media	Micron	Size
PB	Polypropylene (P)	0.5, 1, 5, 10, 25	1, 2

e.g. PBP-10-2



# Selecting your bag housing

With a range of closure and connection styles for flow rates up to 240m<sup>3</sup> per hour, the Inox stainless steel bag housings are designed to suit a variety of application and operator requirements.

Constructed from 316L stainless steel, the heavy-duty bag housings offer durability and resistance to high temperatures, pressures and aggressive chemicals. As standard all housings are built to include inlet and outlet pressure gauge ports to help

monitor system performance, vent and drain ports for efficient filter changeout with adjustable mounting legs for installation ease and housing stability.



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## Standard

Available in industry standard sizes 1,2,3 and 4.

### Key features:

- Secure V-band clamp closure mechanism
- Adjustable legs fitted as standard
- Corrosion resistant polycoat finish



## Premier

Complete with adjustable legs and superior features, these housings are available in size 1 and 2.

### Key features:

- Heavy duty cast lid with swing-bolt top closure simplifies housing usage and improves operator safety
- Wide range of port options available from 2- 3" BSPT-M and DN flanges
- Supplied complete with two pressure gauges to measure differential pressure ( $\Delta P$ )



## Bespoke

Tailored engineered housings and components manufactured to suit challenging application requirements.

### Options:

- Inlet and outlet orientation
- Specialist coatings for compatibility
- Custom lined baskets
- Multi-round industrial housings with Davit arm lifting assembly

# Flow rates up to 100 LPM

## Inox Size 3 & 4 Housing

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

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



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# Part Number

Code	No. of Bags	Bag Size	Port Size	Gauge Ports	Gauges	Mounting Legs	Weight (kg)
SBH-SPC-1-3-1.5-GP-ML	1	3	1.5"	✓	Optional	✓	5
SBH-SPC-1-4-1.5-GP-ML	1	4	1.5"	✓	Optional	✓	10



### Specification

**Pressure Rating**  
10 bar

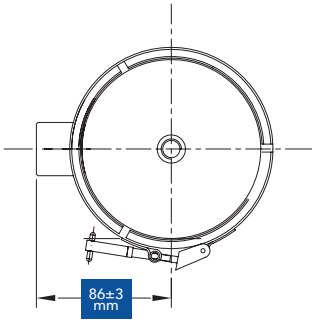
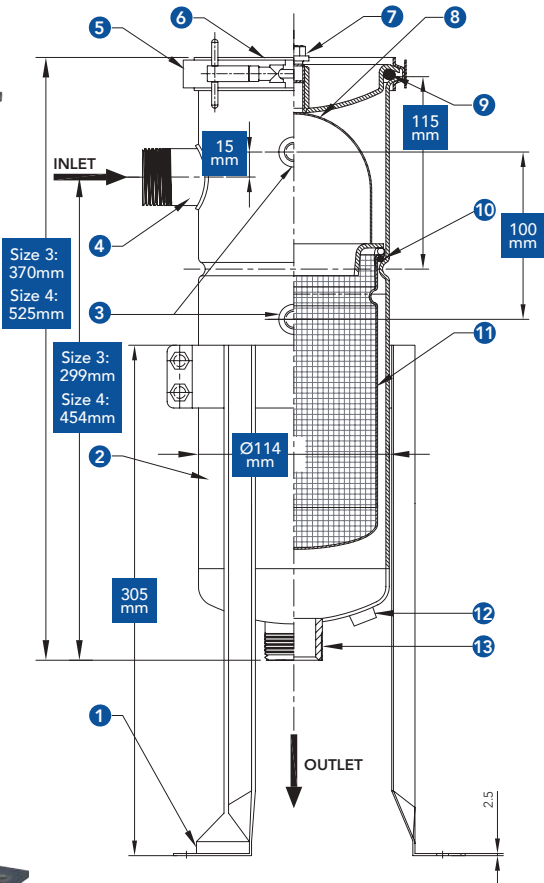
**Material**  
Polycoated 316L Stainless Steel

**Temperature Rating**  
120°C

## Standard Housing (SBH)



### Dimensions



No.	Name	Material
1	Adjustable Legs	304 SS
2	Body	316L SS
3	¼" BSPF Gauge Ports	316L SS
4	BSPM Inlet Port	316L SS
5	V-band Clamp	304 SS
6	Lid	316L SS
7	¼" BSPF Vent Port	316L SS
8	Bag Hold Down Device	316L SS
9&10	Lid O-ring & Basket Seal	Buna-N
11	Basket (⅛" Perforated)	316L SS
12	½" BSPF Drain Port	316L SS
13	BSPM Outlet Port	316L SS



