WATER FILTRATION 2025

Professional filters for water
Draining bags
Absorbents
Filter sheets

SECURA BC


SECURA
BC

ABOU

For many years, **Secura B.C.** has been driven by a commitment to **RESEARCH**, **DEVELOPMENT**, and **INNOVATION**.

Our dedication to advancing filtration technology is backed by **CONTINUOUS INVESTMENT** in cutting-edge production methods and **SCIENTIFIC RESEARCH**—allowing us to deliver **TAILORED SOLUTIONS** that meet the evolving demands of the market.

This catalogue showcases our **COMPREHENSIVE RANGE** of melt-blown **CARTRIDGES**, available in various materials, sizes, and configurations to suit a wide array of applications.

Thanks to our extensive product portfolio, **Secura B.C.** has established itself as a **GLOBAL MANUFACTURER**, trusted across multiple industries and sectors of the economy.

JT US

SECURA B.C. SUPPLIES ITS PRODUCTS TO CUSTOMERS ACROSS A **WIDE RANGE OF MARKETS AND APPLICATIONS**, PARTICULARLY WHERE FILTRATION PLAYS A CRITICAL ROLE IN DAILY OPERATIONS AND PROFESSIONAL PROCESSES.

TODAY, **SECURA B.C.**'S ROLE EXTENDS BEYOND SIMPLY OFFERING A BROAD PRODUCT RANGE. WE WORK CLOSELY WITH OUR CUSTOMERS TO RECOMMEND AND DEFINE THE **MOST SUITABLE FILTRATION SOLUTIONS** FOR EACH SPECIFIC APPLICATION—ENSURING OPTIMAL **PERFORMANCE**, **EFFICIENCY**, AND **RELIABILITY**.

QUALITY **INNOVATION** **WARRANTY** **RELIABILITY**

INTRO
DUCT

To achieve the most effective liquid filtration using melt-blown cartridges, consider the following parameters and information:

1. Fluid Characteristics:

Type of Liquid: Different liquids have varying viscosities and chemical properties that can affect filter performance and compatibility. Ensure the cartridge material (typically polypropylene) is compatible with the fluid being filtered.

Contaminant Type and Size: Identify the specific contaminants you need to remove (e.g., sediment, rust, microorganisms, colloids). This will determine the required micron rating of the filter cartridge.

Contaminant Load: The concentration of contaminants in the liquid will affect how quickly the filter cartridge becomes clogged and needs replacement. Higher loads may necessitate pre-filtration or more frequent changes.

Temperature and Pressure: Operating temperature and pressure can impact the filter cartridge's structural integrity and filtration efficiency. Ensure the cartridge is rated for your system's conditions.

Flow Rate: The desired flow rate of the filtered liquid will influence the size and design of the filter cartridge and housing.

2. Filter Cartridge Specifications:

Micron Rating (Pore Size): This is the most critical parameter, indicating the size of particles the filter can effectively remove. Choose a rating appropriate for the target contaminants. Melt-blown cartridges typically range from 0.1 to 120 microns.

Filtration Efficiency: Some cartridges specify a filtration efficiency percentage at a given micron rating (e.g., 95% efficiency at 5 microns). Higher efficiency means better removal of particles at that size.

Dirt Holding Capacity: This indicates the amount of particulate matter the filter can retain before clogging and a significant pressure drop occurs. Higher dirt holding capacity leads to longer filter life.

Filter Dimensions: Consider the cartridge's length and diameter to ensure it fits your filter housing and provides the necessary surface area for filtration.

Construction Material: Most melt-blown cartridges are made of polypropylene. Ensure the material is compatible with the fluid and operating conditions. Some may have an inner core for added strength.

Layer Structure: Many high-quality melt-blown cartridges have a multi-layer or gradient density structure (finer pores on the outer surface and larger pores towards the core). This provides depth filtration, maximizing efficiency and dirt holding capacity.

End Connections/Caps: Ensure the cartridge end connections (e.g., DOE, SOE) are compatible with your filter housing to create a proper seal and prevent bypass.

3. System Design and Operation:

Filter Housing: The housing must be compatible with the cartridge size, pressure, and temperature requirements of your system.

Pre-filtration: For high contaminant loads, consider using a pre-filter with a larger micron rating to protect the final melt-blown cartridge and extend its lifespan.

Flow Rate Control: Maintaining the recommended flow rate for the cartridge is crucial for optimal filtration efficiency and preventing damage.

Differential Pressure Monitoring: Monitor the pressure difference across the filter cartridge. A significant increase indicates clogging and the need for replacement.

Replacement Schedule: Establish a regular replacement schedule based on contaminant load, flow rate, and pressure drop to maintain filtration effectiveness.

Installation and Maintenance: Follow the manufacturer's instructions for proper installation and maintenance of the filter cartridges and housing.

By carefully considering these parameters and information, you can select and operate melt-blown cartridges to achieve the most effective liquid filtration for your specific application.

LEGEND

- ## DEFINITIONS OF KEY TERMS RELATED

Oil and Gas Industry:
- Filtration of fuels, lubricants, and hydraulic fluids;
- Used for refining processes and equipment protection.

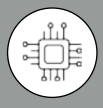
Pharmaceutica Industry:
- Filtration of injectable solutions, purified water, and air;
- Used in drug manufacturing and bioprocessing to ensure sterility.

Water Treatment:
- Filtration of drinking water, wastewater, and industrial process water;
- Removal of sediments, contaminants, and micro-particles.

Cosmetic Industry:
- Filtration of raw materials, fragrances, essential oils, and water used in cosmetics production.

Food and Beverage Industry:
- Filtration of edible oils, syrups, and beverages (such as beer, wine, and juice);
- Ensures product purity and prevents contamination.

Chemical Industry:
- Filtration of chemicals, acids, solvents, and process liquids;
- Protects downstream equipment and maintains process efficiency.



Electronic Manufacturing:
- Filtration of ultrapure water for semiconductor and electronic component production;
- Ensures the absence of particulates and ionic contaminants.

- ## KEY DIMENSIONS

5”	=	127 mm
7”	=	178 mm
9” 3/4	=	248 mm
10”	=	254 mm
19” 1/2	=	495 mm
20”	=	508 mm
29” 1/4	=	743 mm
30”	=	762 mm
39”	=	991 mm
40”	=	1016 mm

INDEX

1.

ULTRASEC • Absolute Filter Cartridges p. 12

ULTRASEC

Absolute Filter Cartridges

ULTRASEC filter cartridges are designed for high-efficiency filtration of liquids containing solid contaminants, making them ideal for applications requiring exceptionally high filtration quality.

Advanced Manufacturing Process

These cartridges are produced using a special process in which molten polypropylene, nylon, or polyester is blown with hot compressed air, bonding the fibers together. This creates strong connections and thermal bridges, eliminating loose fibers and ensuring superior structural integrity. The bonded fibers are then wound onto a rigid core through a continuous rotation process, forming a multi-layer depth-type filter cartridge.

Superior Filtration Performance

The multi-layer design provides uniform filtration across the entire cartridge surface.

Two-layer structure (for filtration efficiency ranges from 0.5 to 10µ):

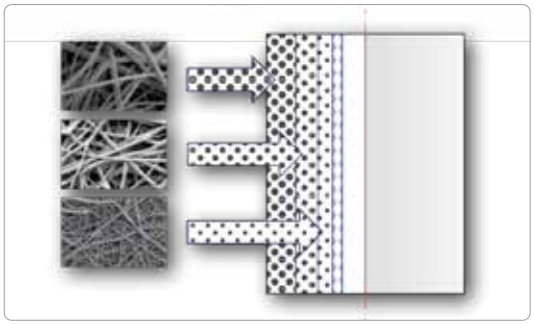
- The outer layer acts as a pre-filter, capturing larger particles;
- The inner layer serves as the final filter, ensuring the highest purity.

This innovative construction significantly extends the cartridge lifespan, optimizing performance and cost-effectiveness.

Ideal for industries requiring reliable, high-performance filtration, **ULTRASEC** absolute filter cartridges deliver consistent efficiency and durability for a wide range of applications.

▸ Special Features

- High filtration efficiency of 99.98% (beta 5000);
- Large depth filtration;
- Filtration over the entire surface;
- High compressive strength;
- Low pressure drop;
- No impurities or free particles.



▸ Applications

Oil and Gas Industry

Pharmaceutica Industry

Water Treatment

Cosmetic Industry

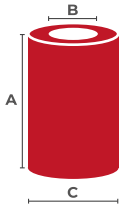
Food and Beverage Industry

Chemical Industry

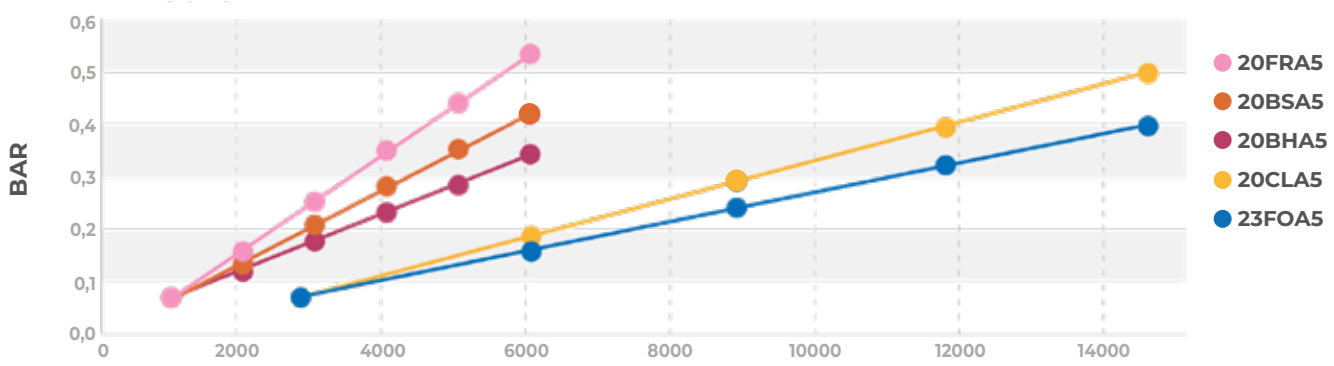
Electronic Manufacturing

▸ TECHNICAL DETAILS OF ABSOLUTE FILTER CARTRIDGES

TYPE CLASS	STANDARD			BLUSEC	BLUSEC HF	CORELESS		FOASEC
	FRA	FNA	FEA	BSA	BHA	CLA	CNA	FOA
MATERIAL	100% PP	100% PA	100% PES	100% PP	100% PP	100% PP	100% PA	100% PP
CORE	100% PP	100% PA	100% PES	100% PP	100% PP	-	-	100% PP
ENDS	OPTION	OPTION	OPTION	-	-	-	-	OPTION
LENGTH (A)	5", 7" 9" 3/4, 10" 19" 1/2, 20" 29" 1/4, 30" 39", 40"	5", 7" 9" 3/4, 10" 19" 1/2, 20" 29" 1/4, 30" 39", 40"	5", 7" 9" 3/4, 10" 19" 1/2, 20" 29" 1/4, 30" 39", 40"	9" 3/4 10" 20" 30" 40"	9" 3/4 10" 20" 30" 40"	20" 40"	20" 40"	23" (610 mm) 40" (1020 mm)
INNER DIAMETER (B)	28 mm	28 mm	28 mm	28 mm	36 mm	115 mm	115 mm	86 mm
OUTER DIAMETER (C)	64 mm	64 mm	64 mm	120 mm	120 mm	152 mm	152 mm	140 mm
MICRON RATING	0.5,1 3,5,10 20,30 50,70 90,120	1 3,5,10 20,30 50,70 90,120	1 3,5,10 20,30 50,70 90,120	1/5/20 5/10/30 10/30/50 30/50/70 50/90/120	1/5/20 5/10/30 10/30/50 30/50/70 50/90/120	1 5 20 50 90	1 5 20 50 90	1/5 5/20 20/50 50/90 90/120
EFFICIENCY	99,98%	99,98%	99,98%	99,98%	99,98%	99,98%	99,98%	99,98%
MAX WORKING TEMPERATURE	80°C	120°C	120°C	80°C	80°C	80°C	120°C	80°C



▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 20" (FILTERONE CARTRIDGE 23") FOR MEDIUM – PURE WATER AT 20°C.

FRA

STANDARD Type | **99,98%** Efficiency | **PP** Material | **PP or Stailess Steel** Core

Polypropylene Cartridges

- **Wide filtration range from 0.5µ up to 150µ.**
- **Absolute filtration efficiency evaluated at 99.98 % (Beta 5000).**
- **Different sizes, asymmetric position of the pores and multi-layer filtration structure increase the dust absorption of the cartridge.**
- **Large filtration area, long service life, minimised maintenance costs.**
- **Cartridge sealing adapted to filtration of different media.**
- **High chemical and biological resistance.**
- **Food grade cartridges.**

The **FRA** class absolute filter cartridges are made of polypropylene. Thanks to unique technology of production the cartridges ensure filtration efficiency level of 99,98 % for particle sizes encoded in the identification markings.
FRA cartridges consist of two layers of fibres wound on a polypropylene core. The outer layer serves as a pre-filter, and the inner layer acts as a final filter. This also applies to the filters with filtration performance of 0.5µ, 1µ, 3µ, 5µ.
Other filter cartridges have only one layer.

Max Differential Pressure
4.0 bar @ 25°C

Recommended Differential Change-Out Pressure for Disposal
2.4 bar

Max Working Temperatures
80°C

Instantaneous Application Temperature
120°C

Code	Lenght (A)	Inner Ø (B)	Outer Ø (C)	Micron	Flow Rate	Quantity per Box	Box Dimensions	Box Dimensions for filter with ends
		mm	mm		l/h	pcs	mm	mm
SPP01 050100 000	5"	28	64	0,5	300	60	340x215x540	365x225x620
SPP01 050200 000				1	400			
SPP01 050500 000				5	500			
SPP01 050600 000				10	700			
SPP01 050700 000				20	900			
SPP01 051100 000				50	1000			
SPP01 051400 000				90	1200			
SPP01 090100 000	9" 3/4	28	64	0,5	600	30	340x215x540	365x225x620
SPP01 090200 000				1	750			
SPP01 090500 000				5	900			
SPP01 090700 000				20	1600			
SPP01 091100 000				50	1800			
SPP01 091400 000				90	2200			
SPP01 100100 000	10"	28	64	0,5	600	30	340x215x540	365x225x620
SPP01 100200 000				1	750			
SPP01 100500 000				5	900			
SPP01 100700 000				20	1600			
SPP01 101100 000				50	1800			
SPP01 101400 000				90	2200			
SPP01 200100 000	20"	28	64	0,5	1200	15	340x215x540	365x225x620
SPP01 200200 000				1	1400			
SPP01 200500 000				5	1700			
SPP01 200700 000				20	3000			
SPP01 201100 000				50	3400			
SPP01 201400 000				90	4200			
SPP01 300100 000	30"	28	64	0,5	1800	15	340x215x800	365x225x880
SPP01 300200 000				1	2000			
SPP01 300500 000				5	2500			
SPP01 300700 000				20	4200			
SPP01 301100 000				50	4800			
SPP01 301400 000				90	6000			
SPP01 400100 000	40"	28	64	0,5	2200	15	340x215x1040	365x225x1130
SPP01 400200 000				1	2400			
SPP01 400500 000				5	3000			
SPP01 400700 000				20	5600			
SPP01 401100 000				50	6400			
SPP01 401400 000				90	8000			

▸ OPTIONAL FILTER CARTRIDGES ENDS

Filter cartridges can be equipped with typical “ends” in order to facilitate assembly and ensure proper sealing at the joint with filter housing. The ends are made using only 100% pure foodgrade polypropylene. During the process of connecting the ends, the connection is made by slightly melting the filter material and the end. Thanks to this technology, it is possible to obtain durable and tight connection without any additional components. DOE filter cartridges equipped with flat gaskets are made of closedpore polyethylene foam. These seals are glued with foodgrade, hotmelt, synthetic adhesive EVA.

