

THE
STRAINRITE
COMPANIES

Designing and Manufacturing
Leading-edge Filtration
Products Since 1978.

Clarity[™]
clear solutions

**High Purity Pleated
Depth & Membrane
Cartridges**

SCIENCE, SERVICE, STRAINRITE



We Provide Innovative, Real-Time Solutions

At Strainrite, we believe in developing and maintaining long-term, strategic relationships with clients in order to deliver innovative real time solutions to specific customer and market requirements. Our new product innovations are derived from a collaborative philosophy where new products are developed through customer-supplier communication and cooperation. Additionally, within our organization, a cross-functional approach to product development is utilized to ensure that the product realization cycle is fast, complete, and efficient. Due to this unique cross-functional approach and our customer-focused company culture to support this philosophy; we are able to consistently meet and exceed our customers' expectations.

We Believe in Quality Control & Skilled Technical Support

At Strainrite, we believe in Science and Service. All Clarity™ pleated filter cartridges are manufactured in our 81,000ft² facility located in Auburn, Maine. Our Quality Management System is certified to be ISO 9001:2008 compliant, and our extensive internal systems ensure the highest quality products and processes. Our state-of-the-art equipment and highly skilled technicians are able to maintain the highest levels of product reliability and repeatability, from receipt of raw materials to shipment of finished filters.

A few controls that are in-place include:

- Raw material performance verification
- Bubble point and air diffusion testing
- Bacteria challenge verifications of performance
- Extractable verification and determination
- Ultra-pure water rinsing with resistivity verification of effectiveness
- Finished validated products are integrity tested by air diffusion



Our technical and scientific staff works closely with our clients during the validation process. The focus of this support is to offer technical advice on developing effective protocols and experimental testing parameters to assure predictable and repeatable output results.

Since 1978, The Strainrite Companies have designed and manufactured leading-edge filtration products for a variety of industries worldwide. Our Clarity™ pleated depth and membrane cartridge product lines offer a clear advantage over the competition. Building on our proven product development capabilities and over 30 years of experience manufacturing filtration products for a variety of global industries, our Clarity™ products offer our clients pleated filter cartridges that exceed expectations for quality, efficiency and total value. Whether you need pleated depth or membrane cartridges for the oil and gas, food and beverage, pharmaceutical or electronics industries Strainrite's Clarity™ pleated products offer the Clear Solution.

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DOE/DOE



Code 5 (C5)
Recessed Cup/222



Code 2 (C2)
213/Recessed Cup



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Flat/226



Code 3 (C3)
Flat/222



Code 7 (C7)
Fin/226



Code 8 (C8)
Fin/222



Pleated Polyethersulfone Membrane Cartridge

The **Pur-MAXX-E** was developed for the filtration of process fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization.

Hydrophilic asymmetric polyethersulfone membrane ensures excellent flow rates, broad chemical compatibility, low protein binding, low extractability, high mechanical strength, and temperature resistance in a variety of applications for the biopharmaceutical, microelectronics, chemical, food and beverage industries.

The **Pur-MAXX-E** meets USP Biological Reactivity Test, in vivo for class VI-121°C plastics. Sterilizable using industry recognized and accepted methods.



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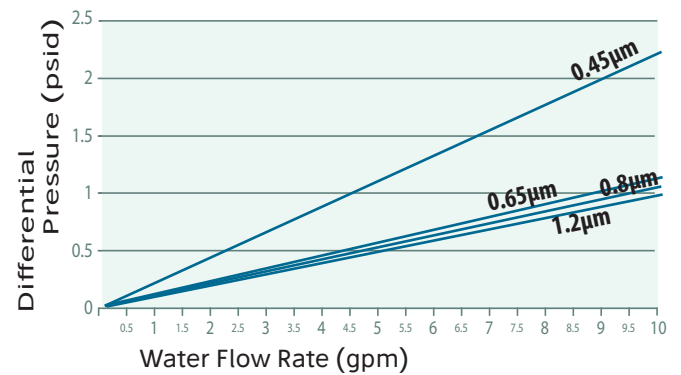
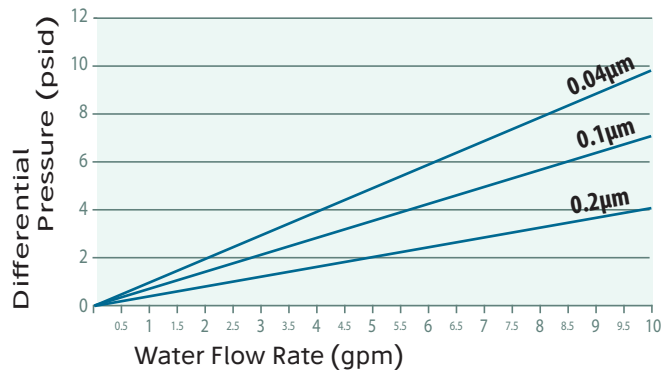
Features and Benefits

- *High surface area membrane offers excellent life and flux rates while providing absolute filtration*
- *Absolute-rated membrane provides reliable, consistent and repeatable filtrate quality*
- *Low pressure drops yield higher flow rates and reduced processing time*
- *Non-fiber shedding Polyester and Polypropylene support materials eliminate fiber migration*
- *MAXX-imum Pleat Design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per element*
- *All materials of construction are FDA compliant with CFR Title 21, Pharmaceutical grades are bio-safe in accordance with USP Class VI*
- *Thermally bonded construction without the use of adhesives or binders, resulting in lower extractables*
- *Low hold-up volumes*
- *Integrity tested*
- *High strength design allowing for extended use and multi-autoclave cycles*
- *Optional built-in pre-filter layer for extending membrane life and reducing filtration costs*

Typical Applications

*Liquid Clarification
Chemical Filtration
General-Use Water Filtration
Deionized Water Systems*

PRMXE Pressure Drop vs. Flow Rate



Materials of Construction

Filter Media	Polyethersulfone
Pleat Support Material	Polypropylene, Polyester
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	PRMXE: Pur-MAXX E	PRMXE
Micron Rating	0.04, 0.10, 0.20, 0.45, 0.65, 0.80, 1.20	04
Length	10, 20, 30, 40	-10
Pleat Support Materials	PE - Polyester PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS - FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 2 - Pharmaceutical 5 - Water	1
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF



PRMXE04-10PPC7S1DIF

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Surface Area:	6.8ft ² per 10" equivalent

Performance Specifications

Absolute Rated Retention:
0.04, 0.10, 0.20, 0.45, 0.65, 0.80, 1.20

Maximum Forward Differential Pressure

Forward:	50 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or Autoclave: 20 times at 275°F (135°C) Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Pleated Polysulfone Membrane Cartridge

The **Pur-MAXX-S** was developed for the filtration of process fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization.

Hydrophilic asymmetric polysulfone membrane ensures excellent flow rates, broad chemical compatibility, low protein binding, low extractability, high mechanical strength, and temperature resistance in a variety of applications for the biopharmaceutical, microelectronics, chemical, food and beverage industries.

The **Pur-MAXX-S** meets USP Biological Reactivity Test, in vivo for class VI-121°C plastics. Sterilizable using industry recognized and accepted methods.



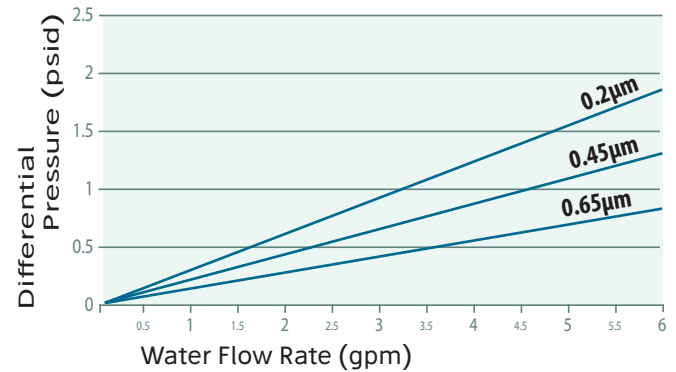
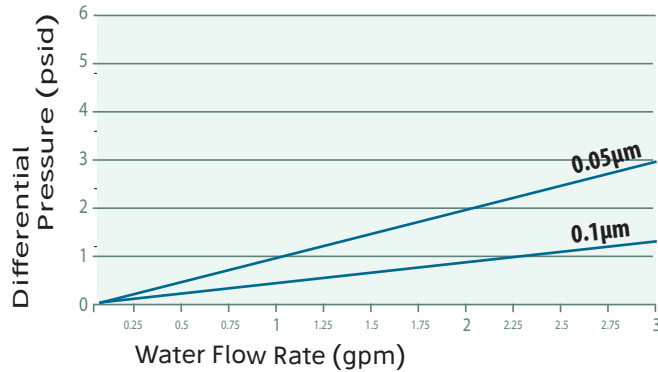
Features and Benefits

- *Highly tapered asymmetric pore structure which offers excellent flow rates and high solids loading characteristics*
- *Absolute-rated membrane provides reliable, consistent and repeatable filtrate quality*
- *Non-fiber shedding Polypropylene support materials eliminate fiber migration*
- *MAXX-imum Pleat Design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per element*
- *All materials of construction are FDA compliant with CFR Title 21, Pharmaceutical grades are bio-safe in accordance with USP Class VI*
- *Thermally bonded construction without the use of adhesives or binders, resulting in lower extractables*
- *Low hold-up volumes*
- *Pharmaceutical and Electronics grades are integrity testable*

Typical Applications

Ink jet ink
High purity aqueous chemicals
DI water Pre and Post filter
DI water Point-of-use

PRMXS Pressure Drop vs. Flow Rate



Materials of Construction

Filter Media	Polysulfone
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Surface Area:	6.8ft ² per 10" equivalent

Performance Specifications

Absolute Rated Retention:	0.03, 0.05, 0.10, 0.20, 0.45, 0.65
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Maximum Forward Differential Pressure

Forward:	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or Autoclave: 20 times at 275°F (135°C) Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Ordering Information

Example:		
Cartridge Series	PRMXS: Pur-MAXX S	PRMXS
Micron Rating	0.03, 0.05, 0.10, 0.20, 0.45, 0.65	03
Length	10, 20, 30, 40	-10
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS - FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 2 - Pharmaceutical 3 - Electronics 5 - Water	1
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

PRMXS03-10C7S1DIF

High Performance Nylon 6,6

Membrane Pleated Cartridges

Pur-MAXX N pleated cartridges are highly retentive, naturally hydrophilic, Nylon membrane filters that are specially designed for critical filtration requirements of aqueous fluids. The Nylon 6,6 membrane in an all-polypropylene construction provides excellent wet-out characteristics and superior flow performance per surface area as compared to other membrane cartridges.

No additives, resins, surfactants or binders are used in the manufacturing process, which dramatically reduces rinse up time, extractables and downtime.

Pur-MAXX N cartridges are perfectly suited for critical applications where superior flow and particle removal efficiency between 0.1 and 1.2 micron is required.



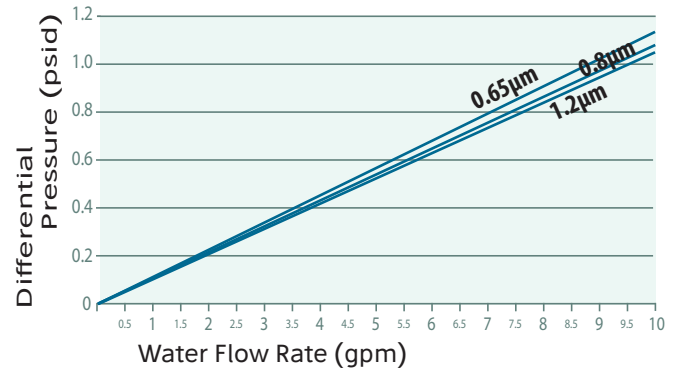
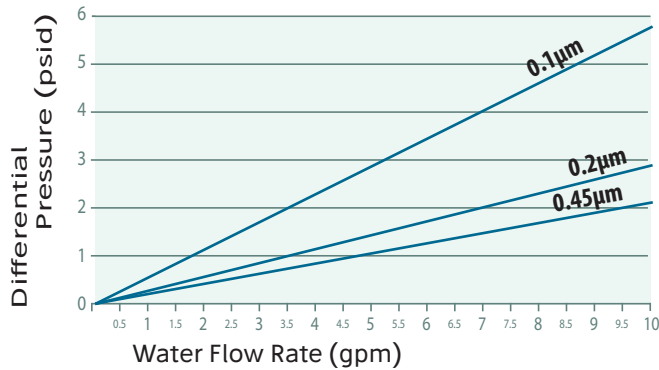
Features and Benefits

- *100% Hydrophilic materials of construction that are FDA listed as suitable for contact with food and beverage*
- *Absolute-rated media provides reliable, consistent and repeatable filtrate quality*
- *No adhesives, binders, resin or surfactants are used during manufacturing resulting in superior downstream purity*
- *High surface area yielding lower pressure drops and longer filter life*
- *Lower filter extractables than other hydrophilic membranes*
- *Non-fiber shedding polyester and polypropylene support materials eliminates fiber migration*
- *IPA pre-wetting not required*
- *Manufactured in an ISO 9001 Certified Quality System*
- *Integrity Testable*

Typical Applications

Reagent Grade Chemicals
API Chemicals
Fine Chemicals
Biological Fluids

PRMXN Pressure Drop vs. Flow Rate



Materials of Construction

Filter Media	Nylon 6,6 cast on polyester
Pleat Support Material	Polypropylene, Polyester
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:

Cartridge Series	PRMXS: Pur-MAXX N	PRMXN
Micron Rating	0.10, 0.20, 0.45, 0.65, 0.80, 1.20	01
Length	10, 20, 30, 40	-10
Pleat Support Materials	PE - Polyester PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS- FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 2 - Pharmaceutical 5 - Water	1
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Surface Area:	6.8ft ² per 10" equivalent

Performance Specifications

Absolute Rated Retention:	0.10, 0.20, 0.45, 0.65, 0.80, 1.20
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Maximum Forward Differential Pressure

Forward:	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty Polypropylene Hardware

Toxicity

Cartridge materials meet CFR 21 for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or Autoclave.
Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton



PRMXN01-10PPC7S1DIF

High Performance Cationic Nylon 6,6 Membrane Pleated Cartridges

Pur-MAXX CN pleated cartridges are manufactured with highly retentive, naturally hydrophilic, Nylon membranes that have an added cationic, positively charged, functional group. The positive surface charge or positive zeta potential, provides enhanced retention of smaller negatively charged particles such as endotoxins by electrokinetic mechanisms. Therefore The Pur-MAXX CN provides absolute particle retention by size exclusion while having the added benefit of removing significantly smaller, negatively charged particles.

The Charged Nylon 6,6 membrane in an all-polypropylene construction provides excellent wet-out characteristics and superior flow performance per surface area as compared to other membrane cartridges.

Pur-MAXX CN cartridges are perfectly suited for critical applications where superior flow and particle removal efficiency between 0.04 and 1.2 micron is required.



Features and Benefits

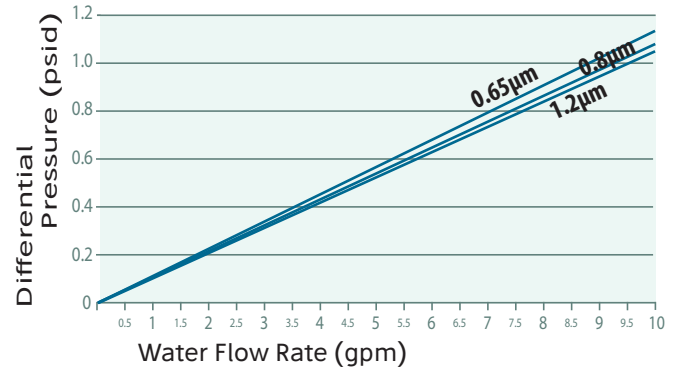
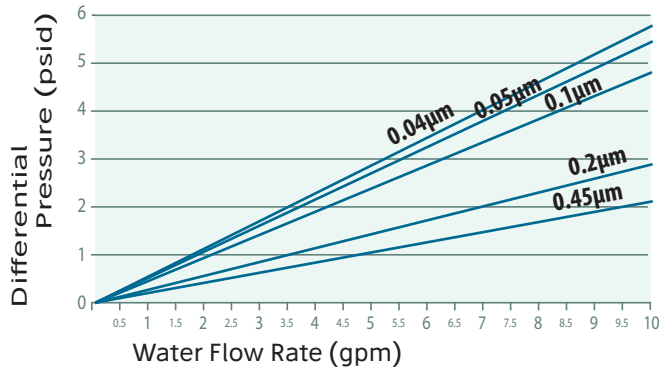
- *Meets USP Biological Tests for USP Class VI – 121oC Plastics, in vivo and Cytotoxicity tests in vitro*
- *100% Hydrophilic materials of construction that are FDA listed as suitable for contact with food and beverage*
- *Positive zeta potential for removal of particles smaller than absolute rating of filter*
- *Absolute-rated media provides reliable, consistent and repeat able filtrate quality*
- *High surface area yielding lower pressure drops and longer filter life*
- *Lower filter extractables than other hydrophilic membranes*
- *Non-fiber shedding polyester and polypropylene support materials eliminates fiber migration*
- *IPA pre-wetting not required*
- *Manufactured in an ISO 9001:2008 Certified Quality System*
- *Integrity Testable*

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Typical Applications

<i>Endotoxin removal</i>	<i>API Chemicals</i>
<i>Reagent Grade Chemicals</i>	<i>Fine Chemicals</i>
<i>Silica removal</i>	<i>Biological Fluids</i>

PRMXCN Pressure Drop vs. Flow Rate



Materials of Construction

Filter Media	Charged Nylon 6,6 cast on polyester
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	PRMXCN: Pur-MAXX CN	PRMXCN
Micron Rating	0.04, 0.05, 0.10, 0.20, 0.45, 0.65, 0.80, 1.20	0.1
Length	10, 20, 30, 40	-10
Pleat Support Materials	PE - Polyester PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS - FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 2 - Pharmaceutical 5 - Water	1
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Surface Area:	6.8ft ² per 10" equivalent

Performance Specifications

Absolute Rated Retention:	0.04, 0.05, 0.10, 0.20, 0.45, 0.65, 0.80, 1.20
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Maximum Forward Differential Pressure

Forward:	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty Polypropylene Hardware

Toxicity

Cartridge materials meet CFR 21 for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or Autoclave: 20 times at 275°F (135°C) Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

PRMXCN0.1-10PPC7S1DIF

Pleated PTFE Membrane Cartridge

The Pur-MAXX T PTFE membrane filter was developed for critical filtration applications where PTFE and Polypropylene materials are compatible. Utilizing a proprietary PTFE membrane casting method we are able to achieve a pore configuration that optimizes cartridge flow rates with absolute and reliable particle and microorganism retention. This unique combination of features positions Pur-MAXX T as one of the most reliable and economical PTFE membranes in the market.

Pur-MAXX T pleated membrane cartridges are manufactured and tested in 3rd party certified clean rooms with components that meet USP Class VI Biological Reactivity Test resulting in extremely low extractables. These high purity elements are perfect for biopharmaceutical, microelectronics and high purity chemical applications.

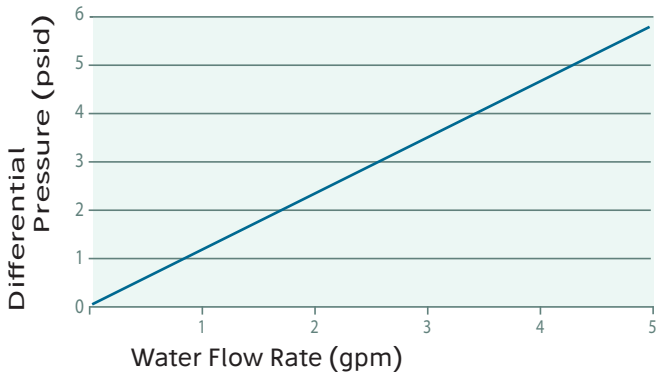
Features and Benefits

- *PTFE membranes*
- *Pharmaceutical Grade elements are 100% integrity tested*
- *High flow rates*
- *Low extractables*
- *Thermally bonded construction*
- *FDA listed materials per CFR 21*
- *Manufactured in a ISO 9001:2008 certified facility*
- *Quality control certificate packaged with every filter*
- *Manufactured in 3rd party certified clean rooms*



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PRMXT Pressure Drop vs. Flow Rate



Materials of Construction

Filtration Membrane	Polytetrafluoroethylene (PTFE)
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond

Ordering Information

Example:		
Cartridge Series	PRMXT: Pur-MAXX T	PRMXT
Micron Rating	0.10, 0.20	0.2
Length	10, 20, 30, 40	-10
Pleat Support Materials	PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS- FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 2 - Pharmaceutical	
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Nominal Surface Area:	6.8ft ² per 10" equivalent

Performance Specifications

Absolute Rated Retention:

0.10, 0.20

Maximum Forward Differential Pressure

Forward:	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	12 per carton

PRMXT0.2-10PPC7SDIF

Maxx protection for Membrane Filters

Designed as a “Pre-Final” filter the Duo-MAXX was created to protect final filters saving money and extending the life of your final filters. Duo MAXX incorporates a synchronized media design. Duo-MAXX design utilizes a prefiltration layer up-stream or over our final membrane layer in the same cartridge. Duo-MAXX is a pre-filter and a final filter in one.