### Options



**SPECTRUM Gauges (PG3)**  
11 bar ¼" glycerine filled stainless steel back mounted pressure gauge.





# Flow rates up to 300 LPM

## Inox Size 1 Housing

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

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

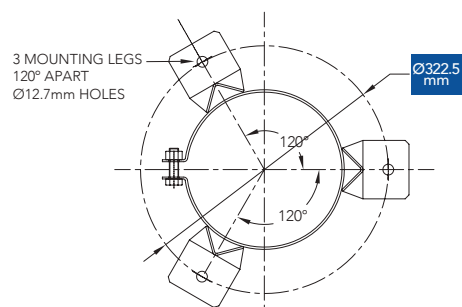
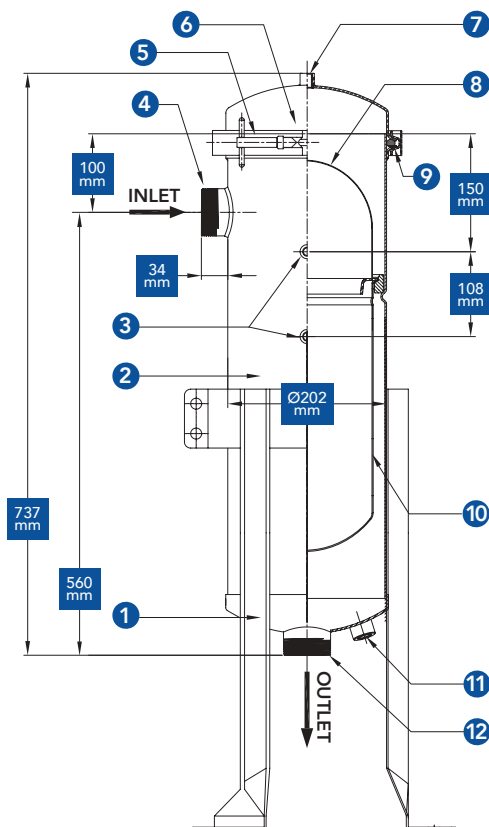


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### Standard Housing (SBH)

#### Dimensions



No.	Name	Material
1	Adjustable Legs	304 SS
2	Body	316L SS
3	¼" BSPF Gauge Ports	316L SS
4	BSPM Inlet Port	316L SS
5	V-band Clamp	304 SS
6	Lid	316L SS
7	¼" BSPF Vent Port	316L SS
8	Bag Hold Down Device	316L SS
9	Lid O-ring	Buna-N
10	Basket (¼" Perforated)	316L SS
11	½" BSPF Drain Port	316L SS
12	BSPM Outlet Port	316L SS

#### Options



#### SPECTRUM Gauges (PG3)

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

## Part Number

Code	No. of Bags	Bag Size	Port Size	Gauge Ports	Gauges	Mounting Legs	Weight (kg)
SBH-SPC-1-1-2-GP-ML	1	1	2" BSPM	✓	Optional	✓	19
SBH-SPC-1-1-3-GP-ML	1	1	3" BSPM	✓	Optional	✓	19
PBH-SPC-1-1-2-GP-ML	1	1	2" BSPM	✓	✓	✓	29
PBH-SPC-1-1-3-GP-ML	1	1	3" BSPM	✓	✓	✓	29
PBH-SPC-1-1-2F-GP-ML	1	1	2" DN50	✓	✓	✓	34
PBH-SPC-1-1-3F-GP-ML	1	1	3" DN80	✓	✓	✓	34