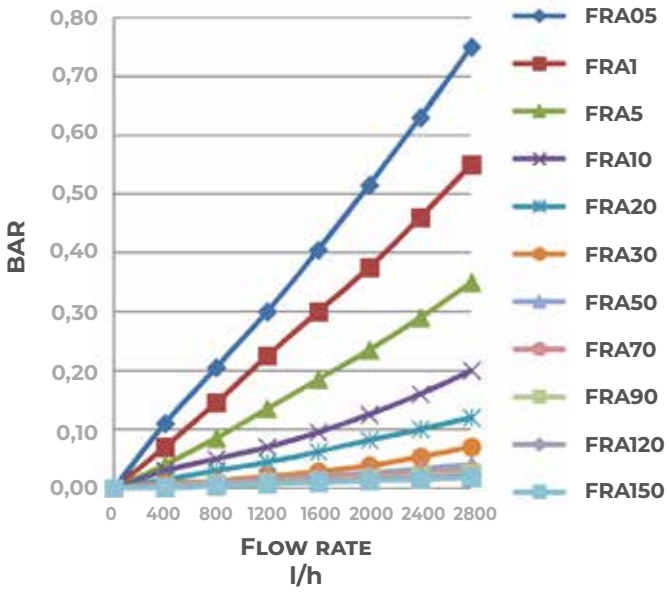
G SEAL | **3F** 222/FLAT | **3S** 222/SPEAR | **4F** 226/FLAT | **7F** 226/FLAT | **7S** 226/SPEAR

Choose the filter cartridges combination options:

LENGTH "	FILTER TYPE	FILTRATION CLASS 99,98%	CORE MATERIAL	FILTRATION EFFICIENCY µm	FILTER END	O-RING
	FR	A				
5 7 9 10 19 20 30 39 40			**P** Polypropylene **S** Stainless steel 304 **R** Stainless steel 316	0.5 1 3 5 10 20 30 40 50 70 90 120 150	**NON** DOE without ends **G**[1] flat gasket **3F** 222 O-ring/flat **3S** 222 O-ring/spear **4F** 222 with flat cap **7F** 226 O-ring/flat **7S** 226 O-ring/spear	**S** VMQ (Silicone) **V** FEP (Viton) **N** NBR **E** EPDM **T** FPM/FEP **X** FPM/VMQ

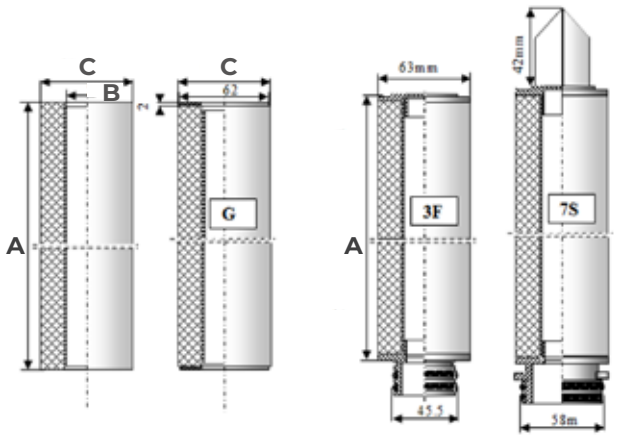
[1] AVAILABLE IN POLYETHYLENE FOAM ONLY.

▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 10" FOR MEDIUM – PURE WATER AT 20°C.

▸ KEY DIMENSIONS



! *CARTRIDGES SHOULD BE REPLACED UPON OBSERVING A SIGNIFICANT LOSS OF PRESSURE OR AS REQUIRED BY THE SPECIFIED FILTRATION STANDARDS.* !

FNA

STANDARD Type | **99,98%** Efficiency | **PA** Material | **PA or Stailess Steel** Core

Polyamide Cartridges

- **Wide filtration range from 1µ up to 150µ.**
- **Absolute filtration efficiency evaluated at 99.98 % (Beta 5000).**
- **Different sizes, asymmetric position of the pores and multi-layer filtration structure increase the dust absorption of the cartridge.**
- **Large filtration area, long service life, minimised maintenance costs.**
- **Cartridge sealing adapted to filtration of different media.**
- **High chemical and biological resistance.**
- **Food grade cartridges.**

The **FNA** class absolute filter cartridges are made of polyamide 6.6 Thanks to unique technology of production the cartridges ensure filtration efficiency level of 99,98 % for particle sizes encoded in the identification markings.
FNA cartridges consist of one single layer of fibres wound on a core made of polyamide with addition of glass fibre.

Max Differential Pressure
6.2 bar @ 30°C
5.5 bar @ 70°C
4.8 bar @ 100°C
Only fiberglass reinforced polyamide 6.6 inner core

Recommended Differential Change-Out Pressure for Disposal
2.4 bar

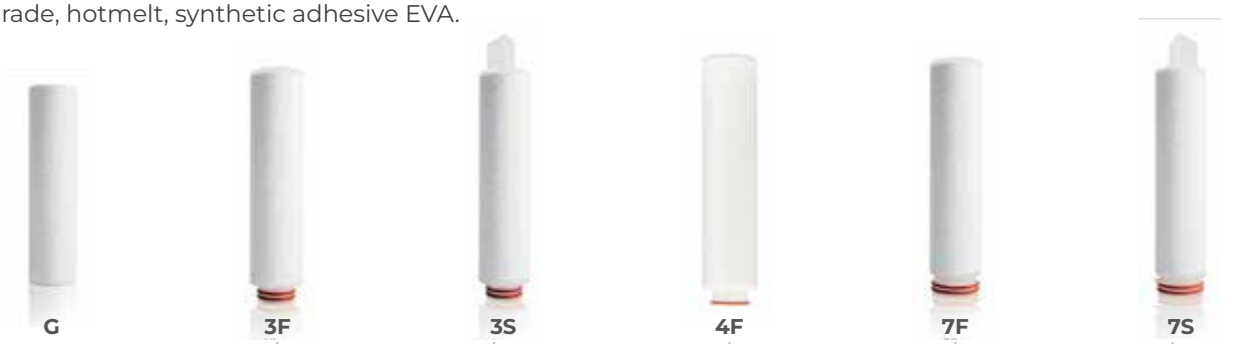
Max Working Temperatures
120°C

Instantaneous Application Temperature
150°C

Code	Lenght (A)	Inner Ø (B)	Outer Ø (C)	Micron	Flow Rate	Quantity per Box	Box Dimensions	Box Dimensions for filter with ends
		mm	mm		l/h	pcs	mm	mm
SNN01 050200 000	5"	28	64	1	350	60	340x215x540	365x225x620
SNN01 050500 000				5	400			
SNN01 050600 000				10	750			
SNN01 050700 000				20	800			
SNN01 051100 000				50	1000			
SNN01 051400 000				90	1300			
SNN01 090200 000	9" 3/4	28	64	1	600	30	340x215x540	365x225x620
SNN01 090500 000				5	750			
SNN01 090700 000				20	1300			
SNN01 091100 000				50	1500			
SNN01 091400 000				90	1900			
SNN01 100200 000	10"	28	64	1	600	30	340x215x540	365x225x620
SNN01 100500 000				5	750			
SNN01 100700 000				20	1300			
SNN01 101100 000				50	1500			
SNN01 101400 000				90	1800			
SNN01 200200 000	20"	28	64	1	1100	15	340x215x540	365x225x620
SNN01 200500 000				5	1400			
SNN01 200700 000				20	2400			
SNN01 201100 000				50	2800			
SNN01 201400 000				90	3400			
SNN01 300200 000	30"	28	64	1	1600	15	340x215x800	365x225x880
SNN01 300500 000				5	2100			
SNN01 300700 000				20	3500			
SNN01 301100 000				50	4100			
SNN01 301400 000				90	5000			
SNN01 400200 000	40"	28	64	1	2100	15	340x215x1040	365x225x1130
SNN01 400500 000				5	2800			
SNN01 400700 000				20	4600			
SNN01 401100 000				50	5600			
SNN01 401400 000				90	6600			

▸ OPTIONAL FILTER CARTRIDGES ENDS

Filter cartridges can be equipped with typical “ends” in order to facilitate assembly and ensure proper sealing at the joint with filter housing. The ends are made using only 100% pure foodgrade polypropylene. During the process of connecting the ends, the connection is made by slightly melting the filter material and the end. Thanks to this technology, it is possible to obtain durable and tight connection without any additional components. DOE filter cartridges equipped with flat gaskets are made of closedpore polyethylene foam. These seals are glued with foodgrade, hotmelt, synthetic adhesive EVA.



G
SEAL

3F
222/FLAT

3S
222/SPEAR

4F
226/FLAT

7F
226/FLAT

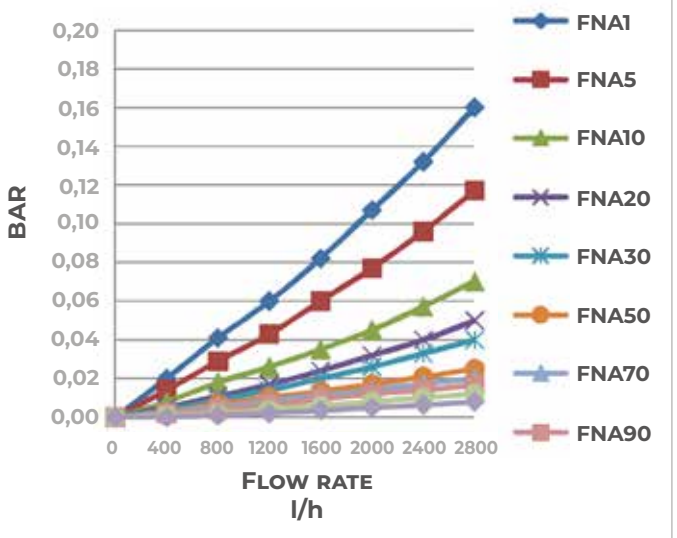
7S
226/SPEAR

Choose the filter cartridges combination options:

LENGTH "	FILTER TYPE	FILTRATION CLASS 99,98%	CORE MATERIAL	FILTRATION EFFICIENCY µm	FILTER END	O-RING
	FN	A				
5 7 9 10 19 20 29 30 39 40			**S** Stainless steel 304 **R** Stainless steel 316 **N** Polyamide	1 3 5 10 20 30 40 50 70 90 120 150	**NON** DOE without ends **G**[1] flat gasket **3F** 222 O-ring/flat **3S** 222 O-ring/spear **4F** 222 with flat cap **7F** 226 O-ring/flat **7S** 226 O-ring/spear	**S** VMQ (Silicone) **V** FEP (Viton) **N** NBR **E** EPDM **T** FPM/FEP **X** FPM/VMQ

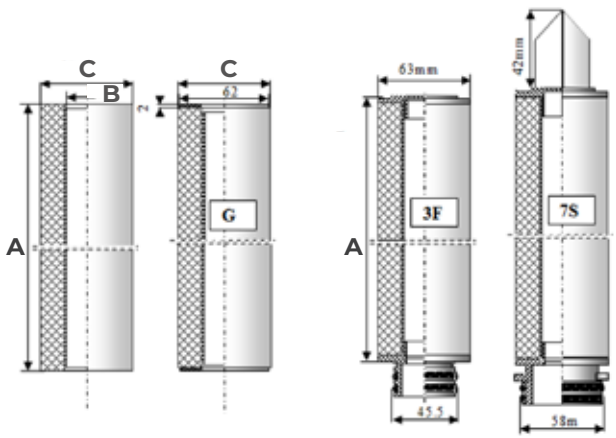
[1] AVAILABLE IN POLYETHYLENE FOAM ONLY.

▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 10" FOR MEDIUM – PURE WATER AT 20°C.

▸ KEY DIMENSIONS



! *CARTRIDGES SHOULD BE REPLACED UPON OBSERVING A SIGNIFICANT LOSS OF PRESSURE OR AS REQUIRED BY THE SPECIFIED FILTRATION STANDARDS.* !

FEA

STANDARD Type | **99,98%** Efficiency | **PBT** Material | **PBT or Stailess Steel** Core

Polyester Cartridges

- **Wide filtration range from 1µ up to 150µ.**
- **Absolute filtration efficiency evaluated at 99.98 % (Beta 5000).**
- **Different sizes, asymmetric position of the pores and multi-layer filtration structure increase the dust absorption of the cartridge.**
- **Large filtration area, long service life, minimised maintenance costs.**
- **Cartridge sealing adapted to filtration of different media.**
- **High chemical and biological resistance.**
- **Food grade cartridges.**

The **FEA** class nominal filter cartridges are made of Polyester. Thanks to unique technology of production the cartridges ensure filtration efficiency level of 99,98 % for particle sizes encoded in the identification markings.
FEA cartridges consist of one single layer of fibers wound on a core made of polyester.

Max Differential Pressure
5.0 bar @ 25°C

Recommended Differential Change-Out Pressure for Disposal
2.4 bar

Max Working Temperatures
120°C

Instantaneous Application Temperature
150°C

Code	Lenght (A)	Inner Ø (B)	Outer Ø (C)	Micron	Flow Rate	Quantity per Box	Box Dimensions	Box Dimensions for filter with ends
		mm	mm		l/h	pcs	mm	mm
SEE01 050200 000	5"	28	64	1	350	60	340x215x540	365x225x620
SEE01 050500 000				5	400			
SEE01 050600 000				10	750			
SEE01 050700 000				20	800			
SEE01 051100 000				50	1000			
SEE01 051400 000				90	1300			
SEE01 090200 000	9" 3/4	28	64	1	600	30	340x215x540	365x225x620
SEE01 090500 000				5	750			
SEE01 090700 000				20	1300			
SEE01 091100 000				50	1500			
SEE01 091400 000				90	1900			
SEE01 100200 000	10"	28	64	1	600	30	340x215x540	365x225x620
SEE01 100500 000				5	750			
SEE01 100700 000				20	1300			
SEE01 101100 000				50	1500			
SEE01 101400 000				90	1800			
SEE01 200200 000	20"	28	64	1	1100	15	340x215x540	365x225x620
SEE01 200500 000				5	1400			
SEE01 200700 000				20	2400			
SEE01 201100 000				50	2800			
SEE01 201400 000				90	3400			
SEE01 300200 000	30"	28	64	1	1600	15	340x215x800	365x225x880
SEE01 300500 000				5	2100			
SEE01 300700 000				20	3500			
SEE01 301100 000				50	4100			
SEE01 301400 000				90	5000			
SEE01 400200 000	40"	28	64	1	2100	15	340x245x1040	365x225x1130
SEE01 400500 000				5	2800			
SEE01 400700 000				20	4600			
SEE01 401100 000				50	5600			
SEE01 401400 000				90	6600			

▸ OPTIONAL FILTER CARTRIDGES ENDS

Filter cartridges can be equipped with typical “ends” in order to facilitate assembly and ensure proper sealing at the joint with filter housing. The ends are made using only 100% pure foodgrade polypropylene. During the process of connecting the ends, the connection is made by slightly melting the filter material and the end. Thanks to this technology, it is possible to obtain durable and tight connection without any additional components. DOE RMF filter cartridges equipped with flat gaskets are made of closedpore polyethylene foam. These seals are glued with foodgrade, hotmelt, synthetic adhesive EVA.