Duo-MAXX is available in multiple micron ranges and combinations to meet the requirements of your process. Duo MAXX is available in two prefiltration materials; Polypropylene microfiber and Borosilicate microglass. The final filtration layer is available in Nylon, Polysulfone, Cellulose Acetate, and Strainrite’s asymmetric Polyethersulfone membrane.

Features and Benefits

- *Reliable non fiber releasing media*
- *Synchronized media*
- *Thermally bonded construction*
- *No additives or glue*
- *All materials of construction are FDA compliant with CFR Title 21*
- *Thermally bonded construction without the use of adhesives or binders, resulting in lower extractables*
- *High strength design allowing for extended use and multi-autoclave cycles*



*Clarity*TM
clear solutions

Typical Applications

Pre-final Ultra pure water

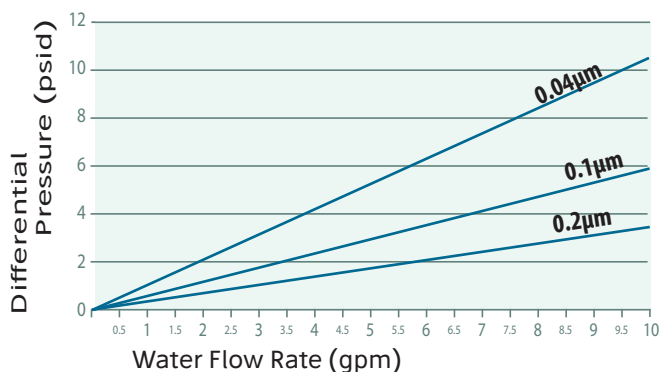
Pre-final high purity chemicals

Bio-pharmaceutical

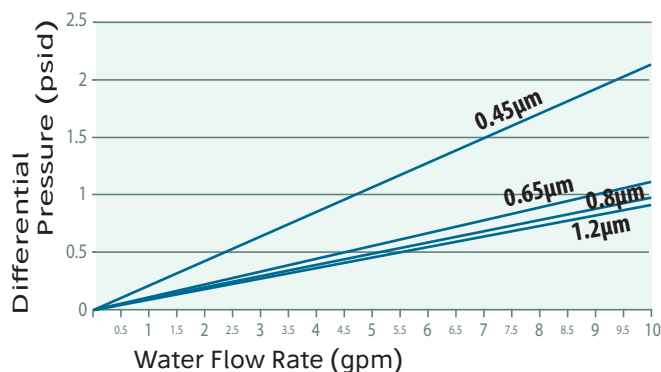
Bio-Burden reduction

Viscous fluids and polymers

DMX Pressure Drop vs. Flow Rate



Specifications



Materials of Construction

Pre-Filter Media	Borosilicate Microglass (GF), Polypropylene (MF)
Membrane Media	Polyethersulfone, Nylon, Polysulfone, Cellulose Acetate
Pleat Support Material	Polypropylene, Polyester
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:

Cartridge Series	DMX: Duo-MAXX	DMX
Pre-Filter Materials	GF- Borosilicate Microglass MF- Polypropylene Micro-Fiber	GF
Micron Rating*	0.04, 0.10, 0.20, 0.45, 0.65, 0.80, 1.20	04
Membrane	E- Polyethersulfone N - Nylon P - Polypropylene	E
Length	10, 20, 30, 40	10
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS- FEP Encapsulated Silicone	S
Cartridge Guide	Blank - Industrial	
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

* Refer to Absolute Rated Retention for membrane micron availability

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Surface Area GF:	5ft ² per 10" equivalent
Surface Area MF:	6.3ft ² per 10" equivalent

Performance Specifications

Absolute Rated Retention:

Polyethersulfone:	0.04, 0.10, 0.20, 0.45, 0.65, 0.80, 1.20
Polysulfone:	0.05, 0.10, 0.20, 0.45, 0.65
Nylon:	0.10, 0.20, 0.45, 0.65, 0.80, 1.20
Cellulose Acetate:	0.10, 0.20, 0.45, 0.65, 0.80, 1.20

Maximum Forward Differential Pressure

Forward:	50 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or Autoclave: 20 times at 275°F (135°C) Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

DMXGF04E10C7SDIF

The **Pur-MAXX C** was developed for the filtration of fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization. Our CA membrane is manufactured under a proprietary manufacturing process that meets rigorous quality standards throughout every step of production. This process generates consistent lot-to-lot filtration properties among the membranes to ensure product uniformity.

Our **Pur-MAXX C** filter cartridges use highly asymmetric cellulose acetate supported membrane that is hydrophilic, which ensures excellent flow rates, quick wet out and rinse up characteristics. **Pur-MAXX C** is naturally low binding, which is excellent for application where maximum recovery of protein is critical.



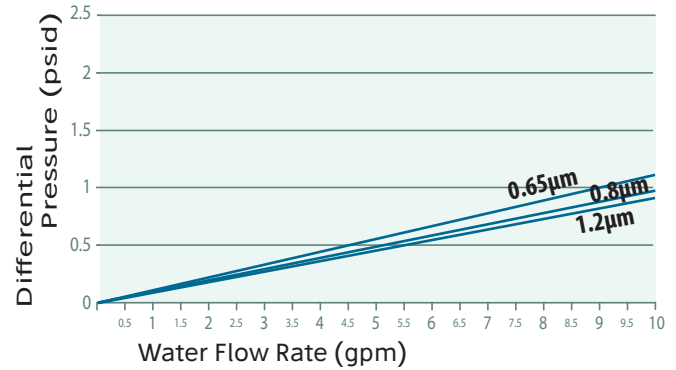
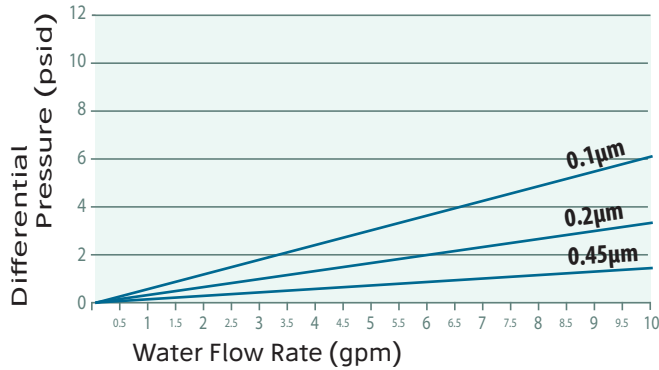
Features and Benefits

- *High surface area elements offers excellent life and flux rates while providing absolute filtration*
- *Absolute-rated membrane provides reliable, consistent and repeatable filtrate quality*
- *Non-fiber shedding Polyester and Polypropylene support materials eliminate potential for fiber migration*
- *All materials of construction are FDA compliant with CFR Title 21, Pharmaceutical grades are bio-safe in accordance with USP Class VI and Gamma Irradiation stable*
- *100% Thermally bonded construction*
- *Integrity tested*
- *Low extractables, which ensures filtrate will be clean with consistent results*
- *Low protein binding*
- *High strength design allowing for extended use and multi-autoclave cycles.*

Typical Applications

Protein and enzyme filtration
Biological fluid sterilization
Tissue culture media sterilization

PRMXC Pressure Drop vs. Flow Rate



Materials of Construction

Filter Media	Cellulose Acetate
Pleat Support Material	Polypropylene, Polyester
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	PRMXC: Pur-MAXX C	PRMXC
Micron Rating	0.10, 0.20, 0.45, 0.65, 0.80, 1.20	0.2
Length	10, 20, 30, 40	-10
Pleat Support Materials	PE - Polyester PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS- FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 2 - Pharmaceutical	1
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Surface Area:	6.8ft ² per 10" equivalent

Performance Specifications

Absolute Rated Retention:	0.10, 0.20, 0.45, 0.65, 0.80, 1.20
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Maximum Forward Differential Pressure

Forward:	50 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or Autoclave: 20 times at 275°F (135°C) Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

PRMXC0.2-10PPC7S1DIF

Pleated Polyethersulfone Hydrophilic Membrane Cartridges

The Mem-PLEAT E was developed for the filtration of process fluids that require a high degree of particle retention and/or a constant bacterial barrier for effective sterilization.

Hydrophilic asymmetric polyethersulfone membrane ensures excellent flow rates, broad chemical compatibility, low protein binding, low extractability, high mechanical strength and temperature resistance in a variety of applications for the biopharmaceutical, microelectronics, chemical, food and beverage industries.

The Mem-PLEAT E meets USP Biological Reactivity Test, in vivo for class VI-121°C plastics.



Features and Benefits

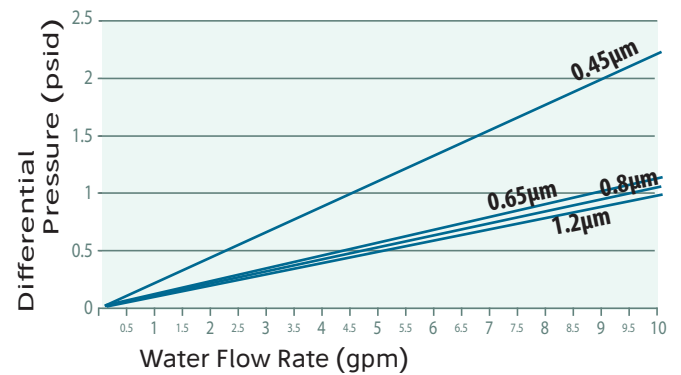
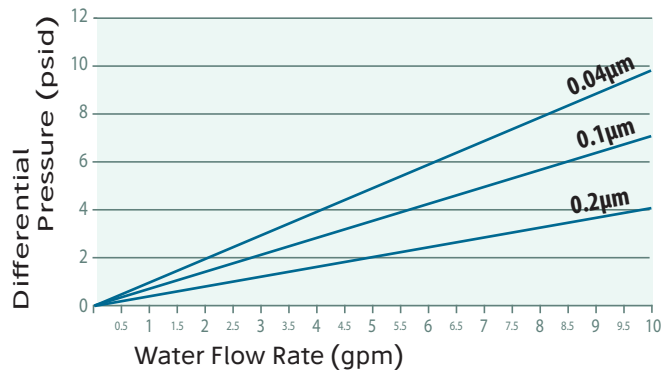
- *High surface area membrane offers excellent life and flux rates, while providing absolute-rated filtration*
- *Absolute-rated membrane provides reliable, consistent and repeatable filtrate quality*
- *Low pressure drops yield higher flow rates and reduced processing time*
- *Non fiber-shedding Polyester and Polypropylene support materials eliminate fiber migration*
- *Pleat design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs*
- *Thermally bonded construction without the use of adhesives or binders, resulting in lower extractables*
- *Low hold-up volumes*
- *Integrity tested*
- *High strength design allowing for extended use and multi autoclave cycles*

Typical Applications

*Liquid Clarification
Chemical Filtration
General-Use Water Filtration
Deionized Water Systems*

Clarity™
clear solutions

MPE Pressure Drop vs. Flow Rate



Materials of Construction

Filter Media	Polyethersulfone
Pleat Support Material	Polypropylene, Polyester
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	MPE: Mem-PLEAT E	MPE
Micron Rating	0.04, 0.10, 0.20, 0.45, 0.65, 0.80, 1.20	04
Length	10, 20, 30, 40	-10
Pleat Support Materials	PE - Polyester PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS - FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 2 - Pharmaceutical 5 - Water	1
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

Product Specifications

Dimensions

Outside Diameter:	2.55" (6.48cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Surface Area:	6.8ft ² per 10" equivalent

Performance Specifications

Absolute Rated Retention:	0.04, 0.10, 0.20, 0.45, 0.65, 0.80, 1.20
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Maximum Forward Differential Pressure

Forward:	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or Autoclave: 20 times at 275°F (135°C) Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

MPE04-10PPC7S1DIF

Pleated Polysulfone Membrane Cartridge

The **Mem-Pleat S** was developed for the filtration of process fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization.

Hydrophilic asymmetric polysulfone membrane ensures excellent flow rates, broad chemical compatibility, low protein binding, low extractability, high mechanical strength, and temperature resistance in a variety of applications for the biopharmaceutical, microelectronics, chemical, food and beverage industries.

The **Mem-Pleat S** meets USP Biological Reactivity Test, in vivo for class VI-121°C plastics. Sterilizable using industry recognized and accepted methods.



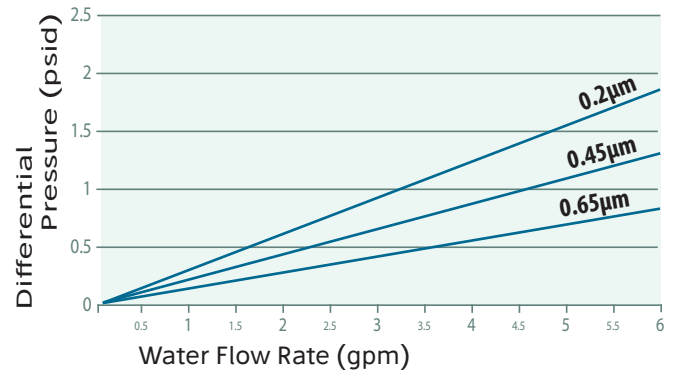
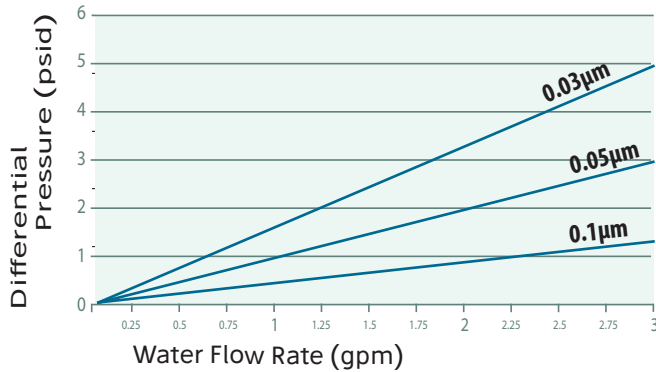
Features and Benefits

- *Highly tapered asymmetric pore structure which offers excellent flow rates and high solids loading characteristics*
- *Absolute-rated membrane provides reliable, consistent and repeatable filtrate quality*
- *Non-fiber shedding Polypropylene support materials eliminate fiber migration*
- *MAXX-imum Pleat Design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per element*
- *All materials of construction are FDA compliant with CFR Title 21, Pharmaceutical grades are bio-safe in accordance with USP Class VI*
- *Thermally bonded construction without the use of adhesives or binders, resulting in lower extractables*
- *Low hold-up volumes*
- *Pharmaceutical and Electronics grades are integrity testable*

Typical Applications

Ink jet ink
High purity aqueous chemicals
DI water Pre and Post filter
DI water Point-of-use

MPS Pressure Drop vs. Flow Rate



Materials of Construction

Filter Media	Polysulfone
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Product Specifications

Dimensions

Outside Diameter:	2.55" (6.48cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Surface Area:	6.8ft² per 10" equivalent

Performance Specifications

Absolute Rated Retention:	0.03, 0.05, 0.10, 0.20, 0.45, 0.65
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Maximum Forward Differential Pressure

Forward:	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or Autoclave: 20 times at 275°F (135°C) Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Ordering Information

<i>Example:</i>		
Cartridge Series	MPS: Mem-PLEAT S	MPS
Micron Rating	0.03, 0.05, 0.10, 0.20, 0.45, 0.65	03
Length	10, 20, 30, 40	-10
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS - FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 2 - Pharmaceutical 3 - Electronics 5 - Water	1
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

MPS03-10C7S1DIF

Nylon 6,6 Membrane Pleated Cartridges

Mem-PLEAT N pleated cartridges are highly retentive, naturally hydrophilic nylon membrane filters that are specially designed for critical filtration requirements of aqueous fluids. The Nylon 6,6 membrane, in an all-polypropylene construction, provides excellent wet-out characteristics and superior flow performance per surface area as compared to other membrane cartridges. No additives, resins, surfactants or binders are used in the manufacturing process, which dramatically reduces rinse up time, extractables and downtime.

Mem-PLEAT N cartridges are perfectly suited for critical applications where superior flow, and particle removal efficiency between 0.1 and 1.2 micron is required.



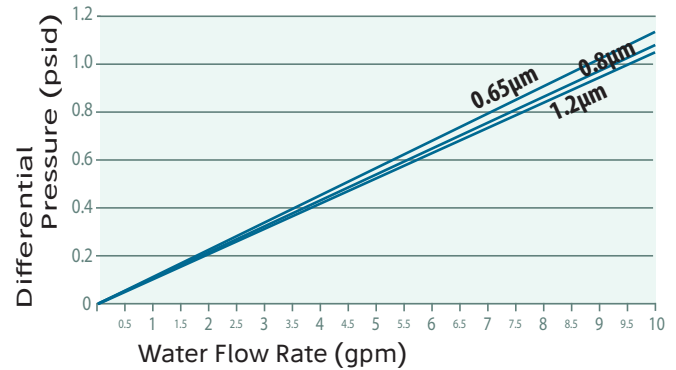
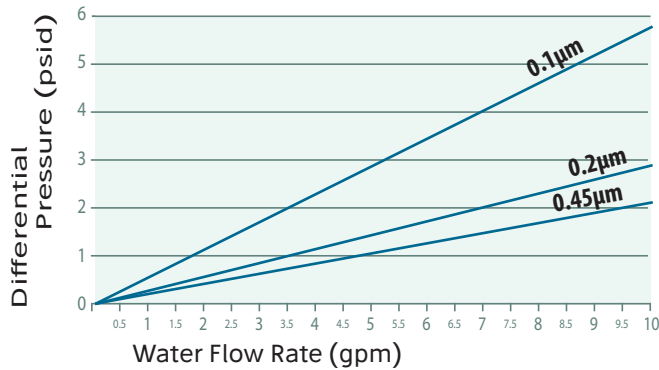
Features and Benefits

- *100% Hydrophilic materials of construction that are FDA listed as suitable for contact with food and beverage*
- *Absolute-rated media provides reliable, consistent and repeatable filtrate quality*
- *No adhesives, binders, resin or surfactants are used during manufacturing, resulting in superior downstream cleanliness*
- *High surface area, yielding lower pressure drops and longer filter life*
- *Lower filter extractables than other hydrophilic membranes*
- *Non fiber-shedding polyester and polypropylene support materials eliminate fiber migration*
- *IPA pre-wetting not required*
- *Manufactured in an ISO 9001: 2008 Certified Quality System Environment*
- *Integrity Testable*

Typical Applications

Reagent Grade Chemicals
API Chemicals
Fine Chemicals
Biological Fluids

MPN Pressure Drop vs. Flow Rate



Materials of Construction

Filter Media	Nylon 6,6 cast on polyester
Pleat Support Material	Polypropylene, Polyester
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:

Cartridge Series	MPN: Mem-PLEAT N	MPN
Micron Rating	0.10, 0.20, 0.45, 0.65, 0.80, 1.20	01
Length	10, 20, 30, 40	-10
Pleat Support Materials	PE - Polyester PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS- FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 2 - Pharmaceutical 5 - Water	1
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

Product Specifications

Dimensions

Outside Diameter:	2.55" (6.48cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Surface Area:	6.8ft ² per 10" equivalent

Performance Specifications

Absolute Rated Retention:	0.10, 0.20, 0.45, 0.65, 0.80, 1.20
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Maximum Forward Differential Pressure

Forward:	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty Polypropylene Hardware
275°F (135°C) Continuous Duty Polyester Hardware

Toxicity

Cartridge materials meet CFR 21
for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or Autoclave.
Cartridge may be sanitized in place with common sanitizing
agents, contact factory for chemical compatibility

Packaging Economy

Bulk packaging in case quantities
to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

MPN01-10PPC7S1DIF

High Performance Cationic Nylon 6,6 Membrane Pleated Cartridges

Mem-Pleat CN pleated cartridges are manufactured with highly retentive, naturally hydrophilic, Nylon membranes that have an added cationic, positively charged, functional group. The positive surface charge or positive zeta potential, provides enhanced retention of smaller negatively charged particles such as endotoxins by electrokinetic mechanisms. Therefore The Mem-Pleat CN provides absolute particle retention by size exclusion while having the added benefit of removing significantly smaller, negatively charged particles.