### Specification

**Pressure Rating**  
10 bar

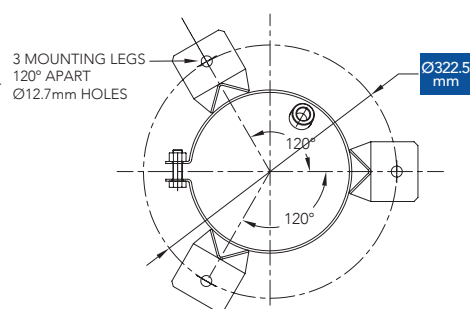
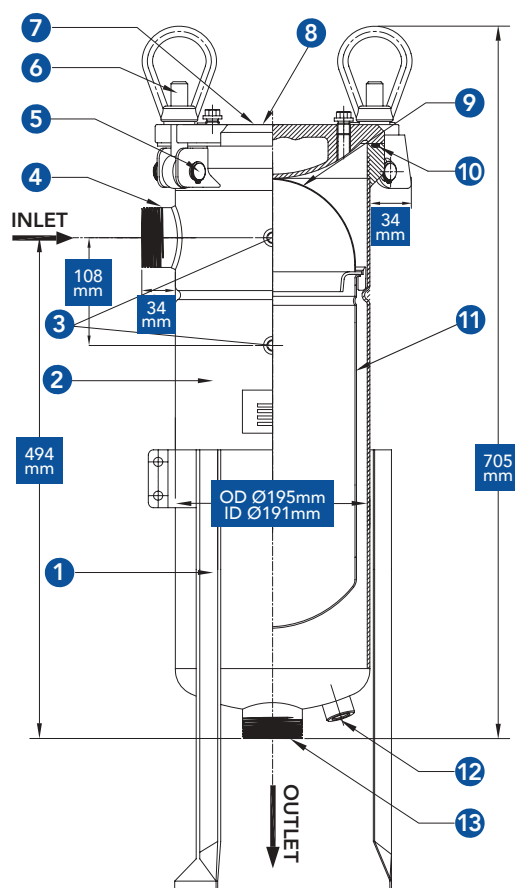
**Material**  
Polycoated 316L Stainless Steel

**Temperature Rating**  
120°C

## Premier Housing (PBH)



### Dimensions



No.	Name	Material
1	Adjustable Legs	304 SS
2	Body	316L SS
3	1/4" BSPF Gauge Ports with Gauges	316L SS
4	BSPM/Flange Inlet Port	316L SS
5 & 6	Swing-bolt Nut & Pin	316L SS
7	1/4" BSPF Vent Port	316L SS
8	Lid	316L SS
9	Bag Hold Down Device	316L SS
10	Lid O-ring	Buna-N
11	Basket (1/4" Perforated)	316L SS
12	1/2" BSPF Drain Port	316L SS
13	BSPM/Flange Outlet Port	316L SS



### Options



### Flange Connections

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

# Flow rates up to 600 LPM

## Inox Size 2 Housing

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

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

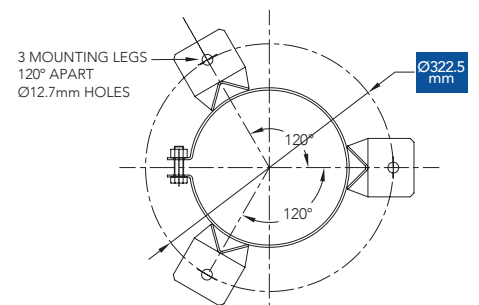
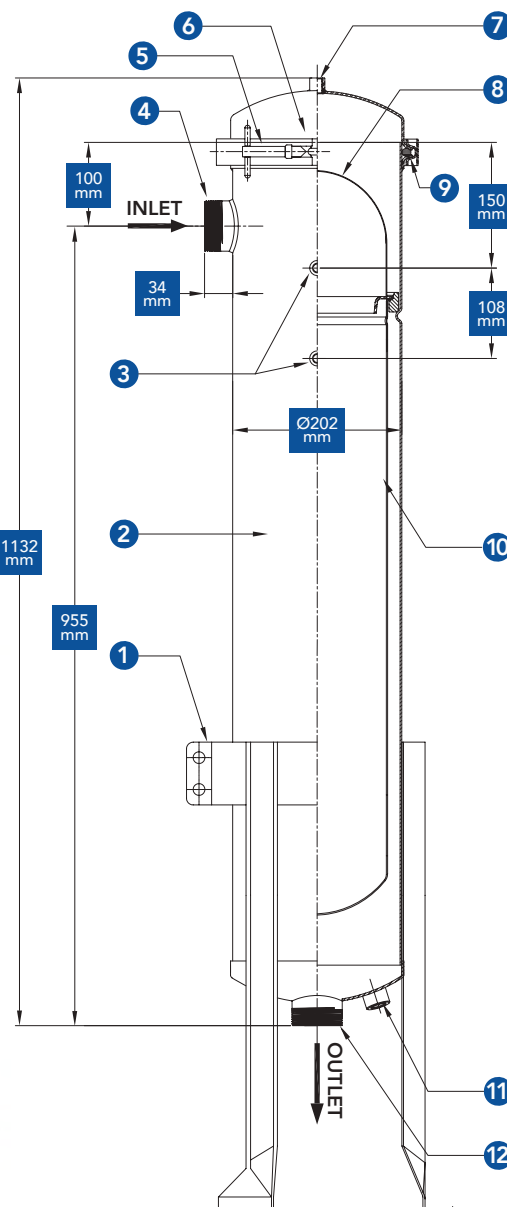