G
SEAL RMF

3F
222/FLAT

3S
222/SPEAR

4F
226/FLAT

7F
226/FLAT

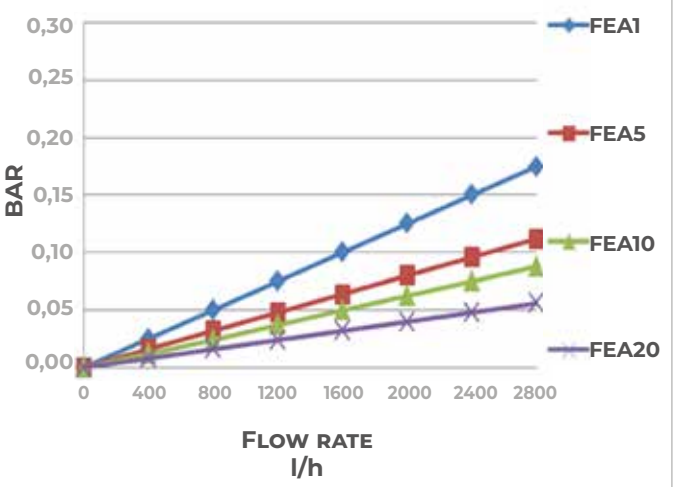
7S
226/SPEAR

Choose the filter cartridges combination options:

LENGTH "	FILTER TYPE	FILTRATION CLASS 99,98%	CORE MATERIAL	FILTRATION EFFICIENCY µm	FILTER END	O-RING
	FE	A				
5 7 9 10 19 20 29 30 39 40			**S** Stainless steel 304 **R** Stainless steel 316 **E** Polyester	1 3 5 10 20 30 40 50 70 90 120 150	**NON** DOE without ends **G**[1] flat gasket **3F** 222 O-ring/flat **3S** 222 O-ring/spear **4F** 222 with flat cap **7F** 226 O-ring/flat **7S** 226 O-ring/spear	**S** VMQ (Silicone) **V** FEP (Viton) **N** NBR **E** EPDM **T** FPM/FEP **X** FPM/VMQ

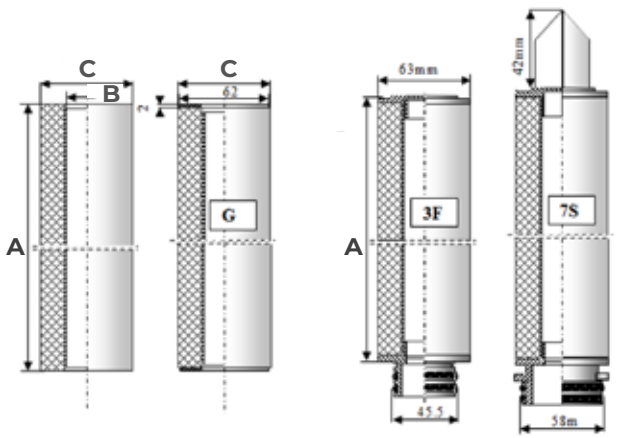
[1] AVAILABLE IN POLYETHYLENE FOAM ONLY.

▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 10" FOR MEDIUM – PURE WATER AT 20°C.

▸ KEY DIMENSIONS



! *CARTRIDGES SHOULD BE REPLACED UPON OBSERVING A SIGNIFICANT LOSS OF PRESSURE OR AS REQUIRED BY THE SPECIFIED FILTRATION STANDARDS.* !

BSA

Polypropylene Cartridges

BLUSEC Type | **99,98%** Efficiency | **PP** Material | **PP** Core

- ▸Wide filtration range from 1µ up to 90µ.
- ▸Absolute filtration efficiency evaluated at 99.98 % (Beta 5000).
- ▸Different sizes, asymmetric position of the pores and multi-layer filtration structure increase the dust absorption of the cartridge.
- ▸Large filtration area, long service life, minimised maintenance costs.
- ▸High chemical and biological resistance.
- ▸Food grade cartridges.

The **BSA** class absolute filter cartridges are made of polypropylene. Thanks to unique technology of production the cartridges ensure filtration efficiency level of 99,98 % for particle sizes encoded in the identification markings.
BSA cartridges consist of three layers of fibers wound on a polypropylene core. The outer layer serves as a pre-filter, the middle layer is an intermediate filter, and the inner layer acts as a final filter.
Upon request available cartridge with two layers.

Max Differential Pressure	Recommended Differential Change-Out Pressure for Disposal	Max Working Temperatures	Instantaneous Application Temperature
5.0 bar @ 25°C	**2.4 bar**	**80°C**	**120°C**

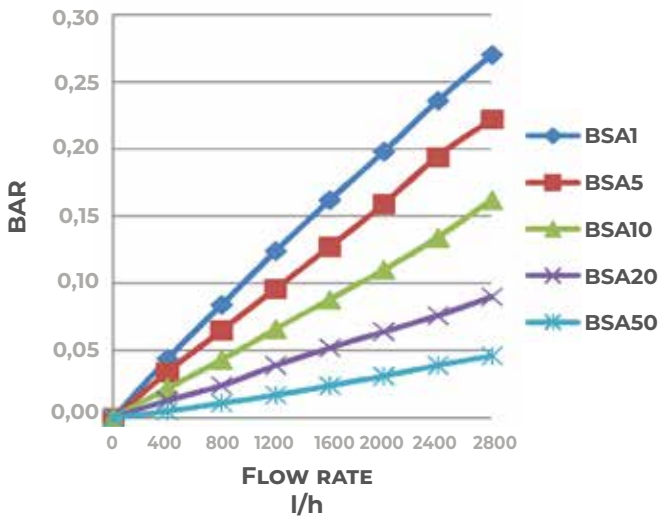
Code	Lenght (A)	Inner Ø (B)	Outer Ø (C)	Micron	Flow Rate	Quantity per Box	Box Dimensions
		mm	mm		l/h	pcs	mm
SPP07 090205 000	9" 3/4	28	120	1/5/20	700	8	260x260x530
SPP07 090506 000				5/10/30	900		
SPP07 090609 000				10/30/50	1200		
SPP07 090911 000				30/50/70	1600		
SPP07 091112 000				50/70/90	2000		
SPP07 100205 000	10"	28	120	1/5/20	700	8	260x260x530
SPP07 100506 000				5/10/30	900		
SPP07 100609 000				10/30/50	1200		
SPP07 100911 000				30/50/70	1600		
SPP07 101112 000				50/70/90	2000		
SPP07 200205 000	20"	28	120	1/5/20	1200	4	260x260x530
SPP07 200506 000				5/10/30	1600		
SPP07 200609 000				10/30/50	2200		
SPP07 200911 000				30/50/70	3000		
SPP07 201112 000				50/70/90	3600		
SPP07 300205 000	30"	28	120	1/5/20	1800	4	260x260x800
SPP07 300506 000				5/10/30	2400		
SPP07 300609 000				10/30/50	3200		
SPP07 300911 000				30/50/70	4500		
SPP07 301112 000				50/70/90	5400		
SPP07 400205 000	40"	28	120	1/5/20	2300	4	260x260x1040
SPP07 400506 000				5/10/30	3100		
SPP07 400609 000				10/30/50	4000		
SPP07 400911 000				30/50/70	5600		
SPP07 401112 000				50/70/90	7000		

▸ OPTIONAL FILTER CARTRIDGES

Choose the filter cartridges combination options:

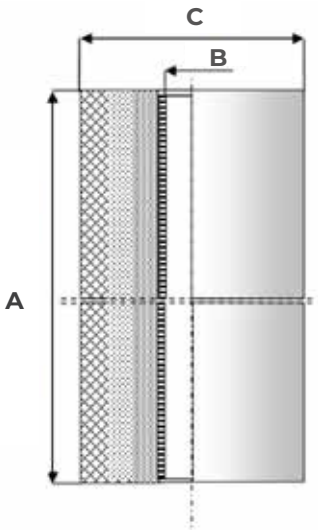
LENGTH "	FILTER TYPE	FILTRATION EFFICIENCY µm
	BSA	
10 20 30 40		1/5/20 5/10/30 10/30/50 30/50/70 50/70/90

▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 10" FOR MEDIUM – PURE WATER AT 20°C.

▸ KEY DIMENSIONS



! *CARTRIDGES SHOULD BE REPLACED UPON OBSERVING A SIGNIFICANT LOSS OF PRESSURE OR AS REQUIRED BY THE SPECIFIED FILTRATION STANDARDS.* !

BHA

Polypropylene Cartridges

BLUSEC HIGH FLOW Type | **99,98%** Efficiency | **PP** Material | **PP** Core

- **Wide filtration range from 1µ up to 90µ.**
- **Absolute filtration efficiency evaluated at 99.98 % (Beta 5000).**
- **Different sizes, asymmetric position of the pores and multi-layer filtration structure increase the dust absorption of the cartridge.**
- **Large filtration area, long service life, minimised maintenance costs.**
- **High chemical and biological resistance.**
- **Food grade cartridges.**

The **BHA** class absolute filter cartridges are made of polypropylene. Thanks to unique technology of production the cartridges ensure filtration efficiency level of 99,98 % for particle sizes encoded in the identification markings.
BHA cartridges consist of three layers of fibers wound on a polypropylene core. The outer layer serves as a pre-filter, the middle layer is an intermediate filter, and the inner layer acts as a final filter.
Upon request available cartridge with two layers.

Max Differential Pressure
5.0 bar @ 25°C

Recommended Differential Change-Out Pressure for Disposal
2.4 bar

Max Working Temperatures
80°C

Instantaneous Application Temperature
120°C

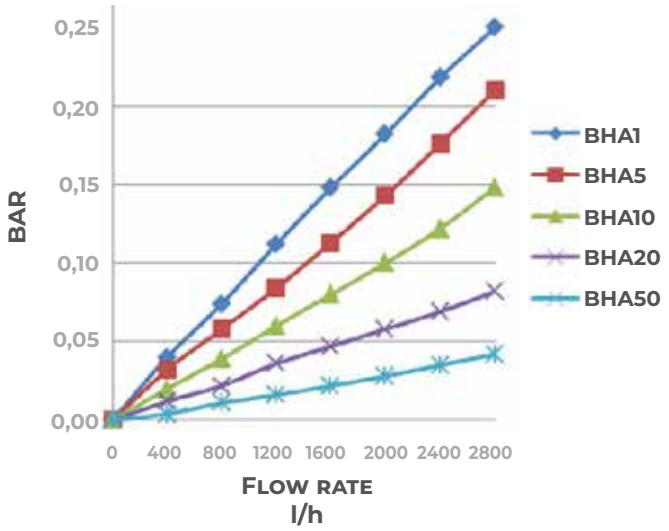
Code	Lenght (A)	Inner Ø (B)	Outer Ø (C)	Micron	Flow Rate	Quantity per Box	Box Dimensions
		mm	mm		l/h	pcs	mm
SPP16 100205 000	10"	36	120	1/5/20	800	8	260x260x530
SPP16 100506 000				5/10/30	1000		
SPP16 100609 000				10/30/50	1300		
SPP16 100911 000				30/50/70	1800		
SPP16 101112 000				50/70/90	2200		
SPP16 200205 000	20"	36	120	1/5/20	1400	4	260x260x530
SPP16 200506 000				5/10/30	1800		
SPP16 200609 000				10/30/50	2400		
SPP16 200911 000				30/50/70	3300		
SPP16 201112 000				50/70/90	4000		
SPP16 300205 000	30"	36	120	1/5/20	2000	4	260x260x800
SPP16 300506 000				5/10/30	2500		
SPP16 300609 000				10/30/50	3500		
SPP16 300911 000				30/50/70	4800		
SPP16 301112 000				50/70/90	5800		
SPP16 400205 000	40"	36	120	1/5/20	2600	4	260x260x1040
SPP16 400506 000				5/10/30	3200		
SPP16 400609 000				10/30/50	4500		
SPP16 400911 000				30/50/70	6200		
SPP16 401112 000				50/70/90	7500		

▸ OPTIONAL FILTER CARTRIDGES

Choose the filter cartridges combination options:

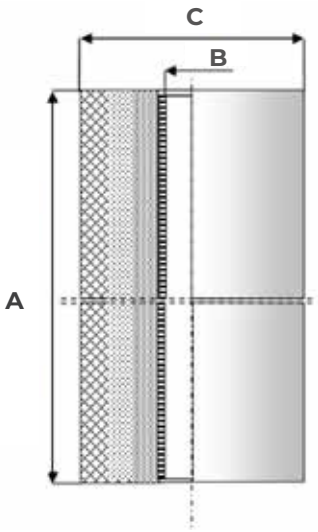
LENGTH "	FILTER TYPE	FILTRATION EFFICIENCY µm
	BHA	
10 20 30 40		1/5/20 5/10/30 10/30/50 30/50/70 50/70/90

▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 10" FOR MEDIUM – PURE WATER AT 20°C.

▸ KEY DIMENSIONS



! *CARTRIDGES SHOULD BE REPLACED UPON OBSERVING A SIGNIFICANT LOSS OF PRESSURE OR AS REQUIRED BY THE SPECIFIED FILTRATION STANDARDS.* !

CLA

Polypropylene Cartridges

CORLESS Type | **99,98%** Efficiency | **PP** Material

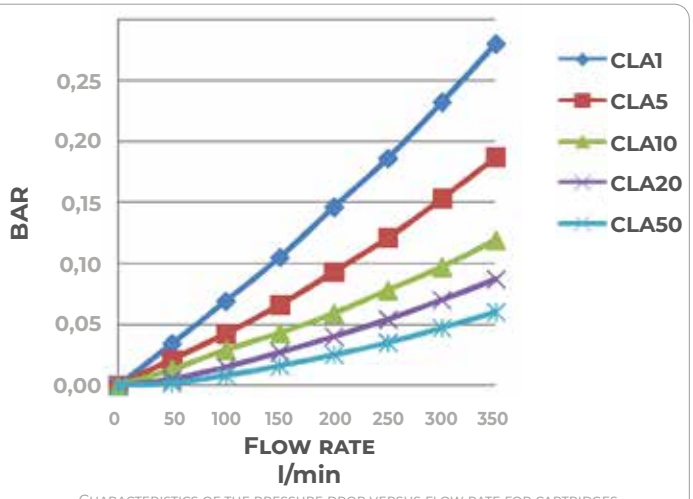
- **Wide filtration range from 1µ up to 150µ.**
- **Absolute filtration efficiency evaluated at 99.98 % (Beta 5000).**
- **Different sizes, asymmetric position of the pores and multi-layer filtration structure increase the dust absorption of the cartridge.**
- **Large filtration area, long service life, minimised maintenance costs.**
- **High chemical and biological resistance.**
- **Food grade cartridges.**

The **CLA** class absolute filter cartridges are made of polypropylene. Thanks to unique technology of production the cartridges ensure filtration efficiency level of 99,98 % for particle sizes encoded in the identification markings.
CLA cartridges consist of one single layer of fibres forming a uniform filtration structure.

Max Differential Pressure	Recommended Differential Change-Out Pressure for Disposal	Max Working Temperatures	Instantaneous Application Temperature
5.0 bar @ 25°C	**2.4 bar**	**80°C**	**120°C**

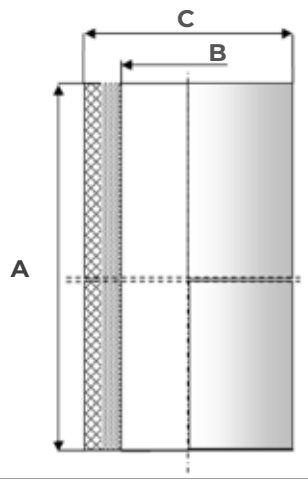
Code	Lenght (A)	Inner Ø (B)	Outer Ø (C)	Micron	Flow Rate	Quantity per Box	Box Dimensions
		mm	mm		l/h	pcs	mm
SPX12 200200 000				1	1800		
SPX12 200500 000				5	2200		
SPX12 200700 000	20"	115	152	20	3500	8	325x325x1040
SPX12 201100 000				50	4000		
SPX12 201400 000				90	5000		
SPX12 400200 000				1	3400		
SPX12 400500 000				5	4000		
SPX12 400700 000	40"	115	152	20	6400	4	325x325x1040
SPX12 401100 000				50	7200		
SPX12 401400 000				90	9000		

▸ FLOW RATE VS PRESSURE DROP



Characteristics of the pressure drop versus flow rate for cartridges of a length of 20" for medium – pure water at 20°C.