The Charged Nylon 6,6 membrane in an all-polypropylene construction provides excellent wet-out characteristics and superior flow performance per surface area as compared to other membrane cartridges.

Mem-Pleat CN cartridges are perfectly suited for critical applications where superior flow and particle removal efficiency between 0.04 and 1.2 micron is required.



Features and Benefits

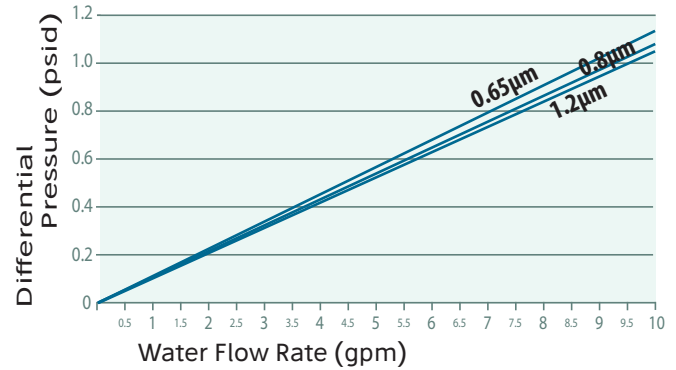
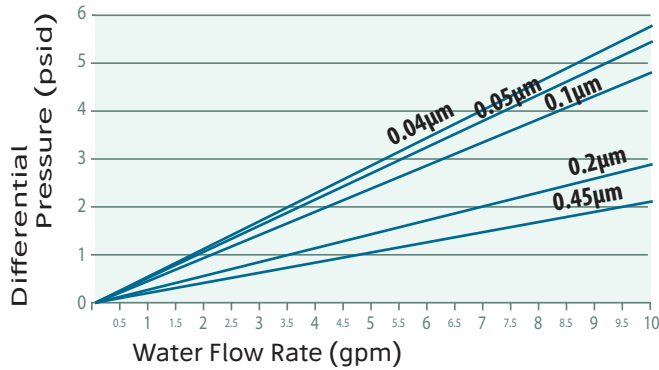
- *Meets USP Biological Tests for USP Class VI – 121oC Plastics, in vivo and Cytotoxicity tests in vitro*
- *100% Hydrophilic materials of construction that are FDA listed as suitable for contact with food and beverage*
- *Positive zeta potential for removal of particles smaller than absolute rating of filter*
- *Absolute-rated media provides reliable, consistent and repeatable filtrate quality*
- *High surface area yielding lower pressure drops and longer filter life*
- *Lower filter extractables than other hydrophilic membranes*
- *Non-fiber shedding polyester and polypropylene support materials eliminates fiber migration*
- *IPA pre-wetting not required*
- *Manufactured in an ISO 9001:2008 Certified Quality System*
- *Integrity Testable*

*Clarity*TM
clear solutions

Typical Applications

Endotoxin removal	API Chemicals
Reagent Grade Chemicals	Fine Chemicals
Silica removal	Biological Fluids

MPCN Pressure Drop vs. Flow Rate



Materials of Construction

Filter Media	Charged Nylon 6,6 cast on polyester
Pleat Support Material	Polypropylene, Polyester
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	MPCN: Mem-PLEAT CN	MPCN
Micron Rating	0.04, 0.10, 0.20, 0.45, 0.65, 0.80, 1.20	0.1
Length	10, 20, 30, 40	-10
Pleat Support Materials	PE - Polyester PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS - FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 2 - Pharmaceutical 5 - Water	1
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

Product Specifications

Dimensions

Outside Diameter:	2.55" (6.48cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Surface Area:	6.8ft ² per 10" equivalent

Performance Specifications

Absolute Rated Retention:	0.04, 0.10, 0.20, 0.45, 0.65, 0.80, 1.20
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Maximum Forward Differential Pressure

Forward:	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty Polypropylene Hardware

Toxicity

Cartridge materials meet CFR 21 for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or Autoclave: 20 times at 275°F (135°C) Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

MPCN0.1-10PPC7S1DIF

Pleated PTFE Membrane Cartridge

The Mem-Pleat T PTFE membrane filter was developed for critical filtration applications where PTFE and Polypropylene materials are compatible. Utilizing a proprietary PTFE membrane casting method we are able to achieve a pore configuration that optimizes cartridge flow rates with absolute and reliable particle and microorganism retention. This unique combination of features positions Mem-Pleat T as one of the most reliable and economical PTFE membranes in the market.

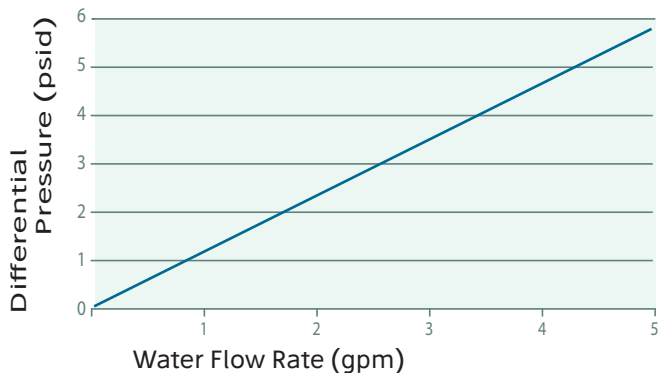
Mem-Pleat T pleated membrane cartridges are manufactured and tested in 3rd party certified clean rooms with components that meet USP Class VI Biological Reactivity Test resulting in extremely low extractables. These high purity elements are perfect for biopharmaceutical, microelectronics and high purity chemical applications.

Features and Benefits

- *PTFE membranes*
- *Pharmaceutical Grade elements are 100% integrity tested*
- *High flow rates*
- *Low extractables*
- *Thermally bonded construction*
- *FDA listed materials per CFR 21*
- *Manufactured in a ISO 9001:2008 certified facility*
- *Quality control certificate packaged with every filter*
- *Manufactured in 3rd party certified clean rooms*



MPT Pressure Drop vs. Flow Rate



Materials of Construction

Filtration Membrane	Polytetrafluoroethylene (PTFE)
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond

Ordering Information

Example:		
Cartridge Series	MPT: Mem-PLEAT T	MPT
Micron Rating	0.10, 0.20	0.2
Length	10, 20, 30, 40	-10
Pleat Support Materials	PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS- FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 2 - Pharmaceutical	
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

Pharmaceutical Grade

Integrity Test Data

All cartridges are integrity tested prior to shipment using pressure decay test method. Values below are for cartridges wetted with 50/50 IPA/DI Water

Cartridge	Test Pressure	Diffusional Flow
10"	12psi	13mL/min
20"	12psi	26mL/min
30"	12psi	39mL/min
40"	12psi	52mL/min

Product Specifications

Dimensions

Outside Diameter:	2.55" (6.48cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Nominal Surface Area:	6.8ft ² per 10" equivalent

Performance Specifications

Absolute Rated Retention:

0.10, 0.20

Maximum Forward Differential Pressure

Forward:	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

203°F (95°C) Continuous Duty

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	12 per carton

MPT0.2-10PPC7SDIF

Designed as a “Pre-Final” filter the Duo-Pleat was created to protect final filters saving money and extending the life of your final filters. Duo Pleat incorporates a synchronized media design. Duo-Pleat design utilizes a prefiltration layer up-stream or over our final membrane layer in the same cartridge. Duo-Pleat is a pre-filter and a final filter in one.

Duo-Pleat is available in multiple micron ranges and combinations to meet the requirements of your process. Duo Pleat is available in two prefiltration materials; Polypropylene microfiber and Borosilicate microglass. The final filtration layer is available in Nylon, Polysulfone, Cellulose Acetate, and Strainrites’ asymmetric Polyethersulfone membrane.



Features and Benefits

- *Reliable non fiber releasing media*
- *Synchronized media*
- *Thermally bonded construction*
- *No additives or glue*
- *All materials of construction are FDA compliant with CFR Title 21*
- *Thermally bonded construction without the use of adhesives or binders, resulting in lower extractables*
- *High strength design allowing for extended use and multi-autoclave cycles*

Typical Applications

Pre-final Ultra pure water

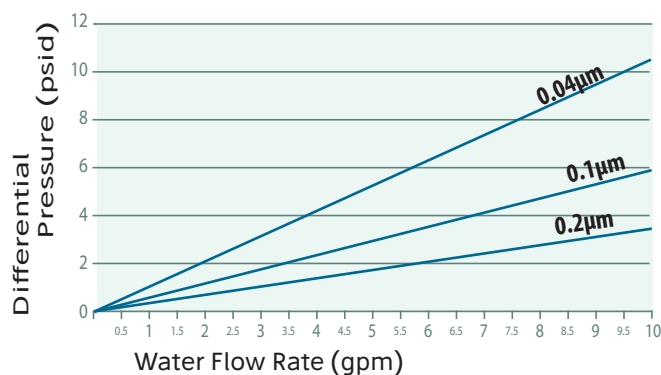
Pre-final high purity chemicals

Bio-pharmaceutical

Bio-Burden reduction

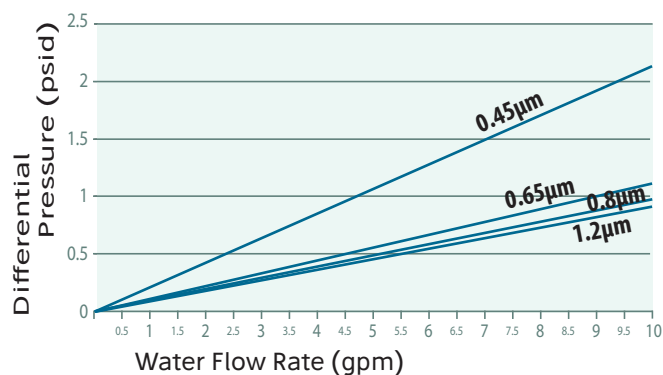
Viscous fluids and polymers

DPMF-E* Pressure Drop vs. Flow Rate



*Duo-Pleat MF with Polyethersulfone membrane

Specifications



Materials of Construction

Pre-Filter Media	Borosilicate Microglass (GF), Polypropylene (MF)
Membrane Media	Polyethersulfone, Nylon, Polysulfone
Pleat Support Material	Polypropylene, Polyester
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:

Cartridge Series	DP: Duo-PLEAT	DP
Pre-Filter Materials	GF- Borosilicate Microglass MF- Polypropylene Micro-Fiber	GF
Micron Rating*	0.03, 0.04, 0.05, 0.10, 0.20, 0.45, 0.65, 0.80, 1.20	04
Membrane	E- Polyethersulfone N - Nylon P - Polypropylene	E
Length	10, 20, 30, 40	10
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS- FEP Encapsulated Silicone	S
Cartridge Guide	Blank - Industrial	
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

* Refer to Absolute Rated Retention for membrane micron availability

Product Specifications

Dimensions

Outside Diameter:	2.55" (6.48cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Surface Area GF:	5ft ² per 10" equivalent
Surface Area MF:	6.3ft ² per 10" equivalent

Performance Specifications

Absolute Rated Retention:

Polyethersulfone:	0.04, 0.10, 0.20, 0.45, 0.65, 0.80, 1.20
Polysulfone:	0.03, 0.05, 0.10, 0.20, 0.45, 0.65
Nylon:	0.10, 0.20, 0.45, 0.65, 0.80, 1.20

Maximum Forward Differential Pressure

Forward:	50 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or Autoclave: 20 times at 275°F (135°C) Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

DPGF04E10C7SDIF

The **Mem-Pleat C** was developed for the filtration of fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization. Our CA membrane is manufactured under a proprietary manufacturing process that meets rigorous quality standards throughout every step of production. This process generates consistent lot-to-lot filtration properties among the membranes to ensure product uniformity.

Our **Mem-Pleat C** filter cartridges use highly asymmetric cellulose acetate supported membrane that is hydrophilic, which ensures excellent flow rates, quick wet out and rinse up characteristics. **Mem-Pleat C** is naturally low binding, which is excellent for application where maximum recovery of protein is critical.



Features and Benefits

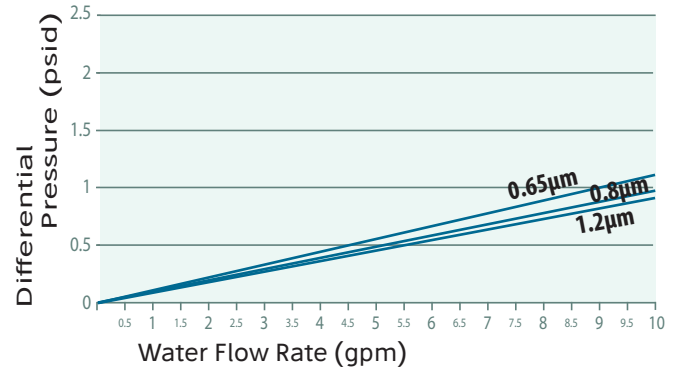
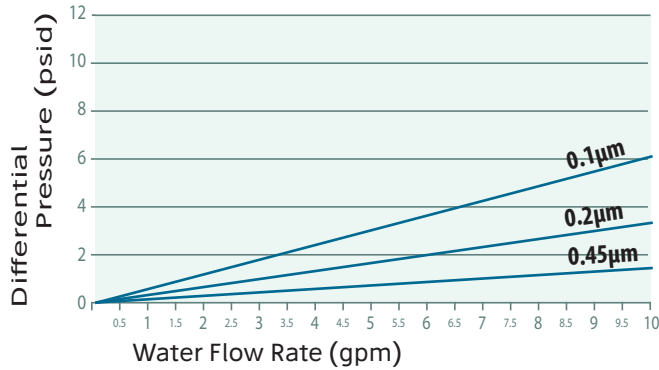
- *High surface area elements offers excellent life and flux rates while providing absolute filtration*
- *Absolute-rated membrane provides reliable, consistent and repeatable filtrate quality*
- *Non-fiber shedding Polyester and Polypropylene support materials eliminate potential for fiber migration*
- *All materials of construction are FDA compliant with CFR Title 21, Pharmaceutical grades are bio-safe in accordance with USP Class VI and Gamma Irradiation stable*
- *100% Thermally bonded construction*
- *Integrity tested*
- *Low extractables, which ensures filtrate will be clean with consistent results*
- *Low protein binding*
- *High strength design allowing for extended use and multi-autoclave cycles.*

Typical Applications

Protein and enzyme filtration
Biological fluid sterilization
Tissue culture media sterilization

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MPC Pressure Drop vs. Flow Rate



Materials of Construction

Filter Media	Cellulose Acetate
Pleat Support Material	Polypropylene, Polyester
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	MPC: Mem-PLEAT C	MPC
Micron Rating	0.10, 0.20, 0.45, 0.65, 0.80, 1.20	0.2
Length	10, 20, 30, 40	-10
Pleat Support Materials	PE - Polyester PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS- FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 2 - Pharmaceutical	1
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

Product Specifications

Dimensions

Outside Diameter:	2.55" (6.48cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Surface Area:	6.8ft ² per 10" equivalent

Performance Specifications

Absolute Rated Retention:	0.10, 0.20, 0.45, 0.65, 0.80, 1.20
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Maximum Forward Differential Pressure

Forward:	50 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or Autoclave:
Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

MPC0.2-10PPC7S1DIF

Polypropylene Pleated Depth Cartridges

Strainrite's **Poly-MAXX**, all-Polypropylene, filter cartridges are designed to optimize throughput while achieving absolute and repeatable effluent quality. Our filter media is constructed on the latest continuous Micro-Fiber blowing equipment that accurately controls fiber diameter and integrity. Utilizing state-of-the-art on-line monitoring equipment, Strainrite delivers the industry's most uniform and consistent media, ensuring unparalleled product consistency.

Our 100% Polypropylene construction provides an expansive chemical compatibility range for your most demanding applications. All materials of construction meet the requirements of USP Class VI and CFR 21 for food and beverage contact.



Features and Benefits

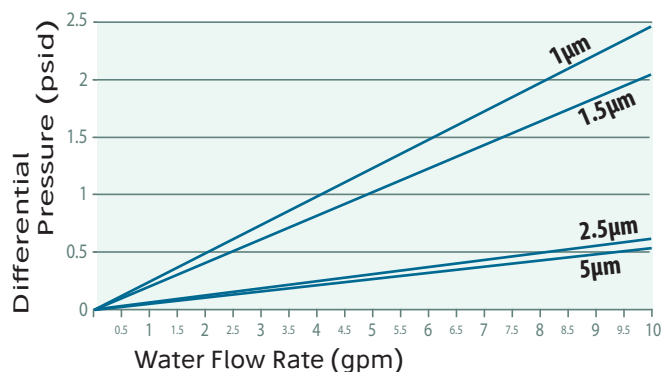
- *Absolute-rated media provides reliable, consistent and repeatable filtration*
- *Low pressure drop yields higher flow rates and reduced processing time*
- *MAXX-imum pleat design for greater surface area, ensuring longer service life, less downtime and reduced operating costs per cartridge*
- *100% Polypropylene, FDA compliant with CFR 21 and USP Class VI*
- *Thermally bonded construction minimizes extractables, eliminating particle bypass*

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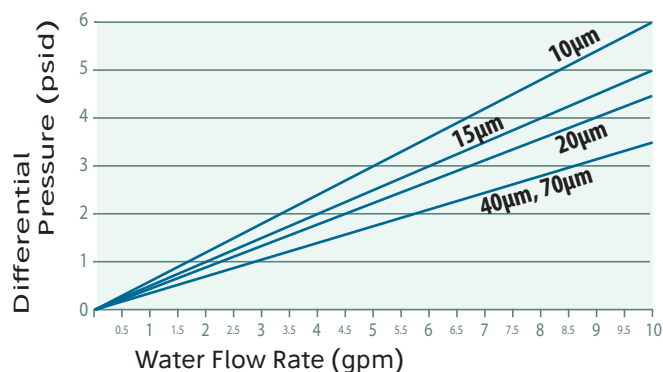
Typical Applications

Reagent Grade Chemicals
General Water Filtration
Recirculating Liquids
Waste Water
DI/RO Prefiltration

PMX Pressure Drop vs. Flow Rate



Specifications



Materials of Construction

Filter Media	Polypropylene Microfiber
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	PMX: Poly-MAXX	PMX
Micron Rating	1, 1.5, 2.5, 5, 10, 15, 20, 40, 70	1
Length	10, 20, 30, 40	-10
Pleat Support Materials	PE - Polyester PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS - FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 2 - Pharmaceutical	1
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)

Performance Specifications

Retention Rating:	1.0, 1.5, 2.5, 5.0, 10.0, 15.0, 20.0, 40.0, 70.0
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Maximum Forward Differential Pressure

75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Product Efficiency

Poly-MAXX	99.98% Efficiency
PMX 1	1.0µm
PMX 1.5	1.5µm
PMX 2.5	2.5µm
PMX 5	5.0µm
PMX 10	10.0µm
PMX 15	15.0µm
PMX 20	20.0µm
PMX 40	40.0µm
PMX 70	70.0µm

PMX1-10PPC7S1DIF

Polypropylene Pleated Depth Cartridges

The **Poly-Maxx G**, all-Polypropylene, nominally rated filter cartridge is designed to reduce overall filtration costs when compared to spunbonded, stringwound and nominally-rated pleated cartridges. The Poly-Maxx G media is designed and manufactured on state-of-the-art meltblowing equipment under Strainrite's strict specifications for high solids loading requirements in a variety of prefiltration applications.

Poly-Maxx G is constructed using the latest high-speed thermal bonding equipment in a clean environment to ensure superior product cleanliness and thermal and chemical compatibility. All of these depth cartridges are manufactured using 100% virgin Polypropylene materials that comply with FDA Title 21 of The Code of Federal Regulations for food and beverage contact.

