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Clarity

clear solutions

Pleated Depth & Membrane Cartridges



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.





ClarityTM

clear solutions

Pleated Depth
& Membrane
Cartridges

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Mem-PLEAT E & Pur-MAXX E

Pleated Polyethersulfone Membrane

▶ LIQUID CLARIFICATION
▶ GENERAL-USE
WATER FILTRATION

▶ CHEMICAL FILTRATION
▶ DEIONIZED
WATER SYSTEMS

Strainrite's [Pleated Polyethersulfone Membrane Cartridges](#) were 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.

These cartridges meet USP Biological Reactivity Test, in vivo for class VI-121°C plastics. Sterilizable using industry recognized and accepted methods.

The Pur-MAXX E now offers a Special Pleat option, which provides expected surface area improvements of as much as 25%. This optimized pleat geometry option was developed for the filtration of process fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization.



- ▶ **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**
- ▶ **INTEGRITY TESTED**
- ▶ **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**
- ▶ **ALL MATERIALS OF CONSTRUCTION ARE FDA COMPLIANT WITH CFR TITLE 21, PHARMACEUTICAL GRADES ARE BIO-SAFE IN ACCORDANCE WITH USP CLASS VI**
- ▶ **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 PER ELEMENT**
- ▶ **PHARMACEUTICAL GRADE ELEMENTS ARE 100% INTEGRITY TESTED**

SPECIAL PLEAT OPTION:

- ▶ **OPTIMIZED PLEAT GEOMETRY**
- ▶ **EXPECTED SURFACE AREA IMPROVEMENTS OF AS MUCH AS 25%**

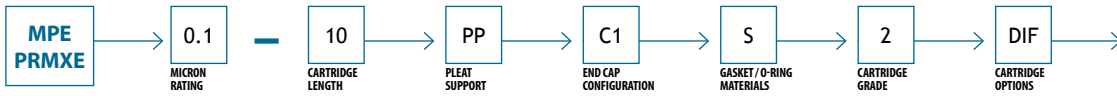
NEED A VESSEL FOR YOUR CARTRIDGES?

For the Mem-Pleat E and Pur-MAXX E, the following vessel types are most commonly used:

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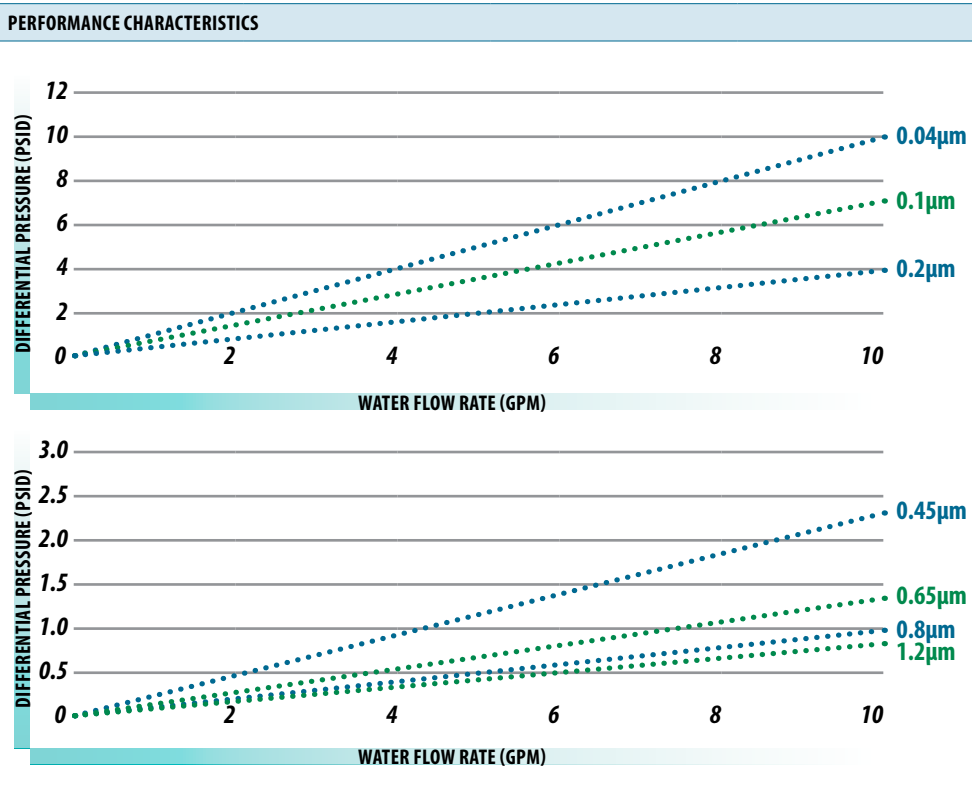
As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



MPE0.1-10PPC1S2DIF

ABSOLUTE RATED RETENTION			
0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1.2			
MAXIMUM DIFFERENTIAL PRESSURE			
Forward: 75 psid (5.1 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		275°F (135°C) Continuous Duty Polyester	
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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Polyethersulfone	Polypropylene Polyester	Polypropylene Polyester	Polypropylene Polyester
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD			
Thermal Bond			
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA	
MPE: 2.55" (6.48cm) PRMXE: 2.7" (6.87cm)		6.8 square feet per 10" equivalent	
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			



ORDER OPTIONS

CARTRIDGE	
MPE PRMXE	Mem-Pleat E (2.55") Pur-MAXX E (2.7")
MICRON RATINGS	
0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1.2	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
PLEAT SUPPORT	
PP PE	Polypropylene Polyester
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET/O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
-	General
1	FDA Grade
2	Pharmaceutical
5	Water
CARTRIDGE OPTIONS	
I DIF APH	316 SS Insert DI Flush All Polyester Hardware
SPECIAL PLEAT OPTION	
SP	Special Pleat (PRMXE only)

Mem-PLEAT S & Pur-MAXX S

Pleated Polysulfone Membrane

- ▶ INK JET INKS
- ▶ DEIONIZED WATER POINT OF USE

- ▶ HIGH PURITY AQUEOUS CHEMICALS
- ▶ DEIONIZED WATER PRE AND POST FILTER

Strainrite's **Pleated Polysulfone Membrane Cartridges** were 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.

These cartridges meet USP Biological Reactivity Test, in vivo for class VI-121°C plastics. Sterilizable using industry recognized and accepted methods.

The Pur-MAXX S now offers a Special Pleat option, which provides expected surface area improvements of as much as 25%. This optimized pleat geometry option was developed for the filtration of process fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization.



- ▶ **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**
- ▶ **MAXIMUM 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**

SPECIAL PLEAT OPTION:

- ▶ **OPTIMIZED PLEAT GEOMETRY**
- ▶ **EXPECTED SURFACE AREA IMPROVEMENTS OF AS MUCH AS 25%**

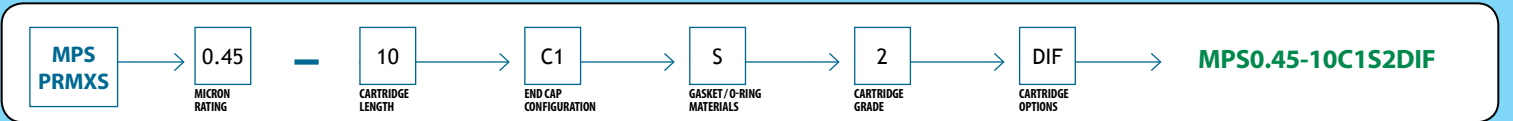
NEED A VESSEL FOR YOUR CARTRIDGES?

For the Mem-Pleat S and Pur-MAXX S, the following vessel types are most commonly used:

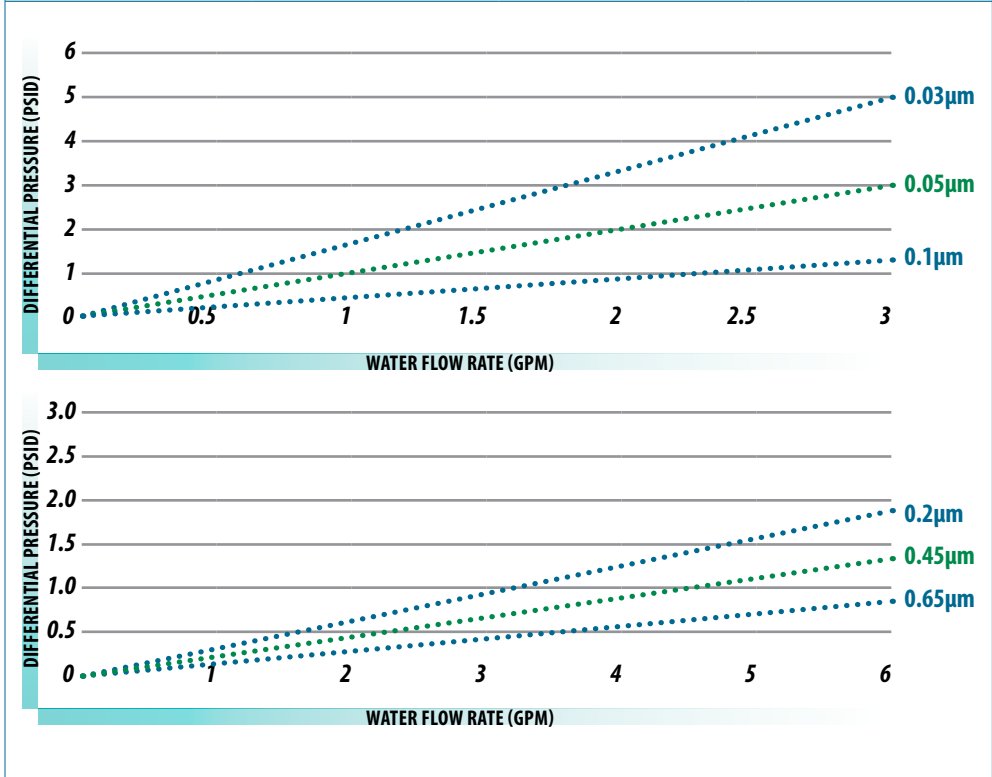
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As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



ABSOLUTE RATED RETENTION			
0.03, 0.05, 0.1, 0.2, 0.45, 0.65			
MAXIMUM DIFFERENTIAL PRESSURE			
Forward:		Reverse:	
75 psid (5.1 bar) @ 75°F (24°C)		50 psid (3.4 bar) @ 75°F (24°C)	
40 psid (2.8 bar) @ 180°F (82°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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Polysulfone	Polypropylene	Polypropylene	Polypropylene
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD			
Thermal Bond			
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA	
MPS: 2.55" (6.48cm) PRMXS: 2.7" (6.87cm)		6.8 square feet per 10" equivalent	
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
PERFORMANCE CHARACTERISTICS			



ORDER OPTIONS

CARTRIDGE	
MPS PRMXS	Mem-Pleat S (2.55") Pur-MAXX S (2.7")
MICRON RATINGS	
0.03, 0.05, 0.1, 0.2, 0.45, 0.65	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET / O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
-	General
1	FDA Grade
5	Water
CARTRIDGE OPTIONS	
I DIF	316 SS Insert DI Flush
SPECIAL PLEAT OPTION	
SP	Special Pleat (PRMXS only)

Mem-PLEAT N & Pur-MAXX N

Pleated Nylon 6,6 Membrane

▶ API CHEMICALS
▶ REAGENT-GRADE
CHEMICALS

▶ FINE CHEMICALS
▶ BIOLOGICAL
FLUIDS

Strainrite's **Pleated Nylon Membrane 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.

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

The Pur-MAXX N now offers a Special Pleat option, which provides expected surface area improvements of as much as 25%. This optimized pleat geometry option was developed for the filtration of process fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization.

**Filter medium is cast on a polyester support.*



- ▶ **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**
- ▶ **LOWER FILTER EXTRACTABLES THAN OTHER HYDROPHILIC MEMBRANES**
- ▶ **HIGH SURFACE AREA, YIELDING LOWER PRESSURE DROPS AND LONGER FILTER LIFE**
- ▶ **NON FIBER-SHEDDING POLYESTER AND POLYPROPYLENE SUPPORT MATERIALS ELIMINATE FIBER MIGRATION**
- ▶ **PHARMACEUTICAL GRADE ELEMENTS ARE 100% INTEGRITY TESTED**
- ▶ **IPA PRE-WETTING NOT REQUIRED**
- ▶ **INTEGRITY TESTABLE**

SPECIAL PLEAT OPTION:

- ▶ **OPTIMIZED PLEAT GEOMETRY**
- ▶ **EXPECTED SURFACE AREA IMPROVEMENTS OF AS MUCH AS 25%**

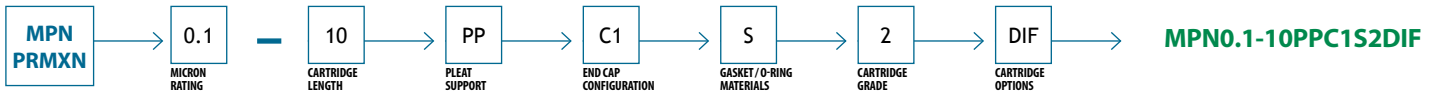
NEED A VESSEL FOR YOUR CARTRIDGES?

For the Mem-Pleat N and Pur-MAXX N, the following vessel types are most commonly used:

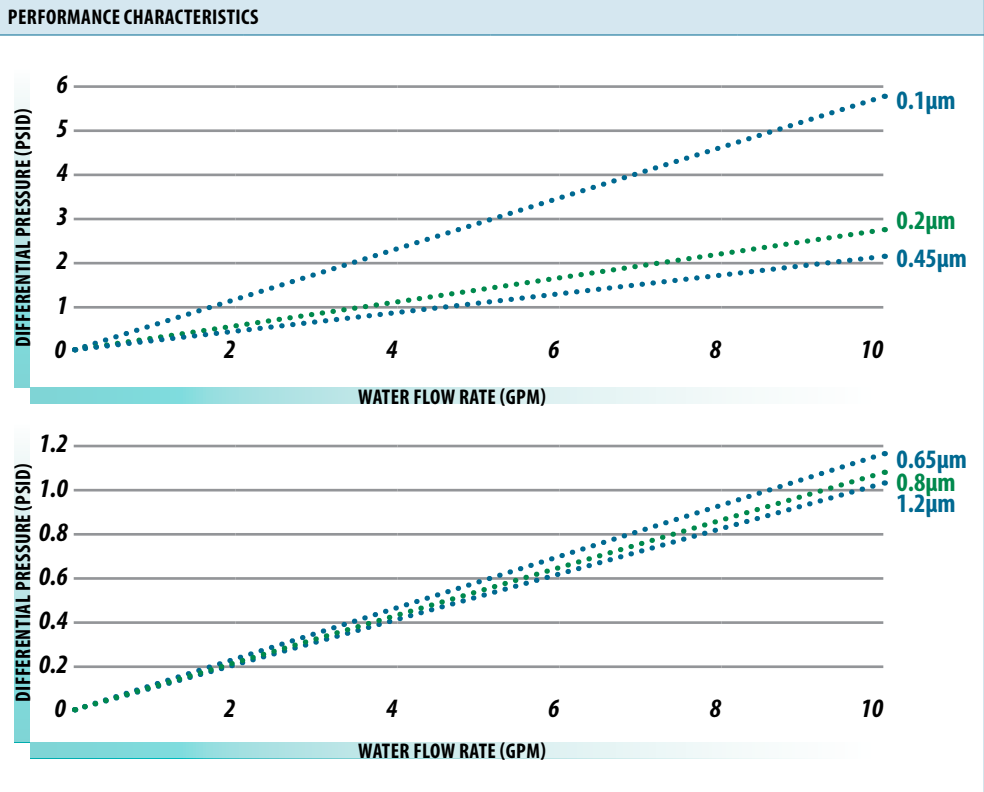
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As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



ABSOLUTE RATED RETENTION			
0.1, 0.2, 0.45, 0.65, 0.8, 1.2			
MAXIMUM DIFFERENTIAL PRESSURE			
Forward: 75 psid (5.1 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		275°F (135°C) Continuous Duty Polyester	
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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Nylon 6,6 cast on Polyester	Polypropylene Polyester	Polypropylene Polyester	Polypropylene Polyester
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD			
Thermal Bond			
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA	
MPN: 2.55" (6.48cm) PRMXN: 2.7" (6.87cm)		6.8 square feet per 10" equivalent	
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			



ORDER OPTIONS

CARTRIDGE	
MPN PRMXN	Mem-Pleat N (2.55") Pur-MAXX N (2.7")
MICRON RATINGS	
0.1, 0.2, 0.45, 0.65, 0.8, 1.2	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
PLEAT SUPPORT	
PP PE	Polypropylene Polyester
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET/O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
-	General
1	FDA Grade
2	Pharmaceutical
5	Water
CARTRIDGE OPTIONS	
I DIF APH	316 SS Insert DI Flush All Polyester Hardware
SPECIAL PLEAT OPTION	
SP	Special Pleat (PRMXN only)

Mem-PLEAT CN & Pur-MAXX CN

Pleated Charged Nylon 6,6 Membrane

- ▶ API CHEMICALS
- ▶ REAGENT-GRADE CHEMICALS
- ▶ ENDOTOXIN REMOVAL
- ▶ FINE CHEMICALS
- ▶ BIOLOGICAL FLUIDS
- ▶ SILICA REMOVAL

Strainrite's **Pleated Charged Nylon Membrane 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.

These cartridges provide absolute particle retention by size exclusion while having the added benefit of removing significantly smaller, negatively charged particles. The charged Nylon 6,6 membrane provides excellent wet-out characteristics and superior flow performance per surface area in an all-polypropylene construction, as compared to other membrane cartridges. These cartridges are perfectly suited for critical applications where superior flow and particle removal efficiency between 0.04 and 1.2 micron is required.

The Pur-MAXX CN now offers a Special Pleat option, which provides expected surface area improvements of as much as 25%. This optimized pleat geometry option was developed for the filtration of process fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization.



- ▶ **MEETS USP BIOLOGICAL TESTS FOR USP CLASS VI – 1210C 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**
- ▶ **PHARMACEUTICAL GRADE ELEMENTS ARE 100% INTEGRITY TESTED**
- ▶ **ABSOLUTE-RATED MEDIA PROVIDES RELIABLE, CONSISTENT AND REPEATABLE FILTRATE QUALITY**
- ▶ **HIGH SURFACE AREA, YIELDING LOWER PRESSURE DROPS AND LONGER FILTER LIFE**
- ▶ **POSITIVE ZETA POTENTIAL FOR REMOVAL OF PARTICLES SMALLER THAN ABSOLUTE RATING OF FILTER**
- ▶ **NON-FIBER SHEDDING POLYESTER AND POLYPROPYLENE SUPPORT MATERIALS ELIMINATES FIBER MIGRATION**
- ▶ **LOWER FILTER EXTRACTABLES THAN OTHER HYDROPHILIC MEMBRANES**
- ▶ **IPA PRE-WETTING NOT REQUIRED**
- ▶ **INTEGRITY TESTABLE**

SPECIAL PLEAT OPTION:

- ▶ **OPTIMIZED PLEAT GEOMETRY**
- ▶ **EXPECTED SURFACE AREA IMPROVEMENTS OF AS MUCH AS 25%**

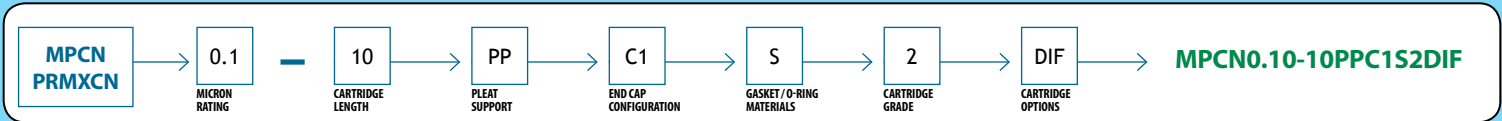
NEED A VESSEL FOR YOUR CARTRIDGES?