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### Standard Housing (SBH)

#### Dimensions



No.	Name	Material
1	Adjustable Legs	304 SS
2	Body	316L SS
3	¼" BSPF Gauge Ports	316L SS
4	BSPM Inlet Port	316L SS
5	V-band Clamp	304 SS
6	Lid	316L SS
7	¼" BSPF Vent Port	316L SS
8	Bag Hold Down Device	316L SS
9	Lid O-ring	Buna-N
10	Basket (½" Perforated)	316L SS
11	½" BSPF Drain Port	316L SS
12	BSPM Outlet Port	316L SS

#### Options



#### SPECTRUM Gauges (PG3)

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



# Part Number

Code	No. of Bags	Bag Size	Port Size	Gauge Ports	Gauges	Mounting Legs	Weight (kg)
SBH-SPC-1-2-2-GP-ML	1	2	2" BSPM	✓	Optional	✓	26
SBH-SPC-1-2-3-GP-ML	1	2	3" BSPM	✓	Optional	✓	26
PBH-SPC-1-2-2-GP-ML	1	2	2" BSPM	✓	✓	✓	35
PBH-SPC-1-2-3-GP-ML	1	2	3" BSPM	✓	✓	✓	35
PBH-SPC-1-2-2F-GP-ML	1	2	2" DN50	✓	✓	✓	40
PBH-SPC-1-2-3F-GP-ML	1	2	3" DN80	✓	✓	✓	40



## Specification

**Pressure Rating**  
10 bar

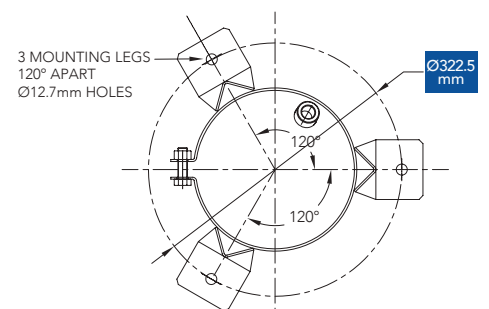
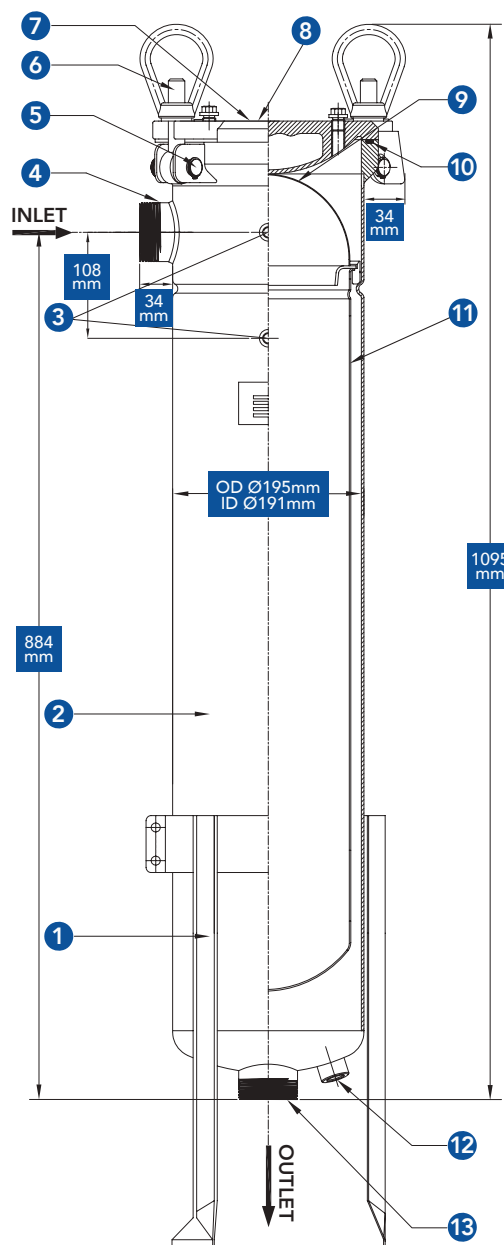
**Material**  
Polycoated 316L Stainless Steel