Features and Benefits

- *MAXX-imum pleat design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per cartridge*
- *FDA Title 21 compliant for food and beverage contact*
- *Lower pressure drops, which yield higher flow rates and reduced processing time*
- *100% Polypropylene construction offers a wide range of chemical compatibility*
- *Thermally bonded construction to ensure a cleaner filtrate*



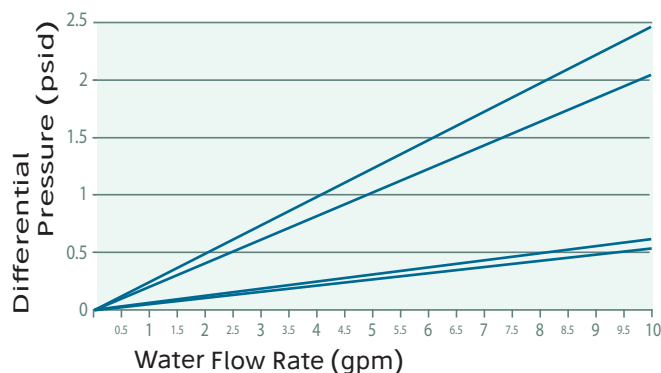
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Typical Applications

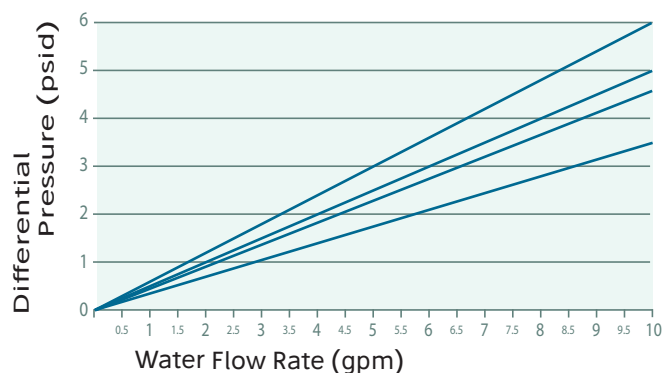
*Wine clarification
Water filtration
Solvent filtration*

*RO/DI prefiltration
Liquefied sugar
Waste Water*

PMXG Pressure Drop vs. Flow Rate



Specifications



Materials of Construction

Filter Media	Polypropylene Microfiber
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	PMXG: Poly-MAXX G	PMXG
Micron Rating	0.25, 0.50, 1, 2.5, 5, 8, 12, 20, 30, 50	1
Length	10, 20, 30, 40	-10
Pleat Support Materials	PE - Polyester PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS - FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 2 - Pharmaceutical	1
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)

Performance Specifications

Retention Rating:	0.25, 0.50, 1.0, 2.5, 5.0, 8.0, 12.0, 20.0, 30.0, 50.0
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Maximum Forward Differential Pressure

75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Product Efficiency

Poly-MAXX G	99% Efficiency
PMXG 0.25	0.25µm
PMXG 0.50	0.50µm
PMXG 1	1.0µm
PMXG 2.5	2.5µm
PMXG 5	5.0µm
PMXG 8	8.0µm
PMXG 12	12.0µm
PMXG 20	20.0µm
PMXG 30	30.0µm
PMXG 50	50.0µm

PMXG1-10PPC7S1DIF

High Solids Loading All-Polypropylene Pleated Depth Cartridges

The **Poly-Maxx Select** is another example of Strainrite's continued tradition of providing industry leading filtration solutions. **Poly-Maxx Select** is an absolute rated gradient density pleated polypropylene depth cartridge. It utilizes our revolutionary HSL (High Solids Loading) technology in combination with our high efficiency micro-fiber meltblown, creating one of the longest lasting high efficiency pleated filters on the market.

The **Poly-Maxx Select** filters are manufactured without binders or resins, resulting in an extremely clean non-fiber shedding filter. Due to our utilization of the HSL technology this element is outstanding for removing gels, compared to traditional pleated polypropylene filters.



Features and Benefits

- **Absolute-rated media provides reliable, consistent and repeatable filtration results**
- **MAXX-imum pleat design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per cartridge**
- **FDA Title 21 compliant for food and beverage contact**
- **Lower pressure drops, which yield higher flow rates and reduced processing time**
- **100% Polypropylene construction offers a wide range of chemical compatibility**
- **Thermally bonded construction ensures a cleaner filtrate while minimizing extractables**

All materials of construction comply with FDA Title 21 of The Code of Federal Regulations for food and beverage contact.

Typical Applications

Bleach

Water filtration

Solvent filtration

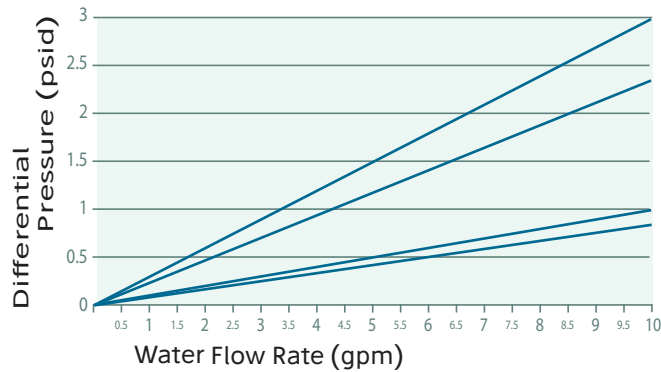
RO/DI prefiltration

Liquefied sugar

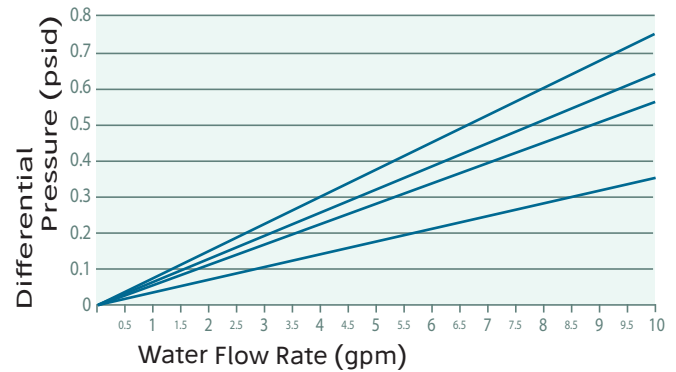
Waste Water

Wine clarification

SPMX Pressure Drop vs. Flow Rate



Specifications



Materials of Construction

Filter Media	Polypropylene Microfiber Composite
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	SPMX: Poly-MAXX Select	SPMX
Micron Rating	1, 1.5, 3, 5, 10, 15, 20, 40, 70, 90	1
Length	10, 20, 30, 40	-10
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS - FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 2 - Pharmaceutical	1
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)

Performance Specifications

Retention Rating:	1.0, 1.5, 3.0, 5.0, 10.0, 15.0, 20.0, 40.0, 70.0, 90.0
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Maximum Forward Differential Pressure

75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Product Efficiency

Poly-MAXX Select	99.98% Efficiency
SPMX 1	1.0µm
SPMX 1.5	1.5µm
SPMX 3	3.0µm
SPMX 5	5.0µm
SPMX 10	10.0µm
SPMX 15	15.0µm
SPMX 20	20.0µm
SPMX 40	40.0µm
SPMX 70	70.0µm
SPMX 90	90.0µm

SPMX1-10C7S1DIF

Micro-Fiber Glass Pleated Depth Cartridges

Strainrite's **Fiber-MAXX** Pleated Filter Cartridges utilize a high surface area and high void volume media, incorporating Micro-Glass fibers in a uniform matrix that optimizes element flow rate and service life unattainable by other Micro-Fiber technologies. This revolutionary Micro-Fiber matrix optimizes pore size geometry required to offer absolute-rated filtration performance. Strainrite's non-calendared Micro-Glass, **Fiber-MAXX**, cartridges exhibit significantly reduced resistance to flow when compared to similarly rated Micro-Fiber technologies.

Fiber-MAXX cartridges are an excellent choice for filtering beverages such as beer and wine, as they do not remove flavor enhancing proteins. Our materials of construction meet or exceed the requirements of the CFR 21 for Food and Beverage contact. Strainrite offers elements that utilize an epoxy binder providing the **Fiber-MAXX** with an increased range of applications where chemical compatibility is critical.



Features and Benefits

- *Absolute-rated media provide reliable pore size control resulting in repeatable filtration performance*
- *Non-fiber releasing materials with minimal extractables provide high purity filtrate*
- *Low pressure drops yield higher flow rates and reduced processing time*
- *Maxx-imum pleat design coupled with non-calendared Micro-Glass matrix offers greater surface area, ensuring longer service life, less downtime and reduced operating costs per cartridge*
- *Industrial grade utilizes an epoxy binder, FDA grade utilizes an acrylic binder*
- *Thermally bonded construction eliminates particle bypass*

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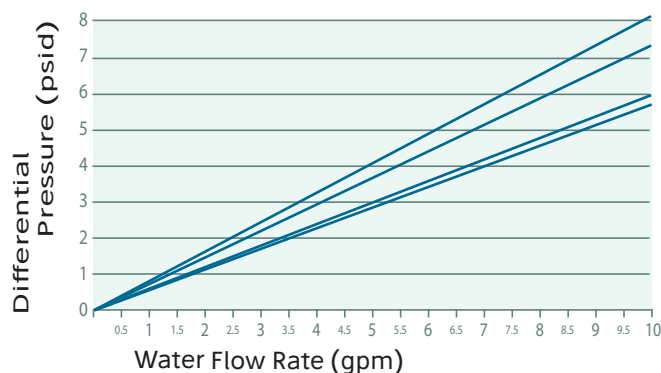
Typical Applications

*Inks and Coatings
Plating Solutions
Solvent Filtration*

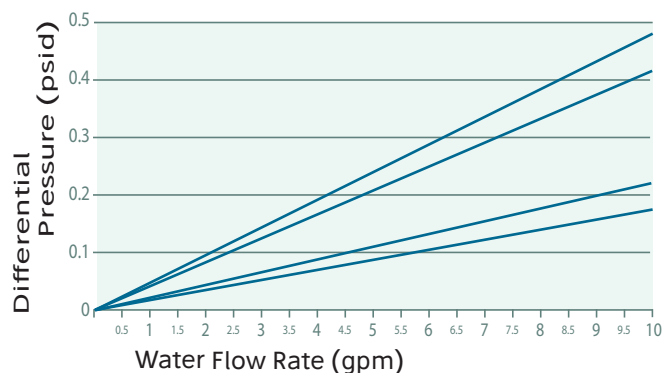
*Oil and Gas Production
Photographic Films*

*Chemical Processing
Waste Water*

FMX Pressure Drop vs. Flow Rate



Specifications



Materials of Construction

Filter Media	Borosilicate Microfiber glass
Pleat Support Material	Polypropylene, Polyester
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:

Cartridge Series	FMX: Fiber-MAXX	FMX
Micron Rating	0.8, 0.9, 1, 2, 3, 5, 10, 15	0.9
Length	10, 20, 30, 40	-10
Pleat Support Materials	PE - Polyester PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS - FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 5 - Water	
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)

Performance Specifications

Retention Rating:	0.8, 0.9, 1.0, 2.0, 3.0, 5.0, 10.0, 15.0
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Maximum Forward Differential Pressure

75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty Polypropylene Hardware
275°F (135°C) Continuous Duty Polyester Hardware

Toxicity

All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Product Efficiency

Fiber-MAXX	99.98% Efficiency	90.00% Efficiency
FMX 0.8	0.8µm	0.25µm
FMX 0.9	0.9µm	0.45µm
FMX 1	1.0µm	0.65µm
FMX 2	2.0µm	1.0µm
FMX 3	3.0µm	1.5µm
FMX 5	5.0µm	2.5µm
FMX 10	10.0µm	5.0µm
FMX 15	15.0µm	10.0µm

FMX0.9-10PPC7SDIF

Micro-Fiber Glass Pleated Depth Cartridges

Strainrite's **Fiber-MAXX G** pleated filter cartridges utilize a high surface area and high void volume media, incorporating Micro-Glass fibers in a uniform matrix that optimizes element flow rate and service life unattainable by other traditional Micro-Fiber technologies. This revolutionary Micro-Fiber matrix optimizes pore size geometry required to offer beta rated filtration performance. Strainrite's non-calendared Micro-Glass, **Fiber-MAXX G** cartridges exhibit significantly reduced resistance to flow when compared to similarly rated Micro-Fiber technologies.

Fiber-MAXX G cartridges are an excellent choice for filtering beverages such as beer and wine, as they do not remove flavor enhancing proteins. Our FDA grade Cartridges meet or exceed the requirements of the 21 CFR 177 for Food and Beverage contact. Strainrite also offers elements that utilize an epoxy binder providing the **Fiber-MAXX G** with an increased range of applications where chemical compatibility is critical.



Features and Benefits

- *Beta-rated media provide reliable pore size control resulting in repeatable filtration performance*
- *Non-fiber releasing materials with minimal extractables provide high purity filtrate*
- *Low pressure drops yield higher flow rates and reduced processing time*
- *Maxx-imum pleat design coupled with non-calendared Micro-Glass matrix offers greater surface area, ensuring longer service life, less downtime and reduced operating costs per cartridge*
- *Industrial grade utilizes an epoxy binder, FDA grade utilizes an acrylic binder*
- *Thermally bonded construction eliminates particle bypass*

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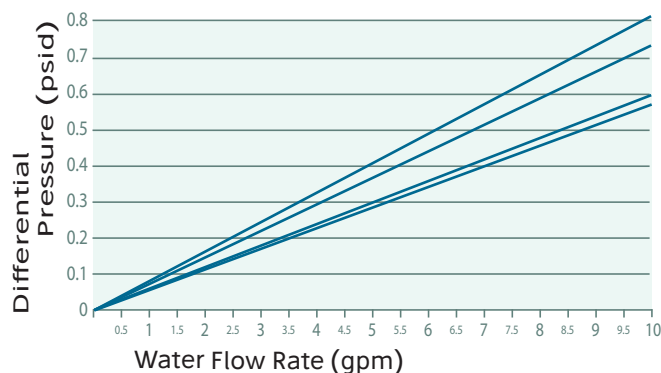
Typical Applications

*Inks and Coatings
Plating Solutions
Solvent Filtration*

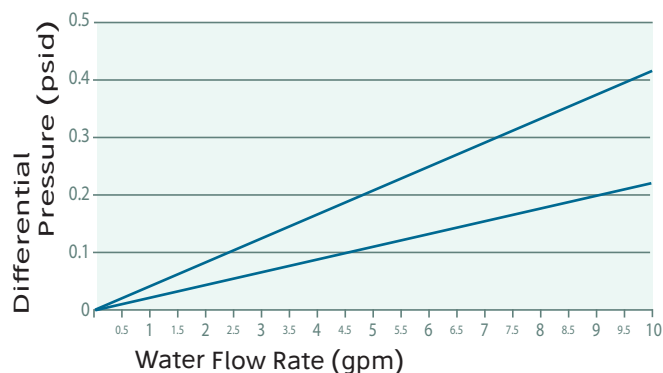
*Oil and Gas Production
Photographic Films*

*Chemical Processing
Waste Water*

FMXG Pressure Drop vs. Flow Rate



Specifications



Materials of Construction

Filter Media	Borosilicate Microfiber glass
Pleat Support Material	Polypropylene, Polyester
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	FMXG: Fiber-MAXX G	FMXG
Micron Rating	0.2, 0.45, 0.65, 1, 5, 10	0.2
Length	10, 20, 30, 40	-10
Pleat Support Materials	PE - Polyester PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS- FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 2 - Pharmaceutical	
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)

Performance Specifications

Retention Rating:	0.2, 0.45, 0.65, 1.0, 5.0, 10.0
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Maximum Forward Differential Pressure

75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty Polypropylene Hardware
275°F (135°C) Continuous Duty Polyester Hardware

Toxicity

All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Product Efficiency

Fiber-MAXX G	Beta 5000
FMXG 0.2	0.2µm
FMXG 0.45	0.45µm
FMXG 0.65	0.65µm
FMXG 1	1µm
FMXG 5	5µm
FMXG 10	10µm

FMXG0.2-10PPC7SDIF

High Performance 100% Polypropylene Filter Cartridges

Strainrite's **Pur-PLEAT** all Polypropylene Filter cartridges are designed to optimize throughput, while achieving absolute and repeatable effluent quality. Our filter media is constructed on the latest continuous Micro-Fiber blowing equipment that accurately controls fiber diameter and integrity.

Utilizing state-of-the-art, on-line monitoring equipment, Strainrite delivers the industry's most uniform and consistent media, ensuring unparalleled product consistency. Our 100% Polypropylene construction provides an expansive chemical compatibility range for your most demanding applications. All materials of construction meet USP Class VI and CFR 21 requirements for food and beverage contact.



Features and Benefits

- *Absolute-rated media provides reliable, consistent and repeatable filtration*
- *Low pressure drops yield higher flow rates and reduced processing time*
- *Maximized pleat design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per cartridge*
- *100% Polypropylene, FDA-compliant and CFR 21 and USP Class VI compliant*
- *Thermally bonded construction eliminates particle bypass*

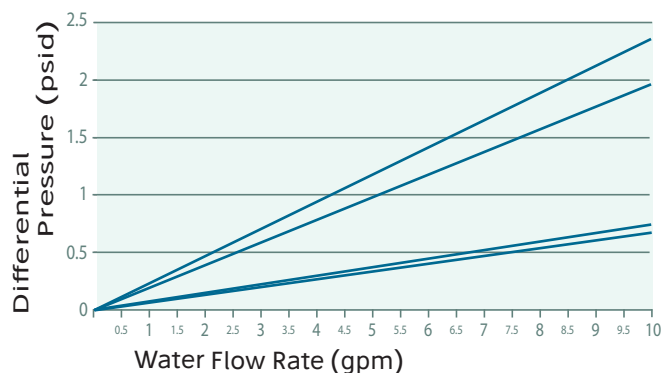
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Typical Applications

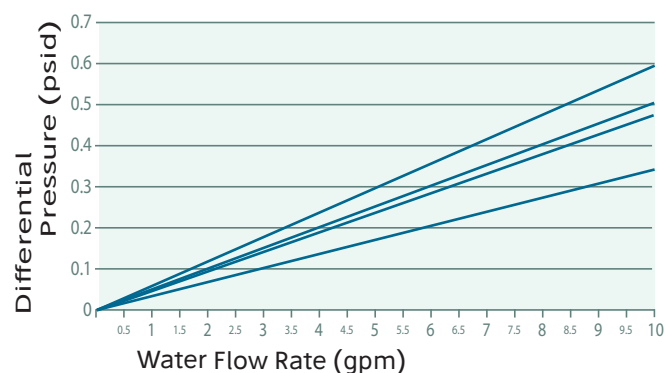
*Reagent Grade Chemicals
General Water Filtration
Recirculating Liquids*

*Waste Water
DI/RO Prefiltration*

PP Pressure Drop vs. Flow Rate



Specifications



Materials of Construction

Filter Media	Polypropylene Microfiber
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Product Specifications

Dimensions

Outside Diameter:	2.55" (6.48cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)

Performance Specifications

ASTM F795-88 Retention Rating:	1.0, 1.5, 2.5, 5.0, 10.0, 15.0, 20.0, 40.0, 70.0
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Maximum Forward Differential Pressure

75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty Polypropylene Hardware

Toxicity

All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

ASTM F795-88 Product Efficiency

Pur-PLEAT	99.98% Efficiency
PP 1	1.0µm
PP 1.5	1.5µm
PP 2.5	2.5µm
PP 5	5.0µm
PP 10	10.0µm
PP 15	15.0µm
PP 20	20.0µm
PP 40	40.0µm
PP 70	70.0µm

Ordering Information

Example:

Cartridge Series	PP: Pur-PLEAT	PP
Micron Rating	1, 1.5, 2.5, 5, 10, 15, 20, 40, 70	1
Length	10, 20, 30, 40	-10
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS- FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 2 - Pharmaceutical	
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF



PP1-10C7SDIF

All Polypropylene Pleated Depth Cartridges

The **Pur-Pleat G**, all-Polypropylene, nominally rated filter cartridge is designed to reduce overall filtration costs when compared to spunbonded, stringwound, and nominally-rated pleated cartridges. The **Pur-Pleat G** media is designed and manufactured on state-of-the-art meltblowing equipment to Strainrite's strict specifications for high solids loading requirements for a variety of prefiltration applications.

Pur-Pleat G is constructed using the latest high-speed thermal bonding equipment in a clean environment to ensure superior product cleanliness and thermal and chemical compatibility. All of these depth cartridges are manufactured using 100% virgin polypropylene materials that comply with FDA Title 21 of The Code of Federal Regulations for food and beverage contact.