For the Mem-Pleat CN and Pur-MAXX CN, the following vessel types are most commonly used:

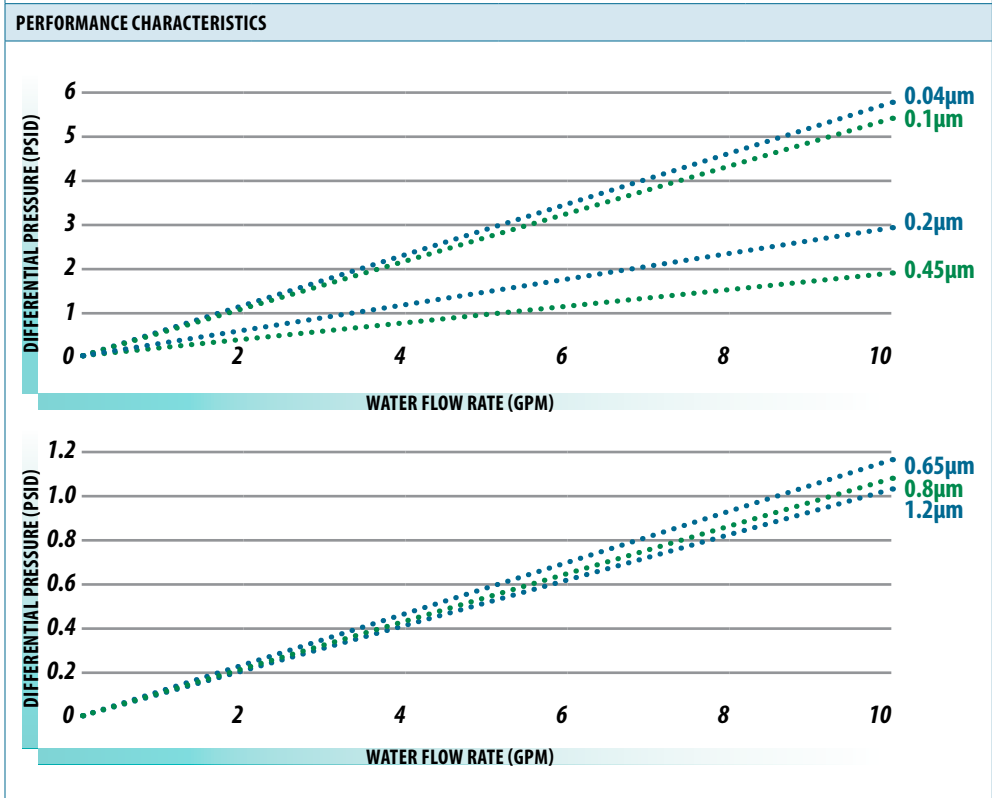
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As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



ABSOLUTE RATED RETENTION			
0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1.2			
MAXIMUM DIFFERENTIAL PRESSURE			
Forward: 75 psid (5.1 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		275°F (135°C) Continuous Duty Polyester	
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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Charged Nylon 6,6 cast on Polyester	Polypropylene Polyester	Polypropylene Polyester	Polypropylene Polyester
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD			
Thermal Bond			
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA	
MPCN: 2.55" (6.48cm) PRMXCN: 2.7" (6.87cm)		6.8 square feet per 10" equivalent	
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			



ORDER OPTIONS

CARTRIDGE	
MPCN PRMXCN	Mem-Pleat CN (2.55") Pur-MAXX CN (2.7")
MICRON RATINGS	
0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1.2	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
PLEAT SUPPORT	
PP PE	Polypropylene Polyester
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET/O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
-	General
1	FDA Grade
2	Pharmaceutical
5	Water
CARTRIDGE OPTIONS	
I DIF APH	316 SS Insert DI Flush All Polyester Hardware
SPECIAL PLEAT OPTION	
SP	Special Pleat (PRMXCN only)

Mem-PLEAT T & Pur-MAXX T

Pleated PTFE Membrane

▶ PHOTORESISTS
▶ ELECTRONIC GRADE
SOLVENTS

▶ PHARMACEUTICAL
SOLVENTS
▶ HOT DEIONIZED WATER

Strainrite's [Pleated PTFE Membrane Cartridges](#) were 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 them as one of the most reliable and economical PTFE membranes in the market.

These cartridges are manufactured and tested in our 3rd party certified clean room 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.

The Pur-MAXX T now offers a Special Pleat option, which provides expected surface area improvements of as much as 25%. This optimized pleat geometry option was developed for the filtration of process fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization.



- ▶ PHARMACEUTICAL GRADE ELEMENTS ARE 100% INTEGRITY TESTED
- ▶ HIGH FLOW RATES
- ▶ LOW EXTRACTABLES
- ▶ THERMALLY BONDED CONSTRUCTION
- ▶ FDA LISTED MATERIALS PER CFR 21
- ▶ MANUFACTURED IN CERTIFIED CLEAN ROOMS

SPECIAL PLEAT OPTION:

- ▶ OPTIMIZED PLEAT GEOMETRY
- ▶ EXPECTED SURFACE AREA IMPROVEMENTS OF AS MUCH AS 25%

NEED A VESSEL FOR YOUR CARTRIDGES?

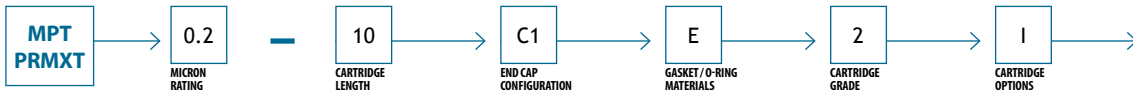
For the Mem-Pleat T and Pur-MAXX T, the following vessel types are most commonly used:

SRCT—PAGE 128

SRC—PAGE 130

As always, discuss your options with your local sales representative to find the best fit for your application.

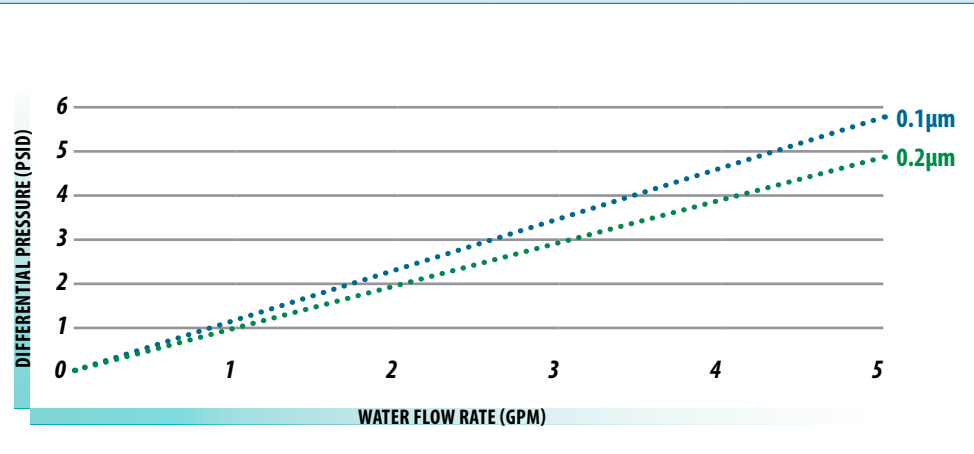
ORDER GUIDE



MPT0.20-10C1E2I

ABSOLUTE RATED RETENTION			
0.1, 0.2			
MAXIMUM DIFFERENTIAL PRESSURE			
Forward: 75 psid (5.1 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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
PTFE	Polypropylene	Polypropylene	Polypropylene
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD			
Thermal Bond			
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA	
MPT: 2.55" (6.48cm) PRMXT: 2.7" (6.87cm)		6.8 square feet per 10" equivalent	
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			

PERFORMANCE CHARACTERISTICS



ORDER OPTIONS

CARTRIDGE	
MPT PRMXT	Mem-Pleat T (2.55") Pur-MAXX T (2.7")
MICRON RATINGS	
0.1, 0.2	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET / O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
- 2	General Pharmaceutical
CARTRIDGE OPTIONS	
I DIF	316 SS Insert DI Flush
SPECIAL PLEAT OPTION	
SP	Special Pleat (PRMXT only)

Mem-PLEAT C & Pur-MAXX C

Pleated Cellulose Acetate Membrane

▶ PROTEIN FILTRATION
▶ BIOLOGICAL FLUID
STERILIZATION

▶ ENZYME FILTRATION
▶ TISSUE CULTURE MEDIA
STERILIZATION

Strainrite's [Pleated Cellulose Acetate Membrane Cartridges](#) were developed for the filtration of fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization. Our cellulose acetate 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.

These filter cartridges use highly asymmetric cellulose acetate supported membrane that is hydrophilic, which ensures excellent flow rates, quick wet out and rinse up characteristics. These cartridges are naturally low binding, which is excellent for applications where maximum recovery of protein is critical.

The Pur-MAXX C now offers a Special Pleat option, which provides expected surface area improvements of as much as 25%. This optimized pleat geometry option was developed for the filtration of process fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization.



- ▶ **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**
- ▶ **100% THERMALLY BONDED CONSTRUCTION**
- ▶ **LOW EXTRACTABLES, WHICH ENSURES FILTRATE WILL BE CLEAN WITH CONSISTENT RESULTS**
- ▶ **HIGH STRENGTH DESIGN ALLOWING FOR EXTENDED USE AND MULTI-AUTOCLEASE CYCLES**
- ▶ **PHARMACEUTICAL GRADE ELEMENTS ARE 100% INTEGRITY TESTED**
- ▶ **LOW PROTEIN BINDING**
- ▶ **INTEGRITY TESTED**

SPECIAL PLEAT OPTION:

- ▶ **OPTIMIZED PLEAT GEOMETRY**
- ▶ **EXPECTED SURFACE AREA IMPROVEMENTS OF AS MUCH AS 25%**

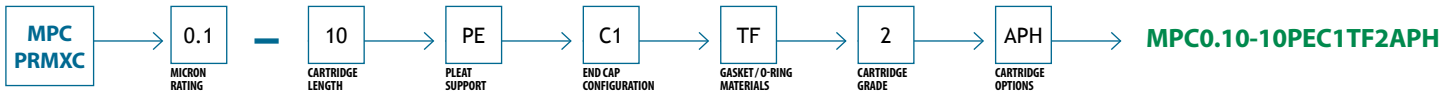
NEED A VESSEL FOR YOUR CARTRIDGES?

For the Mem-Pleat C and Pur-MAXX C, the following vessel types are most commonly used:

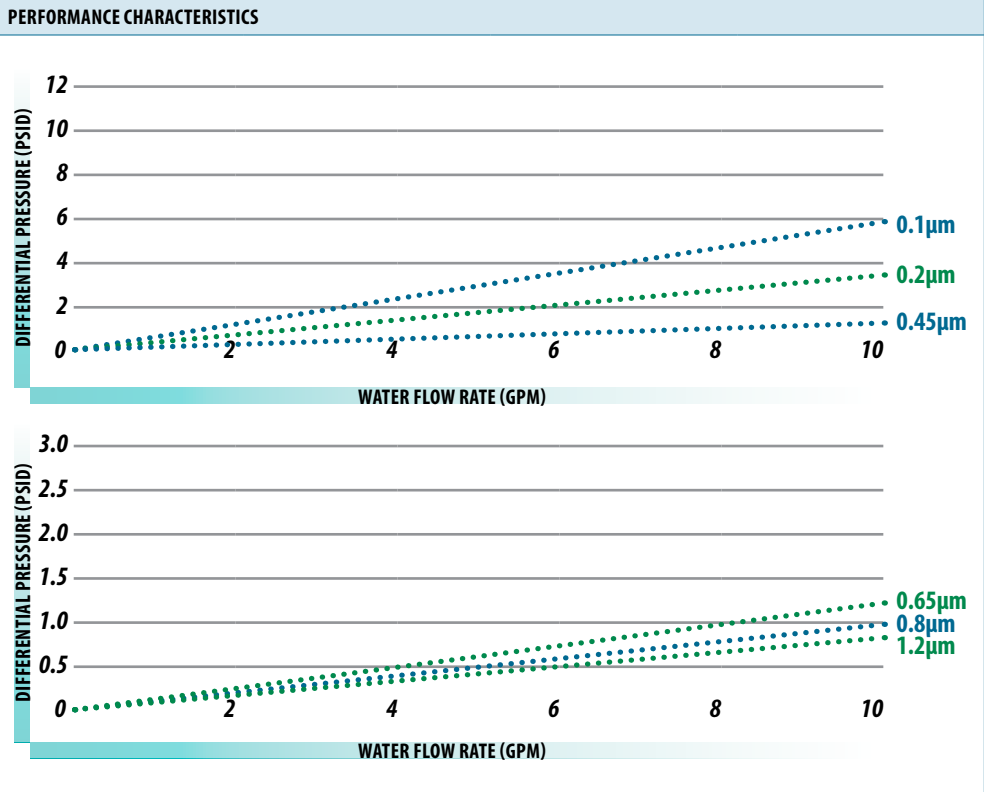
SRCT—PAGE 128 **SRC—PAGE 130**

As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



ABSOLUTE RATED RETENTION			
0.1, 0.2, 0.45, 0.65, 0.8, 1.2			
MAXIMUM DIFFERENTIAL PRESSURE			
Forward: 75 psid (5.1 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		275°F (135°C) Continuous Duty Polyester	
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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Cellulose Acetate	Polypropylene Polyester	Polypropylene Polyester	Polypropylene Polyester
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD			
Thermal Bond			
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA	
MPC: 2.55" (6.48cm) PRMXC: 2.7" (6.87cm)		6.8 square feet per 10" equivalent	
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			



ORDER OPTIONS

CARTRIDGE	
MPE PRMXE	Mem-Pleat E (2.55") Pur-MAXX E (2.7")
MICRON RATINGS	
0.1, 0.2, 0.45, 0.65, 0.8, 1.2	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
PLEAT SUPPORT	
PP PE	Polypropylene Polyester
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET / O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
-	General
1	FDA Grade
2	Pharmaceutical
CARTRIDGE OPTIONS	
I DIF APH	316 SS Insert DI Flush All Polyester Hardware
SPECIAL PLEAT OPTION	
SP	Special Pleat (PRMXC only)

Duo-PLEAT & Duo-MAXX

Dual Pleated Cartridges

- ▶ BIOPHARMACEUTICAL
- ▶ VISCOUS FLUIDS
- ▶ PRE-FINAL
ULTRA PURE WATER

- ▶ BIOBURDEN REDUCTION
- ▶ VISCOUS POLYMERS
- ▶ PRE-FINAL
HIGH PURITY CHEMICALS

Designed as a “Pre-Final” filter, Strainrite’s [Depth Over Membrane Cartridges](#) were created to protect final filters saving money and extending the life of your final filters. These filters incorporate a synchronized media design. This design utilizes a prefiltration layer up-stream over a final membrane layer in the same cartridge. These filters are a pre-filter and a final filter in one.

These filters are available in multiple micron ranges and combinations to meet the requirements of your process. They are 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.



- ▶ **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 ADHESIVES OR BINDERS, RESULTING IN LOWER EXTRACTABLES**
- ▶ **HIGH STRENGTH DESIGN ALLOWING FOR EXTENDED USE AND MULTI-AUTOClave CYCLES**

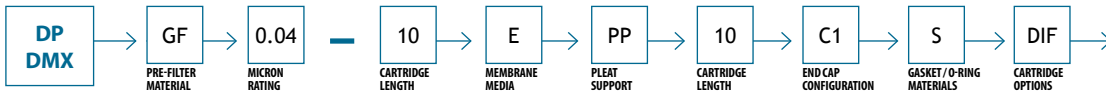
NEED A VESSEL FOR YOUR CARTRIDGES?

For the Duo-Pleat and Duo-MAXX, the following vessel types are most commonly used:

SRCT—PAGE 128 **SRC—PAGE 130**

As always, discuss your options with your local sales representative to find the best fit for your application.

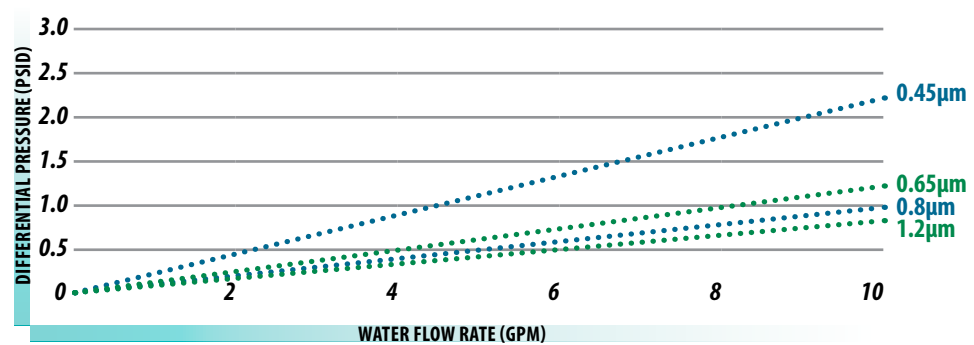
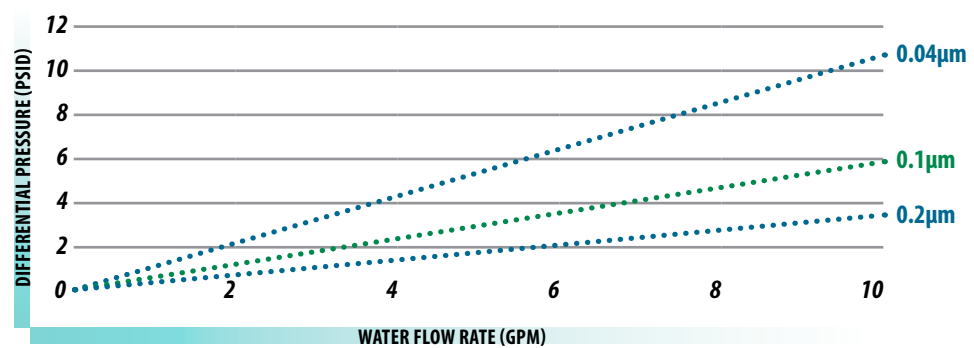
ORDER GUIDE



DPGF0.04-10EPP10C1SDIF

ABSOLUTE RATED RETENTION					
Polyethersulfone: 0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1.2 Polysulfone: 0.2, 0.45, 0.65 Nylon: 0.1, 0.2, 0.45, 0.65, 0.8, 1.2					
MAXIMUM DIFFERENTIAL PRESSURE					
Forward: 75 psid (5.1 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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton					
PRE-FILTER MEDIA	FILTER MEDIA	PLEAT SUPPORT MATERIAL	END CAPS	CAGE/CORE	CONSTRUCTION METHOD
Borosilicate Microglass Polypro. Microfiber	Polyethersulfone Nylon Polysulfone	Polypropylene Polyester	Polypropylene Polyester	Polypropylene Polyester	Thermal Bond
SEALS					
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard					
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA			
DP: 2.55" (6.48cm) DMX: 2.7" (6.87cm)		Polypropylene Microfiber: 6 square feet per 10" equivalent		Borosilicate Microglass: 5 square feet per 10" equivalent	
LENGTHS					
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)					

PERFORMANCE CHARACTERISTICS - POLYETHERSULFONE MEMBRANE ONLY



ORDER OPTIONS

CARTRIDGE	
DP DMX	Duo-Pleat (2.55") Duo-MAXX (2.7")
PRE-FILTER MATERIAL	
GF MF	Borosilicate Microglass Polypropylene Microfiber
MICRON RATINGS	
E: 0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1.2 N: 0.1, 0.2, 0.45, 0.65, 0.8, 1.2 S: 0.2, 0.45, 0.65	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
MEMBRANE	
E N S	Polyethersulfone Nylon Polysulfone
PLEAT SUPPORT	
PP PE	Polypropylene Polyester
END CAP CONFIGURATIONS	
C1 C2 C3 C4 C5 C6 C7 C8	Double Open Ends 213/Recessed Cup Flat/222 Single Open End/Flat Recessed Cup/222 Flat/226 Fin/226 Fin/222
GASKET/O-RING MATERIAL	
S B V E TF TH TV TS	Silicone Buna N Fluorocarbon EPDM PTFE Foam PTFE Hard Encapsulated Fluorocarbon Encapsulated Silicone
CARTRIDGE OPTIONS	
I DIF	316 SS Insert DI Flush

Pur-PLEAT & Poly-MAXX

Absolute-Rated Polypropylene Depth

- ▶ RECIRCULATING LIQUIDS
- ▶ DI/RO PREFILTRATION
- ▶ WASTE WATER
- ▶ GENERAL WATER FILTRATION
- ▶ REAGENT GRADE CHEMICALS

Strainrite's [Absolute-Rated Polypropylene Depth Cartridges](#) are designed to optimize throughput while achieving absolute and repeatable effluent quality. Our filter media is constructed on the latest continuous microfiber 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 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.

The Poly-MAXX now offers a Special Pleat option in micron ratings of 1, 1.5, 2.5. This option provides expected surface area improvements of as much as 25%. This optimized pleat geometry option was developed for the filtration of process fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization.