**Temperature Rating**  
120°C

## Premier Housing (PBH)



## Dimensions



No.	Name	Material
1	Adjustable Legs	304 SS
2	Body	316L SS
3	¼" BSPF Gauge Ports with Gauges	316L SS
4	BSPM/Flange Inlet Port	316L SS
5 & 6	Swing-bolt Nut & Pin	316L SS
7	¼" BSPF Vent Port	316L SS
8	Lid	316L SS
9	Bag Hold Down Device	316L SS
10	Lid O-ring	Buna-N
11	Basket (½" Perforated)	316L SS
12	½" BSPF Drain Port	316L SS
13	BSPM/Flange Outlet Port	316L SS



## Options



## Flange Connections

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

# Flow rates up to 4,000 LPM

## Inox Multi-Round Housing

Designed to suit industry standard size 2 bag filters, multi-round heavy duty housings are suited to high-volume, high dirt-loading and demanding applications.

Each housing utilises a swing-bolt closure system, davit arm assembly and pressure gauges supplied as standard to simplify bag filter operation and changeouts.



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### Premier Housing (PBH)



#### Davit Arm

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



#### Bag Hold-Down Device

The secure bag hold-down device locks the bags in place providing a positive seal to minimise any particulate bypass.

# Part Number

Code	No. of Bags	Bag Size	Port Size	Gauge Ports	Gauges	Mounting Legs	Weight (kg)
PBH-SPC-2-2-3F-GP-ML	2	2	3" DN80	✓	✓	✓	105
PBH-SPC-3-2-4F-GP-ML	3	2	4" DN100	✓	✓	✓	135
PBH-SPC-4-2-4F-GP-ML	4	2	4" DN100	✓	✓	✓	170
PBH-SPC-5-2-4F-GP-ML	5	2	4" DN100	✓	✓	✓	265
PBH-SPC-6-2-6F-GP-ML	6	2	6" DN150	✓	✓	✓	300