▸ KEY DIMENSIONS



! *Cartridges should be replaced upon observing a significant loss of pressure or as required by the specified filtration standards.* !

CNA

POLYAMIDE CARTRIDGES

CORLESS TYPE | **99,98%** EFFICIENCY | **PA** MATERIAL

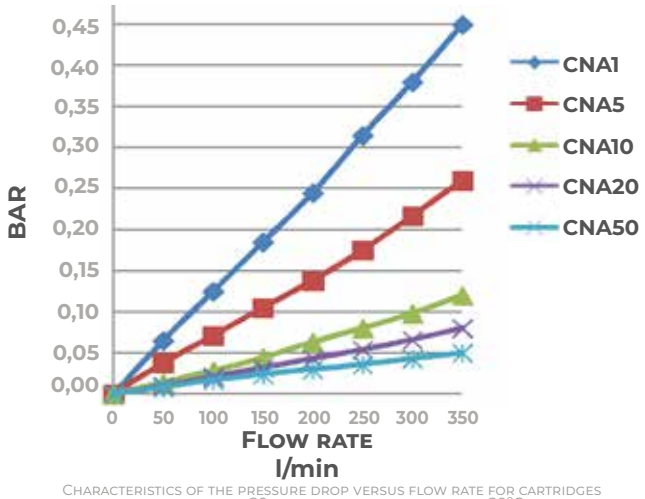
- WIDE FILTRATION RANGE FROM 1µ UP TO 150µ.
- ABSOLUTE FILTRATION EFFICIENCY EVALUATED AT 99.98 % (BETA 5000).
- DIFFERENT SIZES, ASYMMETRIC POSITION OF THE PORES AND MULTI-LAYER FILTRATION STRUCTURE INCREASE THE DUST ABSORPTION OF THE CARTRIDGE.
- LARGE FILTRATION AREA, LONG SERVICE LIFE, MINIMISED MAINTENANCE COSTS.
- HIGH CHEMICAL AND BIOLOGICAL RESISTANCE.
- FOOD GRADE CARTRIDGES.

The **CNA** class absolute filter cartridges are made of polyamide 6.6. Thanks to unique technology of production the cartridges ensure filtration efficiency level of 99,98 % for particle sizes encoded in the identification markings.

MAX DIFFERENTIAL PRESSURE	RECOMMENDED DIFFERENTIAL CHANGE-OUT PRESSURE FOR DISPOSAL	MAX WORKING TEMPERATURES	INSTANTANEOUS APPLICATION TEMPERATURE
5.0 bar @ 25°C	**2.4 bar**	**120°C**	**150°C**

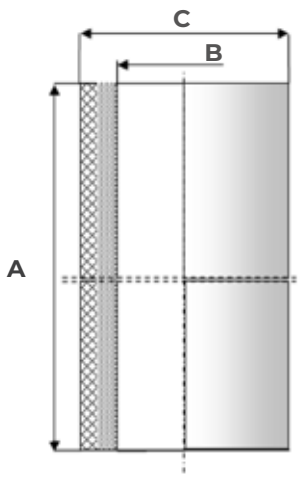
CODE	LENGHT (A)	INNER Ø (B)	OUTER Ø (C)	MICRON	FLOW RATE	QUANTITY PER BOX	BOX DIMENSIONS
		mm	mm		l/h	pcs	mm
SNX12 200200 000				1	1500		
SNX12 200500 000				5	1800		
SNX12 200700 000	20"	115	152	20	2800	8	325x325x1040
SNX12 201100 000				50	3200		
SNX12 201400 000				90	4000		
SNX12 400200 000				1	2800		
SNX12 400500 000				5	3400		
SNX12 400700 000	40"	115	152	20	5200	4	325x325x1040
SNX12 401100 000				50	6000		
SNX12 401400 000				90	7200		

▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 20" FOR MEDIUM – PURE WATER AT 20°C.

▸ KEY DIMENSIONS



! *CARTRIDGES SHOULD BE REPLACED UPON OBSERVING A SIGNIFICANT LOSS OF PRESSURE OR AS REQUIRED BY THE SPECIFIED FILTRATION STANDARDS.* !

FOA

Polypropylene Cartridges

FOASEC Type | **99,98%** Efficiency | **PP** Material | **PP** Core

- Wide filtration range from 1µ up to 150µ.
- Absolute filtration efficiency evaluated at 99.98 % (Beta 5000).
- Different sizes, asymmetric position of the pores and multi-layer filtration structure increase the dust absorption of the cartridge.
- Large filtration area, long service life, minimised maintenance costs.
- High chemical and biological resistance.
- Food grade cartridges.
- O-Ring available: Silicone, EPDM, Viton, NBR.

The **FOA** class absolute filter cartridges are made of polypropylene. Thanks to unique technology of production the cartridges ensure filtration efficiency level of 95% for particle sizes encoded in the identification markings.
FOA cartridges consist of two successive layers of fibers forming a uniform filtration structure. The outer layer serves as a pre-filter, and the inner layer acts as a final filter. The filter is also available in a single-layer version.

Max Differential Pressure
5.0 bar @ 25°C

Recommended Differential Change-Out Pressure for Disposal
2.4 bar

Max Working Temperatures
80°C

Instantaneous Application Temperature
120°C

Code	Lenght (A)	Inner Ø (B)	Outer Ø (C)	Micron	Flow Rate	Quantity per Box	Box Dimensions
		mm	mm		l/h	pcs	mm
SPP27 230205 000				1/5	2000		
SPP27 230507 000				5/20	2500		
SPP27 230711 000	23"	98	148	20/50	4000	1	165x165x740
SPP27 231114 000				50/90	4500		
SPP27 231416 000				90/120	5500		
SPP27 400205 000				1/5	3400		
SPP27 400507 000				5/20	4000		
SPP27 400711 000	40"	98	148	20/50	6400	1	165x165x1160
SPP27 401114 000				50/90	7200		
SPP27 401416 000				90/120	9000		

▸ OPTIONAL FILTER CARTRIDGES ENDS

Filter cartridges can be equipped with typical “ends” in order to facilitate assembly and ensure proper sealing at the joint with filter housing. The ends are made using only 100% pure foodgrade polypropylene. During the process of connecting the ends, the connection is made by slightly melting the filter material and the end. Thanks to this technology, it is possible to obtain durable and tight connection without any additional components. DOE filter cartridges equipped with flat gaskets are made of closedpore polyethylene foam. These seals are glued with foodgrade, hotmelt, synthetic adhesive EVA.

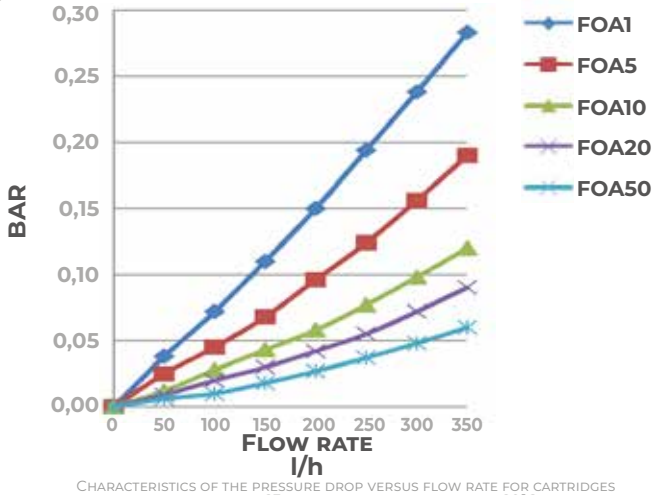
NON
DOE without ends

F ONE

Choose the filter cartridges combination options:

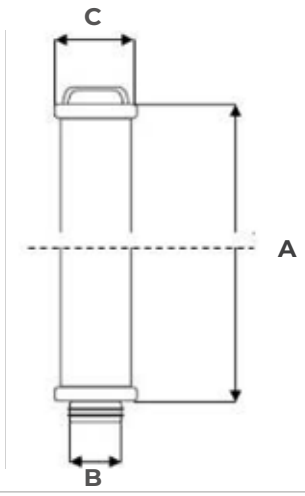
LENGTH "	FILTER TYPE	FILTRATION EFFICIENCY µm	FILTER END	O-RING
	FOA			
23 40		1/5 5/20 20/50 50/90 90/120	**NON** DOE without ends **F ONE**	**SE** Silicone **VE** Viton **NE** NBR **EE** EPDM

▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 23" FOR MEDIUM – PURE WATER AT 20°C.

▸ KEY DIMENSIONS



! *CARTRIDGES SHOULD BE REPLACED UPON OBSERVING A SIGNIFICANT LOSS OF PRESSURE OR AS REQUIRED BY THE SPECIFIED FILTRATION STANDARDS.* !

2.

PROSEC • Nominal Filter Cartridges p. **30**

PROSEC

Nominal Filter Cartridges

High-Efficiency Melt Blown Filter Cartridges

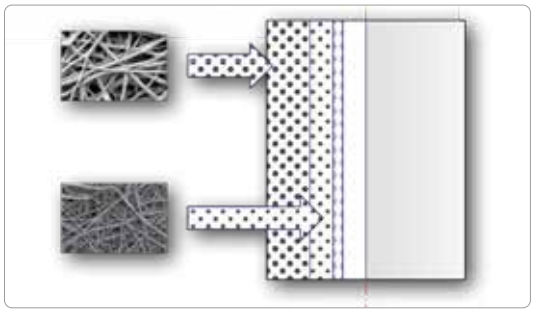
Engineered for critical liquid filtration, these cartridges effectively remove solid contaminants across a wide range of applications.

Utilizing a proprietary melt blowing process, 100% pure polymer fibers are thermally bonded onto a rigid core, creating a multi-layered, depth-type filter.

This construction ensures consistent, high-efficiency filtration throughout the cartridge's surface, minimizing fiber migration and maximizing contaminant retention.

▸ Special Features

- High range of filtration 1 µ to 150 µ;
- High filtration efficiency of 95 % (beta 20);
- Large depth filtration;
- Filtration over the entire surface;
- High compressive strength;
- Low pressure drop;
- No impurities or free particles;
- No pollution or free particles;
- Cartridges seals adapter to the various filtration media;
- Approved for contact with food.



▸ Applications

Oil and Gas Industry

Pharmaceutica Industry

Water Treatment

Cosmetic Industry

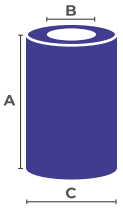
Food and Beverage Industry

Chemical Industry

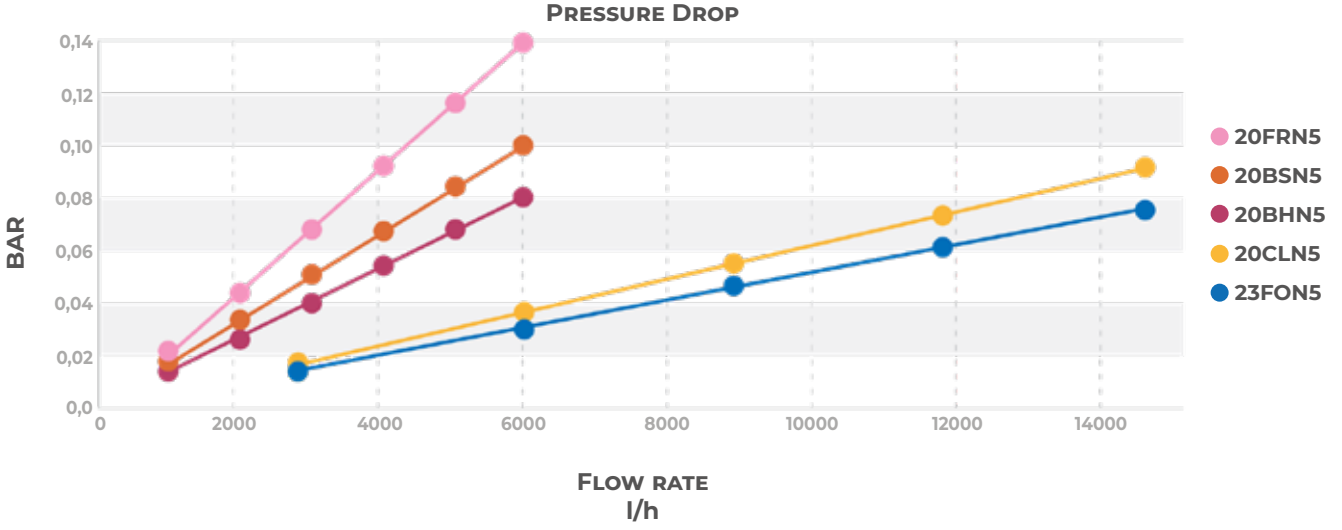
Electronic Manufacturing

▸ TECHNICAL DETAILS OF NOMINAL FILTER CARTRIDGES

TYPE CLASS	STANDARD			BLUSEC	BLUSEC HF	CORELESS		FILTER ONE
	FRN	FNN	FEN	BSN	BHN	CLN	CNN	FON
MATERIAL	100% PP	100% PA	100% PES	100% PP	100% PP	100% PP	100% PA	100% PP
CORE	100% PP	100% PA	100% PES	100% PP	100% PP	-	-	100% PP
ENDS	OPTION	OPTION	OPTION	-	-	-	-	OPTION
LENGTH (A)	5", 7" 9" 3/4, 10" 19" 1/2, 20" 29" 1/4, 30" 39", 40"	5", 7" 9" 3/4, 10" 19" 1/2, 20" 29" 1/4, 30" 39", 40"	5", 7" 9" 3/4, 10" 19" 1/2, 20" 29" 1/4, 30" 39", 40"	9" 3/4 10" 20" 30" 40"	9" 3/4 10" 20" 30" 40"	20" 40"	20" 40"	23" (610 mm) 40" (1020 mm)
INNER DIAMETER (B)	28 mm	28 mm	28 mm	28 mm	36 mm	115 mm	115 mm	86 mm
OUTER DIAMETER (C)	64 mm	64 mm	64 mm	115 mm	115 mm	152 mm	152 mm	140 mm
MICRON RATING	1 5,10 20,30 50,70 90,120	1 5,10 20,30 50,70 90,120	1 5,10 20,30 50,70 90,120	1/5 5/20 20/50 50/90	1/5 5/20 20/50 50/90	1 5 20 50 90	1 5 20 50 90	1/5 5/20 20/50 50/90
EFFICIENCY	95%	95%	95%	95%	95%	95%	95%	95%
MAX WORKING TEMPERATURE	80°C	120°C	120°C	80°C	80°C	80°C	120°C	80°C



▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 20" (FILTERONE CARTRIDGE 23") FOR MEDIUM – PURE WATER AT 20°C.

FRN

STANDARD Type | **95%** Efficiency | **PP** Material | **PP or Stailess Steel** Core

Polypropylene Cartridges

- Wide filtration range from 1µ up to 150µ.
- Nominal filtration efficiency evaluated at 95 % (Beta 20).
- Different sizes, asymmetric position of the pores and multi-layer filtration structure increase the dust absorption of the cartridge.
- Large filtration area, long service life, minimised maintenance costs.
- Cartridge sealing adapted to filtration of different media.
- High chemical and biological resistance.
- Food grade cartridges.

The **FRN** class nominal filter cartridges are made of polypropylene. Thanks to unique technology of production the cartridges ensure filtration efficiency level of 95% for particle sizes encoded in the identification markings.
FRN cartridges consist of one single layer of fibres wound on a polypropylene core. The porosity of the layer varies in such a way as to minimise pressure drop and maximise cartridge absorption.