- ▶ **ABSOLUTE-RATED MEDIA PROVIDES RELIABLE, CONSISTENT AND REPEATABLE FILTRATION**
- ▶ **MAXIMIZED PLEAT DESIGN FOR GREATER SURFACE AREA, ENSURING LONGER SERVICE LIFE, FEWER CHANGE OUTS AND REDUCED OPERATING COSTS**
- ▶ **LOW PRESSURE DROPS YIELD HIGHER FLOW RATES AND REDUCED PROCESSING TIME**
- ▶ **100% POLYPROPYLENE CONSTRUCTION OFFERS A WIDE RANGE OF CHEMICAL COMPATIBILITY**
- ▶ **FDA, CFR 21 AND USP CLASS VI COMPLIANT**
- ▶ **THERMALLY BONDED CONSTRUCTION ELIMINATES PARTICLE BYPASS**

SPECIAL PLEAT OPTION:

- ▶ **OPTIMIZED PLEAT GEOMETRY**
- ▶ **EXPECTED SURFACE AREA IMPROVEMENTS OF AS MUCH AS 25%**

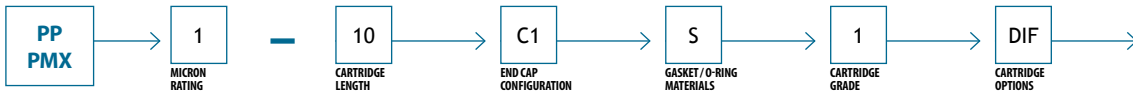
NEED A VESSEL FOR YOUR CARTRIDGES?

For the Pur-Pleat and Poly-MAXX, the following vessel types are most commonly used:

SRCT—PAGE 128 **SRC—PAGE 130**

As always, discuss your options with your local sales representative to find the best fit for your application.

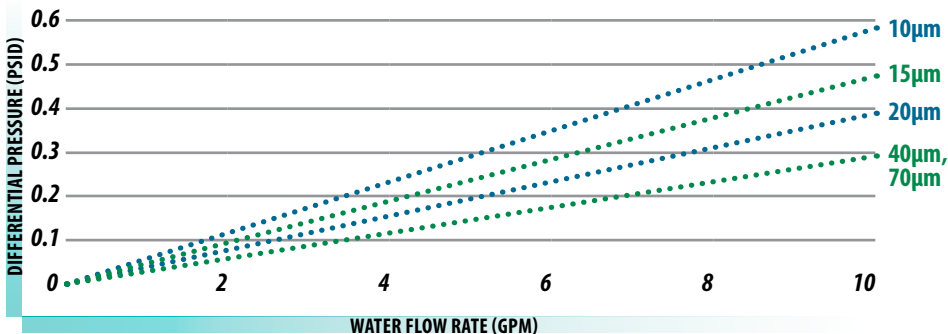
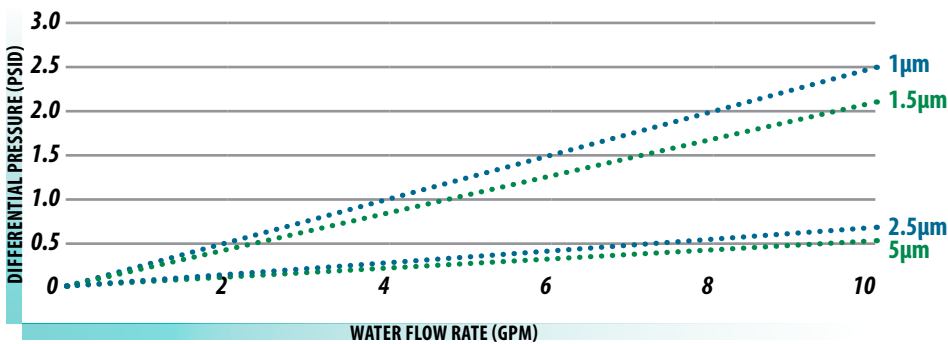
ORDER GUIDE



PP1-10C1S1DIF

ASTM F795-88 RETENTION RATING			
1, 1.5, 2.5, 5, 10, 15, 20, 40, 70			
MAXIMUM DIFFERENTIAL PRESSURE		MAXIMUM OPERATING TEMPERATURE	
Forward: 75 psid (5.1 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)		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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Polypropylene Microfiber	Polypropylene	Polypropylene	Polypropylene
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD			
Thermal Bond			
OUTSIDE DIAMETER			
PP: 2.55" (6.48cm) PMX: 2.7" (6.87cm)			
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
EFFICIENCY			
PP1/PMX1 — 99.98% @ 1µm PP1.5/PMX1.5 — 99.98% @ 1.5µm PP2.5/PMX2.5 — 99.98% @ 2.5µm	PP5/PMX5 — 99.98% @ 5µm PP10/PMX10 — 99.98% @ 10µm PP15/PMX15 — 99.98% @ 15µm	PP20/PMX20 — 99.98% @ 20µm PP40/PMX40 — 99.98% @ 40µm PP70/PMX70 — 99.98% @ 70µm	

PERFORMANCE CHARACTERISTICS



ORDER OPTIONS

CARTRIDGE	
PP PMX	Pur-Pleat (2.55") Poly-MAXX (2.7")
MICRON RATINGS	
1, 1.5, 2.5, 5, 10, 15, 20, 40, 70	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET / O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
-	General
1	FDA Grade
2	Pharmaceutical
CARTRIDGE OPTIONS	
I DIF	316 SS Insert DI Flush
SPECIAL PLEAT OPTION	
SP	Special Pleat (PMX 1, 1.5, 2.5 only)

Pur-PLEAT G & Poly-MAXX G

Nominally Rated Polypropylene Depth

- ▶ WATER FILTRATION
- ▶ LIQUEFIED SUGAR
- ▶ WASTE WATER

- ▶ SOLVENT FILTRATION
- ▶ DI/RO PREFILTRATION
- ▶ WINE CLARIFICATION

Strainrite's **Nominally Rated Polypropylene Depth Cartridges** are designed to reduce overall filtration costs when compared to spunbonded, stringwound, and nominally-rated pleated cartridges. This polypropylene 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.

These filters are 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.

The Poly-MAXX G now offers a Special Pleat option in micron ratings of 0.25, 0.5, 1. This option provides expected surface area improvements of as much as 25%. This optimized pleat geometry option was developed for the filtration of process fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization.



- ▶ **MAXIMIZED PLEAT DESIGN FOR GREATER SURFACE AREA, ENSURING LONGER SERVICE LIFE, FEWER CHANGE OUTS AND REDUCED OPERATING COSTS**
- ▶ **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**

SPECIAL PLEAT OPTION:

- ▶ **OPTIMIZED PLEAT GEOMETRY**
- ▶ **EXPECTED SURFACE AREA IMPROVEMENTS OF AS MUCH AS 25%**

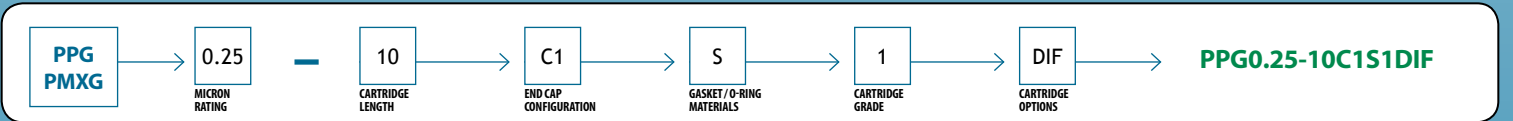
NEED A VESSEL FOR YOUR CARTRIDGES?

For the Pur-Pleat G and Poly-MAXX G, the following vessel types are most commonly used:

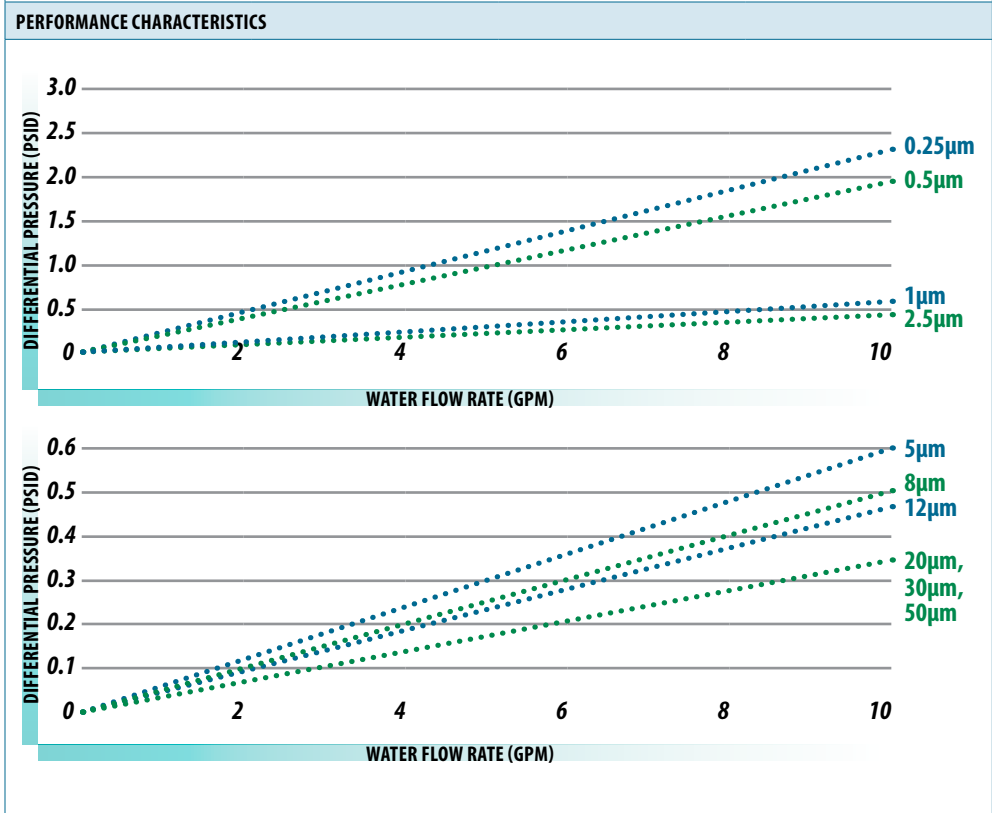
SRC—PAGE 130 **SRVC—PAGE 132**

As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



RETENTION RATING			
0.25, 0.5, 1, 2.5, 5, 8, 12, 20, 30, 50			
MAXIMUM DIFFERENTIAL PRESSURE		MAXIMUM OPERATING TEMPERATURE	
Forward: 75 psid (5.1 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)		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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Polypropylene Microfiber	Polypropylene	Polypropylene	Polypropylene
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD			
Thermal Bond			
OUTSIDE DIAMETER			
PPG: 2.55" (6.48cm) PMXG: 2.7" (6.87cm)			
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
EFFICIENCY			
PPG0.25/PMXG0.25 — BETA5000 @ 0.25µm PPG0.5/PMXG0.5 — BETA5000 @ 0.5µm PPG1/PMX1 — BETA5000 @ 1µm PPG2.5/PMXG2.5 — BETA5000 @ 2.5µm PPG5/PMXG5 — BETA5000 @ 5µm		PPG8.0/PMXG8 — BETA5000 @ 8µm PPG12/PMXG12 — BETA5000 @ 12µm PPG20/PMXG20 — BETA5000 @ 20µm PPG30/PMXG30 — BETA5000 @ 30µm PPG50/PMXG50 — BETA5000 @ 50µm	



ORDER OPTIONS

CARTRIDGE	
PPG PMXG	Pur-Pleat G (2.55") Poly-MAXX G (2.7")
MICRON RATINGS	
0.25, 0.5, 1, 2.5, 5, 8, 12, 20, 30, 50	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET / O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
-	General
1	FDA Grade
2	Pharmaceutical
CARTRIDGE OPTIONS	
I DIF	316 SS Insert DI Flush
SPECIAL PLEAT OPTION	
SP	Special Pleat (PMXG 0.25, 0.5, 1 only)

Pur-PLEAT Select & Poly-MAXX Select

Gradient Density Polypropylene Depth

- ▶ WATER FILTRATION
- ▶ LIQUEFIED SUGAR
- ▶ WASTE WATER

- ▶ SOLVENT FILTRATION
- ▶ DI/RO PREFILTRATION
- ▶ WINE CLARIFICATION
- ▶ BLEACH

Strainrite's [Select \(High Solids Loading\) Polypropylene Depth Cartridges](#) offer 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 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.

Select gradient density depth media is outstanding for removing gels as compared to other pleated polypropylene filters. 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.



- ▶ **ABSOLUTE-RATED MEDIA PROVIDES RELIABLE, CONSISTENT AND REPEATABLE FILTRATION**
- ▶ **LOW PRESSURE DROPS YIELD HIGHER FLOW RATES AND REDUCED PROCESSING TIME**
- ▶ **100% POLYPROPYLENE, FDA COMPLIANT WITH CFR 21**
- ▶ **THERMALLY BONDED CONSTRUCTION ELIMINATES PARTICLE BYPASS WHILE MINIMIZING EXTRACTABLES**

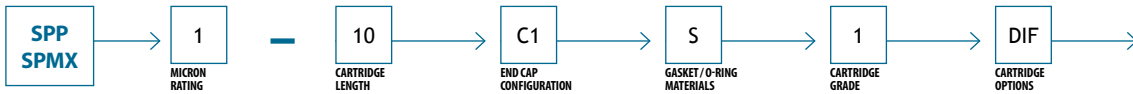
NEED A VESSEL FOR YOUR CARTRIDGES?

For the Pur-Pleat Select and Poly-MAXX Select, the following vessel types are most commonly used:

SRCT—PAGE 128 **SRC—PAGE 130**

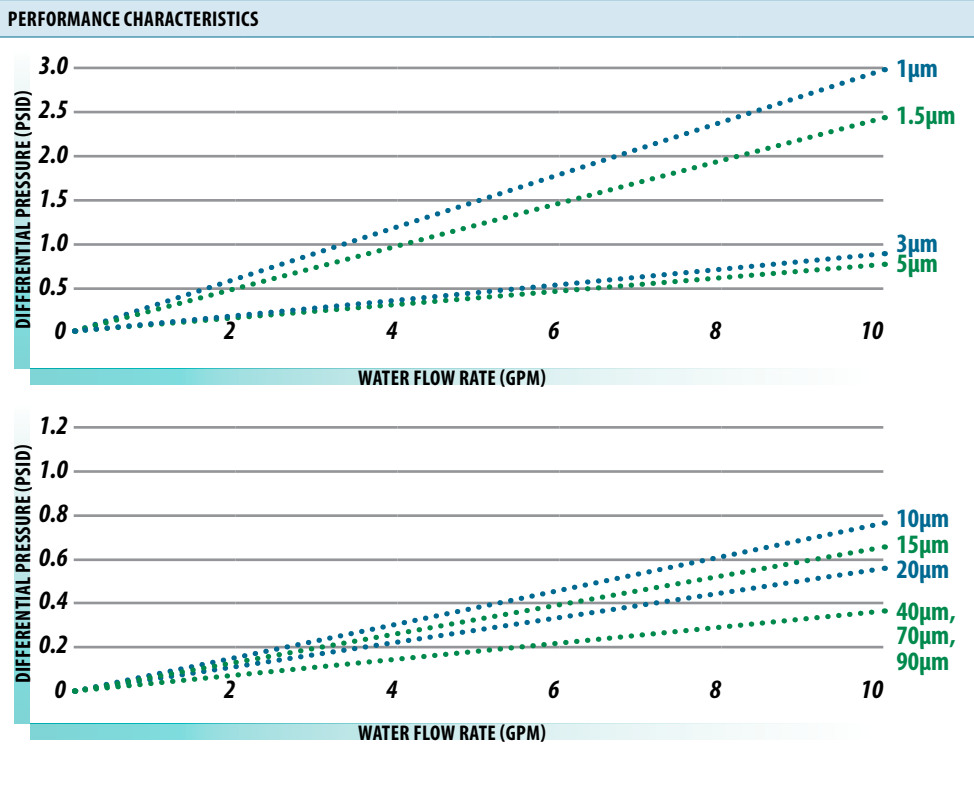
As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



SPP1-10C1S1DIF

ASTM F795-88 RETENTION RATING			
1, 1.5, 3, 5, 10, 15, 20, 40, 70, 90			
MAXIMUM DIFFERENTIAL PRESSURE		MAXIMUM OPERATING TEMPERATURE	
Forward: 75 psid (5.1 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)		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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Polypropylene Microfiber Composite	Polypropylene	Polypropylene	Polypropylene
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD			
Thermal Bond			
OUTSIDE DIAMETER			
SPP: 2.55" (6.48cm) SPMX: 2.7" (6.87cm)			
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
EFFICIENCY			
SPP1/SPMX1 — 99.98% @ 1µm SPP1.5/SPMX1.5 — 99.98% @ 1.5µm SPP3/SPMX3 — 99.98% @ 3µm SPP5/SPMX5 — 99.98% @ 5µm SPP10/SPMX10 — 99.98% @ 10µm		SPP15/SPMX15 — 99.98% @ 15µm SPP20/SPMX20 — 99.98% @ 20µm SPP40/SPMX40 — 99.98% @ 40µm SPP70/SPMX70 — 99.98% @ 70µm SPP90/SPMX90 — 99.98% @ 90µm	



ORDER OPTIONS

CARTRIDGE	
SPP SPMX	Pur-Pleat Select (2.55") Poly-MAXX Select (2.7")
MICRON RATINGS	
1, 1.5, 3, 5, 10, 15, 20, 40, 70, 90	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET / O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
-	General
1	FDA Grade
2	Pharmaceutical
CARTRIDGE OPTIONS	
I DIF	316 SS Insert DI Flush

Glass-PLEAT & Fiber-MAXX

Absolute-Rated Microglass Depth

- ▶ INKS AND COATINGS
- ▶ PLATING SOLUTIONS
- ▶ SOLVENT FILTRATION
- ▶ WASTE WATER

- ▶ CHEMICAL PROCESSING
- ▶ PHOTOGRAPHIC FILMS
- ▶ OIL AND GAS PRODUCTION

Strainrite's **Absolute-Rated Microglass Cartridges** utilize a high surface area and high void volume media, incorporating microglass fibers in a uniform matrix that optimizes element flow rate and service life unattainable by other microfiber technologies. This revolutionary microfiber matrix optimizes pore size geometry required to offer absolute-rated filtration performance. Strainrite's non-calendared microglass cartridges exhibit significantly reduced resistance to flow when compared to similarly rated microfiber technologies. These 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 these microglass depth cartridges with an increased range of applications where chemical compatibility is critical.

The Fiber-MAXX now offers a Special Pleat option which provides expected surface area improvements of as much as 45% in General and Pharmaceutical grades. This optimized pleat geometry option was developed for the filtration of process fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization.



- ▶ **ABSOLUTE-RATED MEDIA**
- ▶ **NON-FIBER RELEASING MATERIALS WITH MINIMAL EXTRACTABLES PROVIDE HIGH PURITY FILTRATE**
- ▶ **LOW PRESSURE DROPS YIELD HIGHER FLOW RATES AND REDUCED PROCESSING TIME**
- ▶ **MAXIMIZED PLEAT DESIGN COUPLED WITH NON-CALENDARED MICROGLASS MATRIX OFFERS GREATER SURFACE AREA, ENSURING LONGER SERVICE LIFE, LESS DOWNTIME AND REDUCED COSTS**
- ▶ **INDUSTRIAL GRADE USES AN EPOXY BINDER, FDA GRADE USES AN ACRYLIC BINDER**

SPECIAL PLEAT OPTION:

- ▶ **OPTIMIZED PLEAT GEOMETRY**
- ▶ **EXPECTED SURFACE AREA IMPROVEMENTS OF AS MUCH AS 25%**

NEED A VESSEL FOR YOUR CARTRIDGES?

For the Glass-Pleat and Fiber-MAXX, the following vessel types are most commonly used:

SRCT—PAGE 128 **SRC—PAGE 130**

As always, discuss your options with your local sales representative to find the best fit for your application.