Features and Benefits

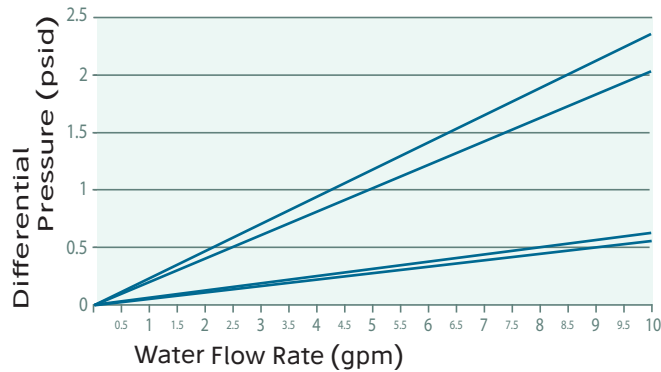
- *MAXX-imum pleat design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per cartridge*
- *FDA Title 21 compliant for food and beverage contact*
- *Lower pressure drops, which yield higher flow rates and reduced processing time*
- *100% Polypropylene construction offers a wide range of chemical compatibility*
- *Thermally bonded construction ensures a cleaner filtrate*

Typical Applications

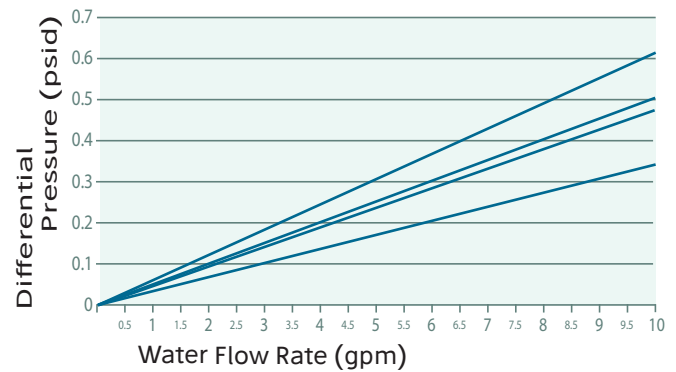
*Wine clarification
Water filtration
Solvent filtration*

*RO/DI prefiltration
Liquefied sugar
Waste Water*

PPG Pressure Drop vs. Flow Rate



Specifications



Materials of Construction

Filter Media	Polypropylene Microfiber
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Product Specifications

Dimensions

Outside Diameter:	2.55" (6.48cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)

Performance Specifications

Retention Rating:	0.25, 0.5, 1.0, 2.5, 5.0, 8.0, 12.0, 20.0, 30.0, 50.0
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Maximum Forward Differential Pressure

75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty Polypropylene Hardware

Toxicity

All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Product Efficiency

Pur-PLEAT G	99% Efficiency
PPG 0.25	0.25µm
PPG 0.50	0.5µm
PPG 1	1.0µm
PPG 2.5	2.5µm
PPG 5	5.0µm
PPG 8	8.0µm
PPG 12	12.0µm
PPG 20	20.0µm
PPG 30	30.0µm
PPG 50	50.0µm

Ordering Information

Example:

Cartridge Series	PPG: Pur-PLEAT G	PPG
Micron Rating	0.25, 0.5, 1, 2.5, 5, 8, 12, 20, 30, 50	1
Length	10, 20, 30, 40	-10
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS - FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 2 - Pharmaceutical	
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

PPG1-10C7SDIF

High Solids Loading All-Polypropylene Pleated Filter Cartridges

Strainrite continues its tradition of state-of-the-art advanced filtration innovation with the **Pur-PLEAT Select**, a unique, absolute rated, gradient density, polypropylene depth filter that utilizes the revolutionary HSL technology in combination with our high efficiency micro-fiber meltblown media. This "Select" filter combines high solids loading with absolute filtration to create one of the longest lasting, absolute-rated, pleated polypropylene filters on the market.

All "Select" filters are manufactured without binders or resins, resulting in an extremely clean non-media migration filter. **Pur-PLEAT Select** gradient density depth media is outstanding for removing gels as compared to other pleated polypropylene filters.



Features and Benefits

- *Absolute-rated media provides reliable, consistent and repeatable filtration*
- *Low pressure drops yield higher flow rates and reduced processing time*
- *Maximized pleat design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per cartridge*
- *100% Polypropylene, FDA compliant with CFR 21*
- *Thermally bonded construction eliminates particle bypass while minimizing extractables*

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Our 100% polypropylene construction provides an excellent range of chemical compatibility for your most demanding applications. All polypropylene construction materials are CFR 21 listed for direct food contact, which makes this filter ideal for a broad range of applications.

Typical Applications

Bleach

Water filtration

Solvent filtration

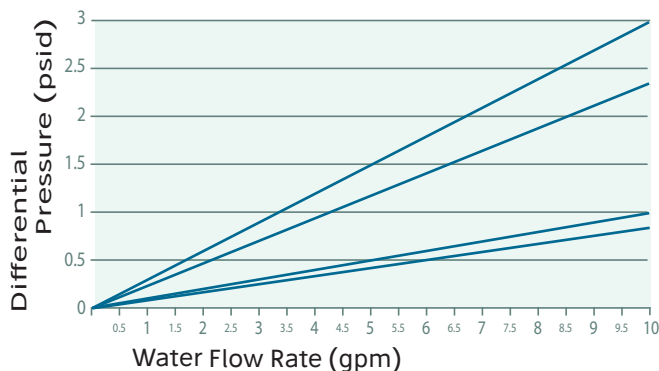
RO/DI prefiltration

Liquefied sugar

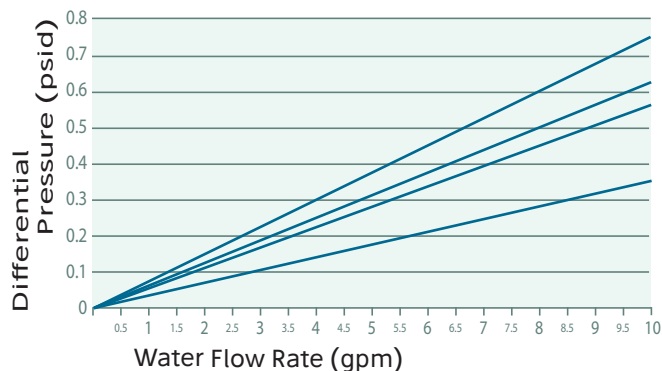
Waste Water

Wine clarification

SPP Pressure Drop vs. Flow Rate



Specifications



Materials of Construction

Filter Media	Polypropylene Microfiber Composite
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	SPP: Pur-PLEAT Select	SPP
Micron Rating	1, 1.5, 3, 5, 10, 15, 20, 40, 70, 90	1
Length	10, 20, 30, 40	-10
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS- FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 2 - Pharmaceutical	1
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

Product Specifications

Dimensions

Outside Diameter:	2.55" (6.48cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)

Performance Specifications

ASTFM F795-88 Retention Rating:	1.0, 1.5, 3.0, 5.0, 10.0, 15.0, 20.0, 40.0, 70.0, 90.0
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Maximum Forward Differential Pressure

75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty Polypropylene Hardware

Toxicity

All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

ASTFM F795-88 Product Efficiency

Pure-Pleat Select	99.98% Efficiency
SPP 1	1.0µm
SPP 1.5	1.5µm
SPP 3	3.0µm
SPP 5	5.0µm
SPP 10	10.0µm
SPP 15	15.0µm
SPP 20	20.0µm
SPP 40	40.0µm
SPP 70	70.0µm
SPP 90	90.0µm

SPP1-10C7S1DIF

High Performance Microfiberglass Filter Cartridges

Strainrite's **Glass-PLEAT** Pleated Filter cartridges utilize both a high surface area and void volume media, incorporating Micro-Glass fibers in a uniform matrix, optimizing element flow rate and service life unattainable by other Micro-Fiber technologies. This revolutionary Micro-Fiber matrix optimizes the pore size geometry required to offer absolute-rated filtration performance. Strainrite's non-calendared Micro-Glass **Glass-PLEAT** cartridges exhibit significantly reduced resistance to flow when compared to similarly rated Micro-Fiber technologies.

Glass-PLEAT cartridges are an outstanding choice for filtering beverages such as beer and wine as they do not remove flavor enhancing proteins. Our construction materials meet or exceed the requirements of CFR 21 for food and beverage contact. Strainrite offers elements that utilize an epoxy binder, providing the **Glass-PLEAT** with an increased range of applications where chemical compatibility is critical.



Features and Benefits

- *Absolute-rated media provides reliable pore size control, resulting in repeatable filtration performance*
- *Non fiber-releasing materials with minimal extractables, providing high purity filtrate*
- *Low pressure drops yield higher flow rates and reduced processing time*
- *Maximized pleat design, coupled with non-calendared Micro-Glass matrix, offers greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per cartridge*
- *Industrial grade utilizes an epoxy binder, FDA grade utilizes an acrylic binder*
- *Thermally bonded construction eliminates particle bypass*

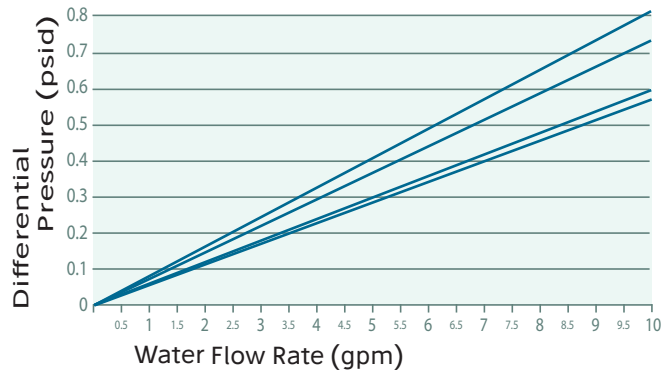
Typical Applications

*Inks and Coatings
Plating Solutions
Solvent Filtration*

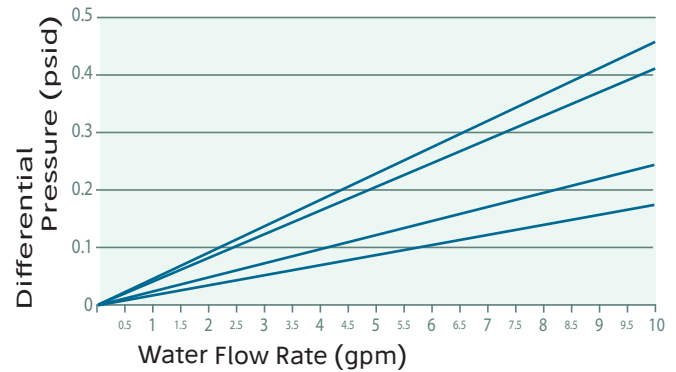
*Oil and Gas Production
Photographic Films*

*Chemical Processing
Waste Water*

GP Pressure Drop vs. Flow Rate



Specifications



Materials of Construction

Filter Media	Borosilicate Microfiber glass
Pleat Support Material	Polypropylene, Polyester
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	GP: Glass PLEAT	GP
Micron Rating	0.8, 0.9, 1, 2, 3, 5, 10, 15	0.8
Length	10, 20, 30, 40	-10
Pleat Support Materials	PE - Polyester PP - Polypropylene	PE
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS- FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade 2 - Pharmaceutical	
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

Product Specifications

Dimensions

Outside Diameter:	2.55" (6.48cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)

Performance Specifications

ASTM F795-88 Retention Rating:	0.8, 0.9, 1.0, 2.0, 3.0, 5.0, 10.0, 15.0
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Maximum Forward Differential Pressure

75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty Polypropylene Hardware
275°F (135°C) Continuous Duty Polyester Hardware

Toxicity

All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

ASTM F795-88 Product Efficiency

	Glass-Pleat	99.98% Efficiency	90.00% Efficiency
GP 0.80	.8µm		0.25µm
GP 0.90	.9µm		0.45µm
GP 1	1.0µm		0.65µm
GP 2	2.0µm		1.0µm
GP 3	3.0µm		1.5µm
GP 5	5.0µm		2.5µm
GP 10	10.0µm		5.0µm
GP 15	15.0µm		10.0µm

GP0.8-10PEC7SDIF

Micro-Fiber Glass Pleated Depth Cartridges

Strainrite's **Glass-Pleat G** pleated filter cartridges utilize a high surface area and high void volume media, incorporating Micro-Glass fibers in a uniform matrix that optimizes element flow rate and service life unattainable by other traditional Micro-Fiber technologies. This revolutionary Micro-Fiber matrix optimizes pore size geometry required to offer beta rated filtration performance. Strainrite's non-calendared Micro-Glass, **Glass-Pleat G** cartridges exhibit significantly reduced resistance to flow when compared to similarly rated Micro-Fiber technologies.

Glass-Pleat G cartridges are an excellent choice for filtering beverages such as beer and wine, as they do not remove flavor enhancing proteins. Our FDA grade Cartridges meet or exceed the requirements of the 21 CFR 177 for Food and Beverage contact. Strainrite also offers elements that utilize an epoxy binder providing the **Glass-Pleat G** with an increased range of applications where chemical compatibility is critical.



Features and Benefits

- *Beta rated media provide reliable pore size control resulting in repeatable filtration performance*
- *Non-fiber releasing materials with minimal extractables provide high purity filtrate*
- *Low pressure drops yield higher flow rates and reduced processing time*
- *Maxx-imum pleat design coupled with non-calendared Micro-Glass matrix offers greater surface area, ensuring longer service life, less downtime and reduced operating costs per cartridge*
- *Industrial grade utilizes an epoxy binder, FDA grade utilizes an acrylic binder*
- *Thermally bonded construction eliminates particle bypass*

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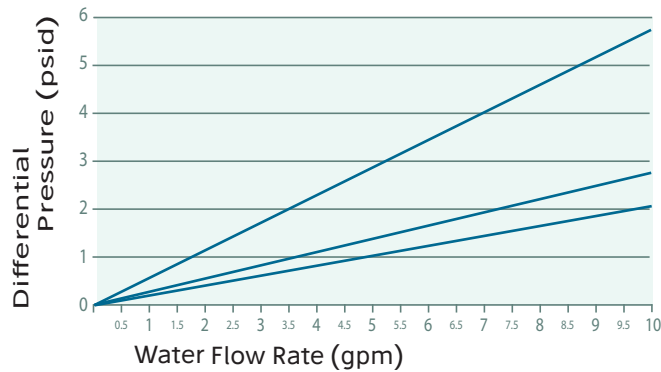
Typical Applications

*Inks and Coatings
Plating Solutions
Solvent Filtration*

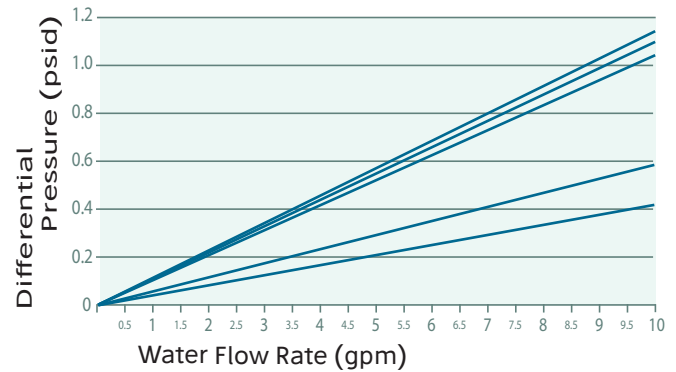
*Oil and Gas Production
Photographic Films*

*Chemical Processing
Waste Water*

GPG Pressure Drop vs. Flow Rate



Specifications



Materials of Construction

Filter Media	Borosilicate Microfiber glass
Pleat Support Material	Polypropylene, Polyester
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	GPG: Glass PLEAT G	GPG
Micron Rating	0.2, 0.45, 0.65, 1, 5, 10	0.2
Length	10, 20, 30, 40	-10
Pleat Support Materials	PE - Polyester PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS- FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade	
Options	I - 316 Stainless Steel Insert DIF - DI Flush	DIF

Product Specifications

Dimensions

Outside Diameter:	2.55" (6.48cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)

Performance Specifications

Retention Rating:	0.2, 0.45, 0.65, 1.0, 5.0, 10.0
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Maximum Forward Differential Pressure

75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty Polypropylene Hardware
275°F (135°C) Continuous Duty Polyester Hardware

Toxicity

All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Product Efficiency

Glass-PLEAT G	99.98% Efficiency
GPG 0.1	0.1µm
GPG 0.2	0.2µm
GPG 0.45	0.45µm
GPG 0.65	0.65µm
GPG 1.2	1.2µm
GPG 5	5µm
GPG 10	10µm
GPG 15	15µm

GPG0.2-10PPC7SDIF

Resin-Bonded Pleated Depth Cartridge

Capitalizing on more than 30 years of filter media conversion expertise, The Strainrite Companies deliver the industry's first Pleated Resin Bonded filter cartridge technology. CRB filter cartridges are manufactured using long staple polyester fibers, in a specific blend of fiber diameters, and offer the broadest range of micron rated cartridges, while virtually eliminating fiber migration. Utilizing our proprietary resin coating process, we are able to take well defined micron rated depth media and treat the material, converting it from a soft, compressible fabric, to a highly advanced rigid fiber technology.

This unique rigid fiber depth filter cartridge is engineered to take advantage of targeted depth media in an optimized pleated configuration, to maximize solids loading, gel removal capacity, and filter life. CRB cartridges contain more than 3ft² of surface area per 10" segment, as compared to approximately .6ft² of surface area per 10" segment in a typical molded or wound resin bonded cartridge. Increased surface area reduces flow velocity, which increases filter life exponentially due to a reduction in particle penetration, promoting increased dirt holding capacity and filter life.

These exceptional pleated cartridges are perfect for both aqueous and non-aqueous liquids. CRB fibers are already fully impregnated, diminishing problematic swelling caused by fluid absorption. This prevents the CRB from prematurely blinding off, making it superior to common untreated filters.

Features and Benefits

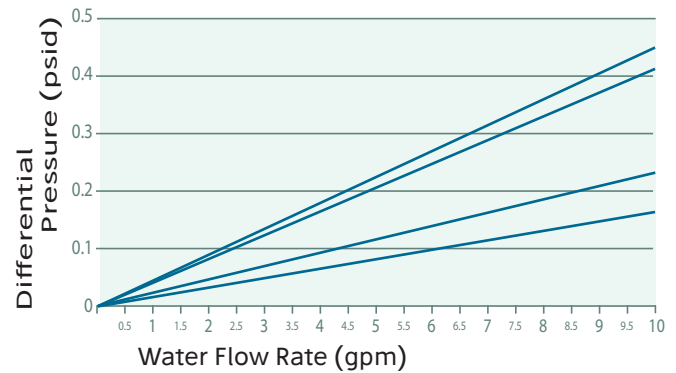
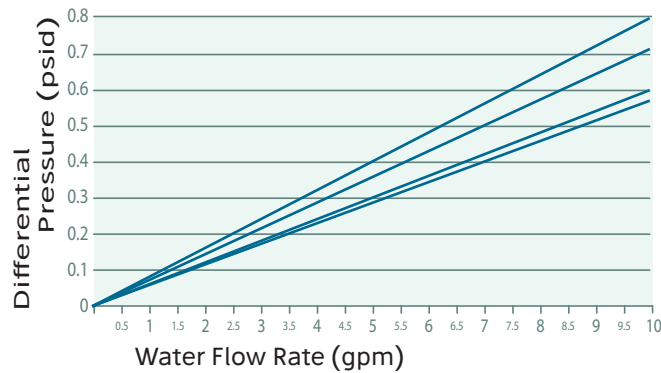
- *Virtually no fiber migration, due to the utilization of long polyester heat set fibers*
- *Higher surface area compared to industry standard resin bonded cartridges, which provides longer filter life, reduced disposal cost and lower cost per gallon to filter.*
- *Longer filter life also reduces labor time associated with change-outs.*
- *No epoxies, glues or adhesives*
- *Extremely high flow rates, due to a substantial increase in surface area*
- *High integrity one piece construction*

Typical Applications

Adhesives
Coatings
Ink
Machine Tool Coolants
Hydraulic fluids
Oils
Resins
Oil Well Completion Fluids
Heavy Brine Solutions
Highly Viscous Fluids



CRB Pressure Drop vs. Flow Rate



Materials of Construction

Filter Media	Phenolic resin-impregnated polyester material
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:

Cartridge Series	CRB: CRB-PLEAT	CRB
Micron Rating	1, 5, 10, 25, 50, 75, 100, 200	03
Length	9.75, 10, 19.5, 20, 29.25, 29.5, 30, 39, 40	-10
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS- FEP Encapsulated Silicone	S
Cartridge Guide	Blank - Industrial	
Options	MC - Molded Cage	MC

Product Specifications

Dimensions

Outside Diameter:

Extruded Cage: 2.55" (6.48cm)

Molded Cage (MC): 2.68" (6.81cm)

Lengths: 9.75" (24.8cm), 10" (25.4cm), 19.5" (49.6cm), 20" (50.8cm), 29.25" (74.4cm), 29.5" (75cm), 30" (76.2cm), 39" (99.4cm), 40" (102cm)

Surface Area: 3ft² per 10"

Performance Specifications

Nominal Rated Retention:

1, 5, 10, 25, 50, 75, 100, 200

Maximum Forward Differential Pressure

70 psid (5.1 bar) @ 68°F (20°C)

40 psid (2.8 bar) @ 150°F (65°C)

Maximum Operating Temperature

180°F (82°C) continuous duty on standard designed CRB elements. Higher temperature components are available by special request.