## Specification

### Pressure Rating

10 bar

### Material

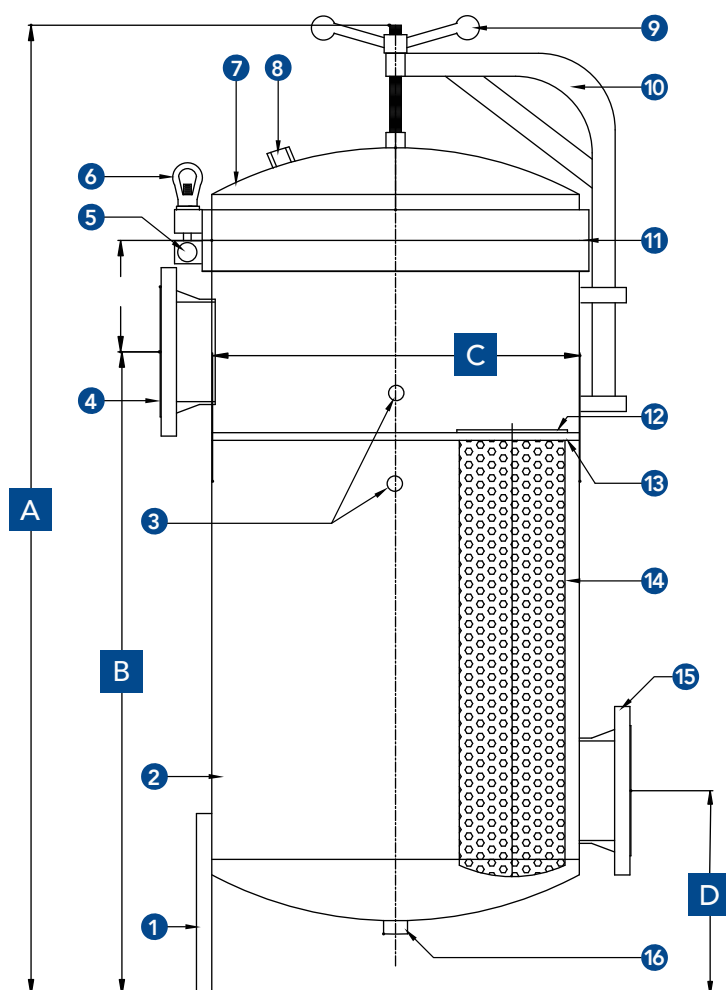
Polycoated 316L Stainless Steel

### Temperature Rating

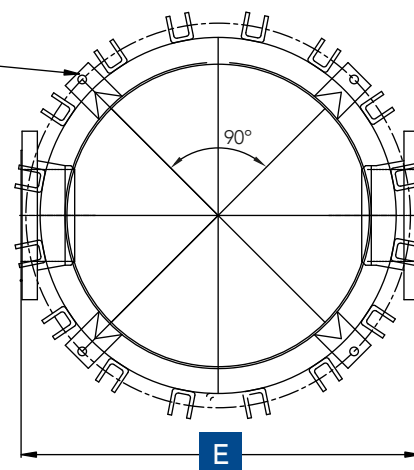
149°C



## Dimensions



4 MOUNTING LEGS  
90° APART  
Ø14.2mm HOLES



No.	Name	Material
1	Mounting Legs	304L SS
2	Body	316L SS
3	¼" FNPT Gauge Ports with Gauges	316L SS
4	Flange Inlet	316L SS
5 & 6	Eyebolt Nut & Pin	Zinc Plated Steel
7	Lid	316L SS
8	½" FNPT Vent Port	316L SS
9&10	Handle & Davit Arm	Zinc Plated Steel
11&12	Basket Seal	Buna-N
13	Bag Hold-Down Device	316L SS
14	Basket (½" Perforated)	316L SS
15	Flange Outlet	316L SS
16	¾" FNPT Drain Port	316L SS

Code	Flow Rate (LPM)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
PBH-SPC-2-2-3F-GP-ML	1325	1586	994	406	267	521
PBH-SPC-3-2-4F-GP-ML	1987	1689	1054	508	311	641
PBH-SPC-4-2-4F-GP-ML	2650	1689	1054	508	311	641
PBH-SPC-5-2-4F-GP-ML	3312	1735	1067	610	340	762
PBH-SPC-6-2-6F-GP-ML	4000	1735	1067	610	340	762



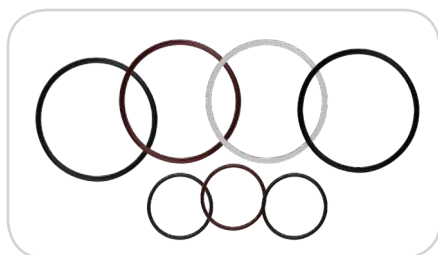


# Spares and Accessories

## Inox Housing Components

Our range of spares and accessories allow you to maintain your housing, add useful performance monitoring equipment, customised to suit your

application depending on the aggressiveness of the solution and ensure system performance and product quality is continuously achieved.



### Housing Seals

O-rings ensure a water-tight seal between the housing head and body.

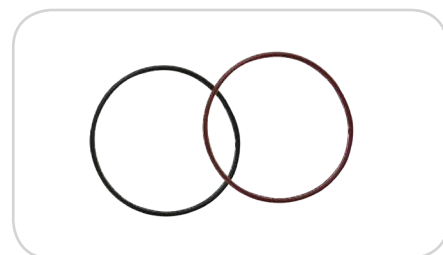
Coming in Buna-N as standard, with EPDM and Viton® available across all housing sizes, and Teflon® available for size 1 and 2 bag housings.



### Flange Connections

Providing security at higher flow rates and simplifying installation.

316L stainless steel flanges are available for single round Premier bag housings and come as standard for multi-rounds.



### Basket Seals

Basket seals reduce bypass between the basket and housing body.

Buna-N, EPDM and Viton® spare basket seals are available for bag housings sizes 3 and 4.



### Baskets

$\frac{1}{8}$ " perforated stainless steel basket supports and protects the bag filter.

Baskets are available in all our standard bag housing sizes, with sizes 3 & 4 being supplied with a Buna-N O-ring as standard.



### Pressure Gauges

Glycerine filled pressure gauges accurately monitors pressure changes.

PG3 pressure gauges are supplied with all SPECTRUM Premier bag housings and are compatible with Standard bag housings.



### Bag Hold-Down Device

The stainless steel device ensures bags are held in place securely.

Bag hold-down devices are provided with all SPECTRUM bag housings.

Bag Hold-Down Device

Basket

Housing Seal



# PBH Bags

## 1-600 micron

SPECTRUM BP and BN bags provide a simple and economic solution for particulate removal. Designed to suit the internal support basket of the PBH housings, the unique design of this range maximises the filtration surface area and ensures ease of use for the operator.