Max Differential Pressure
4.0 bar @ 25°C

Recommended Differential Change-Out Pressure for Disposal
2.4 bar

Max Working Temperatures
80°C

Instantaneous Application Temperature
120°C

Code	Lenght (A)	Inner Ø (B)	Outer Ø (C)	Micron	Flow Rate	Quantity per Box	Box Dimensions	Box Dimensions for filter with Ends
		mm	mm		l/h	pcs	mm	mm
SPP05 050200 000	5"	28	64	1	500	60	340x215x540	365x225x620
SPP05 050500 000				5	750			
SPP05 050700 000				20	1100			
SPP05 051100 000				50	1400			
SPP05 051400 000				90	1500			
SPP05 090200 000	9" 3/4	28	64	1	1000	60/30*	340x215x1040	365x225x620
SPP05 090500 000				5	1600			
SPP05 090700 000				20	2500			
SPP05 091100 000				50	2800			
SPP05 091400 000				90	3000			
SPP05 100200 000	10"	28	64	1	1000	60/30*	340x215x1040	365x225x620
SPP05 100500 000				5	1600			
SPP05 100700 000				20	2500			
SPP05 101100 000				50	2800			
SPP05 101400 000				90	3000			
SPP05 200200 000	20"	28	64	1	1800	30/15**	340x215x1040	365x225x620
SPP05 200500 000				5	2800			
SPP05 200700 000				20	4300			
SPP05 201100 000				50	4800			
SPP05 201400 000				90	5200			
SPP05 300200 000	30"	28	64	1	2700	15	340x215x800	365x225x880
SPP05 300500 000				5	4300			
SPP05 300700 000				20	6400			
SPP05 301100 000				50	7300			
SPP05 301400 000				90	7800			
SPP05 400200 000	40"	28	64	1	3500	15	340x215x1040	365x225x1130
SPP05 400500 000				5	5400			
SPP05 400700 000				20	8500			
SPP05 401100 000				50	9500			
SPP05 401400 000				90	9800			

* 60 pcs for filter without ends/30 pcs for filter with ends.
** 30 pcs for filter without ends/15 pcs for filter with ends.

▸ OPTIONAL FILTER CARTRIDGES ENDS

Filter cartridges can be equipped with typical “ends” in order to facilitate assembly and ensure proper sealing at the joint with filter housing. The ends are made using only 100% pure foodgrade polypropylene. During the process of connecting the ends, the connection is made by slightly melting the filter material and the end. Thanks to this technology, it is possible to obtain durable and tight connection without any additional components. DOE filter cartridges equipped with flat gaskets are made of closedpore polyethylene foam. These seals are glued with foodgrade, hotmelt, synthetic adhesive EVA.

G
SEAL

3F
222/FLAT

3S
222/SPEAR

4F
226/FLAT

7F
226/FLAT

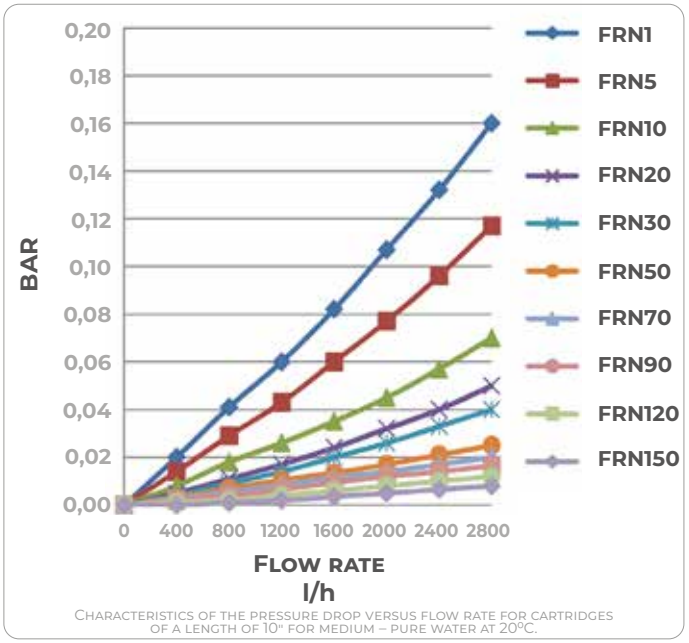
7S
226/SPEAR

Choose the filter cartridges combination options:

LENGTH "	FILTER TYPE	FILTRATION CLASS 95%	CORE MATERIAL	FILTRATION EFFICIENCY µm	FILTER END	O-RING
	FR	N				
5 **7** **9** **10** **19** **20** **29** **30** **39** **40**			**P** Polypropylene **S** Stainless steel 304 **R** Stainless steel 316	**1** **3** **5** **10** **20** **30** **40** **50** **70** **90** **120** **150**	**NON** DOE without ends **G**[1] flat gasket **3F** 222 O-ring/flat **3S** 222 O-ring/spear **4F** 222 with flat cap **7F** 226 O-ring/flat **7S** 226 O-ring/spear	**S** VMQ (Silicone) **V** FEP (Viton) **N** NBR **E** EPDM **T** FPM/FEP **X** FPM/VMQ

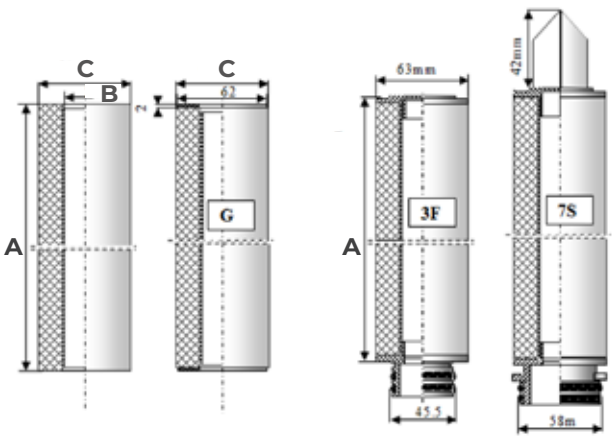
[1] AVAILABLE IN POLYETHYLENE FOAM ONLY.

▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 10" FOR MEDIUM – PURE WATER AT 20°C.

▸ KEY DIMENSIONS



! CARTRIDGES SHOULD BE REPLACED UPON OBSERVING A SIGNIFICANT LOSS OF PRESSURE OR AS REQUIRED BY THE SPECIFIED FILTRATION STANDARDS. !

FNN

Polyamide Cartridges

STANDARD Type | **95%** Efficiency | **PA** Material | **PA or Stailess Steel** Core

- **Wide filtration range from 1µ up to 150µ.**
- **Nominal filtration efficiency evaluated at 95 % (Beta 20).**
- **Different sizes, asymmetric position of the pores and multi-layer filtration structure increase the dust absorption of the cartridge.**
- **Large filtration area, long service life, minimised maintenance costs.**
- **Cartridge sealing adapted to filtration of different media.**
- **High chemical and biological resistance.**
- **Food grade cartridges.**

The **FNN** class nominal filter cartridges are made of polyamide 6.6 Thanks to unique technology of production the cartridges ensure filtration efficiency level of 95 % for particle sizes encoded in the identification markings.
FNN cartridges consist of one single layer of fibres wound on a core made of polyamide with addition of glass fibre.

Max Differential Pressure
6.2 bar @ 30°C
5.5 bar @ 70°C
4.8 bar @ 100°C
Only fiberglass reinforced polyamide 6.6 inner core

Recommended Differential Change-Out Pressure for Disposal
2.4 bar

Max Working Temperatures
120°C

Instantaneous Application Temperature
150°C

Code	Lenght (A)	Inner Ø (B)	Outer Ø (C)	Micron	Flow Rate	Quantity per Box	Box Dimensions	Box Dimensions for filter with Ends
		mm	mm		l/h	pcs	mm	mm
SNN05 050200 000	5"	28	64	1	400	60	340x215x540	365x225x620
SNN05 050500 000				5	600			
SNN05 050600 000				10	750			
SNN05 050700 000				20	900			
SNN05 051100 000				50	1200			
SNN05 051400 000				90	1300			
SNN05 090200 000	9" 3/4	28	64	1	800	30	340x215x540	365x225x620
SNN05 090500 000				5	1200			
SNN05 090700 000				20	1800			
SNN05 091100 000				50	2400			
SNN05 091400 000				90	2600			
SNN05 100200 000	10"	28	64	1	800	30	340x215x540	365x225x620
SNN05 100500 000				5	1200			
SNN05 100700 000				20	1800			
SNN05 101100 000				50	2400			
SNN05 101400 000				90	2600			
SNN05 200200 000	20"	28	64	1	1400	15	340x215x540	365x225x620
SNN05 200500 000				5	2200			
SNN05 200700 000				20	3400			
SNN05 201100 000				50	4000			
SNN05 201400 000				90	4400			
SNN05 300200 000	30"	28	64	1	2000	15	340x215x800	365x225x880
SNN05 300500 000				5	3200			
SNN05 300700 000				20	5000			
SNN05 301100 000				50	5600			
SNN05 301400 000				90	6400			
SNN05 400200 000	40"	28	64	1	2600	15	340x215x1040	365x225x1130
SNN05 400500 000				5	4200			
SNN05 400700 000				20	6600			
SNN05 401100 000				50	7200			
SNN05 401400 000				90	8200			

▸ OPTIONAL FILTER CARTRIDGES ENDS

Filter cartridges can be equipped with typical “ends” in order to facilitate assembly and ensure proper sealing at the joint with filter housing. The ends are made using only 100% pure foodgrade polypropylene. During the process of connecting the ends, the connection is made by slightly melting the filter material and the end. Thanks to this technology, it is possible to obtain durable and tight connection without any additional components. DOE filter cartridges equipped with flat gaskets are made of closedpore polyethylene foam. These seals are glued with foodgrade, hotmelt, synthetic adhesive EVA.

G
SEAL

3F
222/FLAT

3S
222/SPEAR

4F
226/FLAT

7F
226/FLAT

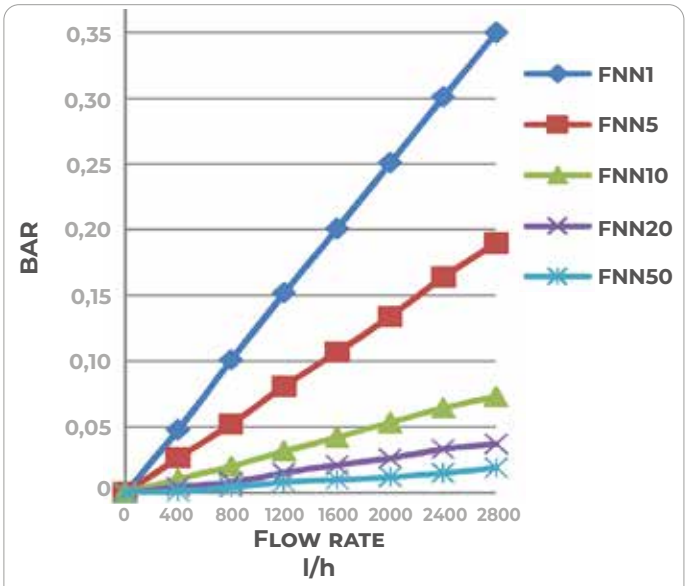
7S
226/SPEAR

Choose the filter cartridges combination options:

LENGTH "	FILTER TYPE	FILTRATION CLASS 95%	CORE MATERIAL	FILTRATION EFFICIENCY µm	FILTER END	O-RING
	FN	N				
5 7 9 10 19 20 29 30 39 40			**S** Stainless steel 304 **R** Stainless steel 316 **N** Polyamide	1 3 5 10 20 30 40 50 70 90 120 150	**NON** DOE without ends **G**[1] flat gasket **3F** 222 O-ring/flat **3S** 222 O-ring/spear **4F** 222 with flat cap **7F** 226 O-ring/flat **7S** 226 O-ring/spear	**S** VMQ (Silicone) **V** FEP (Viton) **N** NBR **E** EPDM **T** FPM/FEP **X** FPM/VMQ

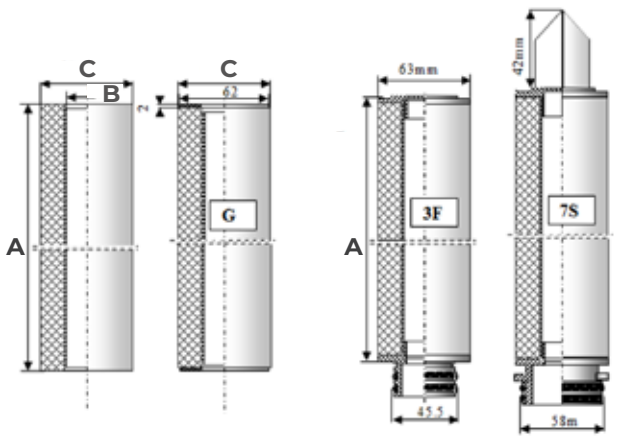
[1] AVAILABLE IN POLYETHYLENE FOAM ONLY.

▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 10" FOR MEDIUM – PURE WATER AT 20°C.

▸ KEY DIMENSIONS



! *CARTRIDGES SHOULD BE REPLACED UPON OBSERVING A SIGNIFICANT LOSS OF PRESSURE OR AS REQUIRED BY THE SPECIFIED FILTRATION STANDARDS.* !

FEN

Polyester Cartridges

STANDARD Type | **95%** Efficiency | **PBT** Material | **PBT or Stailess Steel** Core

- **Wide filtration range from 1µ up to 150µ.**
- **Nominal filtration efficiency evaluated at 95 % (Beta 20).**
- **Different sizes, asymmetric position of the pores and multi-layer filtration structure increase the dust absorption of the cartridge.**
- **Large filtration area, long service life, minimised maintenance costs.**
- **Cartridge sealing adapted to filtration of different media.**
- **High chemical and biological resistance.**
- **Food grade cartridges.**

The **FEN** class nominal filter cartridges are made of Polyester. Thanks to unique technology of production the cartridges ensure filtration efficiency level of 95 % for particle sizes encoded in the identification markings.
FEN cartridges consist of one single layer of fibers wound on a core made of polyamide with addition of glass fiber.

Max Differential Pressure
5.0 bar @ 25°C

Recommended Differential Change-Out Pressure for Disposal
2.4 bar

Max Working Temperatures
120°C

Instantaneous Application Temperature
150°C

Code	Lenght (A)	Inner Ø (B)	Outer Ø (C)	Micron	Flow Rate	Quantity per Box	Box Dimensions	Box Dimensions for filter with Ends
		mm	mm		l/h	pcs	mm	mm
SEE05 050200 000				1	350			
SEE05 050500 000				5	400			
SEE05 050600 000	5"	28	64	10	750	60	340x215x540	365x225x620
SEE05 050700 000				20	800			
SEE05 051100 000				50	1000			
SEE05 051400 000				90				
SEE05 090200 000				1	600			
SEE05 090500 000				5	750			
SEE05 090700 000	9" 3/4	28	64	20	1300	30	340x215x540	365x225x620
SEE05 091100 000				50	1500			
SEE05 091400 000				90	1900			
SEE05 100200 000				1	600			
SEE05 100500 000				5	750			
SEE05 100700 000	10"	28	64	20	1300	30	340x215x540	365x225x620
SEE05 101100 000				50	1500			
SEE05 101400 000				90	1800			
SEE05 200200 000				1	1100			
SEE05 200500 000				5	1400			
SEE05 200700 000	20"	28	64	20	2400	15	340x215x540	365x225x620
SEE05 201100 000				50	2800			
SEE05 201400 000				90	3400			
SEE05 300200 000				1	1600			
SEE05 300500 000				5	2100			
SEE05 300700 000	30"	28	64	20	3500	15	340x215x800	365x225x880
SEE05 301100 000				50	4100			
SEE05 301400 000				90	5000			
SEE05 400200 000				1	2100			
SEE05 400500 000				5	2800			
SEE05 400700 000	40"	28	64	20	4600	15	340x215x1040	365x225x1130
SEE05 401100 000				50	5600			
SEE05 401400 000				90	6600			

▸ OPTIONAL FILTER CARTRIDGES ENDS

Filter cartridges can be equipped with typical “ends” in order to facilitate assembly and ensure proper sealing at the joint with filter housing. The ends are made using only 100% pure foodgrade polypropylene. During the process of connecting the ends, the connection is made by slightly melting the filter material and the end. Thanks to this technology, it is possible to obtain durable and tight connection without any additional components. DOE filter cartridges equipped with flat gaskets are made of closedpore polyethylene foam. These seals are glued with foodgrade, hotmelt, synthetic adhesive EVA.