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

CRB03-10C7SMC

Continuous Polypropylene Pleated Cartridges

Strainrite's CPP and CPW all-Polypropylene filter cartridges optimize throughput while achieving consistent and repeatable effluent quality. Our filter media is constructed on the latest continuous Micro-fiber blowing equipment that precisely control fiber diameter and integrity across the entire web. Utilizing state-of-the-art on-line monitoring equipment, we are able to deliver the industry's most uniform and consistent media ensuring unparalleled product consistency.

The CPP and CPW filters are manufactured in continuous lengths without binders or resins resulting in an extremely clean non-fiber releasing filter. All construction materials comply with FDA Title 21 of The Code of Federal Regulations for food and beverage contact.

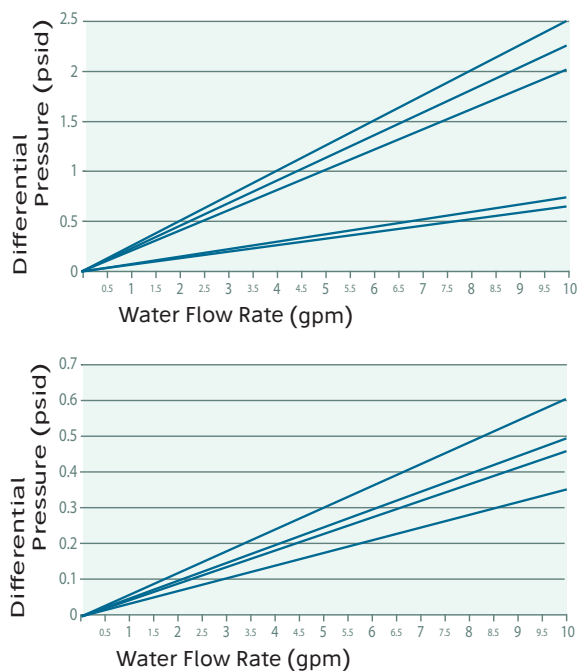


Features and Benefits

- CPP elements have over 6 ft² of surface area per 10" equivalent
- CPW elements have 4.5 ft² of surface area per 10" equivalent
- High efficiency media provides reliable, consistent and repeatable filtration results
- High surface area pleat design for greater surface area ensures longer service life, fewer change outs and reduced operating costs per cartridge
- FDA Title 21 compliant for food and beverage contact
- 100% Polypropylene construction offers a wide range of chemical compatibility
- Thermally bonded construction to ensure a cleaner filtrate

Typical Applications

Bleach
General Chemical
Water filtration
Solvent filtration
RO/DI prefiltration
Liquefied sugar
Waste Water



Materials of Construction

Filter Media	Polypropylene Microfiber
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	CPP: Continuous Pur-PLEAT CPW: Continuous Pur-PLEAT	CPP
Micron Rating	0.2, 0.5, 1, 2.5, 5, 10, 15, 20, 40, 70	0.5
Length	10, 20, 30, 40	-10
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS - FEP Encapsulated Silicone	S
Options	I - 316 Stainless Steel Insert MC - Molded Cage	MC

Product Specifications

Dimensions

Outside Diameter:

Extruded Cage: 2.55" (6.48cm)

Molded Cage (MC): 2.68" (6.81cm)

Lengths: 10" (25.4cm), 20" (50.8cm),
30" (76.2cm), 40" (102cm)

CPP Surface Area: 6ft² per 10"

CPW Surface Area: 4.5ft² per 10"

Performance Specifications

Retention Rating:

0.2, 0.5, 1.0, 2.5, 5.0, 10.0, 15.0, 20.0, 40.0, 70.0

Maximum Forward Differential Pressure

70 psid (5.1 bar) @ 68°F (20°C)

40 psid (2.8 bar) @ 150°F (65°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Product Efficiency

Continuous Poly-Pleat 99% Efficiency

CPP/CPW 0.1	0.1µm
CPP/CPW 0.2	0.2µm
CPP/CPW 0.5	0.5µm
CPP/CPW 1	1.0µm
CPP/CPW 2.5	2.5µm
CPP/CPW 5	5µm
CPP/CPW 10	10µm
CPP/CPW 15	15µm
CPP/CPW 20	20µm
CPP/CPW 40	40µm
CPP/CPW 70	70µm

CPP0.5-10C7SMC

Continuous Fiber Pleated Cartridges

Strainrite's **Continuous Fiber Pleat (CFP)** filter cartridges utilize a high surface area of small denier fibers to create more void volume in a highly uniform matrix, optimizing flow rate and service life without sacrificing particle efficiency. This revolutionary Micro-fiber optimizes pore size geometry required to offer absolute rated filtration performance. Our high efficiency media is non-calendared at the lower micron ratings resulting in significantly reduced resistance to flow or pressure drop when compared to similarly rated polypropylene micro-fiber technologies.

The **Continuous Fiber Pleat** products are available in industrial grades that utilize epoxy binders or in FDA compliant grades, which utilize acrylic binders. Strainrite's **CFP** products are perfect for a wide range of applications where chemical compatibility is critical.



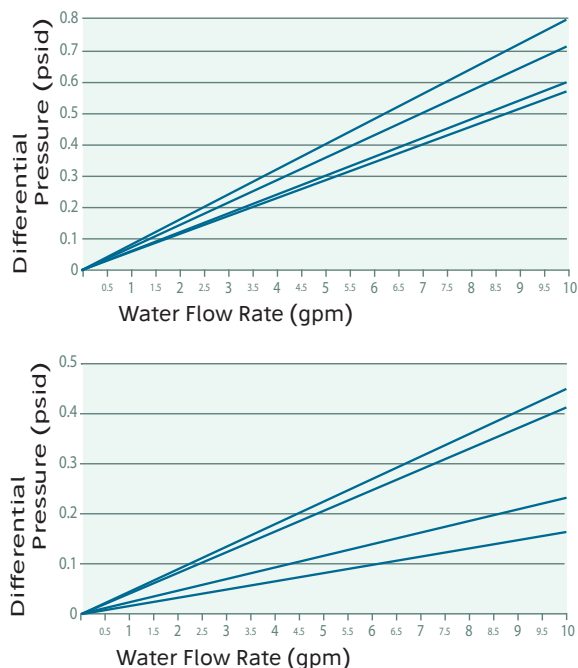
Features and Benefits

- *High efficiency media provides reliable, consistent and repeatable filtration results*
- *High surface area pleat design for greater surface area ensures longer service life, fewer change outs and reduced operating costs per cartridge*
- *FDA Title 21 compliant for food and beverage contact*
- *Thermally bonded construction to ensure a cleaner filtrate*

Typical Applications

*General Chemical
Water filtration
Solvent filtration
RO/DI prefiltration
Waste Water
Oil and Gas Production
Plating Solutions*

CFP Pressure Drop vs. Flow Rate



Materials of Construction

Filter Media	Borosilicate Microfiber glass
Pleat Support Material	Polyester
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	CFP: Continuous Fiber-PLEAT	CFP
Micron Rating	0.25, 0.45, 0.65, 1, 1.5, 2.5, 5, 10	0.65
Length	10, 20, 30, 40	-10
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS - FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade	
Options	I - 316 Stainless Steel Insert MC - Molded Cage	MC



CFP0.65-10C7SMC

Specifications

Product Specifications

Dimensions

Outside Diameter:

Extruded Cage: 2.55" (6.48cm)

Molded Cage (MC): 2.68" (6.81cm)

Lengths: 10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)

Surface Area: 3ft² per 10"

Performance Specifications

Retention Rating:

0.25, 0.45, 0.65, 1.0, 1.5, 2.5, 5.0, 10.0

Maximum Forward Differential Pressure

70 psid (5.1 bar) @ 68°F (20°C)

40 psid (2.8 bar) @ 150°F (65°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Product Efficiency

CFP-Pleat-rite	99.98% Efficiency	90.00% Efficiency
CFP 0.25	0.8µm	0.25µm
CFP 0.45	0.9µm	0.45µm
CFP 0.65	1µm	0.65µm
CFP 1	2µm	1.0µm
CFP 1.5	3µm	1.5µm
CFP 2.5	5µm	2.5µm
CFP 5	10µm	5.0µm
CFP 10	15µm	10.0µm

High Solids Loading All Polypropylene Pleated Filter Cartridges

Strainrite continues its tradition of state-of-the-art advanced filtration innovation with the **HSLP**, a unique polypropylene depth filter that utilizes long strand small and large diameter fibers to provide a high solids loading, absolute-rated, pleated depth filter. This binder-free depth media is excellent for removing gels and offers more than twice the surface area compared with industry standard non-pleated depth filters. The increased surface area provides higher flow rates at reduced pressure, resulting in increased filter life.

Our 100% polypropylene construction provides an excellent range of chemical compatibility for your most demanding applications. All polypropylene construction materials are CFR 21 listed for direct food contact, which makes this filter ideal for a broad range of applications.



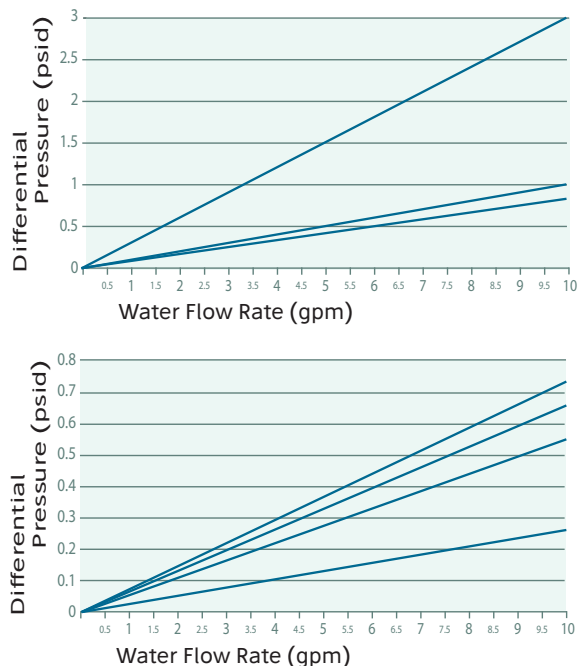
Features and Benefits

- *Absolute-rated media provides reliable, consistent and repeatable filtration*
- *Low pressure drops yield higher flow rates and reduced processing time*
- *Maximized pleat design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per cartridge*
- *100% Polypropylene, FDA compliant with CFR 21*
- *Thermally bonded construction, eliminating particle bypass*

Typical Applications

*Cosmetics
Electroplating
Fermentation processes
Food and Beverage
High purity water
Pharmaceutical
Photochemical
RO pre-filtration*

HSLP Pressure Drop vs. Flow Rate



Materials of Construction

Filter Media	Polypropylene Microfiber Composite
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	HSLP: Poly-PLEAT HSL	HSLP
Micron Rating	1, 2.5, 5, 10, 15, 20, 25, 35, 70, 90, 120	1
Length	10, 20, 30, 40	-10
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS- FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade	
Options	I - 316 Stainless Steel Insert MC - Molded Cage	MC



HSLP1-10C7SMC

Specifications

Product Specifications

Dimensions

Outside Diameter:

Extruded Cage: 2.55" (6.48cm)

Molded Cage (MC): 2.68" (6.81cm)

Lengths: 10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)

Performance Specifications

Retention Rating:

1.0, 2.5, 5.0, 10.0, 15.0, 20.0, 25.0, 35.0, 70.0, 90.0, 120.0

Maximum Forward Differential Pressure

75 psid (5.1 bar) @ 68°F (20°C)

40 psid (2.8 bar) @ 150°F (65°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty Polypropylene Hardware

Toxicity

All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Product Efficiency

HSLP	99.98% Efficiency
HSLP 1.0	1µm
HSLP 2.5	2.5µm
HSLP 5	5µm
HSLP 10	10µm
HSLP 15	15µm
HSLP 20	20µm
HSLP 25	25µm
HSLP 35	35µm
HSLP 70	70µm
HSLP 90	90µm
HSLP 120	120µm

The **Vino-Maxx E** pleated membrane filters are specifically engineered to provide an absolute barrier to wine spoiling micro-organisms.

The **Vino-Maxx E** incorporates a highly asymmetric polyethersulfone membrane within our exclusive pleat support configuration creating one of the industry's most rugged yeast removal filters. This exceptionally robust filter design means filter performance will remain effective after multiple steam sterilization cycles.

Every **Vino-Maxx E** filter is integrity tested and flushed with high purity water to assure product performance and purity. Integrity test parameters have been correlated to microbiological retention for both of our 0.45µm and 0.65µm membrane filters (refer to Microbiological Performance chart).



ClarityTM
clear solutions

Features and Benefits

- *Absolute-rated and integrity tested membrane provides reliable, consistent and repeatable filtrate to ensure microbiological stability*
- *Low pressure drops yield higher flow rates and reduced processing time*
- *Non-fiber shedding Polypropylene support materials eliminate fiber migration*
- *MAXX-imum Pleat Design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per element*
- *100% Thermally bonded construction*
- *Low hold-up volumes*
- *High strength design allowing for extended use and multi autoclave and hot water sanitization cycles*
- *316 Stainless steel insert standard*

Quality Compliance

- *All materials are listed in Title 21 of the US Code of Federal Regulations 177-182*
- *Component materials meet the biosafety criteria of the USP Reactivity Test for Class VI Plastics*
- *Component materials meet the "non-fiber releasing" criteria as defined in 21 CFR 210.3 (b) (6)*
- *Vino-Maxx cartridges are manufactured in a facility whose Quality Management System is approved by an accredited registering body to the ISO 9001:2008 standard*
- *Vino-Maxx cartridges are 100% integrity tested and DI flushed*

VNXX Integrity Test Values

Pore Size	Bubble Point	Test Pressure	Air Diffusion
VNXX0.45	38 psig in water	28 psig	≤13.5mL/min
VNXX0.65	26 psig in water	20 psig	≤14mL/min

Microbiological Performance

Microorganism	VNXX0.45	VNXX0.65
Oenococcus Oeni	≥10 ⁷	
Lactobacillus Hilgardii	≥10 ⁷	
Saccharomyces Cerevisiae	≥10 ⁹	≥10 ⁹

Materials of Construction

Filter Media	Polyethersulfone
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Reinforcing Ring	316 Stainless Steel
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Silicone, EPDM

Ordering Information

Example:		
Cartridge Series	VNXX: VINO-MAXX E	VNXX
Micron Rating	0.45, 0.65	0.45
Length	10, 20, 30, 40	-10
Pleat Support Materials	PP - Polypropylene	PP
End Cap Configurations	C3-SOE flat closed ends, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
O-ring Materials	S - Silicone (standard O-rings) E - EPDM	S



VNXX0.45-10PPC7S

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Effective Filtration Area:	7ft ² (.65m ²)

Performance Specifications

Absolute Rated Retention:
0.45µm, 0.65 µm

Maximum Forward Differential Pressure

Forward:	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Sterilization

Cartridge can be sterilized via steam or Autoclave:
20 times at 275°F (135°C) Cartridge may be sanitized
in place with common sanitizing agents, contact factory
for chemical compatibility

Packaging Economy

Bulk packaging in case quantities
to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Dual Layer Pleated Polyethersulfone Membrane Sterilizing Grade Cartridge

The Pur-MAXX E-SG is engineered to meet the highest standards of microorganism control for sterile fluids. Pur-MAXX E-SG filter element is validated for complete removal of *Brevundimonas diminuta* (ATCC 19146) at test concentrations of 107 CFU/cm² (Colony Forming Units). This product is ideally suited for applications where microorganism contamination causes product defects or extra processing time due to increase fluid instability.

Pur-MAXX E-SG is produced utilizing a unique multi-pleated configuration integrating highly asymmetric and hydrophilic polyethersulfone membrane with exceptional pleat support materials. This novel multi-pleated approach increases cartridge life, strength and durability. This structural product enhancement allows our filter cartridges to withstand multiple sterilization cycles without sacrificing product integrity.



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This Sterilizing Grade pleated cartridge complies with FDA CFR Title 21 and USP Biological Reactivity for Class VI Plastics. By combining these ultra pure components with the low protein binding features of highly asymmetric hydrophilic polyethersulfone membrane makes Pur-MAXX E-SG perfect for applications in the biopharmaceutical, and bottled water industries.

Typical Applications

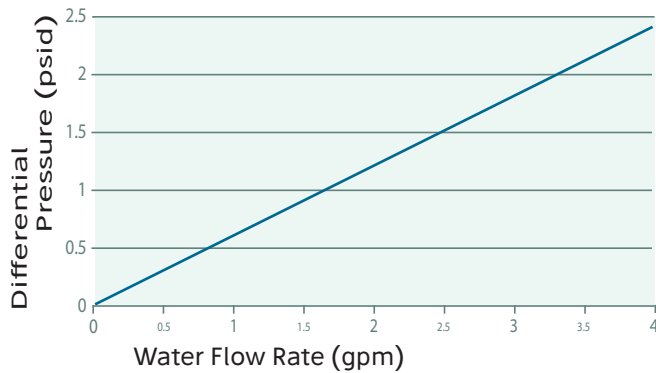
Final filtration of WFI & CIP Water, Cell Culture Purification, Buffer Solutions, Vaccines, Diagnostics, LVP (Large Volume Parenterals)

Features and Benefits

- *Validated 0.2 µm absolute rated membrane configuration*
- *High surface area membrane offers excellent life and flux rates while providing absolute filtration*
- *Absolute-rated dual layer membrane provides reliable, consistent and repeatable filtrate quality*
- *Low pressure drops yield higher flow rates and reduced processing time*
- *Non-fiber shedding Polypropylene support materials eliminate fiber migration*
- *MAXX-imum Pleat Design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per element*
- *All materials of construction are FDA compliant with CFR Title 21 and are bio-safe in accordance with USP Class VI*
- *100% Thermally bonded construction*
- *Low hold-up volumes*
- *Integrity tested*
- *High strength design allowing for extended use and multi autoclave and hot water sanitization cycles*
- *316 SS reinforced end treatments*

Specifications

PRMXE-SG Pressure Drop vs. Flow Rate



PRMXE-SG Integrity Test Values*

Pore Size	Bubble Point	Test Pressure	Air Diffusion
PRMXE0.2-SG	22psig	17psig*	≤10mL/min

*50/50 IPA/DI water solution

Materials of Construction

Filter Media	Polyethersulfone
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Reinforcing Ring	316 Stainless Steel
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone

Ordering Information

Example:

Cartridge Series	PRMXE: Pur-MAXX E	PRMXE
Micron Rating	0.20	0.2
Length	10, 20, 30, 40	-10
Pleat Support Materials	PP - Polypropylene	PP
End Cap Configurations	C3-SOE flat closed ends, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM	S
Cartridge Guide	SG - Sterilizing Grade	SG

PRMXE0.2-10PPC7SSG

USP Physiochemical Tests for Plastics

Ultrapure water extracts from multiple lots of PUR-Maxx E-SG cartridges were tested and shown to have values that comply with USP limits.

Test	Results	USP Limit
Non volatile residue	<2mg	<15mg
Heavy Metals	<1ppm	<1ppm
Residue on Ignition	<2mg	<5mg
Buffering Capacity	<1mL	<10mL

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Effective Filtration Area:	6.5ft ² (.62m ²)

Performance Specifications

Absolute Rated Retention: 0.20µm

Maximum Forward Differential Pressure

Forward:	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or Autoclave: 20 times at 275°F (135°C) Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Dual Layer Pleated Polyethersulfone Membrane Sterilizing Grade Cartridge

The Mem-PLEAT SG is engineered to meet the highest standards of microorganism control for sterile fluids. Mem-PLEAT SG filter element is validated for complete removal of *Brevundimonas diminuta* (ATCC 19146) at test concentrations of 107 CFU/cm² (Colony Forming Units). This product is ideally suited for applications where microorganism contamination causes product defects or extra processing time due to increase fluid instability.

Mem-PLEAT SG is produced utilizing a unique multi-pleated configuration integrating asymmetric and hydrophillic polyethersulfone membrane with exceptional pleat support materials. This novel multi-pleated approach increases cartridge life, strength and durability. This structural product enhancement allows our filter cartridges to withstand multiple sterilization cycles without sacrificing product integrity.