### Media

#### Polypropylene

- Single layer media with welded seams
- Broadest chemical compatibility
- Capable of removing both solid and gelatinous particles from solutions

#### Nylon

- Monofilament mesh with stitched seams provides a high strength media
- Washable media means bag can be reused

### Specification

#### Neck Material

Polypropylene (P)

#### Max. Operating Temperature

Polypropylene - 95°C

Nylon - 95°C

#### Max. Operating Pressure Differential

1 bar

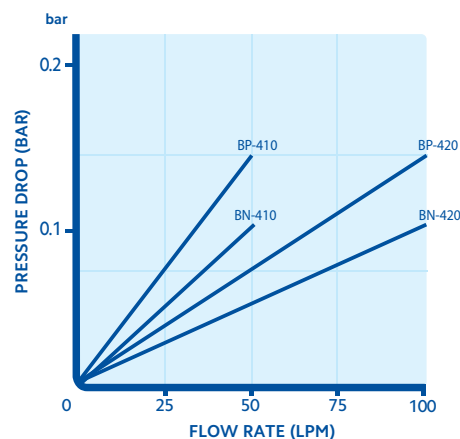


### Compliance

FDA Compliant Media

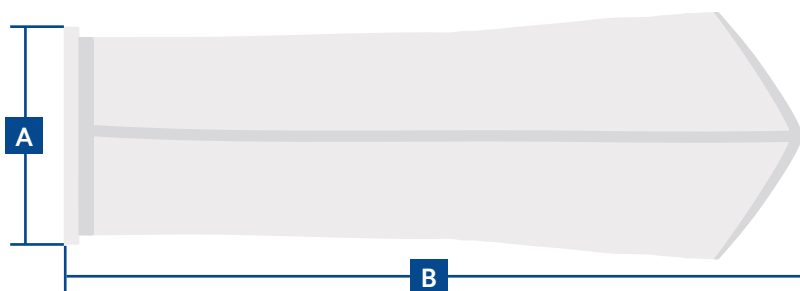
Manufactured from silicone-free materials

WRAS Approved



Water at 20°C. 25 µm Polypropylene felt.

### Dimensions



Bag Size	Dimensions		
	A (mm)	B (mm)	Area (m²)
410	116	203	0.07
420	116	457	0.16

Packaging	
Box Qty	Box Weight (kg)
20	1
20	1

## Part Number

Code	Material	Size	Micron
B	Polypropylene (P)	410, 420	1, 5, 10, 25, 50, 100, 200
	Nylon (N)		50, 100, 200, 400, 600

e.g. BP-410-200

# Flow rates up to 100 LPM

## Pentair PBH Housing

Compact, economic and versatile, with all the benefits of traditional bag filtration technology. The complete polypropylene construction of the Pentair PBH

housing is perfectly suited for applications where cost is restricted and each vessel comes complete with a pressure gauge, spanner and drain valve.





# Part Number

Product Code	Housing Size	Port Size	Flow (lpm)	Box Qty	Box Weight (kg)
PBH-410-1	10"BB	1 NPT	50	4	12
PHB-410-1.5	10"BB	1½ BSP	50	4	16
PBH-420-1	20"BB	1 NPT	100	2	6
PHB-420-1.5	20"BB	1½ BSP	100	2	8