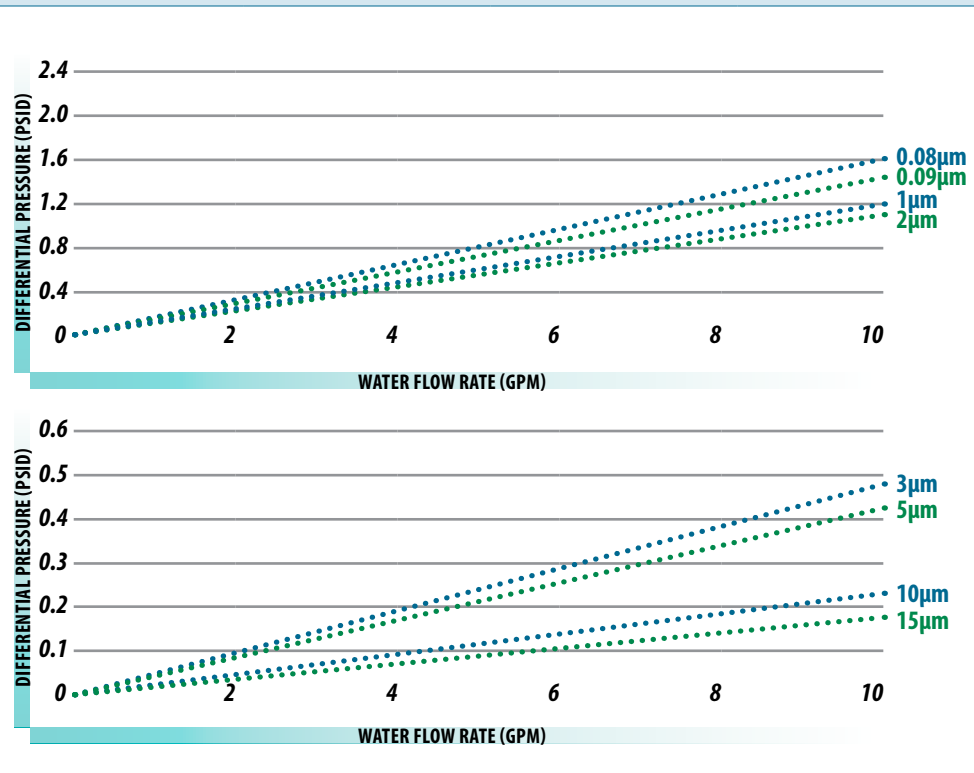
ORDER GUIDE



GP0.8-10PPC3B1APH

ASTM F795-88 RETENTION RATING			
0.8, 0.9, 1, 2, 3, 5, 10, 15			
MAXIMUM DIFFERENTIAL PRESSURE			
Forward: 75 psid (5.1 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)			
MAXIMUM OPERATING TEMPERATURE			
180°F (82°C) Continuous Duty Polypropylene		275°F (135°C) Continuous Duty Polyester	
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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Borosilicate Microglass	Polypropylene Polyester	Polypropylene Polyester	Polypropylene Polyester
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD		OUTSIDE DIAMETER	
Thermal Bond		GP: 2.55" (6.48cm) FMX: 2.7" (6.87cm)	
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
EFFICIENCY			
GP0.8/FMX0.8 — 99.98% @ 0.8µm 90.00% @ 0.25µm GP0.9/FMX0.9 — 99.98% @ 0.9µm 90.00% @ 0.45µm GP1/FMX1 — 99.98% @ 1µm 90.00% @ 0.65µm GP2/FMX2 — 99.98% @ 2µm 90.00% @ 1µm		GP3/FMX3 — 99.98% @ 3µm 90.00% @ 1.5µm GP5/FMX5 — 99.98% @ 5µm 90.00% @ 2.5µm GP10/FMX10 — 99.98% @ 10µm 90.00% @ 5µm GP15/FMX15 — 99.98% @ 15µm 90.00% @ 10µm	

PERFORMANCE CHARACTERISTICS



ORDER OPTIONS

CARTRIDGE	
GP FMX	Glass-Pleat (2.55") Fiber-MAXX (2.7")
MICRON RATINGS	
0.8*, 0.9, 1*, 2, 3*, 5*, 10*, 15	
<small>*Available in FDA grade</small>	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
PLEAT SUPPORT	
PP PE	Polypropylene Polyester
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET / O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
-	General
1	FDA Grade
2	Pharmaceutical
CARTRIDGE OPTIONS	
I DIF APH	316 SS Insert DI Flush All Polyester Hardware
SPECIAL PLEAT OPTION	
SP	Special Pleat (FMX only) Not available in FDA grade

Glass-PLEAT G & Fiber-MAXX G

Nominally Rated Microglass Depth

- ▶ INKS AND COATINGS
- ▶ PLATING SOLUTIONS
- ▶ SOLVENT FILTRATION
- ▶ WASTE WATER

- ▶ CHEMICAL PROCESSING
- ▶ PHOTOGRAPHIC FILMS
- ▶ OIL AND GAS PRODUCTION

Strainrite's [Nominally Rated Microglass Depth Filter Cartridges](#) utilize a high surface area and high void volume media, incorporating microglass fibers in a uniform matrix that optimizes element flow rate and service life unattainable by other traditional microfiber technologies. This revolutionary microfiber matrix optimizes pore size geometry required to offer beta rated filtration performance.

Strainrite's non-calendared microglass cartridges exhibit significantly reduced resistance to flow when compared to similarly rated microfiber technologies. These 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 an increased range of applications where chemical compatibility is critical.

The Fiber-MAXX G now offers a Special Pleat option which provides expected surface area improvements of as much as 45% in General and Pharmaceutical grades. This optimized pleat geometry option was developed for the filtration of process fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization.



- ▶ **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**
- ▶ **MAXIMIZED PLEAT DESIGN COUPLED WITH NON-CALENDARED MICRO-GLASS MATRIX OFFERS GREATER SURFACE AREA, ENSURING LONGER SERVICE LIFE, LESS DOWNTIME AND REDUCED COSTS**
- ▶ **INDUSTRIAL GRADE UTILIZES AN EPOXY BINDER, FDA GRADE UTILIZES AN ACRYLIC BINDER**
- ▶ **THERMALLY BONDED CONSTRUCTION ELIMINATES PARTICLE BYPASS**

SPECIAL PLEAT OPTION:

- ▶ **OPTIMIZED PLEAT GEOMETRY**
- ▶ **EXPECTED SURFACE AREA IMPROVEMENTS OF AS MUCH AS 45% IN GENERAL AND PHARMACEUTICAL GRADES**

NEED A VESSEL FOR YOUR CARTRIDGES?

For the Glass-Pleat G and Fiber-MAXX G, the following vessel types are most commonly used:

SRC—PAGE 130 **SRVC—PAGE 132**

As always, discuss your options with your local sales representative to find the best fit for your application.

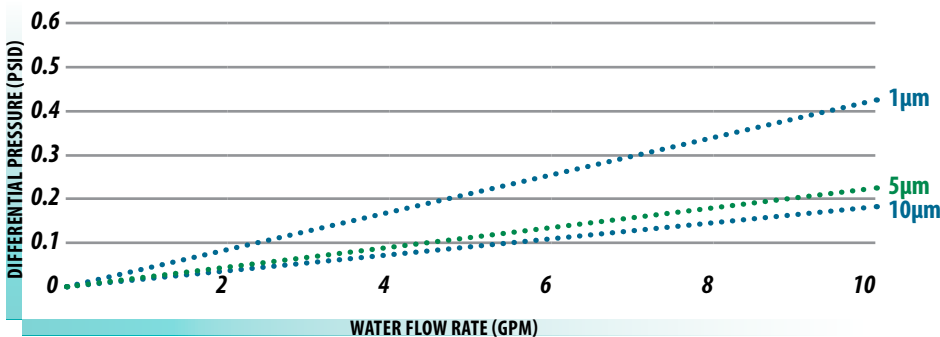
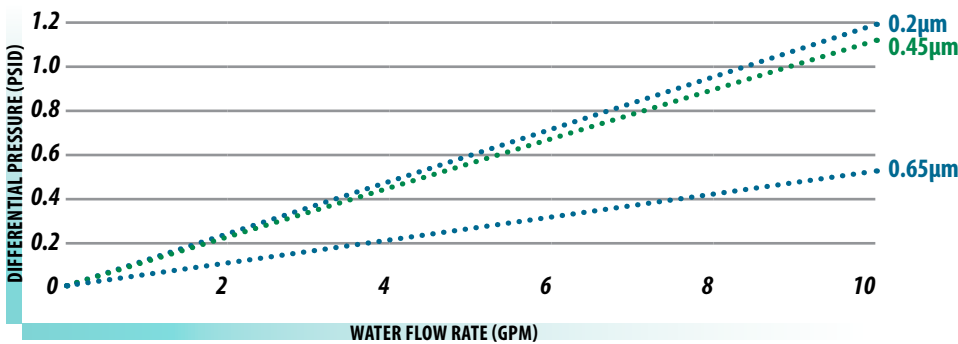
ORDER GUIDE



GPG0.2-10PPC3S1DIF

RETENTION RATING			
0.2, 0.45, 0.65, 1, 5, 10			
MAXIMUM DIFFERENTIAL PRESSURE			
Forward: 75 psid (5.1 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)			
MAXIMUM OPERATING TEMPERATURE			
180°F (82°C) Continuous Duty Polypropylene		275°F (135°C) Continuous Duty Polyester	
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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Borosilicate Microglass	Polypropylene Polyester	Polypropylene Polyester	Polypropylene Polyester
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD		OUTSIDE DIAMETER	
Thermal Bond		GPG: 2.55" (6.48cm) FMXG: 2.7" (6.87cm)	
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
EFFICIENCY			
GPG0.2/FMXG0.2 — BETA5000 @ 0.2µm GPG0.45/FMXG0.45 — BETA5000 @ 0.45µm GPG0.65/FMXG0.65 — BETA5000 @ 0.65µm		GPG1/FMXG1 — BETA5000 @ 1µm GPG5/FMXG5 — BETA5000 @ 5µm GPG10/FMXG10 — BETA5000 @ 10µm	

PERFORMANCE CHARACTERISTICS



ORDER OPTIONS

CARTRIDGE	
GPG FMXG	Glass-Pleat (2.55") Fiber-MAXX (2.7")
MICRON RATINGS	
0.2, 0.45, 0.65, 1, 5, 10	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
PLEAT SUPPORT	
PP PE	Polypropylene Polyester
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET/O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
-	General
1	FDA Grade
2	Pharmaceutical
CARTRIDGE OPTIONS	
I DIF APH	316 SS Insert DI Flush All Polyester Hardware
SPECIAL PLEAT OPTION	
SP	Special Pleat (FMXG only) Not available in FDA grade

CPP - Continuous Pleat-Rite

Continuous Pleat Polypropylene Depth

- ▶ GENERAL CHEMICAL
- ▶ LIQUEFIED SUGAR
- ▶ WASTE WATER
- ▶ BLEACH

- ▶ SOLVENT FILTRATION
- ▶ DI/RO PREFILTRATION
- ▶ GENERAL WATER FILTRATION

Strainrite's [Continuous Pleat All-Polypropylene Filter Cartridges](#) optimize throughput while achieving consistent and repeatable effluent quality.

Our filter media is constructed on the latest continuous microfiber 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.

These 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.



- ▶ **CPP ELEMENTS HAVE BETWEEN 4-6 FT² OF SURFACE AREA PER 10" EQUIVALENT**
- ▶ **WATER GRADE ELEMENTS HAVE BETWEEN 3-4.5 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 ENSURES A CLEANER FILTRATE**

NEED A VESSEL FOR YOUR CARTRIDGES?

For the CPP, the following vessel types are most commonly used:

SRC—PAGE 130 **SRVC—PAGE 132**

As always, discuss your options with your local sales representative to find the best fit for your application.

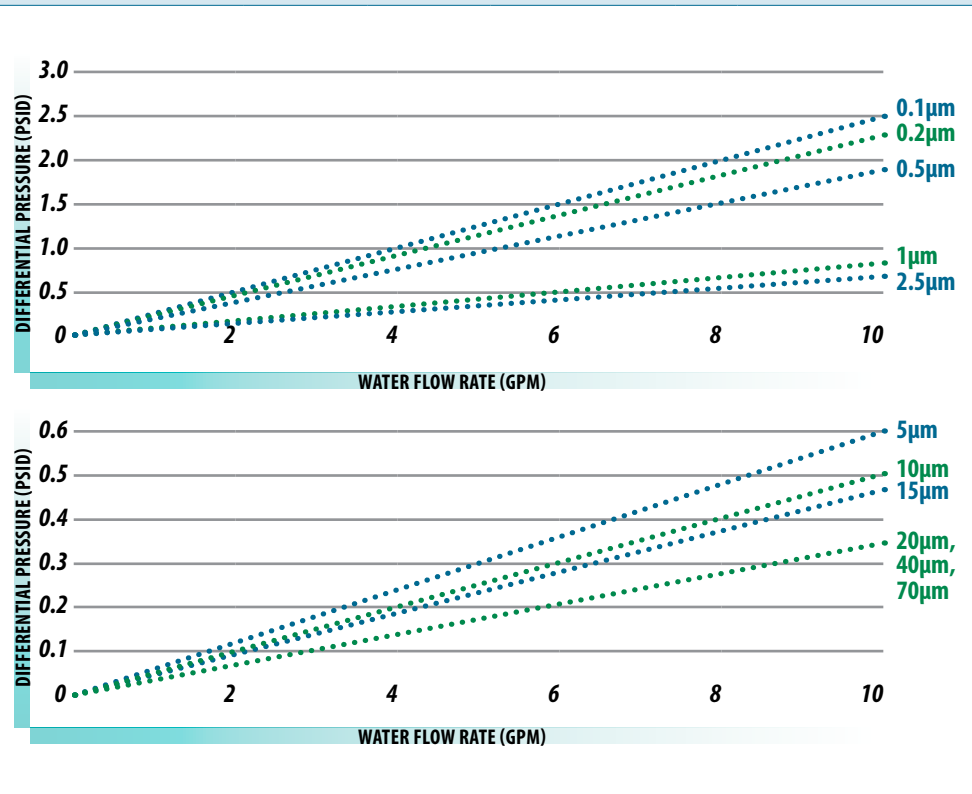
ORDER GUIDE



CPP10-20C4V5MC

RETENTION RATING			
0.1, 0.2, 0.5, 1, 2.5, 5, 10, 15, 20, 40, 70			
MAXIMUM DIFFERENTIAL PRESSURE		MAXIMUM OPERATING TEMPERATURE	
Forward: 75 psid (5.1 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)		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			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Polypropylene Microfiber	Polypropylene	Polypropylene	Polypropylene
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD			
Thermal Bond			
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA PER 10"	
EXTRUDED CAGE: 2.55" (6.48cm) MOLDED CAGE: 2.68" (6.81cm)		GENERAL GRADE: 4-6 SQUARE FEET WATER GRADE: 3-4.5 SQUARE FEET	
LENGTHS			
10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
EFFICIENCY			
CPP0.1 — BETA100 @ 0.1µm CPP0.2 — BETA100 @ 0.2µm CPP0.5 — BETA100 @ 0.5µm CPP1 — BETA100 @ 1µm	CPP2.5 — BETA100 @ 2.5µm CPP5 — BETA100 @ 5µm CPP10 — BETA100 @ 10µm	CPP15 — BETA100 @ 15µm CPP20 — BETA100 @ 20µm CPP40 — BETA100 @ 40µm CPP70 — BETA100 @ 70µm	

PERFORMANCE CHARACTERISTICS



ORDER OPTIONS

CARTRIDGE	
CPP	Continuous Pleat-Rite
MICRON RATINGS	
0.1, 0.2, 0.5, 1, 2.5, 5, 10, 15, 20, 40, 70	
CARTRIDGE LENGTH	
10, 20, 30, 40	
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET / O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
-	General Water Grade
5	
CARTRIDGE OPTIONS	
I	316 SS Insert
MC	Molded Cage

HSLP

Continuous Pleat High-Solids-Loading Polypropylene Depth

- ▶ COSMETICS
- ▶ HIGH PURITY WATER
- ▶ PHOTOCHEMICAL
- ▶ PHARMACEUTICAL

- ▶ FOOD AND BEVERAGE
- ▶ ELECTROPLATING
- ▶ DI/RO PREFILTRATION
- ▶ FERMENTATION PROCESSES

Strainrite's [Continuous Pleat High-Solids-Loading Polypropylene \(HSLP\) Depth Filter Cartridges](#) is 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.

- ▶ **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**



NEED A VESSEL FOR YOUR CARTRIDGES?

For the HSLP, the following vessel types are most commonly used:

SRC—PAGE 130 **SRVC—PAGE 132**

As always, discuss your options with your local sales representative to find the best fit for your application.

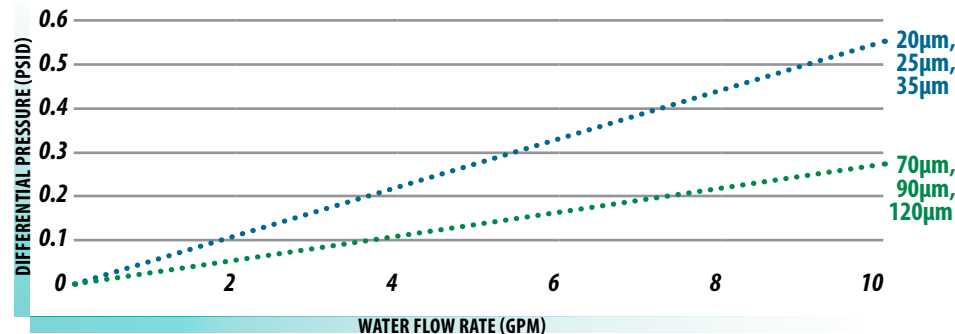
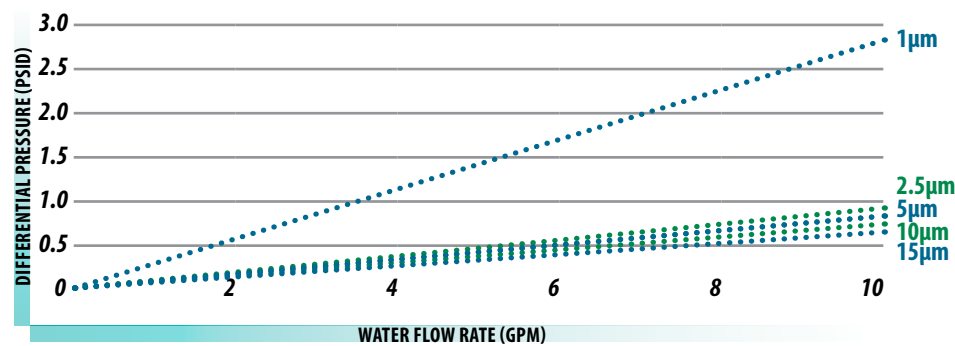
ORDER GUIDE



HSLP10-10C1B1I

RETENTION RATING			
1, 2.5, 5, 10, 15, 20, 25, 35, 70, 90, 120			
MAXIMUM DIFFERENTIAL PRESSURE		MAXIMUM OPERATING TEMPERATURE	
Forward: 75 psid (5.1 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)		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			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Polypropylene Microfiber Composite	Polypropylene	Polypropylene	Polypropylene
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD			
Thermal Bond			
OUTSIDE DIAMETER			
EXTRUDED CAGE: 2.55" (6.48cm) MOLDED CAGE: 2.68" (6.81cm)			
LENGTHS			
10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
EFFICIENCY			
HSLP1 — 99.98% @ 1µm HSLP2.5 — 99.98% @ 2.5µm HSLP5 — 99.98% @ 5µm HSLP10 — 99.98% @ 10µm	HSLP15 — 99.98% @ 15µm HSLP20 — 99.98% @ 20µm HSLP25 — 99.98% @ 25µm	HSLP35 — 99.98% @ 35µm HSLP70 — 99.98% @ 70µm HSLP90 — 99.98% @ 90µm HSLP120 — 99.98% @ 120µm	

PERFORMANCE CHARACTERISTICS



ORDER OPTIONS

CARTRIDGE	
HSLP	
MICRON RATINGS	
1, 2.5, 5, 10, 15, 20, 25, 35, 70, 90, 120	
CARTRIDGE LENGTH	
10, 20, 30, 40	
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET / O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
-	General
1	FDA Grade
CARTRIDGE OPTIONS	
I	316 SS Insert
MC	Molded Cage

CFP - Continuous Fiber Pleat

Continuous Pleat Microglass Depth

- ▶ GENERAL CHEMICAL
- ▶ PLATING SOLUTIONS
- ▶ WASTE WATER

- ▶ SOLVENT FILTRATION
- ▶ DI/RO PREFILTRATION
- ▶ GENERAL WATER FILTRATION

Strainrite's [Continuous Pleat Microglass 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 microfiber 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 microfiber technologies.