G
SEAL

3F
222/FLAT

3S
222/SPEAR

4F
226/FLAT

7F
226/FLAT

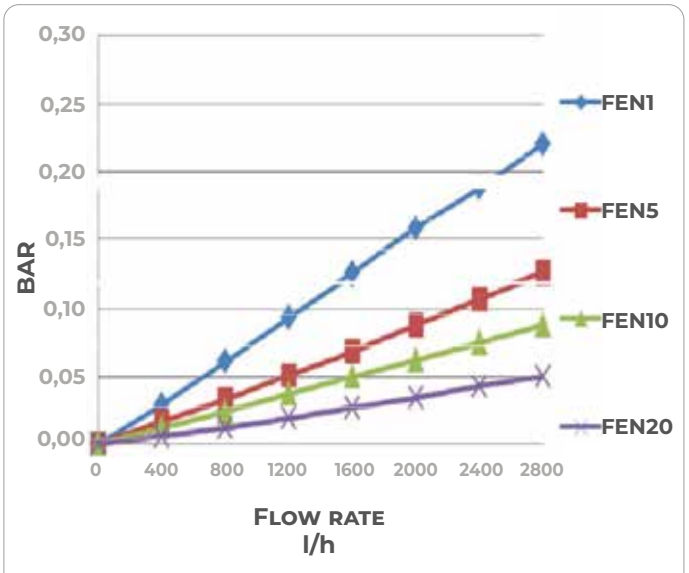
7S
226/SPEAR

Choose the filter cartridges combination options:

LENGTH "	FILTER TYPE	FILTRATION CLASS 95%	CORE MATERIAL	FILTRATION EFFICIENCY µm	FILTER END	O-RING
	FE	N				
5 7 9 10 19 20 29 30 39 40			**S** Stainless steel 304 **R** Stainless steel 316 **E** Polyester	1 3 5 10 20 30 40 50 70 90 120 150	**NON** DOE without ends **G**[1] flat gasket **3F** 222 O-ring/flat **3S** 222 O-ring/spear **4F** 222 with flat cap **7F** 226 O-ring/flat **7S** 226 O-ring/spear	**S** VMQ (Silicone) **V** FEP (Viton) **N** NBR **E** EPDM **T** FPM/FEP **X** FPM/VMQ

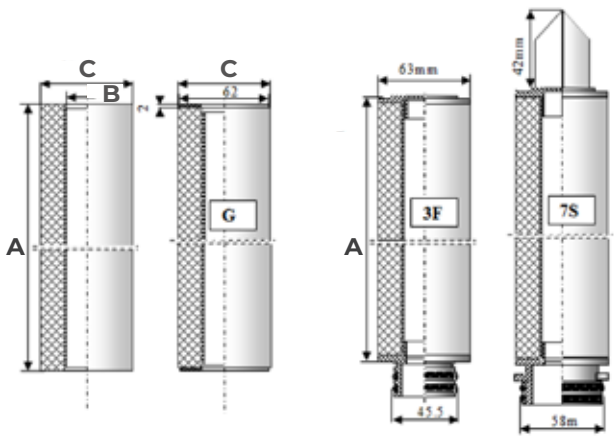
[1] AVAILABLE IN POLYETHYLENE FOAM ONLY.

▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 10" FOR MEDIUM – PURE WATER AT 20°C.

▸ KEY DIMENSIONS

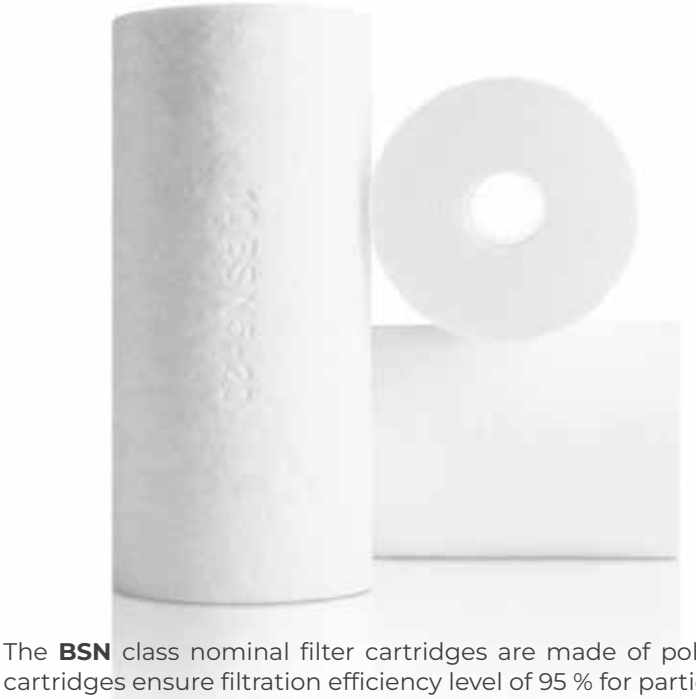


! *CARTRIDGES SHOULD BE REPLACED UPON OBSERVING A SIGNIFICANT LOSS OF PRESSURE OR AS REQUIRED BY THE SPECIFIED FILTRATION STANDARDS.* !

BSN

Polypropylene Cartridges

BLUSEC Type | **95%** Efficiency | **PP** Material | **PP** Core



- Wide filtration range from 1µ up to 90µ.
- Nominal filtration efficiency evaluated at 95 % (Beta 20).
- Different sizes, asymmetric position of the pores and multi-layer filtration structure increase the dust absorption of the cartridge.
- Large filtration area, long service life, minimised maintenance costs.
- High chemical and biological resistance.
- Food grade cartridges.

The **BSN** class nominal filter cartridges are made of polypropylene. Thanks to unique technology of production the cartridges ensure filtration efficiency level of 95 % for particle sizes encoded in the identification markings.
BSN cartridges consist of two layers of fibers wound on a polypropylene core. The outer layer serves as a pre-filter, and the inner layer acts as a final filter.

Max Differential Pressure	Recommended Differential Change-Out Pressure for Disposal	Max Working Temperatures	Instantaneous Application Temperature
5.0 bar @ 25°C	**2.4 bar**	**80°C**	**120°C**

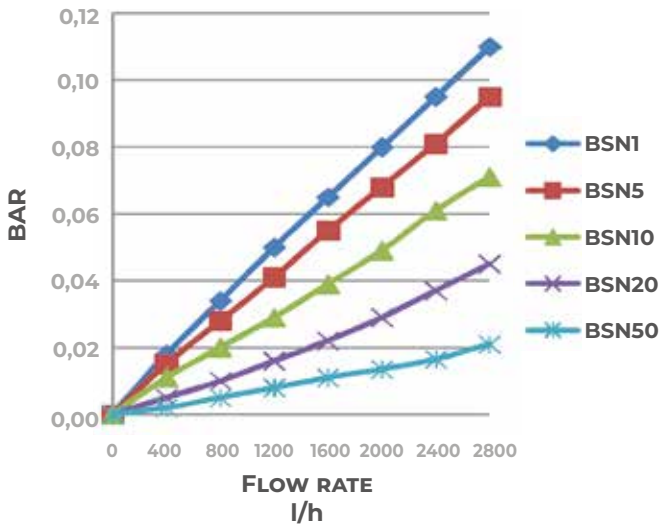
Code	Lenght (A)	Inner Ø (B)	Outer Ø (C)	Micron	Flow Rate	Quantity per Box	Box Dimensions
		mm	mm		l/h	pcs	mm
SPP08 090205 000	9" 3/4	28	115	1/5	1000	8	260x260x530
SPP08 090507 000				5/20	1600		
SPP08 090609 000				10/30	2500		
SPP08 090711 000				20/50	2800		
SPP08 091114 000				50/90	3000		
SPP08 100205 000	10"	28	115	1/5	1000	8	260x260x530
SPP08 100507 000				5/20	1600		
SPP08 100609 000				10/30	2500		
SPP08 100711 000				20/50	2800		
SPP08 101114 000				50/90	3000		
SPP08 200205 000	20"	28	115	1/5	1800	4	260x260x530
SPP08 200507 000				5/20	2800		
SPP08 200609 000				10/30	4300		
SPP08 200711 000				20/50	4800		
SPP08 201114 000				50/90	5200		
SPP08 300205 000	30"	28	115	1/5	2700	4	260x260x800
SPP08 300507 000				5/20	4300		
SPP08 300609 000				10/30	6400		
SPP08 300711 000				20/50	7300		
SPP08 301114 000				50/90	7800		
SPP08 400205 000	40"	28	115	1/5	3500	4	260x260x1040
SPP08 400507 000				5/20	5400		
SPP08 400609 000				10/30	8500		
SPP08 400711 000				20/50	9500		
SPP08 401114 000				50/90	9800		

▸ OPTIONAL FILTER CARTRIDGES

Choose the filter cartridges combination options:

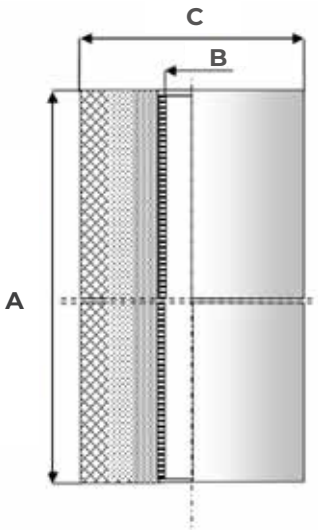
LENGTH "	FILTER TYPE	FILTRATION EFFICIENCY µm
	BSN	
9 3/4 10 20 30 40		1/5 5/20 10/30 20/50 50/90

▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 10" FOR MEDIUM – PURE WATER AT 20°C.

▸ KEY DIMENSIONS



! *CARTRIDGES SHOULD BE REPLACED UPON OBSERVING A SIGNIFICANT LOSS OF PRESSURE OR AS REQUIRED BY THE SPECIFIED FILTRATION STANDARDS.* !

BHN

Polypropylene Cartridges

BLUSEC HIGH FLOW Type | **95%** Efficiency | **PP** Material | **PP** Core

- **Wide filtration range from 1µ up to 90µ.**
- **Nominal filtration efficiency evaluated at 95 % (Beta 20).**
- **Different sizes, asymmetric position of the pores and multi-layer filtration structure increase the dust absorption of the cartridge.**
- **Large filtration area, long service life, minimised maintenance costs.**
- **High chemical and biological resistance.**
- **Food grade cartridges.**

The **BHN** class nominal filter cartridges are made of polypropylene. Thanks to unique technology of production the cartridges ensure filtration efficiency level of 95 % for particle sizes encoded in the identification markings.
BHN cartridges consist of two layers of fibers wound on a polypropylene core. The outer layer serves as a pre-filter, and the inner layer acts as a final filter.

Max Differential Pressure	Recommended Differential Change-Out Pressure for Disposal	Max Working Temperatures	Instantaneous Application Temperature
5.0 bar @ 25°C	**2.4 bar**	**80°C**	**120°C**

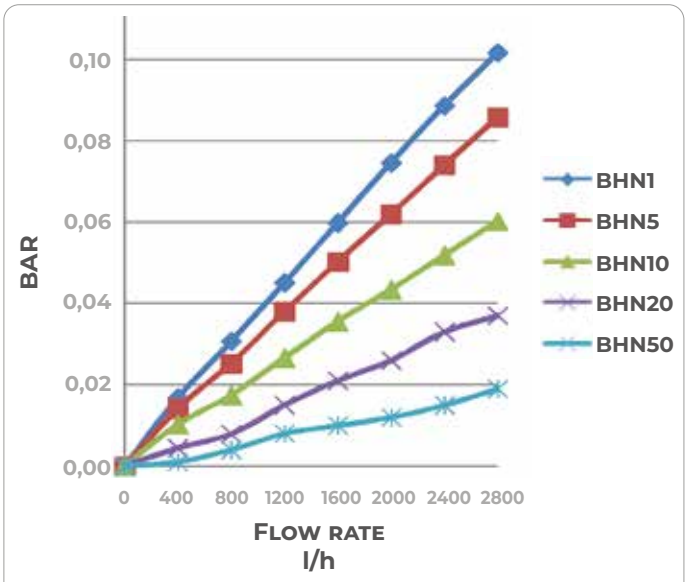
Code	Lenght (A)	Inner Ø (B)	Outer Ø (C)	Micron	Flow Rate	Quantity per Box	Box Dimensions
		mm	mm		l/h	pcs	mm
SPP17 090205 000	9" 3/4	36	115	1/5	1200	8	260x260x530
SPP17 090507 000				5/20	1800		
SPP17 090609 000				10/30	2700		
SPP17 090711 000				20/50	3000		
SPP17 091114 000				50/90	3200		
SPP17 100205 000	10"	36	115	1/5	1200	8	260x260x530
SPP17 100507 000				5/20	1800		
SPP17 100609 000				10/30	2700		
SPP17 100711 000				20/50	3000		
SPP17 101114 000				50/90	3200		
SPP17 200205 000	20"	36	115	1/5	2000	4	260x260x530
SPP17 200507 000				5/20	3000		
SPP17 200609 000				10/30	4600		
SPP17 200711 000				20/50	5100		
SPP17 201114 000				50/90	5500		
SPP17 300205 000	30"	36	115	1/5	3000	4	260x260x800
SPP17 300507 000				5/20	4600		
SPP17 300609 000				10/30	6700		
SPP17 300711 000				20/50	7600		
SPP17 301114 000				50/90	8100		
SPP17 400205 000	40"	36	115	1/5	2600	4	260x260x1040
SPP17 400507 000				5/20	3200		
SPP17 400609 000				10/30	4500		
SPP17 400711 000				20/50	6200		
SPP17 401114 000				50/90	7500		

▸ OPTIONAL FILTER CARTRIDGES

Choose the filter cartridges combination options:

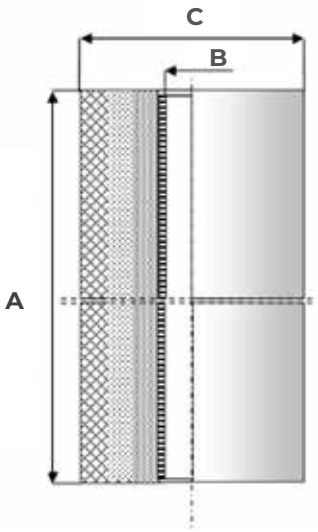
LENGTH "	FILTER TYPE	FILTRATION EFFICIENCY µm
	BHN	
9 3/4 10 20 30 40		1/5 5/20 10/30 20/50 50/90

▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 10" FOR MEDIUM – PURE WATER AT 20°C.

▸ KEY DIMENSIONS



! *CARTRIDGES SHOULD BE REPLACED UPON OBSERVING A SIGNIFICANT LOSS OF PRESSURE OR AS REQUIRED BY THE SPECIFIED FILTRATION STANDARDS.* !