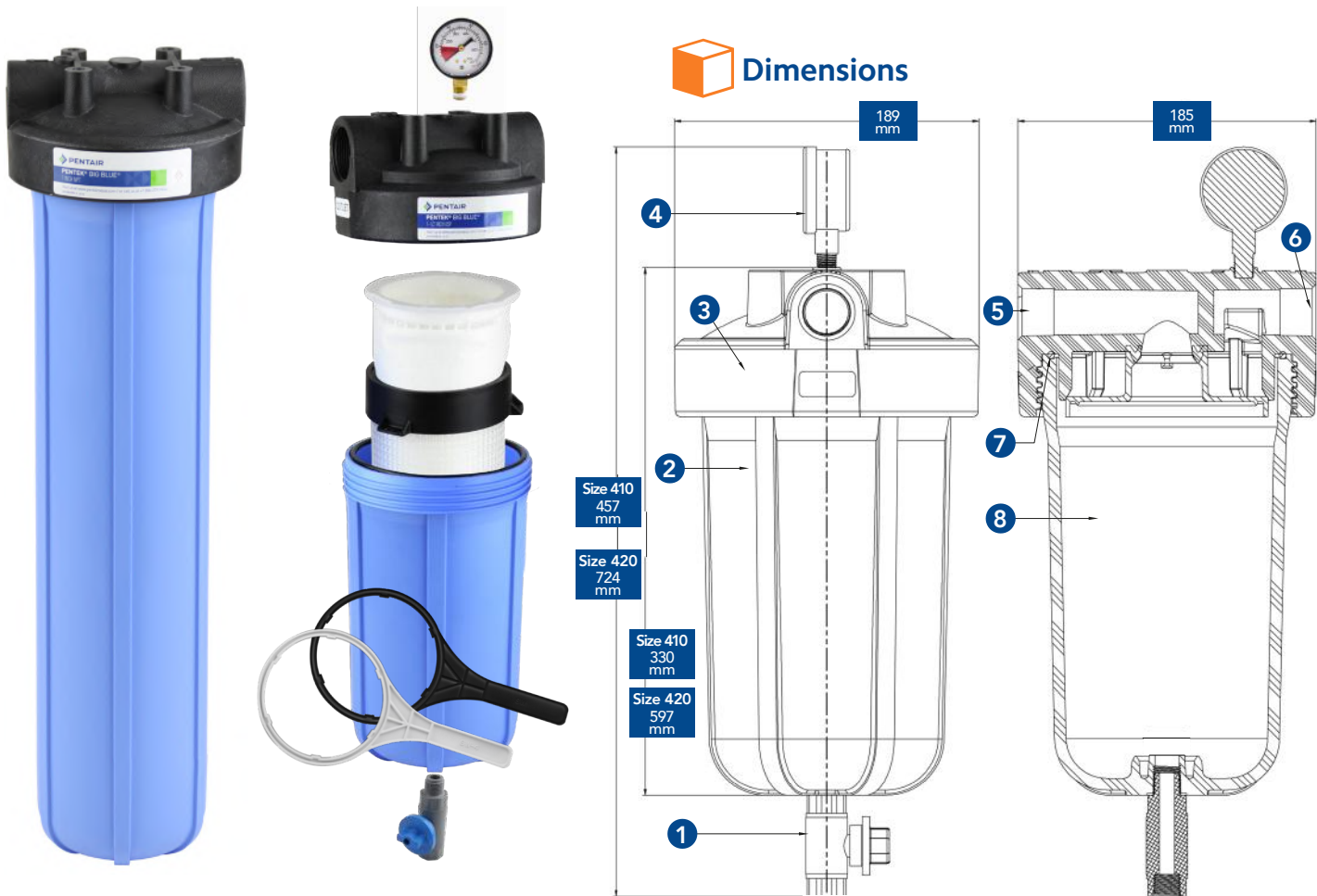
## Specification

**Pressure Rating**  
10" = 6.9 bar    20" = 6.2 bar

**Material**  
Polypropylene

**Temperature Rating**  
38°C

## Dimensions



## Options





### Brackets

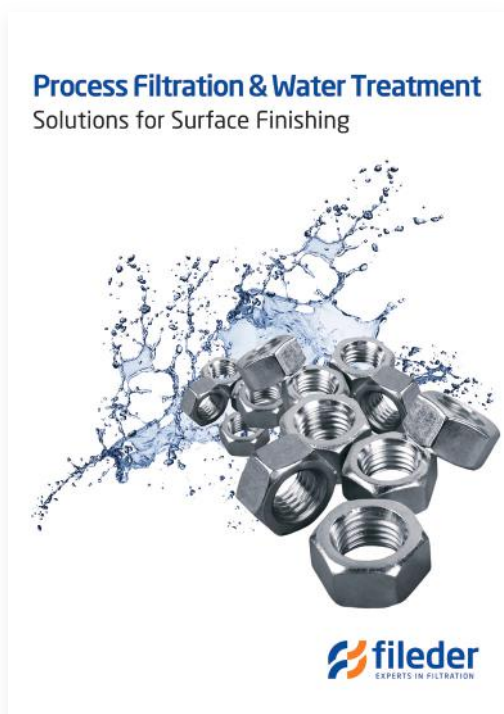
Heavy duty brackets come in single, double and triple configurations.









No.	Name	Material
1	Ball Valve	PVC/Buna-N seals
2	Body	Polypropylene
3	Lid	Polypropylene (HFPP)
4	Pressure Gauge	Bismuth Brass (Lead free)
5	Inlet	Polypropylene
6	Outlet	Polypropylene
7	O-ring	EPDM
8	Basket	Polypropylene





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## Contact us

### Filerder Filter Systems Ltd

20/20 Business Park

Maidstone, Kent

ME16 0LS

**Phone:** 01622 691886

**Fax:** 01622 621932

**Email:** [info@filerder.co.uk](mailto:info@filerder.co.uk)

**Website:** [www.filerder.co.uk](http://www.filerder.co.uk)