These products are available in industrial grades that utilize epoxy binders or in FDA compliant grades, which utilize acrylic binders, and are perfect for a wide range of applications where chemical compatibility is critical.



- ▶ **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**

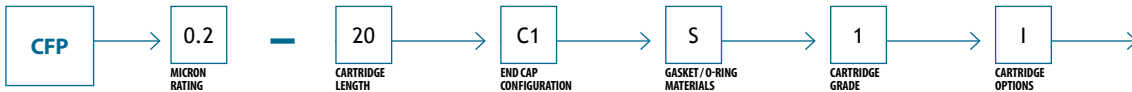
NEED A VESSEL FOR YOUR CARTRIDGES?

For the CFP, the following vessel types are most commonly used:

SRC—PAGE 130 **SRVC—PAGE 132**

As always, discuss your options with your local sales representative to find the best fit for your application.

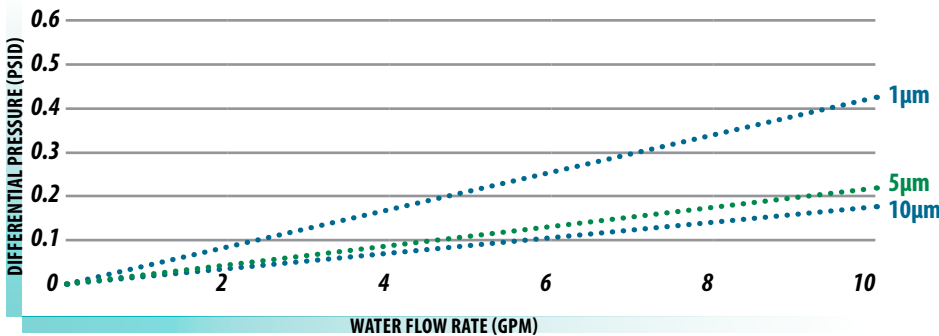
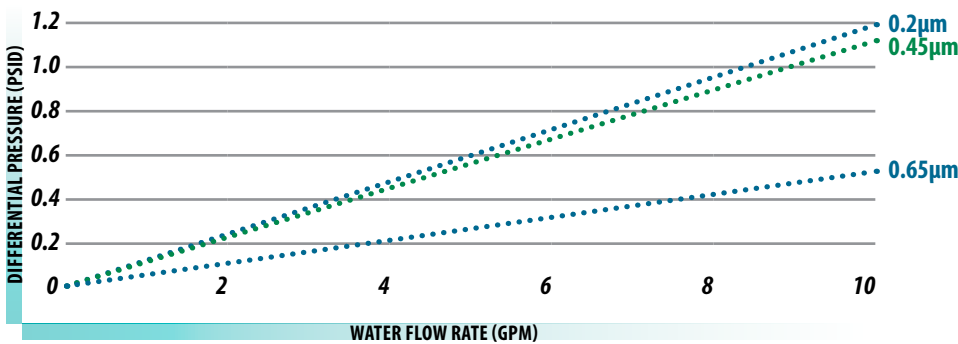
ORDER GUIDE



CFP0.2-20C1S1

RETENTION RATING			
0.2, 0.45, 0.65, 1, 5, 10			
MAXIMUM DIFFERENTIAL PRESSURE		MAXIMUM OPERATING TEMPERATURE	
Forward: 75 psid (5.1 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)		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			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Borosilicate Microglass	Polypropylene	Polyester	Polypropylene
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD			
Thermal Bond			
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA	
EXTRUDED CAGE: 2.55" (6.48cm) MOLDED CAGE: 2.68" (6.81cm)		4 SQUARE FEET PER 10"	
LENGTHS			
10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
EFFICIENCY			
CFP0.2 — BETA1000 @ 0.8µm BETA10 @ 0.25µm CFP0.45 — BETA1000 @ 0.9µm BETA10 @ 0.45µm CFP0.65 — BETA1000 @ 1µm BETA10 @ 0.65µm		CFP1 — BETA1000 @ 2µm BETA10 @ 1µm CFP5 — BETA1000 @ 10µm BETA10 @ 5µm CFP10 — BETA1000 @ 15µm BETA10 @ 10µm	

PERFORMANCE CHARACTERISTICS



ORDER OPTIONS

CARTRIDGE	
CFP	Continuous Fiber Pleat
MICRON RATINGS	
0.2, 0.45, 0.65, 1, 5, 10	
CARTRIDGE LENGTH	
10, 20, 30, 40	
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET / O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
- 1	General FDA Grade
CARTRIDGE OPTIONS	
I MC	316 SS Insert Molded Cage

GPVS - Glass Pleat Value Series

Continuous Microglass Pleat - Value Series

- ▶ GENERAL CHEMICAL
- ▶ PLATING SOLUTIONS
- ▶ WASTE WATER
- ▶ OIL AND GAS PRODUCTION

- ▶ SOLVENT FILTRATION
- ▶ DI/RO PREFILTRATION
- ▶ GENERAL WATER FILTRATION

Strainrite's [Glass Pleat Value Series \(GPVS\) 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 microfiber 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 microfiber technologies. These products are perfect for a wide range of applications where chemical compatibility is critical.



- ▶ **RECOMMENDED WHEN CHEMICAL COMPATIBILITY AND TEMPERATURE ARE CRITICAL FACTORS**
- ▶ **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**
- ▶ **THERMALLY BONDED CONSTRUCTION TO ENSURE A CLEANER FILTRATE**

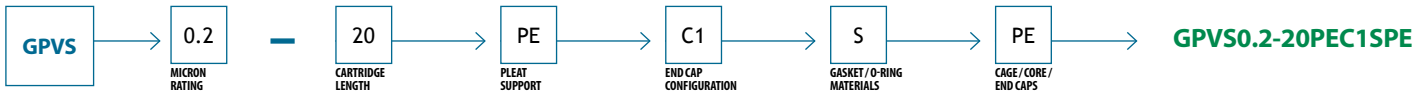
NEED A VESSEL FOR YOUR CARTRIDGES?

For the GPVS, the following vessel types are most commonly used:

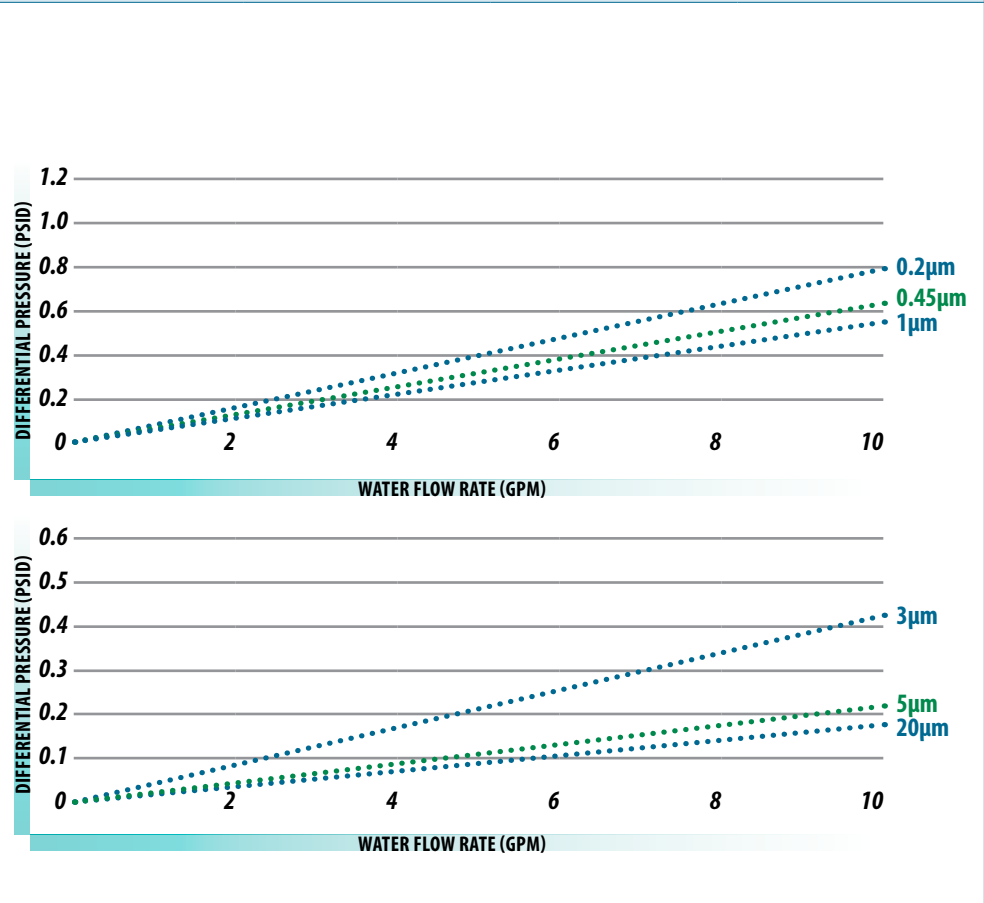
SRC—PAGE 130 **SRVC—PAGE 132**

As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



RETENTION RATING			
0.2, 0.45, 1, 3, 5, 20			
MAXIMUM DIFFERENTIAL PRESSURE		MAXIMUM OPERATING TEMPERATURE	
Forward: 75 psid (5.1 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)		275°F (135°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 - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Borosilicate Microglass	Polypropylene	Polyester	Polypropylene
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD		CAGE DESIGN	
Thermal Bond		Netting	
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA	
2.55" (6.48cm)		4.5 SQUARE FEET PER 10"	
LENGTHS			
10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
EFFICIENCY			
CFP0.2 — BETA1000 @ 0.8µm BETA10 @ 0.25µm CFP0.45 — BETA1000 @ 0.9µm BETA10 @ 0.45µm CFP0.65 — BETA1000 @ 1µm BETA10 @ 0.65µm		CFP1 — BETA1000 @ 2µm BETA10 @ 1µm CFP5 — BETA1000 @ 10µm BETA10 @ 5µm CFP10 — BETA1000 @ 15µm BETA10 @ 10µm	
PERFORMANCE CHARACTERISTICS			



ORDER OPTIONS

CARTRIDGE	
GPVS	Glass Pleat Value Series
MICRON RATINGS	
0.2, 0.45, 1, 3, 5, 20	
CARTRIDGE LENGTH	
10, 20, 30, 40	
PLEAT SUPPORT	
PE	Polyester
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET / O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CAGE / CORE / END CAPS	
PE	Polyester

CRB Pleat

Continuous Resin-Bonded Depth

- ▶ INKS
- ▶ ADHESIVES
- ▶ COATINGS
- ▶ RESINS

- ▶ OILS
- ▶ HYDRAULIC FLUIDS
- ▶ HIGHLY VISCOUS FLUIDS
- ▶ HEAVY BRINE SOLUTIONS

- ▶ MACHINE TOOL COOLANTS
- ▶ OIL WELL COMPLETION FLUIDS

Strainrite's **Continuous Resin-Bonded Depth 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 3.5 ft² of surface area per 10" segment, as compared to approximately 0.5 ft² 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.



- ▶ **VIRTUALLY NO FIBER MIGRATION, DUE TO THE UTILIZATION OF LONG POLYESTER HEAT SET FIBERS**
- ▶ **LONGER FILTER LIFE ALSO REDUCES LABOR TIME ASSOCIATED WITH CHANGE-OUTS**
- ▶ **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**
- ▶ **EXTREMELY HIGH FLOW RATES, DUE TO A SUBSTANTIAL INCREASE IN SURFACE AREA**
- ▶ **HIGH INTEGRITY ONE PIECE CONSTRUCTION**
- ▶ **NO EPOXIES, GLUES OR ADHESIVES**

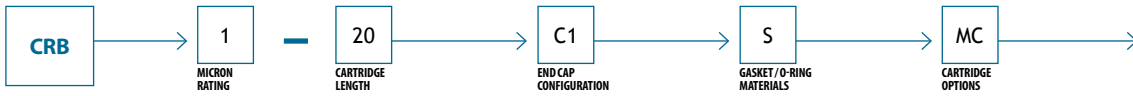
NEED A VESSEL FOR YOUR CARTRIDGES?

For the CRB-Pleat, the following vessel types are most commonly used:

SRC—PAGE 130 **SRVC—PAGE 132**

As always, discuss your options with your local sales representative to find the best fit for your application.

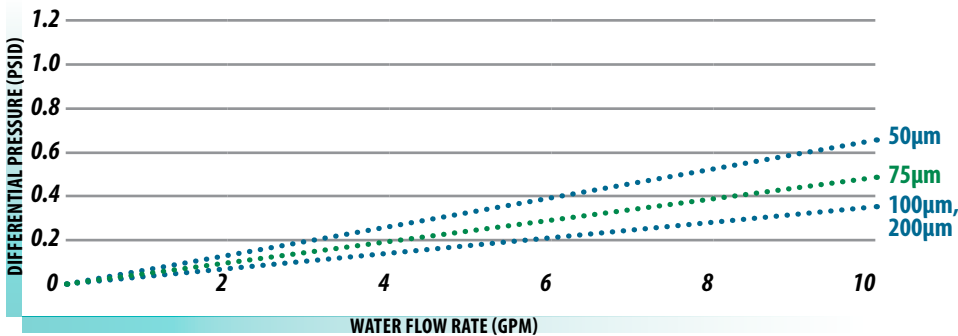
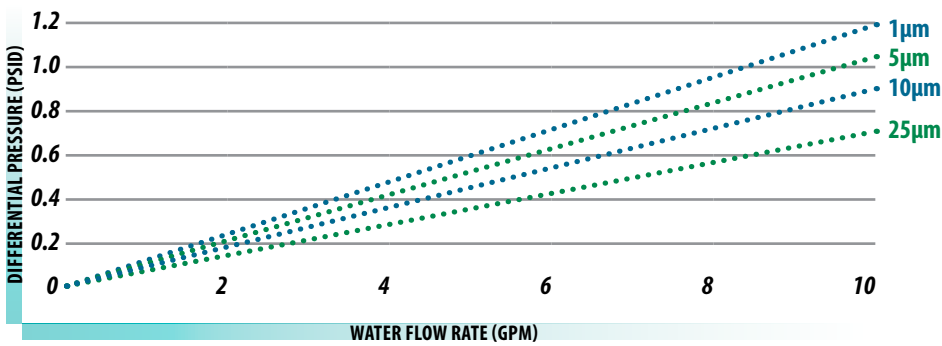
ORDER GUIDE



CRB1-20C1SMC

NOMINAL RATED RETENTION			
1, 5, 10, 25, 50, 75, 100, 200			
MAXIMUM DIFFERENTIAL PRESSURE		MAXIMUM OPERATING TEMPERATURE	
Forward: 75 psid (5.1 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)		250°F (121°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: 9.75-10 inch - 24 per carton 19.5-20 inch - 12 per carton 29.35-30 inch - 12 per carton 39-40 inch - 9 per carton			
FILTER MEDIA	END CAPS	CAGE/CORE	CONSTRUCTION METHOD
Phenolic Resin-Impregnated Polyester Material	Polypropylene Polyester	Polypropylene Polyester	Thermal Bond
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA	
EXTRUDED CAGE: 2.55" (6.48cm) MOLDED CAGE: 2.68" (6.81cm)		3 SQUARE FEET PER 10"	
LENGTHS			
9.75" (24.8 cm) 10" (25.4 cm) 19.5" (49.6 cm) 20" (50.8 cm) 29.25" (74.4 cm) 29.5" (76.2 cm) 30" (76.2 cm) 39" (99.4 cm) 40" (102 cm)			

PERFORMANCE CHARACTERISTICS



ORDER OPTIONS

CARTRIDGE	
CRB	CRB Pleat
MICRON RATINGS	
1, 5, 10, 25, 50, 75, 100, 200	
CARTRIDGE LENGTH	
9.75, 10, 19.5, 20, 29.25, 29.5, 30, 39, 40	
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET / O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE OPTIONS	
MC	Molded Cage
APH	All Polyester Hardware



Strainrite's **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).

- ▶ **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**
- ▶ **MAXIMUM PLEAT DESIGN FOR GREATER SURFACE AREA, ENSURING LONGER SERVICE LIFE, FEWER CHANGE OUTS AND REDUCED OPERATING COSTS**
- ▶ **100% THERMALLY BONDED CONSTRUCTION**
- ▶ **HIGH STRENGTH DESIGN ALLOWING FOR EXTENDED USE AND MULTI AUTOCLAVE AND HOT WATER SANITIZATION CYCLES**
- ▶ **316 STAINLESS STEEL INSERT STANDARD**
- ▶ **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**



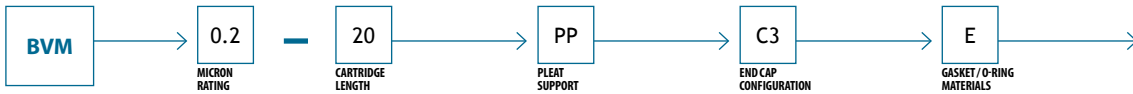
NEED A VESSEL FOR YOUR CARTRIDGES?

For the Bev-MAXX, the following vessel types are most commonly used:

SRCT—PAGE 128

As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



BVM0.2-20PPC3E

ABSOLUTE RATED RETENTION			
0.2, 0.45, 0.65			
MAXIMUM DIFFERENTIAL PRESSURE			
Forward: 75 psid (5.1 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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Polyethersulfone	Polypropylene	Polypropylene	Polypropylene
SEALS		REINFORCING RING	
EPDM Silicone		316 Stainless Steel	
CONSTRUCTION METHOD			
Thermal Bond			
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA	
2.7" (6.87cm)		7 square feet per 10" equivalent	
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
INTEGRITY TEST VALUES			
PORE SIZE	BUBBLE POINT	TEST PRESSURE	AIR DIFFUSION
BVM0.2	50 psig in water	40 psig	≤16mL/min
BVM0.45	29 psig in water	23 psig	≤13.5mL/min
BVM0.65	26 psig in water	20 psig	≤14mL/min
MICROBIOLOGICAL PERFORMANCE			
MICROORGANISM	BVM0.2	BVM0.45	BVM0.65
<i>Oenococcus oeni</i>		≥10 ⁷	
<i>Lactobacillus hilgardii</i>		≥10 ⁷	
<i>Saccharomyces cerevisiae</i>		≥10 ⁷	≥10 ⁷
<i>Brevundimonas diminuta</i>	≥10 ⁷		

ORDER OPTIONS

CARTRIDGE	
BVM	Bev-MAXX
MICRON RATINGS	
0.2, 0.45, 0.65	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
PLEAT SUPPORT	
PP	Polypropylene
END CAP CONFIGURATIONS	
C3 C6 C7 C8	Flat/222 Flat/226 Fin/226 Fin/222
GASKET/O-RING MATERIAL	
S E	Silicone EPDM



Strainrite's **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.

- ▶ **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**
- ▶ **MAXIMUM PLEAT DESIGN FOR GREATER SURFACE AREA, ENSURING LONGER SERVICE LIFE, FEWER CHANGE OUTS AND REDUCED OPERATING COSTS**
- ▶ **100% THERMALLY BONDED CONSTRUCTION**
- ▶ **HIGH STRENGTH DESIGN ALLOWING FOR EXTENDED USE AND MULTI AUTOCLAVE AND HOT WATER SANITIZATION CYCLES**
- ▶ **316 STAINLESS STEEL INSERT STANDARD**
- ▶ **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**



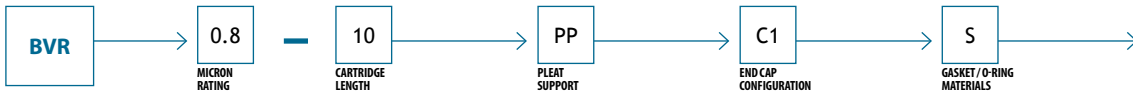
NEED A VESSEL FOR YOUR CARTRIDGES?