This Sterilizing Grade pleated cartridge complies with FDA CFR Title 21 and USP Biological Reactivity for Class VI Plastics. By combining these ultra pure components with the low protein binding features of highly asymmetric hydrophillic polyethersulfone membrane makes Mem-PLEAT SG perfect for applications in the biopharmaceutical, and bottled water industries.

Features and Benefits

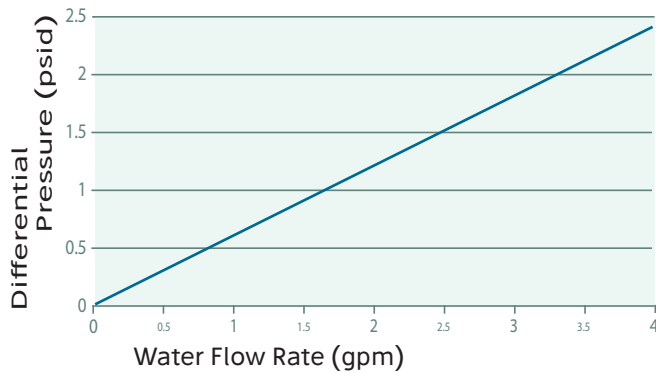
- *Validated 0.2 µm absolute rated membrane configuration High surface area membrane offers excellent life and flux rates while providing absolute filtration*
- *Absolute-rated dual layer membrane provides reliable, consistent and repeatable filtrate quality*
- *Low pressure drops yield higher flow rates and reduced processing time*
- *Non-fiber shedding Polypropylene support materials eliminate fiber migration*
- *Pleat Design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per element*
- *All materials of construction are FDA compliant with CFR Title 21 and are bio-safe in accordance with USP Class VI*
- *100% Thermally bonded construction*
- *Low hold-up volumes*
- *Integrity tested*
- *High strength design allowing for extended use and multi autoclave and hot water sanitization cycles*
- *316 SS reinforced end treatments*

Typical Applications

Final filtration of WFI & CIP Water, Cell Culture Purification , Buffer Solutions , Vaccines, Diagnostics, LVP (Large Volume Parenterals)

Specifications

MPE-SG Pressure Drop vs. Flow Rate



MPE-SG Integrity Test Values*

Pore Size	Bubble Point	Test Pressure	Air Diffusion
0.2-SG	22psig	17psig*	≤10mL/min

*50/50 IPA/DI water solution

Materials of Construction

Filter Media	Polyethersulfone
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Reinforcing Ring	316 Stainless Steel
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone

Ordering Information

Example:

Cartridge Series	MPE: Mem-PLEAT SG	MPE
Micron Rating	0.20	0.2
Length	10, 20, 30, 40	-10
Pleat Support Materials	PP - Polypropylene	PP
End Cap Configurations	C3-SOE flat closed ends, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM	S
Cartridge Guide	SG - Sterilizing Grade	SG



MPE0.2-10PPC7SSG

USP Physiochemical Tests for Plastics

Ultrapure water extracts from multiple lots of Mem-Pleat E-SG cartridges were tested and shown to have values that comply with USP limits.

Test	Results	USP Limit
Non volatile residue	<2mg	<15mg
Heavy Metals	<1ppm	<1ppm
Residue on Ignition	<2mg	<5mg
Buffering Capacity	<1mL	<10mL

Product Specifications

Dimensions

Outside Diameter:	2.55" (6.48cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Effective Filtration Area:	6.5ft ² (.62m ²)

Performance Specifications

Absolute Rated Retention: 0.20µm

Maximum Forward Differential Pressure

Forward:	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or Autoclave: 20 times at 275°F (135°C) Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Pleated Polyethersulfone Membrane Cartridges

The Bev-Maxx pleated membrane filters are specifically engineered to provide an absolute barrier to beverage spoiling micro-organisms. The Bev-Maxx incorporates a highly asymmetric polyethersulfone membrane within our exclusive pleat support configuration creating one of the industry's most rugged yeast removal filters. This exceptionally robust filter design means filter performance will remain effective after multiple steam sterilization cycles.

Every Bev-Maxx filter is integrity tested and flushed with high purity water to assure product performance and purity. Integrity test parameters have been correlated to microbiological retention for all of our membrane filters (refer to Microbiological Performance chart).



Features and Benefits

- *Absolute-rated and integrity tested membrane provides reliable, consistent and repeatable filtrate to ensure microbiological stability*
- *Low pressure drops yield higher flow rates and reduced processing time*
- *Non-fiber shedding Polypropylene support materials eliminate fiber migration*
- *MAXX-imum Pleat Design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per element*
- *100% Thermally bonded construction*
- *Low hold-up volumes*
- *High strength design allowing for extended use and multi autoclave and hot water sanitization cycles*
- *316 Stainless steel insert standard*

Quality Compliance

- *All materials are listed in Title 21 of the US Code of Federal Regulations 177-182*
- *Component materials meet the biosafety criteria of the USP Reactivity Test for Class VI Plastics*
- *Component materials meet the "non-fiber releasing" criteria as defined in 21 CFR 210.3 (b) (6)*
- *Bev-Maxx cartridges are manufactured in a facility whose Quality Management System is approved by an accredited registering body to the ISO 9001:2008 standard*
- *Bev-Maxx cartridges are 100% integrity tested and DI flushed*

BVM Integrity Test Values

Pore Size	Bubble Point	Test Pressure	Air Diffusion
BVM0.20	22 psig IPA/Water	17 psig*	≤10mL/min
BVM0.45	38 psig in water	28 psig	≤13.5mL/min
BVM0.65	26 psig in water	20 psig	≤14mL/min

*50/50 IPA/DI water solution

Microbiological Performance

Microorganism	BVM0.20	BVM0.45	BVM0.65
Oenococcus Oeni		≥10 ⁷	
Lactobacillus Hilgardii		≥10 ⁷	
Saccharomyces Cerevisiae		≥10 ⁷	≥10 ⁷
Brevundimonas Diminuta	≥10 ⁷		

Materials of Construction

Filter Media	Polyethersulfone
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Reinforcing Ring	316 Stainless Steel
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Silicone, EPDM

Ordering Information

Cartridge Series	BVM: Bev-MAXX	BVM
Micron Rating	0.20, 0.45, 0.65	0.45
Length	10, 20, 30, 40	-10
Pleat Support Materials	PP - Polypropylene	PP
End Cap Configurations	C3-SOE flat closed ends, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
O-ring Materials	S - Silicone (standard O-rings) E - EPDM	S

Example:



BVM0.45-10PPC7S

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Effective Filtration Area:	7ft ² (.65m ²)

Performance Specifications

Absolute Rated Retention:
0.20µm, 0.45µm, 0.65 µm

Maximum Forward Differential Pressure

Forward:	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Sterilization

Cartridge can be sterilized via steam or Autoclave:
20 times at 275°F (135°C) Cartridge may be sanitized
in place with common sanitizing agents, contact factory
for chemical compatibility

Packaging Economy

Bulk packaging in case quantities
to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Pleated Polyethersulfone Membrane Cartridges

The Bev-Rite pleated membrane filters are specifically engineered to provide a barrier to beverage spoiling micro-organisms. The Bev-Rite bio-reduction filter incorporates a highly asymmetric polyethersulfone membrane within our exclusive pleat support configuration, creating one of the industry's most rugged bacteria removal filters.

This exceptionally robust filter design means filter performance will remain effective after multiple steam sterilization cycles. Every Bev-Rite filter is integrity tested and flushed with high purity water to assure product performance and purity.



Features and Benefits

- *Absolute-rated and integrity tested membrane provides reliable, consistent and repeatable filtrate to ensure microbiological stability*
- *Low pressure drops yield higher flow rates and reduced processing time*
- *Non-fiber shedding Polypropylene support materials eliminate fiber migration*
- *MAXX-imum Pleat Design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per element*
- *100% Thermally bonded construction*
- *Low hold-up volumes*
- *High strength design allowing for extended use and multi autoclave and hot water sanitization cycles*
- *316 Stainless steel insert standard*

Quality Compliance

- *All materials are listed in Title 21 of the US Code of Federal Regulations 177-182*
- *Component materials meet the biosafety criteria of the USP Reactivity Test for Class VI Plastics*
- *Component materials meet the "non-fiber releasing" criteria as defined in 21 CFR 210.3 (b) (6)*
- *Bev-Rite cartridges are manufactured in a facility whose Quality Management System is approved by an accredited registering body to the ISO 9001:2008 standard*
- *Bev-Rite cartridges are 100% integrity tested and DI flushed*

BVM Integrity Test Values

Pore Size	Bubble Point	Test Pressure
BVR0.20	22 psig IPA/water	17 psig*
BVR0.45	38 psig in water	28 psig
BVR0.65	26 psig in water	20 psig
BVR0.80	16 psig in water	11 psig

*50/50 IPA/DI water solution

Materials of Construction

Filter Media	Polyethersulfone
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Reinforcing Ring	316 Stainless Steel
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Silicone, EPDM

Ordering Information

Example:		
Cartridge Series	BVE: Bev-Rite	BVE
Micron Rating	0.20, 0.45, 0.65, 0.80	0.45
Length	10, 20, 30, 40	-10
Pleat Support Materials	PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C3-SOE flat closed ends, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
O-ring Materials	S - Silicone (standard O-rings) E - EPDM	S



BVE0.45-10PPC7S

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Effective Filtration Area:	7ft ² (.65m ²)

Performance Specifications

Absolute Rated Retention:
0.20µm, 0.45µm, 0.65 µm, 0.80µm

Maximum Forward Differential Pressure

Forward:	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Sterilization

Cartridge can be sterilized via steam or Autoclave:
20 times at 275°F (135°C) Cartridge may be sanitized
in place with common sanitizing agents, contact factory
for chemical compatibility

Packaging Economy

Bulk packaging in case quantities
to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Sterilizing PTFE Membrane Vent Filter

The Vent-Maxx gas sterilizing filters set a new standard for PTFE membrane elements. These filters utilize a technologically advanced membrane in our unique pleat construction to deliver unrivalled efficiency, superior strength, and high flow rates.

Vent-Maxx double layer PTFE membrane filters are designed to remove microorganisms, particulate, and moisture in your most demanding air and gas applications. These liquid validated sterilizing grade filters are designed to meet the highest levels of security required in the pharmaceutical, food and beverage, and biopharmaceutical industries.

Vent-Maxx filters conform to USP Class VI – 121oC and 21 CFR Part 177. Strainrite delivers clear solutions to your air and gas filtration applications.



*clarity*TM
clear solutions

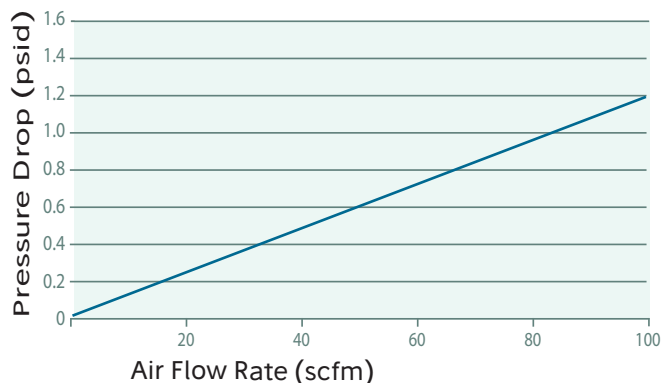
Features and Benefits

- PTFE membranes
- Inherently hydrophobic media
- 100% integrity tested
- High surface area
- Sterilizing Grade in liquids
- Virus retentive in gases
- Thermally bonded construction
- FDA listed materials per CFR 21
- Manufactured in a ISO 9001:2008 certified facility
- Water intrusion testable
- Quality control certificate with every filter
- Can be steam sterilized multiple times in situ for longer filter life
- Manufactured in a 3rd party certified clean room

Typical Applications

Fermenter inlet air and exhaust venting
Sterile process air
Sterile venting of tanks.

VM Pressure Drop vs. Air Flow Rate



Materials of Construction

Filtration Membrane	Double Layer Polytetrafluoroethylene (PTFE)
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
End Cap Insert	316 Stainless Steel

VM Integrity Test Data

All cartridges are integrity tested prior to shipment using pressure decay test method. Values below are for cartridges wetted with 100% IP.

Cartridge	Test Pressure	Diffusional Flow
10"	14psi	25mL/min
20"	14psi	50mL/min
30"	14psi	75mL/min

Ordering Information

Cartridge Series	VM: Vent-MAXX	VM
Length	10, 20, 30	-10
End Cap Configurations	C3-SOE flat closed ends, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) V - Fluorocarbon	S
Cartridge Guide	2 - Pharmaceutical	2

Example:



VM-10C72

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm) 20" (50.8cm) 30" (76.2cm)
Effective Filtration Area:	8.5ft ² per 10" equivalent

Maximum Forward Differential Pressure

Forward:	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

Sterilization

Vent-Maxx cartridges have been validated for bacterial removal in air at an aerosol bacterial challenge level of 10⁷ *brevundimonas diminuta* per cm² per ASTM F 2101-07.

Liquid challenge validated as sterilizing grade filter at a challenge level of 10⁷ *brevundimonas diminuta* per cm² per ASTM F 838-05.

Maximum before and after use Water Intrusion Test (WIT) value of > 60 psi with a WIT not to exceed 70 psi.

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton

Pleated PTFE Membrane Vent Filter

Vent-Rite hydrophobic filters are sterilizing PTFE membrane filters. Vent-Rite PTFE membrane provides the highest levels of security in demanding air and gas applications. Vent-Rite PTFE membrane filters are designed to remove microorganisms, particulate and moisture. Strainrite's optimized design ensures exceptional gas flow rate and throughput for the Biopharmaceutical, food and beverage markets.

Vent-Rite filters are designed for applications that require particulate security to 0.003µm in gas and air and 0.2µm in liquids. Strainrite delivers value and security with these aerosol validated cartridges.

Vent-Rite meets USP Biological Reactivity Test Criteria, is Non fiber releasing, and manufactured to withstand multiple sterilization cycles, when using industry recognized and accepted methods.



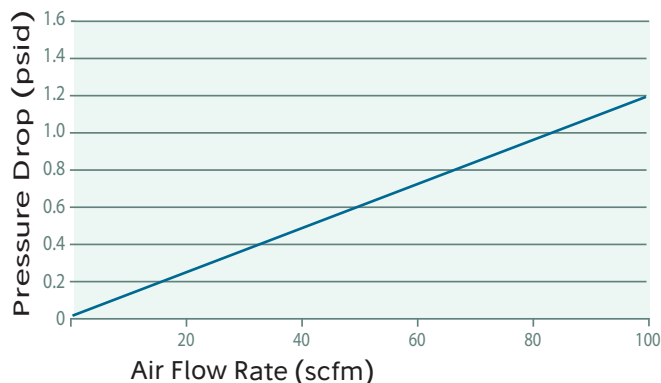
Features and Benefits

- PTFE membranes
- Inherently hydrophobic media
- 100% integrity tested
- High surface area
- Virus retentive in gasses
- Thermally bonded construction
- FDA listed materials per CFR 21
- Manufactured in a ISO 9001:2008 certified facility
- Water intrusion testable
- Quality control certificate packaged with every filter
- Can be steam sterilized multiple times in situ for longer filter life
- Manufactured in 3rd party certified clean rooms

Typical Applications

Fermenter inlet air and exhaust venting
Sterile process air
Sterile venting of tanks.

VR Pressure Drop vs. Air Flow Rate



Materials of Construction

Filtration Membrane	Polytetrafluoroethylene (PTFE)
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
End Cap Insert	316 Stainless Steel

VR Integrity Test Data

All cartridges are integrity tested prior to shipment using pressure decay test method. Values below are for cartridges wetted with 100% IP.

Cartridge	Test Pressure	Diffusional Flow
10"	14psi	50mL/min
20"	14psi	100mL/min
30"	14psi	150mL/min

Ordering Information

Cartridge Series	VR: Vent-Rite	VR
Length	10, 20, 30, 40	-10
End Cap Configurations	C3-SOE flat closed ends, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) V - Fluorocarbon	S
Cartridge Guide	2 - Pharmaceutical	2

Example:



VR-10C72

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm) 20" (50.8cm) 30" (76.2cm)
Effective Filtration Area:	8.5ft ² per 10" equivalent

Maximum Forward Differential Pressure

Forward:	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

Sterilization

Vent-Rite cartridges have been validated for bacterial removal in air at an aerosol bacterial challenge level of 10⁷ *brevundimonas diminuta* per cm².

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton

Electronics Grade Pleated Polyethersulfone Membrane Cartridges

The PES-E was developed for microelectronics industry where a high degree of particle retention and/or constant bacterial barrier for effective sterilization is required.

Hydrophilic asymmetric polyethersulfone membrane ensures excellent flow rates, broad chemical compatibility, low protein binding, low extractability, high mechanical strength, and temperature resistance in a variety of applications in the microelectronics industry. The PES-E is 100% integrity testable and utilizes Strainrite's double rinse process to ensure extremely low extractables. Polyethersulfone offers a broad range of chemical compatibility and temperature performance.

The PES-E meets USP Biological Reactivity Test, in vivo for class VI-121°C plastics. Sterilizable using industry recognized and accepted methods.



Features and Benefits

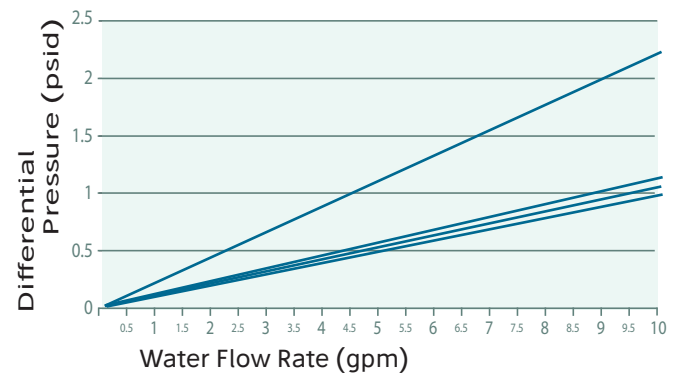
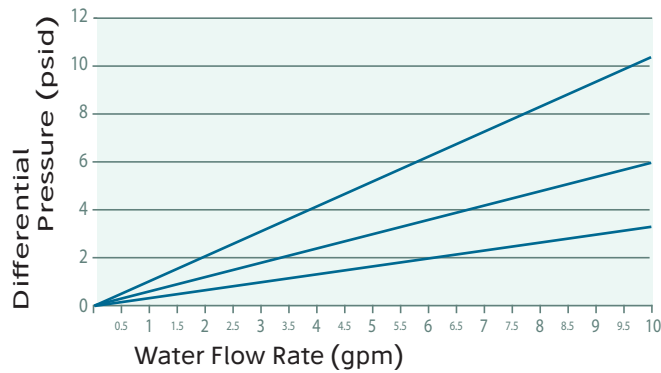
- *High surface area membrane offers excellent life and flux rates while providing absolute filtration*
- *Absolute-rated membrane provides reliable, consistent and repeatable filtrate quality*
- *Low pressure drops yield higher flow rates and reduced processing time*
- *Non-fiber shedding Polypropylene support materials eliminate fiber migration*
- *MAXX-imum Pleat Design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per element*
- *Thermally bonded construction without the use of adhesives or binders, resulting in lower extractables*
- *Integrity testable*
- *High strength design allowing for extended use*

Typical Applications

Liquid Clarification
High Purity Chemical Filtration
General-Use Water Filtration
Deionized Water Systems

Clarity™
clear solutions

PES E Pressure Drop vs. Flow Rate



Materials of Construction

Filter Media	Polyethersulfone
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	PESE: PES E	PESE
Nanometers	50,100, 200, 450, 650, 800,1200	200
Length	10, 20, 30, 40	-10
Pleat Support Materials	PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS- FEP Encapsulated Silicone	S
Cartridge Guide	E - Electronics	E
Options	I - 316 Stainless Steel Insert T - Integrity Tested	T

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Surface Area:	6.8ft ² per 10" equivalent

**All Cartridges are 18 meg ohm flushed*

Performance Specifications

Absolute Rated Retention in Nanometers:

50,100, 200, 450, 650, 800,1200

Maximum Forward Differential Pressure

Forward:	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or Autoclave: 20 times at 275°F (135°C) Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

PESE200-10PPC7SET

Pleated Microglass Depth over Polyethersulfone Membrane Cartridges

Created for Beverage Pre-final filtration. The **Guard Rite** is the pre final filter, to cost effectively reduce Bio-burden before final filtration and packaging. With a depth layer and synchronized final filtration layer optimized to extend final filter life with a stainless steel insert for steam or hot water sanitization .