CLN

CORLESS TYPE | **95%** EFFICIENCY | **PP** MATERIAL

POLYPROPYLENE CARTRIDGES

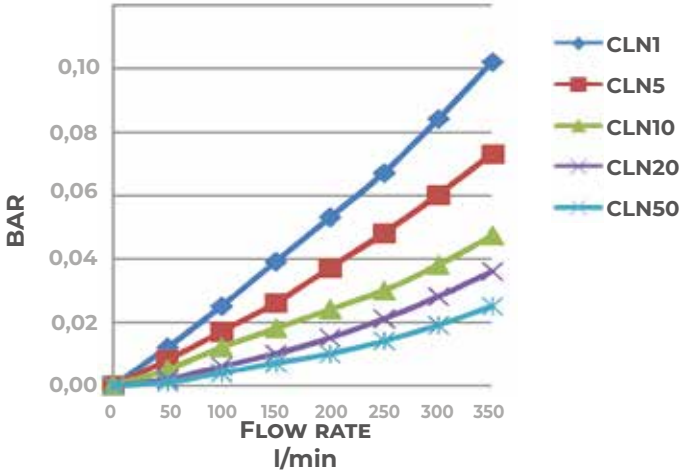
- WIDE FILTRATION RANGE FROM 1µ UP TO 150µ.
- NOMINAL FILTRATION EFFICIENCY EVALUATED AT 95 % (BETA 20).
- DIFFERENT SIZES, ASYMMETRIC POSITION OF THE PORES AND MULTI-LAYER FILTRATION STRUCTURE INCREASE THE DUST ABSORPTION OF THE CARTRIDGE.
- LARGE FILTRATION AREA, LONG SERVICE LIFE, MINIMISED MAINTENANCE COSTS.
- HIGH CHEMICAL AND BIOLOGICAL RESISTANCE.
- FOOD GRADE CARTRIDGES.

The **CLN** class nominal filter cartridges are made of polypropylene. Thanks to unique technology of production the cartridges ensure filtration efficiency level of 95% for particle sizes encoded in the identification markings.
CLN cartridges consist in one single layer of fibres forming a uniform filtration structure.

MAX DIFFERENTIAL PRESSURE	RECOMMENDED DIFFERENTIAL CHANGE-OUT PRESSURE FOR DISPOSAL	MAX WORKING TEMPERATURES	INSTANTANEOUS APPLICATION TEMPERATURE
5.0 bar @ 25°C	**2.4 bar**	**80°C**	**120°C**

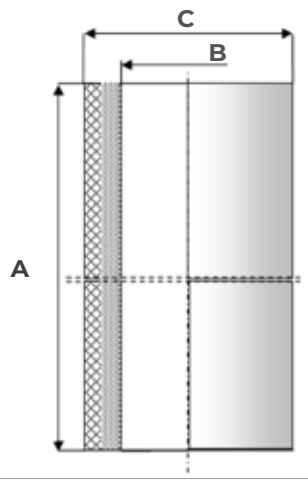
CODE	LENGHT (A)	INNER Ø (B)	OUTER Ø (C)	MICRON	FLOW RATE	QUANTITY PER BOX	BOX DIMENSIONS
		mm	mm		l/h	pcs	mm
SPX13 200200 000	20"	115	152	1	2500	8	325x325x1040
SPX13 200500 000				5	3500		
SPX13 200700 000				20	6000		
SPX13 201100 000				50	6500		
SPX13 201400 000				90	7000		
SPX13 400200 000	40"	115	152	1	4800	4	325x325x1040
SPX13 400500 000				5	6500		
SPX13 400700 000				20	11000		
SPX13 401100 000				50	12000		
SPX13 401400 000				90	13000		

▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 20" FOR MEDIUM – PURE WATER AT 20°C.

▸ KEY DIMENSIONS



! *CARTRIDGES SHOULD BE REPLACED UPON OBSERVING A SIGNIFICANT LOSS OF PRESSURE OR AS REQUIRED BY THE SPECIFIED FILTRATION STANDARDS.* !

CNN

CORLESS TYPE | **95%** EFFICIENCY | **PA** MATERIAL

POLYAMIDE CARTRIDGES

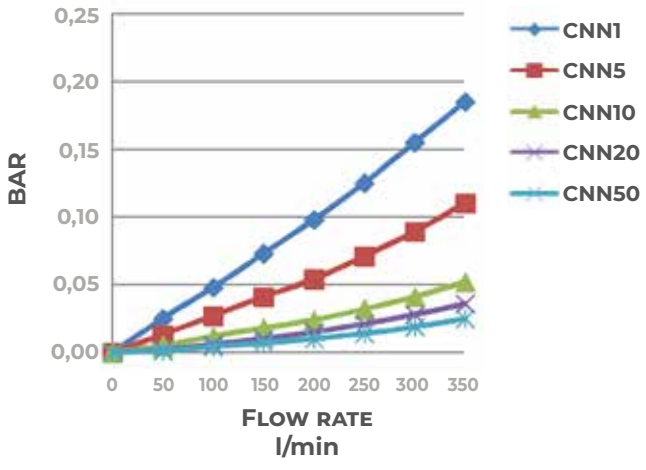
- WIDE FILTRATION RANGE FROM 1µ UP TO 150µ.
- NOMINAL FILTRATION EFFICIENCY EVALUATED AT 95 % (BETA 20).
- DIFFERENT SIZES, ASYMMETRIC POSITION OF THE PORES AND MULTI-LAYER FILTRATION STRUCTURE INCREASE THE DUST ABSORPTION OF THE CARTRIDGE.
- LARGE FILTRATION AREA, LONG SERVICE LIFE, MINIMISED MAINTENANCE COSTS.
- HIGH CHEMICAL AND BIOLOGICAL RESISTANCE.
- FOOD GRADE CARTRIDGES.

The **CNN** class nominal filter cartridges are made of polyamide 6.6. Thanks to unique technology of production the cartridges ensure filtration efficiency level of 95 % for particle sizes encoded in the identification markings. **CNN** cartridges consist in one single layer of fibres forming a uniform filtration structure.

MAX DIFFERENTIAL PRESSURE	RECOMMENDED DIFFERENTIAL CHANGE-OUT PRESSURE FOR DISPOSAL	MAX WORKING TEMPERATURES	INSTANTANEOUS APPLICATION TEMPERATURE
5.0 bar @ 25°C	**2.4 bar**	**120°C**	**150°C**

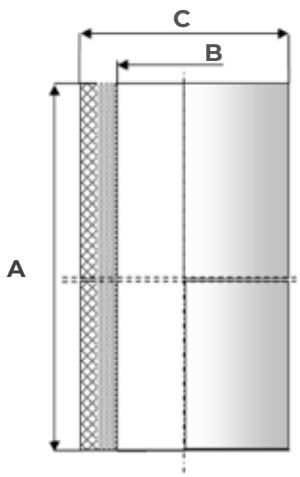
CODE	LENGHT (A)	INNER Ø (B)	OUTER Ø (C)	MICRON	FLOW RATE	QUANTITY PER BOX	BOX DIMENSIONS
		mm	mm		l/h	pcs	mm
SNX13 200200 000	20"	115	152	1	2000	8	325x325x1040
SNX13 200500 000				5	2800		
SNX13 200700 000				20	4800		
SNX13 201100 000				50	5200		
SNX13 201400 000				90	5600		
SNX13 400200 000	40"	115	152	1	3900	4	325x325x1040
SNX13 400500 000				5	5200		
SNX13 400700 000				20	8800		
SNX13 401100 000				50	9600		
SNX13 401400 000				90	10400		

▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 20" FOR MEDIUM – PURE WATER AT 20°C.

▸ KEY DIMENSIONS



! *CARTRIDGES SHOULD BE REPLACED UPON OBSERVING A SIGNIFICANT LOSS OF PRESSURE OR AS REQUIRED BY THE SPECIFIED FILTRATION STANDARDS.* !

FON

Polypropylene Cartridges

FONSEC Type | **95%** Efficiency | **PP** Material | **PP** Core

- **Wide filtration range from 1µ up to 150µ.**
- **Nominal filtration efficiency evaluated at 95 % (Beta 20).**
- **Different sizes, asymmetric position of the pores and multi-layer filtration structure increase the dust absorption of the cartridge.**
- **Large filtration area, long service life, minimised maintenance costs.**
- **High chemical and biological resistance.**
- **Food grade cartridges.**
- **O-Ring available: Silicone, EPDM, Viton, NBR.**

The **FON** class nominal filter cartridges are made of polypropylene. Thanks to unique technology of production the cartridges ensure filtration efficiency level of 95% for particle sizes encoded in the identification markings.
FON cartridges consist of two successive layers of fibers forming a uniform filtration structure. The outer layer serves as a pre-filter, and the inner layer acts as a final filter. The filter is also available in a single-layer version.

Max Differential Pressure
5.0 bar @ 25°C

Recommended Differential Change-Out Pressure for Disposal
2.4 bar

Max Working Temperatures
80°C

Instantaneous Application Temperature
120°C

Code	Lenght (A)	Inner Ø (B)	Outer Ø (C)	Micron	Flow Rate	Quantity per Box	Box Dimensions
		mm	mm		l/h	pcs	mm
SPP30 230205 000				1/5	2700		
SPP30 230507 000				5/20	3800		
SPP30 230711 000	23"	78	148	20/50	6500	1	165x165x740
SPP30 231114 000				50/90	7100		
SPP30 231416 000				90/120	7700		
SPP30 400205 000				1/5	4800		
SPP30 400507 000				5/20	6500		
SPP30 400711 000	40"	78	148	20/50	11000	1	165x165x1160
SPP30 401114 000				50/90	12000		
SPP30 401416 000				90/120	13000		

▸ OPTIONAL FILTER CARTRIDGES ENDS

Filter cartridges can be equipped with typical “ends” in order to facilitate assembly and ensure proper sealing at the joint with filter housing. The ends are made using only 100% pure foodgrade polypropylene. During the process of connecting the ends, the connection is made by slightly melting the filter material and the end. Thanks to this technology, it is possible to obtain durable and tight connection without any additional components. DOE filter cartridges equipped with flat gaskets are made of closedpore polyethylene foam. These seals are glued with foodgrade, hotmelt, synthetic adhesive EVA.

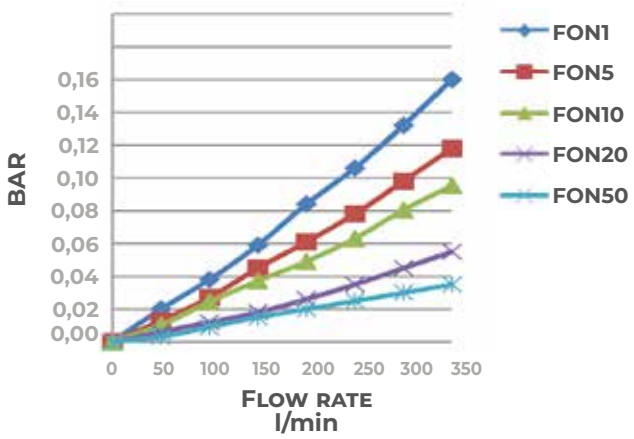
NON
DOE without ends

F ONE

Choose the filter cartridges combination options:

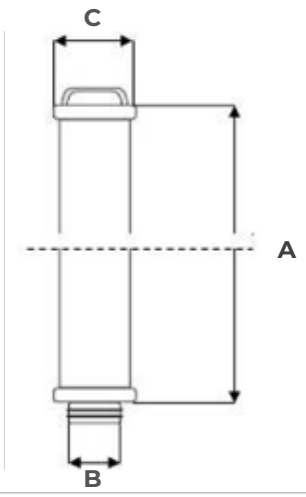
LENGTH "	FILTER TYPE	FILTRATION EFFICIENCY µm	FILTER END	O-RING
	FON			
23 **40**		**1/5** **5/20** **20/50** **50/90** **90/120**	**NON** DOE without ends **F ONE**	**SE** Silicone **VE** Viton **NE** NBR **EE** EPDM

▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 23" FOR MEDIUM – PURE WATER AT 20°C.

▸ KEY DIMENSIONS



! *CARTRIDGES SHOULD BE REPLACED UPON OBSERVING A SIGNIFICANT LOSS OF PRESSURE OR AS REQUIRED BY THE SPECIFIED FILTRATION STANDARDS.* !

3.

EKOSEC • Economical Filter Cartridges p. **48**

EKOSEC

Economical Filter Cartridges

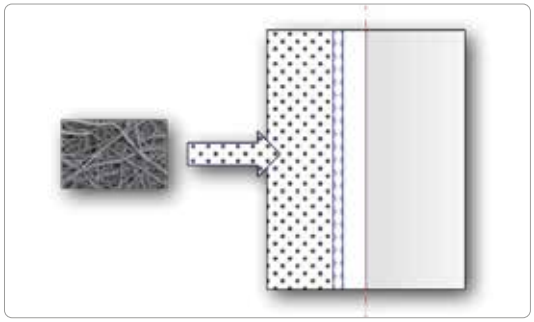
Cost-Effective, High-Efficiency Melt Blown Filter Cartridges

These cartridges offer reliable, high-efficiency filtration for a broad range of liquids containing solid contaminants.

Utilizing 100% pure polypropylene and a specialized melt blowing process, molten fibers are thermally bonded through continuous rotation creating a uniform, depth-type filter matrix, ensuring consistent, uniform filtration across the entire cartridge surface.

▸ Special Features

- High range of filtration 1 µ to 50 µ;
- High filtration efficiency of 80 % (beta 5);
- Large depth filtration;
- Filtration over the entire surface;
- High compressive strength;
- Low pressure drop;
- No impurities or free particles;
- No pollution or free particles;
- Approved for contact with food.

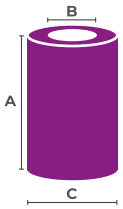


▸ Applications

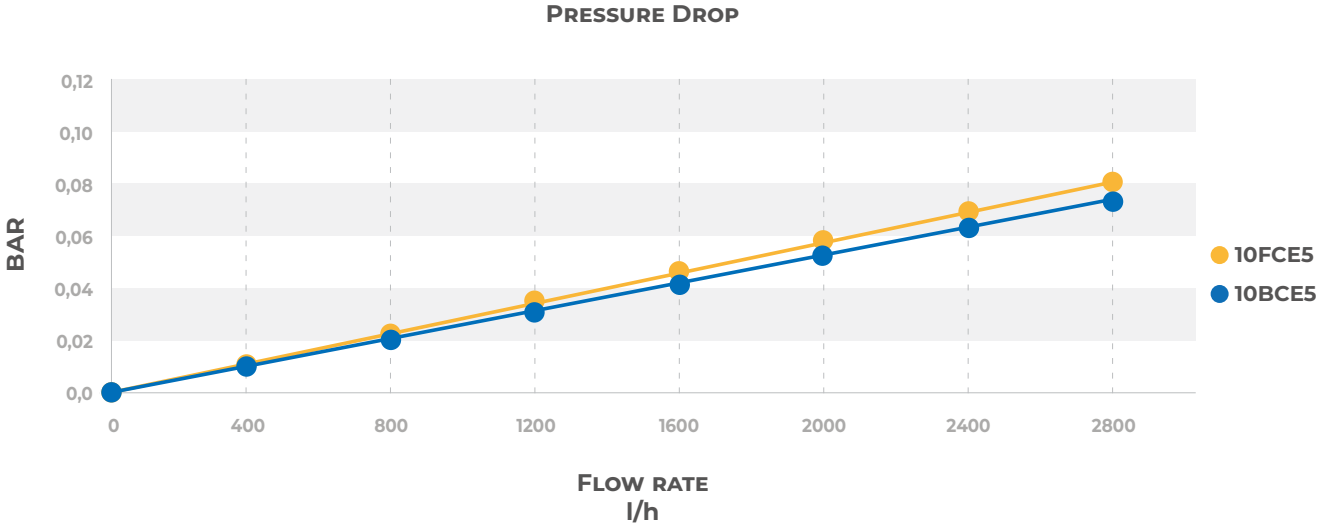
- Oil and Gas Industry
- Pharmaceutica Industry
- Water Treatment
- Cosmetic Industry
- Food and Beverage Industry
- Chemical Industry
- Electronic Manufacturing

▸ TECHNICAL DETAILS OF ECONOMICAL FILTER CARTRIDGES

TYPE CLASS	STANDARD ECO	BLUSEC
	FCE	BCE
MATERIAL	100% PP	100% PP
CORE	-	-
ENDS	-	-
LENGTH (A)	9" 3/4 10" 20" 30" 40"	9" 3/4 10" 20"
INNER DIAMETER (B)	28 mm	28 mm
OUTER DIAMETER (C)	60 mm	100 mm
MICRON RATING	1 5 10 20 50	1 5 10 20 50
EFFICIENCY	80%	80%
MAX WORKING TEMPERATURE	80°C	80°C



▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 20" (FILTERONE CARTRIDGE 23") FOR MEDIUM – PURE WATER AT 20°C.