For the Bev-Rite, the following vessel types are most commonly used:

SRCT—PAGE 128

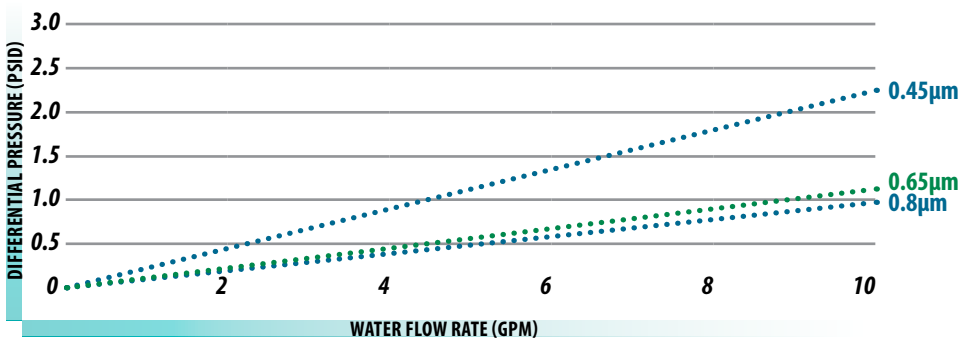
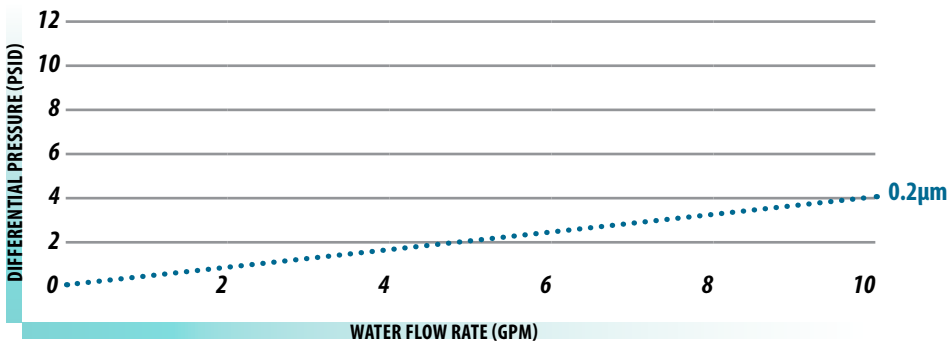
As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



BVR0.8-10PPC1S

ABSOLUTE RATED RETENTION			
0.2, 0.45, 0.65, 0.8			
MAXIMUM DIFFERENTIAL PRESSURE			
Forward:		Reverse:	
75 psid (5.1 bar) @ 75°F (24°C)		50 psid (3.4 bar) @ 75°F (24°C)	
40 psid (2.8 bar) @ 180°F (82°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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Polyethersulfone	Polypropylene	Polypropylene	Polypropylene
SEALS		REINFORCING RING	
EPDM Silicone		316 Stainless Steel	
CONSTRUCTION METHOD		OUTSIDE DIAMETER	APPROXIMATE SURFACE AREA
Thermal Bond		2.7" (6.87cm)	7 square feet per 10" equivalent
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
INTEGRITY TEST VALUES			
PORE SIZE	BUBBLE POINT	TEST PRESSURE	
BVR0.2	50 psig in water	40 psig	
BVR0.45	38 psig in water	30 psig	
BVR0.65	26 psig in water	23 psig	
BVR0.8	16 psig in water	20 psig	
PERFORMANCE CHARACTERISTICS			



ORDER OPTIONS

CARTRIDGE	
BVR	Bev-Rite
MICRON RATINGS	
0.2, 0.45, 0.65, 0.8	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
PLEAT SUPPORT	
PP	Polypropylene
END CAP CONFIGURATIONS	
C1	Double Open Ends
C3	Flat/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET / O-RING MATERIAL	
S E	Silicone EPDM

Guard-Rite

Microglass over Polyethersulfone
for Beverage Pre-final filtration

- ▶ PREFILTRATION OF JUICE
- ▶ PREFILTRATION OF WINE

- ▶ PREFILTRATION & CLARIFICATION FOR FINAL STERILIZING
- ▶ GRADE FILTER PROTECTION
- ▶ PREFILTRATION OF BEER



Created for beverage pre-final filtration, the **Guard-Rite** is the pre-final filter, to cost effectively reduce bioburden 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 micro-organisms. The superior flowing membrane ensures that flavor and color stay in your beverage.

Every **Guard-Rite** filter comes with a certificate of conformance and is manufactured to meet the highest cleanliness standards.



- ▶ **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**

NEED A VESSEL FOR YOUR CARTRIDGES?

For the Guard-Rite, the following vessel types are most commonly used:

SRCT—PAGE 128

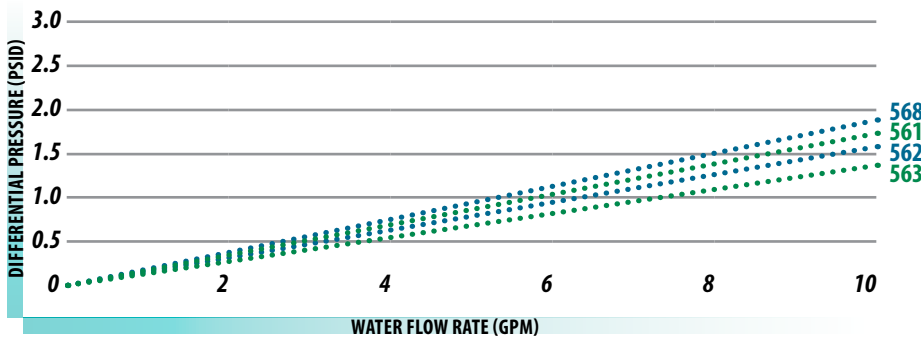
As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



GR561-10PPC1S1DIF

ABSOLUTE RATED RETENTION			
561 = 1µm Microglass over 0.65 µm Polyethersulfone 562 = 2µm Microglass over 0.65 µm Polyethersulfone 563 = 3µm Microglass over 0.65 µm Polyethersulfone 568 = 0.8µm Microglass over 0.65 µm Polyethersulfone			
MAXIMUM DIFFERENTIAL PRESSURE		MAXIMUM OPERATING TEMPERATURE	
Forward: 75 psid (5.1 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)		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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Microglass over Polyethersulfone	Polypropylene	Polypropylene Polyester	Polypropylene
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD		OUTSIDE DIAMETER	APPROXIMATE SURFACE AREA
Thermal Bond		2.7" (6.87cm)	5 square feet per 10" equivalent
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
PERFORMANCE CHARACTERISTICS			



ORDER OPTIONS

CARTRIDGE	
GR	Guard-Rite
MICRON RATINGS	
561, 562, 563, 568	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
PLEAT SUPPORT	
PP PE	Polypropylene Polyester
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET / O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
1	FDA Grade
CARTRIDGE OPTIONS	
DIF	DI Flush

Vino-MAXX E

Polyethersulfone for Final Sterilization of Wine

▶ FOOD AND BEVERAGE APPLICATIONS



Strainrite's **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).



- ▶ **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**
- ▶ **MAXIMUM PLEAT DESIGN FOR GREATER SURFACE AREA, ENSURING LONGER SERVICE LIFE, FEWER CHANGE OUTS AND REDUCED OPERATING COSTS**
- ▶ **100% THERMALLY BONDED CONSTRUCTION**
- ▶ **HIGH STRENGTH DESIGN ALLOWING FOR EXTENDED USE AND MULTI AUTOCLAVE AND HOT WATER SANITIZATION CYCLES**
- ▶ **316 STAINLESS STEEL INSERT STANDARD**
- ▶ **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 E 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 E CARTRIDGES ARE 100% INTEGRITY TESTED AND DI FLUSHED**

NEED A VESSEL FOR YOUR CARTRIDGES?

For the **Vino-MAXX E**, the following vessel types are most commonly used:

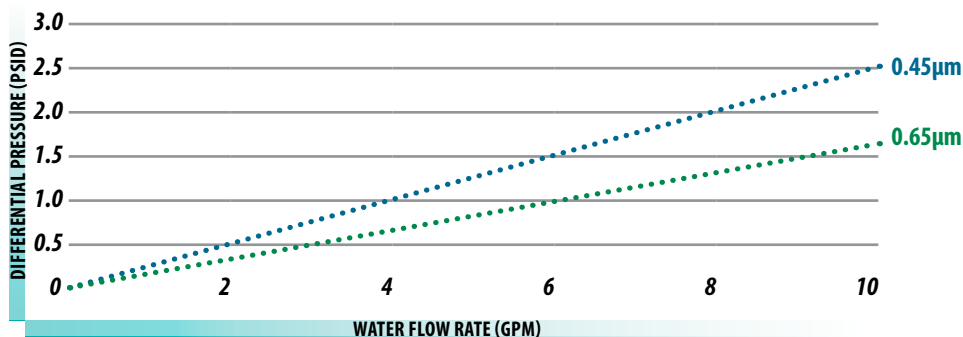
SRCT—PAGE 128

As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



ABSOLUTE RATED RETENTION			
0.45, 0.65			
MAXIMUM DIFFERENTIAL PRESSURE			
Forward:		Reverse:	
75 psid (5.1 bar) @ 75°F (24°C)		50 psid (3.4 bar) @ 75°F (24°C)	
40 psid (2.8 bar) @ 180°F (82°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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Polyethersulfone	Polyethersulfone	Polypropylene	Polypropylene
SEALS		REINFORCING RING	
EPDM Silicone		316 Stainless Steel	
CONSTRUCTION METHOD		OUTSIDE DIAMETER	APPROXIMATE SURFACE AREA
Thermal Bond		2.7" (6.87cm)	7 square feet per 10" equivalent
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
INTEGRITY TEST VALUES			
PORE SIZE	BUBBLE POINT	TEST PRESSURE	AIR DIFFUSION
VNXE.45	38 psig in water	30 psig	≤13.5mL/min
VNXE.65	20 psig in water	16 psig	≤14mL/min
MICROBIOLOGICAL PERFORMANCE			
MICROORGANISM	VNXE.45	VNXE.65	
<i>Oenococcus oeni</i>	≥10 ⁷		
<i>Lactobacillus hilgardii</i>	≥10 ⁷		
<i>Saccharomyces cerevisiae</i>	≥10 ⁹	≥10 ⁹	
PERFORMANCE CHARACTERISTICS			



ORDER OPTIONS

CARTRIDGE	
VNXE	Vino-MAXX E
MICRON RATINGS	
0.45, 0.65	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
PLEAT SUPPORT	
PP	Polypropylene
END CAP CONFIGURATIONS	
C3 C6 C7 C8	Flat/222 Flat/226 Fin/226 Fin/222
GASKET/O-RING MATERIAL	
S E	Silicone EPDM

Trap-Rite

Polypropylene for Trap Filtration of Beer

▶ BREWERY CHEMICALS
▶ FILTER AID PARTICLE
REMOVAL

▶ FOOD AND BEVERAGE
APPLICATIONS



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.



- ▶ **ABSOLUTE-RATED MEDIA PROVIDES RELIABLE, CONSISTENT AND REPEATABLE FILTRATION**
- ▶ **LOW PRESSURE DROPS YIELD HIGHER FLOW RATES AND REDUCED PROCESSING TIME**
- ▶ **100% POLYPROPYLENE, FDA COMPLIANT WITH CFR 21**
- ▶ **REMOVES FILTER AID PARTICLES**
- ▶ **VERY HIGH CONTAMINANT HOLDING CAPACITY**
- ▶ **MAXIMIZED PLEAT DESIGN FOR GREATER SURFACE AREA, ENSURING LONGER SERVICE LIFE, FEWER CHANGE OUTS AND REDUCED OPERATING COSTS**
- ▶ **EXCELLENT RESISTANCE TO TYPICAL BREWERY USE CHEMICALS**
- ▶ **THERMALLY BONDED CONSTRUCTION, ELIMINATING PARTICLE BYPASS**

NEED A VESSEL FOR YOUR CARTRIDGES?

For the Trap-Rite, the following vessel types are most commonly used:

SRCT—PAGE 128 **SRC—PAGE 130**

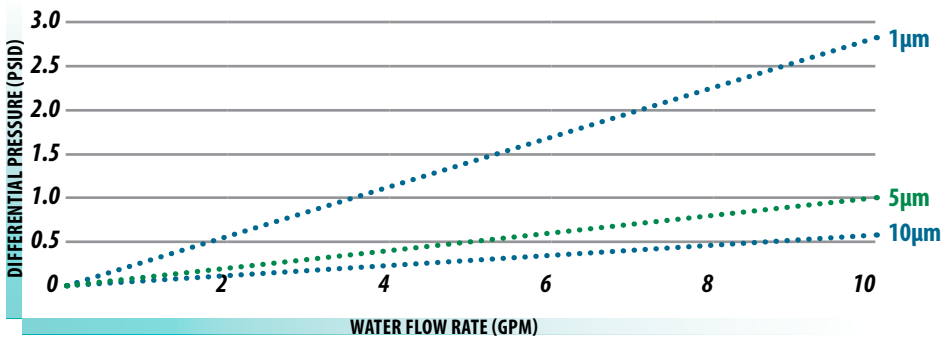
As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



TR10-10PPC1S1I

RETENTION RATING			
1, 5, 10			
MAXIMUM DIFFERENTIAL PRESSURE		MAXIMUM OPERATING TEMPERATURE	
Forward: 75 psid (5.1 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)		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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Polypropylene Microfiber Composite	Polypropylene	Polypropylene	Polypropylene
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD		OUTSIDE DIAMETER	
Thermal Bond		2.55" (6.48cm)	
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
PERFORMANCE CHARACTERISTICS			



ORDER OPTIONS

CARTRIDGE	
TR	Trap-Rite
MICRON RATINGS	
1, 5, 10	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
PLEAT SUPPORT	
PP	Polypropylene
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET / O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
-	General
1	FDA Grade
CARTRIDGE OPTIONS	
I	316 SS Insert
MC	Molded Cage

Aqua-Pro Cartridge

Polypropylene for Drinking Water

▶ FOOD AND BEVERAGE APPLICATIONS

▶ DRINKING WATER



Strainrite's **Aqua-Pro Cartridge** filters are engineered to produce the highest purity drinking water, by optimizing throughput while maintaining absolute rated performance that is both predictable and repeatable.

Utilizing state-of-the-art online monitoring equipment and superior control over fiber diameter and web design, our continuous composite microfiber material delivers the industry's most uniform and consistent results.

Aqua-Pro Cartridge filters bring the strongest line of defense against waterborne diseases traced to cryptosporidium and giardia cysts. These organisms, potentially lethal to those with weakened or underdeveloped immune systems, are highly resistant to conventional water treatment processes such as chlorination, but are no match for the **Aqua-Pro Cartridge** filters, at an absolute 1 micron designed to exceed the ANSI/NSF Standard 53 of 99.95% for the removal of cysts.



- ▶ **PERFORMANCE TESTED AND VERIFIED BY OUTSIDE LAB TO COMPLY WITH NSF/ANSI STANDARD 53 FOR REDUCTION OF CRYPTOSPORIDIUM AND GIARDIA CYSTS**
- ▶ **MEETS THE REQUIREMENTS OF USP PLASTIC CLASS VI**
- ▶ **HIGH SURFACE AREA – HIGH FLOW RATES AND LONG ON-LINE SERVICE**
- ▶ **CONSTRUCTED ENTIRELY OF POLYPROPYLENE**
- ▶ **COMPLIES WITH FDA TITLE 21 OF THE CODE OF FEDERAL REGULATIONS SECTIONS 174.5, AND 177.1520, AS APPLICABLE FOR FOOD AND BEVERAGE CONTACT**
- ▶ **DOUBLE O-RING STYLE ENDS FOR THE HIGHEST SEAL INTEGRITY**
- ▶ **VARIOUS O-RING MATERIALS AND CONFIGURATIONS – EASILY RETROFITS MOST SYSTEMS**

NEED A VESSEL FOR YOUR CARTRIDGES?

For the Aqua-Pro Cartridge, the following vessel types are most commonly used:

SRCT—PAGE 128

SRC—PAGE 130

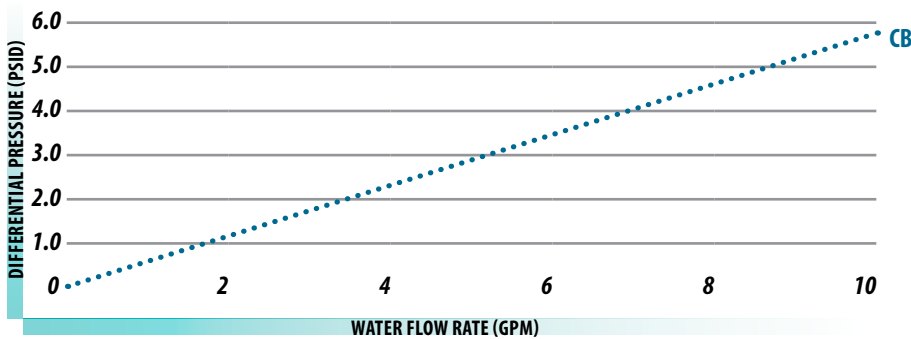
As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



APCCB-10C3S

RETENTION RATING			
Crypto-Barrier			
MAXIMUM DIFFERENTIAL PRESSURE			
Forward: 75 psid (5.1 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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Polypropylene	Polypropylene	Polypropylene	Polypropylene
SEALS		CONSTRUCTION METHOD	
EPDM Silicone		Thermal Bond	
OUTSIDE DIAMETER		INSIDE DIAMETER	
2.7" (6.87cm)		1.0" (2.54cm)	
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
PERFORMANCE CHARACTERISTICS			



ORDER OPTIONS

CARTRIDGE	
APC	Aqua-Pro Cartridge
MICRON RATINGS	
CB	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
END CAP CONFIGURATIONS	
C3 C6 C7 C8	Flat/222 Flat/226 Fin/226 Fin/222
GASKET / O-RING MATERIAL	
S E	Silicone EPDM

Mem-PLEAT SG & Pur-MAXX SG

Sterilizing Grade Pleated Polyethersulfone Membrane

▶ DIAGNOSTICS
▶ LARGE VOLUME
PARENTERALS

▶ BUFFER SOLUTIONS
▶ CELL CULTURE
PURIFICATION

▶ FINAL FILTRATION
OF WFI AND
CIP WATER
▶ VACCINES



Strainrite's [Sterilizing Grade Pleated Polyethersulfone Membrane Cartridges](#) are engineered to meet the highest standards of microorganism control for sterile fluids. These filter elements are validated for complete removal of *Brevundimonas diminuta* (ATCC 19146) at test concentrations of 10^7 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. These cartridges are produced utilizing a unique multi-pleated configuration integrating highly asymmetric and hydrophillic polyethersulfone membrane with exceptional pleat support materials. This novel multi-pleated approach increases cartridge life, strength and durability, and allows our filter cartridges to withstand multiple sterilization cycles without sacrificing product integrity.

These cartridges comply 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 them perfect for applications in the biopharmaceutical and bottled water industries.



- ▶ **VALIDATED 0.2 μ m 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: LONGER SERVICE LIFE, FEWER CHANGE OUTS AND REDUCED OPERATING COSTS**
- ▶ **100% THERMALLY BONDED CONSTRUCTION**
- ▶ **INTEGRITY TESTED**
- ▶ **HIGH STRENGTH DESIGN ALLOWING FOR EXTENDED USE AND MULTI AUTOCLAVE AND HOT WATER SANITIZATION CYCLES**
- ▶ **316 SS REINFORCED END TREATMENTS**
- ▶ **ALL MATERIALS OF CONSTRUCTION ARE FDA COMPLIANT WITH CFR TITLE 21 AND ARE BIO-SAFE IN ACCORDANCE WITH USP CLASS VI**
- ▶ **VALIDATION GUIDE AVAILABLE ON REQUEST**

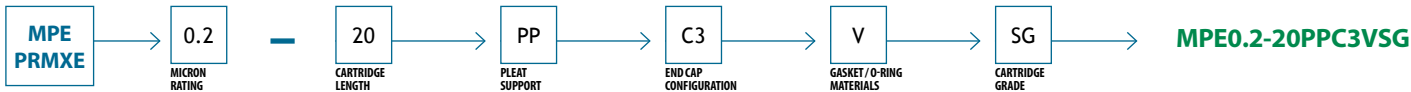
NEED A VESSEL FOR YOUR CARTRIDGES?