Guard Rite is engineered to provide cost effective removal of Particles and reduction of Beverage spoiling Microorganisms. The superior flowing membrane ensures that flavor and color stay in your beverage. Every **Guard Rite** comes with a certificate of conformance and is manufactured to meet the highest cleanliness standards.

Features and Benefits

- *Reliable non fiber releasing media*
- *Synchronized media*
- *Thermally bonded construction*
- *No additives or glue*
- *All materials of construction are FDA compliant with CFR Title 21*
- *Thermally bonded construction without the use of adhesives or binders, resulting in lower extractables*
- *High strength design allowing for extended use and multi-autoclave cycles*

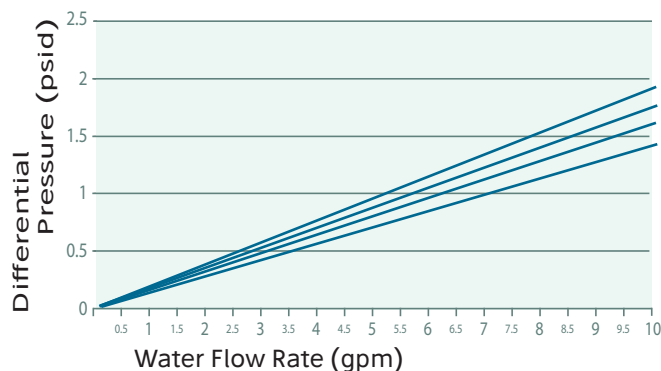


*Clarity*TM
clear solutions

Typical Applications

<i>Prefiltration and clarification</i>	<i>Pre filtration of wine</i>
<i>stages for final sterilizing</i>	<i>Pre filtration of Beer</i>
<i>grade filter protection</i>	<i>Pre filtration of Juice</i>

GR Pressure Drop vs. Flow Rate



Materials of Construction

Filter Media	Microglass over Polyethersulfone
Pleat Support Material	Polypropylene , Polyester
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	GR: Guard Rite	GR
Grade	561, 562, 563, 568	562
Length	10, 20, 30, 40	-10
Pleat Support Materials	PE - Polyester PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS- FEP Encapsulated Silicone	S
Cartridge Guide	1 - FDA Grade	1
Options	DIF - DI Flush	DIF

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Surface Area:	6.8ft ² per 10" equivalent

Maximum Forward Differential Pressure

Forward:	50 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or Autoclave: 20 times at 275°F (135°C) Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

GR562-10PPC7S1DIF

High Solids Loading All Polypropylene Pleated Filter Cartridges

Strainrite continues its tradition of state-of-the-art advanced filtration innovation with the **Trap-Rite**. A unique polypropylene depth filter, that utilizes long strand small and large diameter fibers to provide a high solids loading, absolute-rated, pleated depth filter. This binder-free depth media is excellent for removing filter aid particles from bright beer. **Trap-Rite** also offers more than twice the surface area compared with industry standard non-pleated depth filters. The increased surface area provides higher flow rates at reduced pressure, resulting in increased filter life.

All polypropylene construction materials are CFR 21 listed for direct food contact, which makes this filter ideal for a broad range of applications.

Features and Benefits

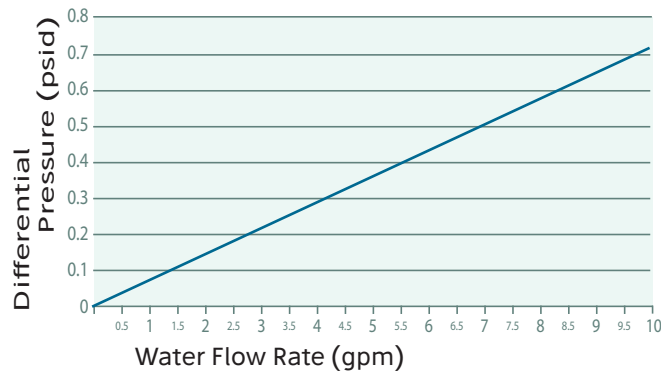
- *Absolute-rated media provides reliable, consistent and repeatable filtration*
- *Low pressure drops yield higher flow rates and reduced processing time*
- *Maximized pleat design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per cartridge*
- *100% Polypropylene, FDA compliant with CFR 21*
- *Thermally bonded construction, eliminating particle bypass*

Typical Applications

*Very high contaminant holding capacity
Excellent resistance to typical brewery use chemicals
Removes filter aid particles*



TR Pressure Drop vs. Flow Rate



Materials of Construction

Filter Media	Polypropylene Microfiber Composite
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:

Cartridge Series	TR: Trap-Rite	TR
Micron Rating	1, 5, 10	03
Length	10, 20, 30, 40	-10
Pleat Support Materials	PE - Polyester PP - Polypropylene	PP
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS- FEP Encapsulated Silicone	S
Cartridge Guide	Blank - General 1 - FDA Grade	1
Options	I - 316 Stainless Steel Insert MC - Molded Cage	I

Product Specifications

Dimensions

Outside Diameter:	2.55" (6.48cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)

Maximum Forward Differential Pressure

75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty Polypropylene Hardware

Toxicity

All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

TR03-10PPC7S1I

The **Endo-Maxx CN** was developed for the filtration of fluids that require a high degree of particle and bacterial retention while achieving a two and a half log reduction of endotoxin.

Hydrophilic charged nylon membrane provides excellent flow rates, broad chemical compatibility, low extractability, high mechanical strength, and temperature resistance in a variety of applications for the biopharmaceutical and dialysis processes.

The **Endo-Maxx CN** meets USP Biological Reactivity Test, in vivo for class VI-121°C plastics. Sterilizable using industry recognized and accepted methods.



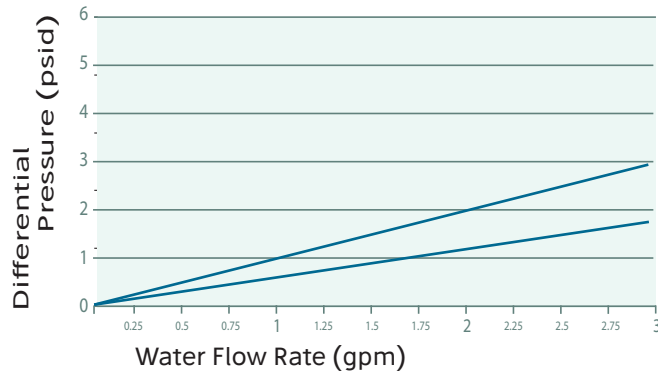
Features and Benefits

- *Integrity tested Endotoxin removal filter.*
- *Absolute-rated membrane provides reliable, consistent and repeatable filtrate quality*
- *MAXX-imum Pleat Design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per element*
- *All materials of construction are FDA compliant with CFR Title 21, Pharmaceutical grades are bio-safe in accordance with USP Class VI*
- *Thermally bonded construction without the use of adhesives or binders, resulting in lower extractables*
- *Low hold-up volumes*
- *Positive zeta potential for removal of charged particles smaller than the absolute retention rating of the filter*
- *Manufactured in an ISO 9001:2008 Certified Quality System*

Typical Applications

*Endotoxin Removal
High Purity Water*

EDXCN Pressure Drop vs. Flow Rate



Endotoxin Reduction

The Endo-MAXX CN cartridge media has been third party verified to deliver a >2 log reduction of bacterial endotoxin using the gel-clot characterization method.

Materials of Construction

Filter Media	Nylon 6,6
Pleat Support Material	Nylon
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	EDXCN: Endo-MAXX CN	EDXCN
Micron Rating	0.1, 0.2	0.1
Length	10, 20, 30, 40	-10
End Cap Configurations	C3-SOE flat closed ends, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS - FEP Encapsulated Silicone	S



EDXCN0.1-10C7S

Product Specifications

Dimensions

Outside Diameter:	2.7" (6.87cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
Surface Area:	6.8ft ² per 10" equivalent

Performance Specifications

Absolute Rated Retention:

0.10, 0.20

Maximum Forward Differential Pressure

Forward:	75 psid (5.5 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)
Reverse:	50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or Autoclave: 20 times at 275°F (135°C) Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Inkjet Ink Pleated Cartridges

6.12

Dual Density Polypropylene Micro-Fiber Depth Cartridges

The **Inkjet Select** filter is another example of Strainrite's continued tradition of providing industry leading filtration solutions. **Inkjet Select (IKS)** filters feature a graded pore density to maximize filter life and performance. **IKS** filters incorporate our proprietary melt blown, Micro and Nano fiber technology to achieve industry leading performance for both pigment and dye based inkjet inks.

The **Inkjet Select** filters are manufactured without binders or resins, in a class 10,000 clean room resulting in an extremely clean non-fiber shedding filter. Due to our utilization of the unique graded pore density depth media this element is outstanding for removing gels, compared to traditional pleated polypropylene filters.

Features and Benefits

- **Absolute-rated media provides reliable, consistent and repeatable filtration results**
- **Graded pore density pleat design to optimize service life, fewer change outs and reduced operating costs per cartridge**
- **Lower pressure drops, which yield higher flow rates and reduced processing time**
- **100% Polypropylene construction offers a wide range of chemical compatibility**
- **Thermally bonded construction ensures a cleaner filtrate while minimizing extractables**



ClarityTM
clear solutions

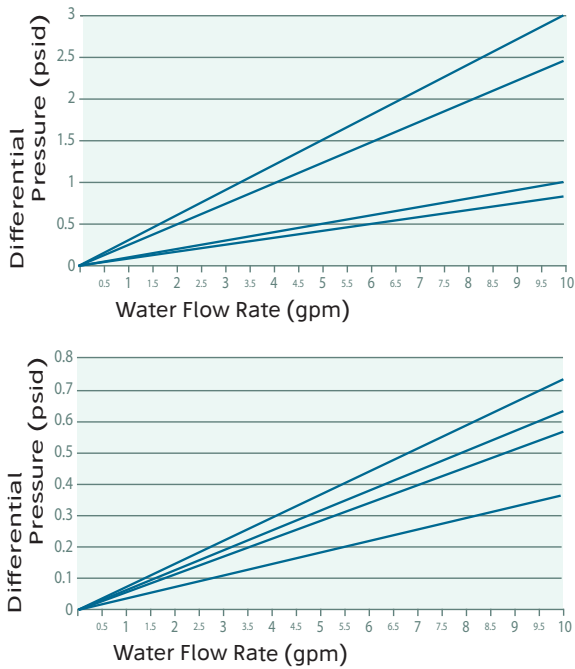
Typical Applications

Dye Based Inkjet Inks

Pigment Based Inkjet Inks

High Viscosity Inkjet Inks

IKS Pressure Drop vs. Flow Rate



Materials of Construction

Filter Media	Polypropylene Micro/Nano-fiber Composite
Pleat Support Material	Polypropylene
End Caps	Polypropylene
Cage/Core	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:		
Cartridge Series	IKS, IKP, IKG: Ink-Jet Select	IKS
Micron Rating	For IKS, IKP: 0.3, 0.5, 1, 3, 5, 10, 15, 20, 40, 70, 90 For IKG: 0.5, 1, 3, 6, 10, 20, 40	1
Length	10, 20, 30, 40	-10
End Cap Configurations	C1-DOE flat open ends C2-SOE recessed cup, internal 213 O-ring C3-SOE flat closed ends, external 222 O-ring C4-SOE flat closed end C5-SOE recessed cup, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	C7
Gasket/O-ring Materials	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon E - EPDM T - PTFE TV - FEP Encapsulated Fluorocarbon TS - FEP Encapsulated Silicone	S
Options	I - 316 Stainless Steel Insert APH - Polyester Hardware	APH



IKS1-10C7SAPH

Specifications

Product Specifications

Dimensions

Outside Diameter:	2.68" (6.81cm)
Lengths:	10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)
CPP Surface Area:	6ft ² per 10"
CPW Surface Area:	4.5ft ² per 10"

Performance Specifications

Retention Rating:	0.3, 0.5, 1.0, 3.0, 5.0, 10.0, 15.0, 20.0, 40.0, 70.0, 90.0
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Maximum Forward Differential Pressure

70 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Product Efficiency

Inkjet Select 99% Efficiency

IKS 0.3	0.3µm
IKS 0.5	0.5µm
IKS 1.0	1.0µm
IKS 3	3.0µm
IKS 5	5.0µm
IKS 10	10.0µm
IKS 15	15.0µm
IKS 20	20.0µm
IKS 40	40.0µm
IKS 70	70.0µm
IKS 90	90.0µm

Pleated Polyethersulfone Membrane Cartridge

The Strainrite Capsule is made of Ultrapure polypropylene using FDA compliant materials. The Maxx Cap was designed for Single use and multi use applications. Strainrite's depth filters and our complete line of membranes can be installed in our proprietary capsule design. Our proprietary design utilizes an inlet and outlet vent for confident start up and safe efficient processing. From the innovative SG to our charged modified CN as well as absolute and nominal media like Polypropylene and Micro Glass. Strainrite capsules will also accept our sterile air and vent product line, the Vent Maxx and Vent Rite.

The capsule is available in sizes from 5 inches to 30 inches. Strainrite offers the advantages of a capsule with low internal void space, that reduces valuable product loss by reducing your process costs. All Strainrite capsules are adaptable for use with sanitary fittings that can be autoclaved. Strainrite capsules may be integrated into existing capsule applications.

Features and Benefits

- *Reliable non-fiber releasing materials*
- *No additives or glue*
- *All materials of construction are FDA compliant with CFR Title 21*
- *Thermally bonded construction without the use of adhesives or binders, resulting in lower extractables*
- *High strength design allowing for extended use and multi-autoclave cycles*

Typical Applications

All Ophthalmics
Bio-pharmaceutical and Bio-technology
Food and beverage processing
Ink
Ultrapure chemical
High Value products

Made of 100% Polypropylene, Strainrite's capsule design incorporates thermal bonding. Thermal bonding provides an integral fit that requires no glues, binders, surfactants or adhesives. This design ensures low extractable filtrate when incorporated with our low extractable 100% clean room manufactured cartridges.



Specifications

Materials of Construction

Membrane Media	Polyethersulfone, Polysulfone, Nylon
Pleated Depth Media	Borosilicate Microglass, Polypropylene
Pleat Support Material	Polypropylene, Polyester
End Caps	Polypropylene
Cage/Core	Polypropylene
Capsule Hardware	Polypropylene
Sealing	Thermal Bond
Seals	Buna N, Fluorocarbon, EPDM, Silicone, FEP Encapsulated Fluorocarbon, PTFE

Ordering Information

Example:

Cartridge Series	MC: Maxx Capsule	MC
Capsule Construction	P - Polypro	P
Length	5, 10, 20, 30, 40	-10
Inlet Design	D1 - 1", 1.5" sanitary D2 - 0.5" female NPT D3 - 0.25" hose barb D4 - 0.5" hose barb D5 - Graduated 0.25 - 0.5" hose barb	D1
Outlet Design	O1 - 1", 1.5" sanitary O2 - 0.5" female NPT O3 - 0.25" hose barb O4 - 0.5" hose barb O5 - Graduated 0.25 - 0.5" hose barb	O2
Cartridge Style*	CPP - Continuous Polypleat MPE - Mem-Pleat E PP - Pur-Pleat PPG - Pur-Pleat G GP - Glass Pleat G	CPP
Micron*	0.2, 0.5, 1.0, 5.0, 10.0	0.2
Cartridge Guide	1 - FDA Grade 2 - Pharmaceutical 5 - Water SG - Sterilizing	-2
Cartridge O-ring	S - Silicone (standard O-rings) B - Buna N (standard gaskets) V - Fluorocarbon T - PTFE TV - FEP Encapsulated Fluorocarbon TS - FEP Encapsulated Silicone	S

* Refer to Cartridge product literature for micron availability

Inlet/Outlet Designs



D2/O2- 0.5" Female NPT



D1/O1- Sanitary



D3/O3- 0.25" Hose Barb



D4/O4- 0.5" Hose Barb



D5/O5- Graduated Hose Barb

Product Specifications

Dimensions

Outside Diameter: 3.5" (6.87cm)

Lengths: 5" (12.7cm), 10" (25.4cm), 20" (50.8cm), 30" (76.2cm), 40" (102cm)

Maximum Forward Differential Pressure

5.5 Bar/80 PSI @ 23C/74 F

Maximum Operating Temperature

180°F (82°C) Continuous Duty

Toxicity

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

Sterilization

Autoclave: May be autoclaved 3 times for 60 minutes. Not in line steam sterilizable.

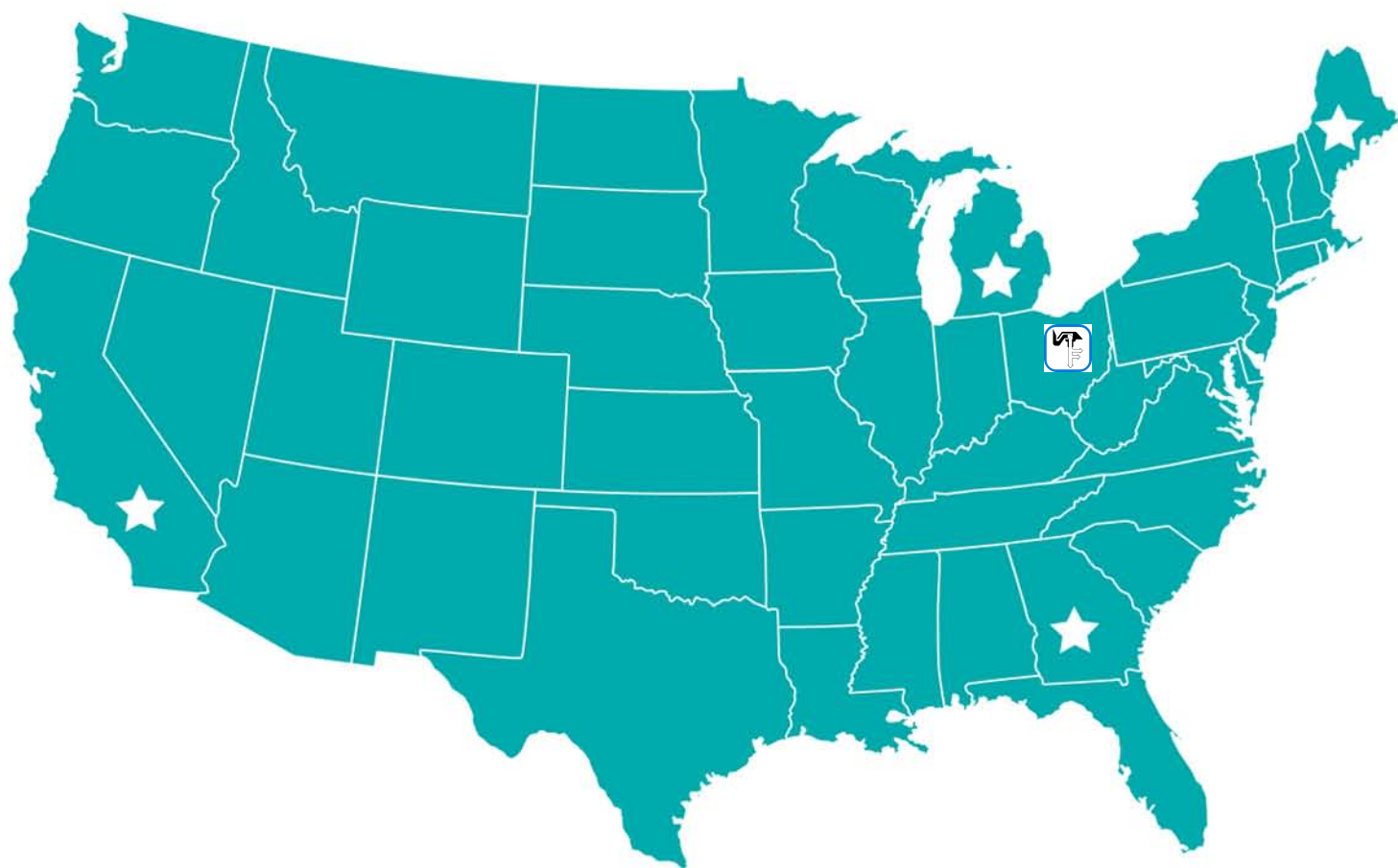
Packaging Economy

5 inch, 10 inch, Individually Boxed -
20 inch, 30 inch 6 case quantity

40 inch Individually Boxed

MCP-10D1O2CPP0.2-2S

Service and Warehouse Locations



Offering superior technical sales and live customer support.



Northeast Filter & Equipment Co.
135 Parker Court
Chardon, OH 44024
PH: 800-333-6332
FX: 440-285-0730
www.nefilter.com