FCE

Polypropylene Cartridges

STANDARD ECO Type | **80%** Efficiency | **PP** Material

- **Wide filtration range from 1µ up to 50µ.**
- **Economical filtration efficiency evaluated at 80 % (Beta 5).**
- **Different sizes, asymmetric position of the pores and multi-layer filtration structure increase the dust absorption of the cartridge.**
- **Large filtration area, long service life, minimised maintenance costs.**
- **High chemical and biological resistance.**
- **Food grade cartridges.**

The **FCE** class economic filter cartridges are made of polypropylene. Thanks to unique technology of production the cartridges ensure filtration efficiency level of 80 % for particle sizes encoded in the identification markings.
FCE cartridges consist of one single layer of filtration fibres manufactured as continuously formed coreless cartridges. The porosity of the layer varies in such a way as to minimise pressure drop and maximise cartridge absorption while maintaining the filtration efficiency of 80 %.

Max Differential Pressure	Recommended Differential Change-Out Pressure for Disposal	Max Working Temperatures	Instantaneous Application Temperature
2.0 bar @ 25°C	**1.2 bar**	**80°C**	**120°C**

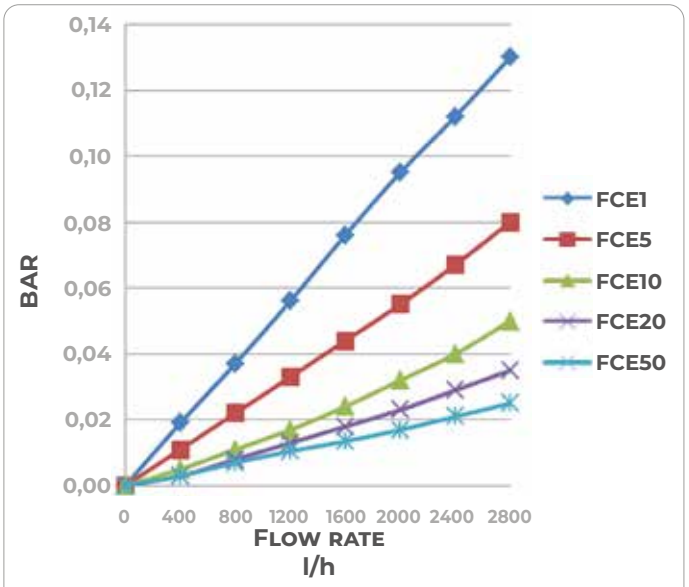
Code	Lenght (A)	Inner Ø (B)	Outer Ø (C)	Micron	Flow Rate	Quantity per Box	Box Dimensions
		mm	mm		l/h	pcs	mm
SPC06 090200 000	9" 3/4	28	60	1	1000	60	340x215x1040
SPC06 090500 000				5	1600		
SPC06 090700 000				20	2500		
SPC06 091100 000				50	2600		
SPC06 100200 000	10"	28	60	1	1000	60	340x215x1040
SPC06 100500 000				5	1600		
SPC06 100700 000				20	2500		
SPC06 101100 000				50	2600		
SPC06 200200 000	20"	28	60	1	1800	30	340x215x1040
SPC06 200500 000				5	2800		
SPC06 200700 000				20	4300		
SPC06 201100 000				50	4500		
SPC06 300200 000	30"	28	60	1	2700	15	340x215x800
SPC06 300500 000				5	4300		
SPC06 300700 000				20	6400		
SPC06 301100 000				50	6700		
SPC06 400200 000	40"	28	60	1	3500	15	340x215x1040
SPC06 400500 000				5	5400		
SPC06 400700 000				20	8500		
SPC06 401100 000				50	9000		

▸ OPTIONAL FILTER CARTRIDGES

Choose the filter cartridges combination options:

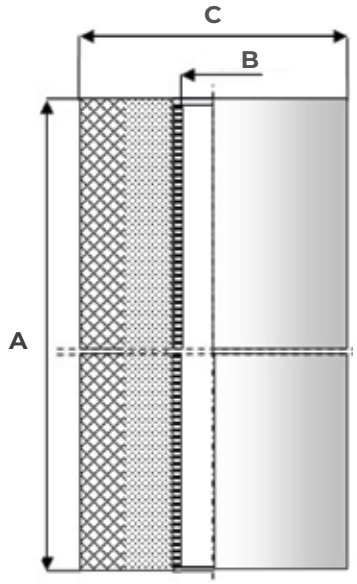
LENGTH "	FILTER TYPE	FILTRATION EFFICIENCY µm
	FCE	
9 3/4		1
10		5
20		10
30		20
40		50

▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 10" FOR MEDIUM – PURE WATER AT 20°C.

▸ KEY DIMENSIONS



! *CARTRIDGES SHOULD BE REPLACED UPON OBSERVING A SIGNIFICANT LOSS OF PRESSURE OR AS REQUIRED BY THE SPECIFIED FILTRATION STANDARDS.* !

BCE

Polypropylene Cartridges

BLUSEC Type | **80%** Efficiency | **PP** Material

- Wide filtration range from 1µ up to 50µ.
- Economical filtration efficiency evaluated at 80 % (Beta 5).
- Different sizes, asymmetric position of the pores and multi-layer filtration structure increase the dust absorption of the cartridge.
- Large filtration area, long service life, minimised maintenance costs.
- High chemical and biological resistance.
- Food grade cartridges.

The **BCE** class economic filter cartridges are made of polypropylene. Thanks to unique technology of production the cartridges ensure filtration efficiency level of 85 % for particle sizes encoded in the identification markings.
BCE cartridges consist of one single layer of fibres.

Max Differential Pressure
2.0 bar @ 25°C

Recommended Differential Change-Out Pressure for Disposal
1.2 bar

Max Working Temperatures
80°C

Instantaneous Application Temperature
120°C

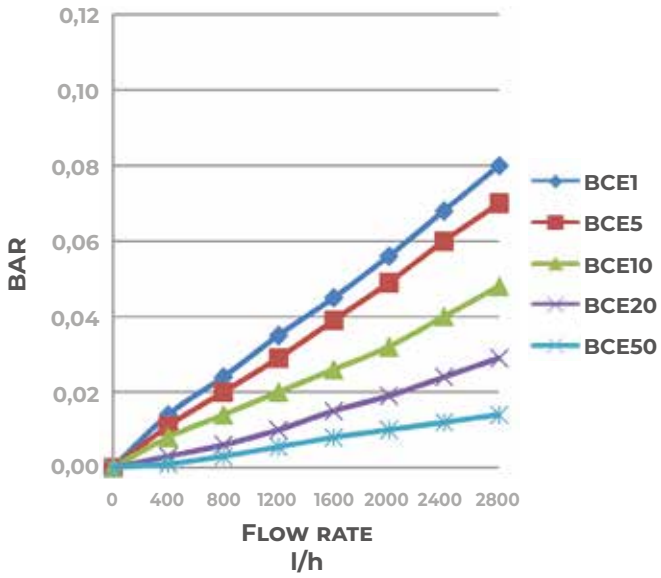
Code	Lenght (A)	Inner Ø (B)	Outer Ø (C)	Micron	Flow Rate	Quantity per Box	Box Dimensions
		mm	mm		l/h	pcs	mm
SPC09 090200 000				1	1000		
SPC09 090500 000				5	1600		
SPC09 090700 000	9" 3/4	28	100	20	2500	24	340x215x1040
SPC09 091100 000				50	2800		
SPC09 091400 000				90	3000		
SPC09 100200 000				1	1000		
SPC09 100500 000				5	1600		
SPC09 100700 000	10"	28	100	20	2500	24	340x215x1040
SPC09 101100 000				50	2800		
SPC09 101400 000				90	3000		
SPC09 200200 000				1	1800		
SPC09 200500 000				5	2800		
SPC09 200700 000	20"	28	100	20	4300	12	340x215x1040
SPC09 201100 000				50	4800		
SPC09 201400 000				90	5200		

▸ OPTIONAL FILTER CARTRIDGES

Choose the filter cartridges combination options:

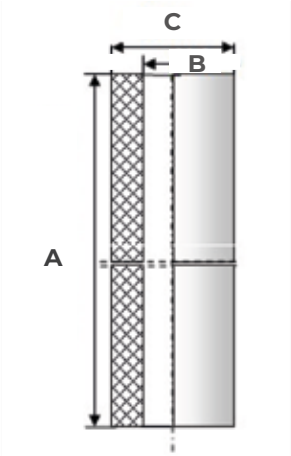
LENGTH "	FILTER TYPE	FILTRATION EFFICIENCY µm
10 20	BCE	1 5 10 20 50

▸ FLOW RATE VS PRESSURE DROP



CHARACTERISTICS OF THE PRESSURE DROP VERSUS FLOW RATE FOR CARTRIDGES OF A LENGTH OF 10" FOR MEDIUM – PURE WATER AT 20°C.

▸ KEY DIMENSIONS



! *CARTRIDGES SHOULD BE REPLACED UPON OBSERVING A SIGNIFICANT LOSS OF PRESSURE OR AS REQUIRED BY THE SPECIFIED FILTRATION STANDARDS.* !

4.

Draining bags
Absorbents
Filter Sheets

DRAINING BAGS

PP
Material

50°C
Max Application Temperature

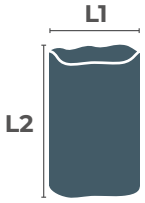
- Wide range of applications in sludge separation.
- Different sizes and asymmetric position of pores of the filtration structure increases filtration performance.
- Large filtration area, long service life, minimised maintenance costs.
- High chemical and biological resistance.

Woven draining bags are made of polypropylene and the filter material is glued inside. Thanks to the unique technology of production, the material inside the bag guarantees high filtration efficiency for difficulttofilter sludge.
The draining bags are manufactured based on weaving technology and hot gluing filtering material which ensures high mechanical strength of the product.
Woven draining bags consist of two layers of material suitably connected to each other. The outer layer acts as a support structure, enhancing the mechanical strength of the filter, and the inner layer as the final separator.

▸ TYPICAL APPLICATIONS

- Dewatering of food industry sludge;
- Treatment of wastewater from washing bottles and other packaging;
- Separation of sludge from the process of iron removal from water;
- Cleaning of electroplating baths;
- Dewatering of sludge from the process of plating wastewater treatment;
- Treatment of water and other circulation liquids,
- Dewatering of sludge from continuous separators;
- Dewatering of oil and water coolant sludge;
- Dewatering of chromium hydroxide from the process of tanning wastewater treatment;
- Removal of used coolant sludge;
- Separation of sludge from filling station settling tank;
- Treatment of wastewater from washing cars.

▸ DIMENSIONS



Dimensions		Quantity per Box
cm		pcs
L1	L2	
55	85	50
65	105	30

▸ IDENTIFICATION MARKING

Choose the bags combination options:

TYPE	DIMENSIONS
WO	

55x85
cm
65x105
cm

ABSORBENTS

PP
MATERIAL

Polypropylene sorbents exhibit hydrophobic properties, characterized by high moisture absorbing liquid absorbed approx. 600% - 1000%.
Polypropylene sorbents as selective materials are used to reduce and collect spills of oil and petroleum derivatives from the surface of the water.
These are materials unsinkable even at high saturation absorbed liquid. Do not absorb water, can be used in the rain.
Sorbents are in the form: mat, handkerchief.

FILTER SHEETS

PP
Material

50°C
Max Application Temperature

- ▸Wide range of applications in sludge separation.
- ▸Different sizes, asymmetric position of the pores and layered filtration structure increase filtrate performance.
- ▸Large filtration area, long service life, minimised maintenance costs.
- ▸High chemical and biological resistance.

Filter sheets with high filtration efficiency are designed to filter air or liquids containing solid contaminants. They are used in the locations where extremely high quality of filtration is required.
Thanks to a special technology it is possible to manufacture them using only 100% pure polypropylene. During the manufacturing process, molten polypropylene is blown with hot compressed air and, as a result, polypropylene fibres are formed.
They are then placed on a rigid drum through constant and continuous rotation. During this process, the polypropylene fibres are bonded together forming connections, and thermal bridges, and eliminating loose fibres.
The result is a multilayer filtration system, which guarantees a uniform filtration along the entire surface of the sheet. Two types of filter sheets are distinguished, ie. soft sheets (air filtration) and hard sheets (liquid filtration).

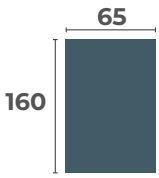
▸ TECHNICAL PARAMETERS HARD FILTER SHEETS WPT_T

Parameter	WPT6T	WPT9T	WPT12T	WPT20T
Size (mm)	0,6 - 0,7	0,9 - 1,1	1,2 - 1,4	2,0 - 2,2
Surface Mass (Gramatura) G	115 - 132	190 - 200	240 - 260	500 - 520
Width (mm)	650	650	650	650
Length (mm)	1600	1600	1600	1600
Dynamic Resistance flow [Pa] air at speed linear:				
• 5 cm/s	50	70	90	140
• 8 cm/s	70	100	130	210
• 15 cm/s	110	170	230	370
• 20 cm/s	150	250	300	500
Efficiency to filter mist paraffin oil [%] the linear speed air flow:				
• 8 cm/s	> 25	> 35	> 45	> 55
• 15 cm/s	> 20	> 30	> 40	> 50
Application	Water Filtration			

▸ TECHNICAL PARAMETERS SOFT FILTER SHEETS WPT_M

PARAMETER	WPT6M	WPT9M	WPT12M	WPT20M
SIZE (mm)	0,95 - 1,1	1,4 - 1,5	1,85 - 2,0	3,2 - 3,4
SURFACE MASS (GRAMATURA) G	115 - 132	190 - 200	240 - 260	500 - 520
WIDTH (mm)	650	650	650	650
LENGTH (mm)	1600	1600	1600	1600
DYNAMIC RESISTANCE FLOW [PA] AIR AT SPEED LINEAR:				
• 5 cm/s	60	90	120	180
• 8 cm/s	80	120	160	240
• 15 cm/s	120	190	240	380
• 20 cm/s	180	270	360	540
EFFICIENCY TO FILTER MIST PARAFFIN OIL [%] THE LINEAR SPEED AIR FLOW:				
• 8 cm/s	> 55	> 65	> 75	> 85
• 15 cm/s	> 50	> 60	> 70	> 80
APPLICATION	AIR FILTRATION			

▸ DIMENSIONS



DIMENSIONS		QUANTITY PER BOX
cm		pcs
65	160	150

▸ IDENTIFICATION MARKING

Choose the filter sheets combination options:

TYPE	FILTER LAYERS	FILTER SHEET
WPT		
	6, 9, 12, 20 Number of filter layers	**M** Soft **T** Hard

NOTE

NOTE


SECURA
BC

SECURA B.C. Sp. z o.o.
Matuszewska Str. 14C, 03-876 Warsaw, Poland | Ph.: +48 22 813 45 69 | info@secura.com.pl | www.securabc.com