For the Mem-Pleat SG and Pur-MAXX SG, the following vessel types are most commonly used:

SRCT—PAGE 128

As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



ABSOLUTE RATED RETENTION																	
0.2																	
MAXIMUM DIFFERENTIAL PRESSURE																	
Forward: 75 psid (5.1 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																	
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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton																	
FILTER MEDIA	END CAPS/ CAGE/CORE	PLEAT SUPPORT MATERIAL	REINFORCING RING														
Polyethersulfone	Polypropylene	Polypropylene	316 Stainless Steel														
SEALS		CONSTRUCTION METHOD															
Buna N Fluorocarbon EPDM Silicone		Thermal Bond															
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA															
MPESG: 2.55" (6.48cm) PRMXESG: 2.7" (6.87cm)		6.5 square feet per 10" equivalent															
LENGTHS																	
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)																	
INTEGRITY TEST VALUES																	
PORE SIZE	BUBBLE POINT	TEST PRESSURE	AIR DIFFUSION														
0.2-SG	50 psig	40 psig	≤16mL/min														
USP PHYSIOCHEMICAL TESTS FOR PLASTICS																	
Ultrapure water extracts from multiple lots of cartridges were tested and shown to have values that comply with USP limits																	
TEST	RESULTS	USP LIMIT															
Non volatile residue Heavy Metals Residue on Ignition Buffering Capacity	<2mg <1ppm <2mg <1mL	<15mg <1ppm <5mg <10ml															
PERFORMANCE CHARACTERISTICS																	
<table border="1"> <caption>Performance Characteristics Data</caption> <thead> <tr> <th>Water Flow Rate (GPM)</th> <th>Differential Pressure (PSID)</th> </tr> </thead> <tbody> <tr><td>0</td><td>0.2</td></tr> <tr><td>1</td><td>0.6</td></tr> <tr><td>2</td><td>1.0</td></tr> <tr><td>3</td><td>1.4</td></tr> <tr><td>4</td><td>1.8</td></tr> <tr><td>5</td><td>2.2</td></tr> </tbody> </table>				Water Flow Rate (GPM)	Differential Pressure (PSID)	0	0.2	1	0.6	2	1.0	3	1.4	4	1.8	5	2.2
Water Flow Rate (GPM)	Differential Pressure (PSID)																
0	0.2																
1	0.6																
2	1.0																
3	1.4																
4	1.8																
5	2.2																

ORDER OPTIONS

CARTRIDGE	
MPE PRMXE	Mem-Pleat E (2.55") Pur-MAXX E (2.7")
MICRON RATINGS	
0.2	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
PLEAT SUPPORT	
PP	Polypropylene
END CAP CONFIGURATIONS	
C3 C6 C7 C8	Flat/222 Flat/226 Fin/226 Fin/222
GASKET / O-RING MATERIAL	
S B V E	Silicone Buna N Fluorocarbon EPDM
CARTRIDGE GRADE	
SG	Sterilizing Grade

Endo-MAXX CN

Charged Nylon for Endotoxin Reduction

- ▶ ENDOTOXIN REMOVAL
- ▶ HIGH PURITY WATER



Strainrite's **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.



- ▶ **INTEGRITY TESTED ENDOTOXIN REMOVAL FILTER**
- ▶ **ABSOLUTE-RATED MEMBRANE PROVIDES RELIABLE, CONSISTENT AND REPEATABLE FILTRATE QUALITY**
- ▶ **MAXIMUM 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**
- ▶ **POSITIVE ZETA POTENTIAL FOR REMOVAL OF CHARGED PARTICLES SMALLER THAN THE ABSOLUTE RETENTION RATING OF THE FILTER**

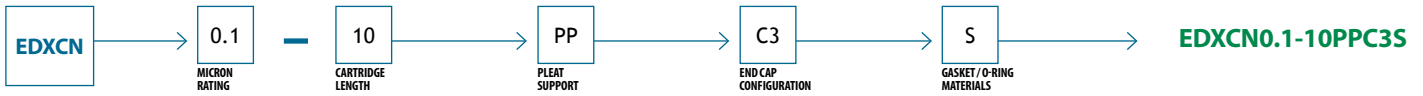
NEED A VESSEL FOR YOUR CARTRIDGES?

For the Endo-MAXX CN, the following vessel types are most commonly used:

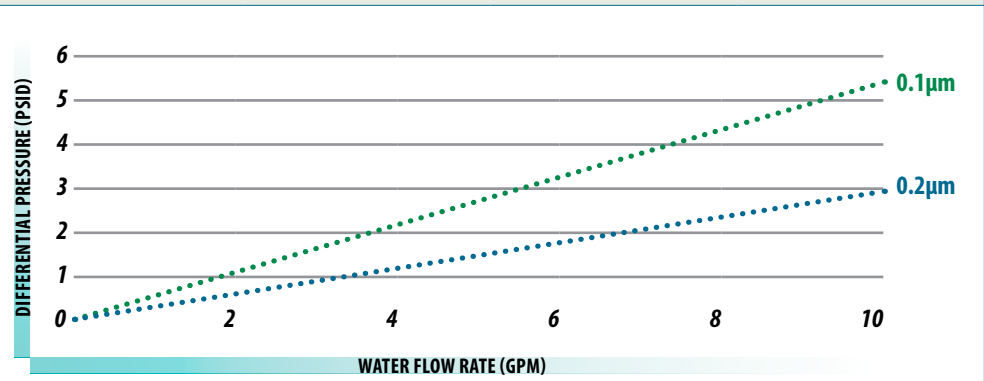
SRCT—PAGE 128

As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



ABSOLUTE RATED RETENTION			
0.1, 0.2			
MAXIMUM DIFFERENTIAL PRESSURE			
Forward: 75 psid (5.1 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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Charged Nylon 6,6 cast on Polyester	Polypropylene	Polypropylene Polyester	Polypropylene
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD			
Thermal Bond			
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA	
2.7" (6.87cm)		6.8 square feet per 10" equivalent	
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
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			
PERFORMANCE CHARACTERISTICS			



ORDER OPTIONS

CARTRIDGE	
EDXCN	Endo-MAXX CN
MICRON RATINGS	
	0.1, 0.2
CARTRIDGE LENGTH	
	5, 10, 20, 30, 40
PLEAT SUPPORT	
PE PP	Polyester Polypropylene
END CAP CONFIGURATIONS	
C3 C6 C7 C8	Flat/222 Flat/226 Fin/226 Fin/222
GASKET/O-RING MATERIAL	
S B V E TF TH TV TS	Silicone Buna N Fluorocarbon EPDM PTFE Foam PTFE Hard Encapsulated Fluorocarbon Encapsulated Silicone

Ink-Jet IKP

Polypropylene for Ink-jet Inks

▶ HIGH VISCOSITY
INK-JET INKS

▶ PIGMENT BASED
INK-JET INKS

▶ DYE BASED
INK-JET INKS



Strainrite's **Ink-Jet IKP** filter is another example of Strainrite's continued tradition of providing industry leading filtration solutions. IKP filters offer more surface area and less depth than the dual-density IKS filters to achieve industry leading performance as a final filter for pigment and dye based inkjet inks.

The **Ink-Jet IKP** filters are manufactured without binders or resins, in our class 10,000 clean room resulting in an extremely clean non-fiber shedding filter.



- ▶ **ABSOLUTE-RATED MEDIA PROVIDES RELIABLE, CONSISTENT AND REPEATABLE FILTRATION RESULTS**
- ▶ **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**

NEED A VESSEL FOR YOUR CARTRIDGES?

For the Ink-Jet IKP, the following vessel types are most commonly used:

SRC—PAGE 130

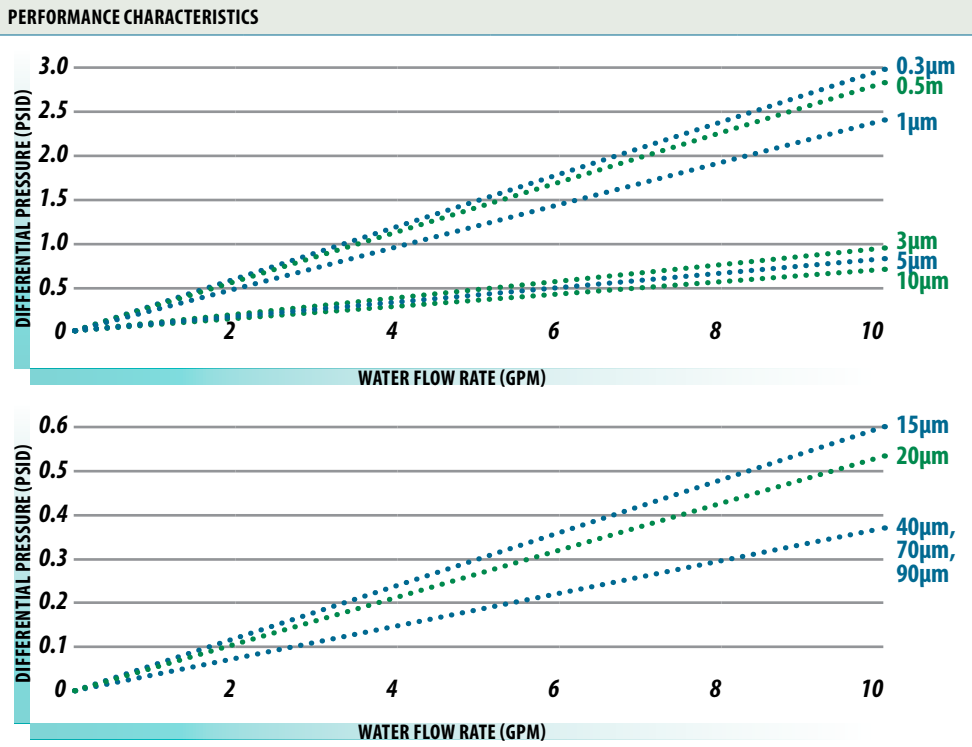
As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



IKP0.3-10PPC1SI

RETENTION RATING			
0.3, 0.5, 1, 3, 5, 10, 15, 20, 40, 70, 90			
MAXIMUM DIFFERENTIAL PRESSURE			
Forward: 75 psid (5.1 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Polypropylene	Polypropylene	Polypropylene	Polypropylene
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD			
Thermal Bond			
OUTSIDE DIAMETER			
2.68" (6.81cm)			
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
EFFICIENCY			
IKP0.3 — BETA100 @ 0.3µm IKP0.5 — BETA100 @ 0.5µm IKP1 — BETA100 @ 1µm IKP3 — BETA100 @ 3µm	IKP5 — BETA100 @ 5µm IKP10 — BETA100 @ 10µm IKP15 — BETA100 @ 15µm	IKP20 — BETA100 @ 20µm IKP40 — BETA100 @ 40µm IKP70 — BETA100 @ 70µm IKP90 — BETA100 @ 90µm	



ORDER OPTIONS

CARTRIDGE	
IKP	Ink-Jet IKP
MICRON RATINGS	
0.3, 0.5, 1, 3, 5, 10, 15, 20, 40, 70, 90	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
PLEAT SUPPORT	
PP	Polypropylene
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET / O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
I	316 SS Insert

Ink-Jet IKS

Dual Density Polypropylene for Ink-jet Inks

- ▶ HIGH VISCOSITY INK-JET INKS
- ▶ GEL REMOVAL

- ▶ PIGMENT BASED INK-JET INKS
- ▶ DYE BASED INK-JET INKS



Strainrite's **Ink-Jet Select IKS** filter is another example of Strainrite's continued tradition of providing industry leading filtration solutions. **Ink-Jet Select** 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 ink-jet inks.

The **Ink-Jet Select** filters are manufactured without binders or resins, in our 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.



- ▶ **ABSOLUTE-RATED MEDIA PROVIDES RELIABLE, CONSISTENT AND REPEATABLE FILTRATION RESULTS**
- ▶ **LOWER PRESSURE DROPS, WHICH YIELD HIGHER FLOW RATES AND REDUCED PROCESSING TIME**
- ▶ **100% POLYPROPYLENE CONSTRUCTION OFFERS A WIDE RANGE OF CHEMICAL COMPATIBILITY**
- ▶ **GRADED PORE DENSITY PLEAT DESIGN TO OPTIMIZE SERVICE LIFE, FEWER CHANGE OUTS AND REDUCED OPERATING COSTS PER CARTRIDGE**

NEED A VESSEL FOR YOUR CARTRIDGES?

For the Ink-Jet Select IKS, the following vessel types are most commonly used:

SRC—PAGE 130

As always, discuss your options with your local sales representative to find the best fit for your application.

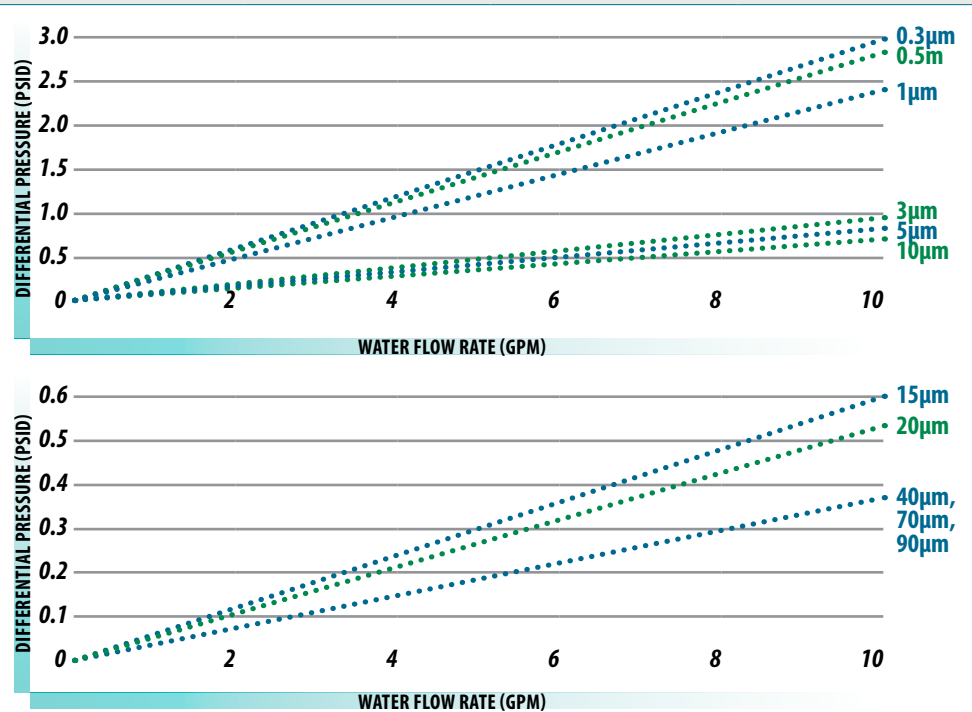
ORDER GUIDE



IKS0.3-10PPC1SI

RETENTION RATING			
0.3, 0.5, 1, 3, 5, 10, 15, 20, 40, 70, 90			
MAXIMUM DIFFERENTIAL PRESSURE			
Forward: 75 psid (5.1 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Polypropylene Micro/Nano-fiber Composite	Polypropylene	Polypropylene	Polypropylene
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD			
Thermal Bond			
OUTSIDE DIAMETER			
2.68" (6.81cm)			
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
EFFICIENCY			
IKS0.3 — BETA100 @ 0.3µm IKS0.5 — BETA100 @ 0.5µm IKS1 — BETA100 @ 1µm IKS3 — BETA100 @ 3µm	IKS5 — BETA100 @ 5µm IKS10 — BETA100 @ 10µm IKS15 — BETA100 @ 15µm	IKS20 — BETA100 @ 20µm IKS40 — BETA100 @ 40µm IKS70 — BETA100 @ 70µm IKS90 — BETA100 @ 90µm	

PERFORMANCE CHARACTERISTICS



ORDER OPTIONS

CARTRIDGE	
IKS	Ink-Jet Select IKS
MICRON RATINGS	
0.3, 0.5, 1, 3, 5, 10, 15, 20, 40, 70, 90	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
PLEAT SUPPORT	
PP	Polypropylene
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET / O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
I	316 SS Insert

Ink-Jet IKG

Microglass for Ink-jet Inks

- ▶ HIGH VISCOSITY INK-JET INKS
- ▶ GEL REMOVAL

- ▶ PIGMENT BASED INK-JET INKS
- ▶ DYE BASED INK-JET INKS



The Ink-Jet IKG filter is another example of Strainrite's continued tradition of providing industry leading filtration solutions.

The Ink-Jet IKG filters are assembled without binders or resins, in our 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.



- ▶ **ABSOLUTE-RATED MEDIA PROVIDES RELIABLE, CONSISTENT AND REPEATABLE FILTRATION RESULTS**
- ▶ **LOWER PRESSURE DROPS, WHICH YIELD HIGHER FLOW RATES AND REDUCED PROCESSING TIME**
- ▶ **THERMALLY BONDED CONSTRUCTION ENSURES A CLEANER FILTRATE WHILE MINIMIZING EXTRACTABLES**

NEED A VESSEL FOR YOUR CARTRIDGES?

For the Ink-Jet IKG, the following vessel types are most commonly used:

SRC—PAGE 130

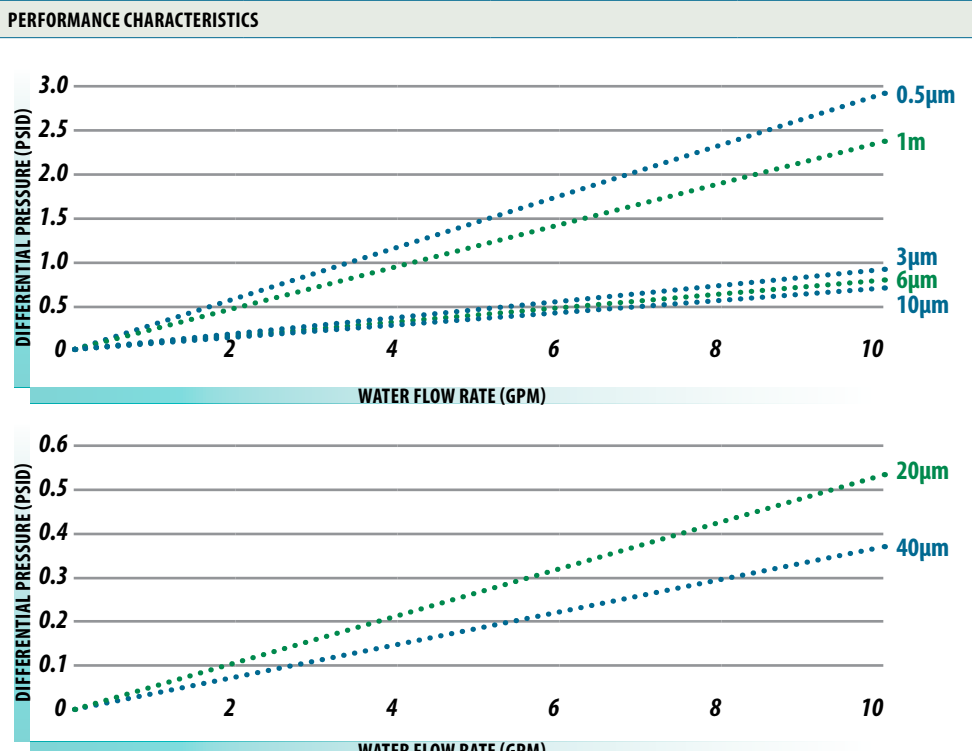
As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



IKG1-20PPC2BI

RETENTION RATING			
0.5, 1, 3, 6, 10, 20, 40			
MAXIMUM DIFFERENTIAL PRESSURE			
Forward: 75 psid (5.1 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)			
MAXIMUM OPERATING TEMPERATURE			
180°F (82°C) Continuous Duty Polypropylene		275°F (135°C) Continuous Duty Polyester	
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: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Borosilicate Microglass	Polypropylene Polyester	Polypropylene Polyester	Polypropylene Polyester
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD			
Thermal Bond			
OUTSIDE DIAMETER			
2.68" (6.81cm)			
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			
EFFICIENCY			
IKG0.5 — BETA100 @ 0.5µm IKG1 — BETA100 @ 1µm	IKG3 — BETA100 @ 3µm IKG6 — BETA100 @ 6µm IKG10 — BETA100 @ 10µm	IKG20 — BETA100 @ 20µm IKG40 — BETA100 @ 40µm	



ORDER OPTIONS

CARTRIDGE	
IKG	Ink-Jet IKG
MICRON RATINGS	
0.5, 1, 3, 6, 10, 20, 40	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
PLEAT SUPPORT	
PE PP	Polyester Polypropylene
END CAP CONFIGURATIONS	
C1 C2 C3 C4 C5 C6 C7 C8	Double Open Ends 213/Recessed Cup Flat/222 Single Open End/Flat Recessed Cup/222 Flat/226 Fin/226 Fin/222
GASKET / O-RING MATERIAL	
S B V E TF TH TV TS	Silicone Buna N Fluorocarbon EPDM PTFE Foam PTFE Hard Encapsulated Fluorocarbon Encapsulated Silicone
CARTRIDGE GRADE	
I APH	316 SS Insert All Polyester Hardware

PES-E

Polyethersulfone For Microelectronics

- ▶ HIGH PURITY CHEMICAL FILTRATION
- ▶ LIQUID CLARIFICATION
- ▶ GENERAL WATER FILTRATION

- ▶ SEMICONDUCTOR ELECTRONICS
- ▶ DEIONIZED WATER SYSTEMS



Strainrite's 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 membranes ensure 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.



- ▶ 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
- ▶ INTEGRITY TESTABLE
- ▶ MAXIMUM 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
- ▶ HIGH STRENGTH DESIGN ALLOWING FOR EXTENDED USE

NEED A VESSEL FOR YOUR CARTRIDGES?

For the PES-E, the following vessel types are most commonly used:

SRC—PAGE 130

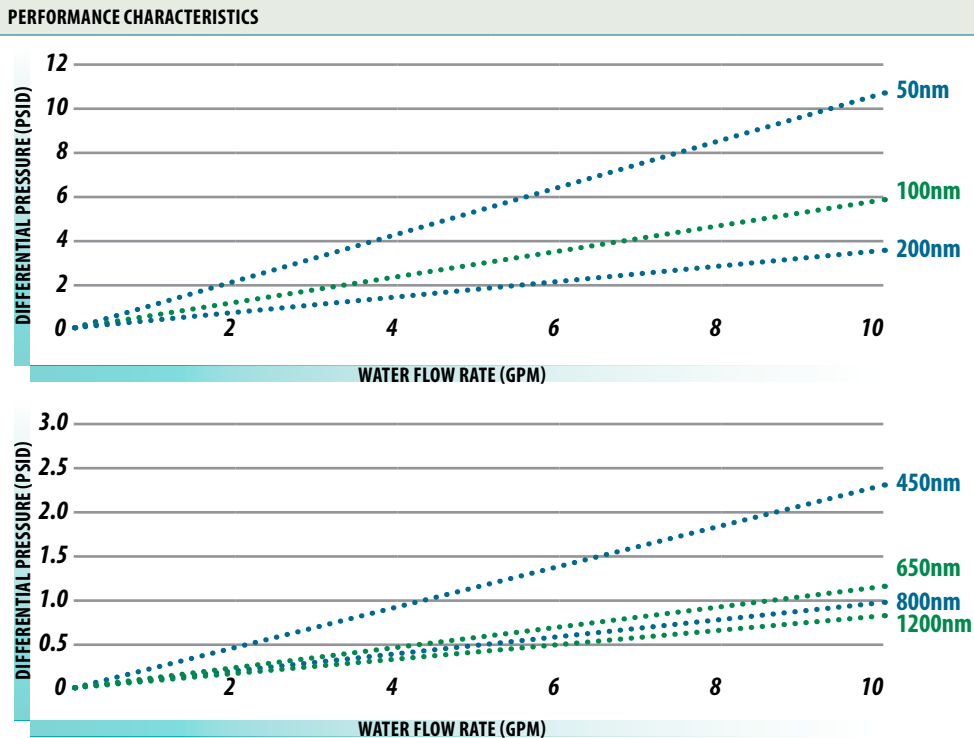
As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



PESE50-10PPC1SET

ABSOLUTE RATED RETENTION (NANOMETERS)			
50, 100, 200, 450, 650, 800, 1200			
MAXIMUM DIFFERENTIAL PRESSURE			
Forward: 75 psid (5.1 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			
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			
DI WATER SPECIFICATIONS			
All Cartridges are 18 megohm flushed			
PACKAGING ECONOMY			
Bulk packaging in case quantities to reduce material disposal: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton 40 inch - 9 per carton			
FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Polyethersulfone	Polypropylene	Polypropylene	Polypropylene
SEALS			
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard			
CONSTRUCTION METHOD			
Thermal Bond			
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA	
2.7" (6.87cm)		6.8 square feet per 10" equivalent	
LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			



ORDER OPTIONS

CARTRIDGE	
PESE	PES-E
NANOMETER RATINGS	
50, 100, 200, 450, 650, 800, 1200	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
PLEAT SUPPORT	
PP	Polypropylene
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET / O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
E	Electronics
CARTRIDGE OPTIONS	
I	316 SS Insert
T	Integrity Tested

Vent-MAXX

Double Layer PTFE for Sterilization in Air & Vent Gas Applications

- ▶ FERMENTER INLET AIR
- ▶ STERILE VENTING OF TANKS

- ▶ STERILE PROCESS AIR
- ▶ EXHAUST VENTING



Strainrite's **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.



- ▶ PTFE MEMBRANES
- ▶ INHERENTLY HYDROPHOBIC MEDIA
- ▶ 100% INTEGRITY TESTED
- ▶ HIGH SURFACE AREA
- ▶ STERILIZING GRADE IN LIQUIDS
- ▶ VIRUS RETENTIVE IN GASES
- ▶ THERMALLY BONDED CONSTRUCTION
- ▶ WATER INTRUSION TESTABLE
- ▶ QUALITY CONTROL CERTIFICATE WITH EVERY FILTER
- ▶ FDA LISTED MATERIALS PER CFR 21
- ▶ CAN BE STEAM STERILIZED MULTIPLE TIMES IN SITU FOR LONGER FILTER LIFE
- ▶ MANUFACTURED IN CERTIFIED CLEAN ROOMS

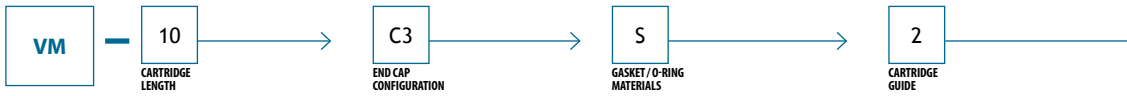
NEED A VESSEL FOR YOUR CARTRIDGES?

For the Vent-MAXX, the following vessel types are most commonly used:

SRCT—PAGE 128

As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



VM-10C3S2

MAXIMUM DIFFERENTIAL PRESSURE																	
Forward: 75 psid (5.1 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 <i>Brevundimonas diminuta</i> at 10 ⁷ per cm ² per ASTM (F 838-05) Liquid challenge validated as sterilizing grade filter at a challenge level of <i>Brevundimonas diminuta</i> at 10 ⁷ per cm ² per ASTM (F 838-05) Water Intrusion Test (WIT) value of > 60 psi with a WIT not to exceed 75 psi																	
PACKAGING ECONOMY																	
Bulk packaging in case quantities to reduce material disposal: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton																	
FILTER MEDIA	END CAPS/ CAGE/CORE	PLEAT SUPPORT MATERIAL	END CAP INSERT														
Double Layer PTFE	Polypropylene	Polypropylene	316 Stainless Steel														
SEALS		CONSTRUCTION METHOD															
Fluorocarbon Silicone		Thermal Bond															
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA															
2.7" (6.87cm)		7.5 square feet per 10" equivalent															
LENGTHS																	
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm)																	
INTEGRITY TEST VALUES																	
All cartridges are integrity tested prior to shipment using pressure decay test method. Values below are for cartridges wetted with 100% IPA.																	
CARTRIDGE	TEST PRESSURE	DIFFUSIONAL FLOW															
10"	14 psi	25mL/min															
20"	14 psi	50mL/min															
30"	14 psi	75mL/min															
PERFORMANCE CHARACTERISTICS																	
<table border="1"> <caption>Pressure Drop vs Air Flow Rate Data</caption> <thead> <tr> <th>Air Flow Rate (SCFM)</th> <th>Pressure Drop (PSID)</th> </tr> </thead> <tbody> <tr><td>0</td><td>0.0</td></tr> <tr><td>20</td><td>0.2</td></tr> <tr><td>40</td><td>0.4</td></tr> <tr><td>60</td><td>0.6</td></tr> <tr><td>80</td><td>0.8</td></tr> <tr><td>100</td><td>1.15</td></tr> </tbody> </table>				Air Flow Rate (SCFM)	Pressure Drop (PSID)	0	0.0	20	0.2	40	0.4	60	0.6	80	0.8	100	1.15
Air Flow Rate (SCFM)	Pressure Drop (PSID)																
0	0.0																
20	0.2																
40	0.4																
60	0.6																
80	0.8																
100	1.15																

ORDER OPTIONS

CARTRIDGE	
VM	Vent-MAXX
CARTRIDGE LENGTH	
5, 10, 20, 30	
END CAP CONFIGURATIONS	
C3 C6 C7 C8	Flat/222 Flat/226 Fin/226 Fin/222
GASKET / O-RING MATERIAL	
S V	Silicone Fluorocarbon
CARTRIDGE GRADE	
2	Pharmaceutical

Vent-Rite

Pleated PTFE for Sterilization in Air & Vent Gas Applications

- ▶ FERMENTER INLET AIR
- ▶ STERILE VENTING OF TANKS

- ▶ STERILE PROCESS AIR
- ▶ EXHAUST VENTING



Strainrite's **Vent-Rite** hydrophobic, sterilizing PTFE membrane filters provide the highest levels of security in demanding air and gas applications. These 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.



- ▶ PTFE MEMBRANES
- ▶ INHERENTLY HYDROPHOBIC MEDIA
- ▶ 100% INTEGRITY TESTED
- ▶ HIGH SURFACE AREA
- ▶ AEROSOL VALIDATED
- ▶ VIRUS RETENTIVE IN GASES
- ▶ THERMALLY BONDED CONSTRUCTION
- ▶ WATER INTRUSION TESTABLE
- ▶ QUALITY CONTROL CERTIFICATE WITH EVERY FILTER
- ▶ FDA LISTED MATERIALS PER CFR 21
- ▶ CAN BE STEAM STERILIZED MULTIPLE TIMES IN SITU FOR LONGER FILTER LIFE
- ▶ MANUFACTURED IN CERTIFIED CLEAN ROOMS

NEED A VESSEL FOR YOUR CARTRIDGES?

For the Vent-Rite, the following vessel types are most commonly used:

SRCT—PAGE 128

As always, discuss your options with your local sales representative to find the best fit for your application.

ORDER GUIDE



VR-10C8S2

MAXIMUM DIFFERENTIAL PRESSURE																	
Forward: 75 psid (5.1 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 <i>Brevundimonas diminuta</i> at 10 ⁷ per cm ² per ASTM (F 838-05)																	
PACKAGING ECONOMY																	
Bulk packaging in case quantities to reduce material disposal: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton																	
FILTER MEDIA	END CAPS/ CAGE/CORE	PLEAT SUPPORT MATERIAL	END CAP INSERT														
PTFE	Polypropylene	Polypropylene	316 Stainless Steel														
SEALS		CONSTRUCTION METHOD															
Fluorocarbon Silicone		Thermal Bond															
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA															
2.7" (6.87cm)		8.5 square feet per 10" equivalent															
LENGTHS																	
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm)																	
INTEGRITY TEST VALUES																	
All cartridges are integrity tested prior to shipment using pressure decay test method. Values below are for cartridges wetted with 100% IPA.																	
CARTRIDGE	TEST PRESSURE	DIFFUSIONAL FLOW															
10"	14 psi	100mL/min															
20"	14 psi	200mL/min															
30"	14 psi	300mL/min															
PERFORMANCE CHARACTERISTICS																	
<table border="1"> <caption>Performance Characteristics Data</caption> <thead> <tr> <th>Air Flow Rate (SCFM)</th> <th>Pressure Drop (PSID)</th> </tr> </thead> <tbody> <tr><td>0</td><td>0.0</td></tr> <tr><td>20</td><td>0.2</td></tr> <tr><td>40</td><td>0.4</td></tr> <tr><td>60</td><td>0.6</td></tr> <tr><td>80</td><td>0.8</td></tr> <tr><td>100</td><td>1.15</td></tr> </tbody> </table>				Air Flow Rate (SCFM)	Pressure Drop (PSID)	0	0.0	20	0.2	40	0.4	60	0.6	80	0.8	100	1.15
Air Flow Rate (SCFM)	Pressure Drop (PSID)																
0	0.0																
20	0.2																
40	0.4																
60	0.6																
80	0.8																
100	1.15																

ORDER OPTIONS

CARTRIDGE	
VR	Vent-Rite
CARTRIDGE LENGTH	
5, 10, 20, 30	
END CAP CONFIGURATIONS	
C3 C6 C7 C8	Flat/222 Flat/226 Fin/226 Fin/222
GASKET/O-RING MATERIAL	
S V	Silicone Fluorocarbon
CARTRIDGE GRADE	
2	Pharmaceutical

MAXX-Cap

Single-Use / Multi-Use Ultrapure Polypropylene Capsules

▶ ULTRAPURE
CHEMICAL

▶ BIO-PHARMACEUTICAL

▶ HIGH VALUE
PRODUCTS

▶ BIO-TECHNOLOGY

▶ OPHTHALMICS

▶ FOOD AND BEVERAGE
PROCESSING INKS

The Strainrite **MAXX-Cap** 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.

D1/01 - Sanitary



D2/02 - 1/2" Female NPT



D3/03 - 1/4" Hose Barb



D4/04 - 1/2" Hose Barb



D5/05 - Graduated Hose Barb



Our proprietary design utilizes an inlet and outlet vent for confident start up and safe efficient processing. Strainrite offers a wide array of materials from the innovative SG to our charged modified CN as well as absolute and nominal media like polypropylene and microglass. Strainrite capsules will also accept our sterile air and vent product line, the Vent Maxx and Vent Rite.

MAXX-Cap is available in sizes from 5" to 40". 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 **MAXX-Cap** capsules may be integrated into existing capsule applications.

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.



- ▶ 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-AUTOCLEASE CYCLES

ORDER GUIDE



MC-P5D1O1PMX12E

MAXIMUM DIFFERENTIAL PRESSURE			
Forward: 70 psi @ 70°F (21.1°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			
Autoclave: May be autoclaved 3 times for 60 minutes. Not in line steam sterilizable.			
PACKAGING ECONOMY			
Bulk packaging in case quantities to reduce material disposal: 5 inch - Individually Boxed - 6 case / 9 case quantity 20 inch - Individually Boxed - 6 case quantity 40 inch - Individually Boxed 10 inch - Individually Boxed - 6 case / 12 case quantity 30 inch - Individually Boxed - 6 case quantity			
MEMBRANE MEDIA	PLEATED DEPTH MEDIA	PLEAT SUPPORT MATERIAL	CAPSULE HARDWARE
Polyethersulfone Polysulfone Nylon	Borosilicate Microglass Polypropylene Microfiber	Polypropylene Polyester	Polypropylene
END CAPS	CARTRIDGE SEALS		
Polypropylene	Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone		
CAGE/CORE	CAPSULE VENT SEALS		
Polypropylene	Buna N Fluorocarbon EPDM Silicone Perfluorocarbon (available on request)		
OUTSIDE DIAMETER		CONSTRUCTION METHOD	
3.5" (8.89cm)		Thermal Bond	
NOMINAL LENGTHS			
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)			

ORDER OPTIONS

CAPSULE	
MC	MAXX-Cap
NOMINAL LENGTHS	
	5, 10, 20, 30, 40
INLET DESIGN	
D1 D2 D3 D4 D5	1", 1.5" sanitary 0.5" female NPT 0.25" hose barb 0.5" hose barb grad. hose barb
OUTLET DESIGN	
O1 O2 O3 O4 O5	1", 1.5" sanitary 0.5" female NPT 0.25" hose barb 0.5" hose barb grad. hose barb

CARTRIDGE STYLE	MICRON RATING	CARTRIDGE GRADE					
		- General	1 FDA Grade	2 Pharma.	5 Water Grade	SG Sterilizing	E Electronics
PRMXE (Pur-MAXX E)	0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1.2		X	X	X		
PRMXS (Pur-MAXX S)	0.03, 0.05, 0.10, 0.2, 0.45, 0.65	X	X		X		
PRMXN (Pur-MAXX N)	0.1, 0.2, 0.45, 0.65, 0.8, 1.2	X	X	X	X		
PRMXCN (Pur-MAXX CN)	0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1.2	X	X	X	X		
PRMXT (Pur-MAXX T)	0.1, 0.2	X		X			
PRMXCN (Pur-MAXX C)	0.1, 0.2, 0.45, 0.65, 0.8, 1.2	X	X	X			
DMX (Duo-MAXX)	<i>Many options available; please contact customer service or inquire with a sales representative to learn more</i>						
PMX (Poly-MAXX)	1, 1.5, 2.5, 5, 10, 15, 20, 40, 70	X	X	X			
PMXG (Poly-MAXX G)	0.25, 0.5, 1, 2.5, 5, 8, 12, 20, 30, 50	X	X	X			
SPMX (Poly-MAXX Select)	1, 1.5, 3, 5, 10, 15, 20, 40, 70, 90	X	X	X			
FMX (Fiber-MAXX)	0.8, 0.9*, 1, 2*, 3, 5, 10, 15* <small>*Not Available in FDA Grade</small>	X	X	X			
FMXG (Fiber-MAXX G)	0.2, 0.45, 0.65, 1, 5, 10	X	X	X			
CPP (Continuous Pleat)	0.2, 0.5, 1, 2.5, 5, 10, 15, 20, 40, 70	X			X		
HSLP (Continuous High Solids Loading)	1, 2.5, 5, 10, 15, 20, 25, 35, 70, 90, 120	X	X				
CFP (Continuous Fiber Pleat)	0.25, 0.45, 0.65, 1, 5, 10	X	X				
BVM (Bev-MAXX)	0.2, 0.45, 0.65	X					
BVR (Bev-Rite)	0.2, 0.45, 0.65, 0.8	X					
GR (Guard-Rite)	561, 562, 563, 568		X				
VNXE (Vino-MAXX E)	0.45, 0.65	X					
TR (Trap-Rite)	1, 5, 10	X	X				
PRMXE (Pur-MAXX E SG)	0.2					X	
EDXCN (Endo-MAXX CN)	0.1, 0.2	X					
IKP (Ink Jet IKP)	0.3, 0.5, 1, 3, 5, 10, 15, 20, 40, 70, 90	X					
IKS (Ink Jet Select)	0.3, 0.5, 1, 3, 5, 10, 15, 20, 40, 70, 90	X					
IKG (Ink Jet IKG)	0.5, 1, 3, 6, 10, 20, 40	X					
PESE (PES-E)	50, 100, 200, 450, 650, 800, 1200 <small>Nanometer ratings</small>						X
VM (Vent-MAXX)	-			X			
VR (Vent-Rite)	-			X			

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CARTRIDGE STYLE MICRON RATING CARTRIDGE GUIDE

See Inset Chart
For Available Options

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CARTRIDGE O-RING

S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TV	Encapsulated Fluorocarbon
K	Perfluorocarbon

Code Cartridge Style	Micron Rating	Length
MPE (Mem-Pleat E) / PRMXE (Pur-MAXX E)	0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1.2	5, 10, 20, 30, 40
MPS (Mem-Pleat S) / PRMXS (Pur-MAXX S)	0.03, 0.05, 0.10, 0.2, 0.45, 0.65	5, 10, 20, 30, 40
MPN (Mem-Pleat N) / PRMXN (Pur-MAXX N)	0.1, 0.2, 0.45, 0.65, 0.8, 1.2	5, 10, 20, 30, 40
MPCN (Mem-Pleat CN) / PRMXCN (Pur-MAXX CN)	0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1.2	5, 10, 20, 30, 40
MPT (Mem-Pleat T) / PRMXT (Pur-MAXX T)	0.1, 0.2	5, 10, 20, 30, 40
MPC (Mem-Pleat C) / PRMXCN (Pur-MAXX C)	0.1, 0.2, 0.45, 0.65, 0.8, 1.2	5, 10, 20, 30, 40
PP (Pur-Pleat) / PMX (Poly-MAXX)	1, 1.5, 2.5, 5, 10, 15, 20, 40, 70	5, 10, 20, 30, 40
PPG (Pur-Pleat G) / PMXG (Poly-MAXX G)	0.25, 0.5, 1, 2.5, 5, 8, 12, 20, 30, 50	5, 10, 20, 30, 40
SPP (Pur-Pleat Select) / SPMX (Poly-MAXX Select)	1, 1.5, 3, 5, 10, 15, 20, 40, 70, 90	5, 10, 20, 30, 40
GP (Glass-Pleat) / FMX (Fiber-MAXX)	0.8, 0.9*, 1, 2*, 3, 5, 10, 15* <small>*Not Available in FDA Grade</small>	5, 10, 20, 30, 40
GPG (Glass-Pleat G) / FMXG (Fiber-MAXX G)	0.2, 0.45, 0.65, 1, 5, 10	5, 10, 20, 30, 40
CPP (Continuous Pleat)	0.2, 0.5, 1, 2.5, 5, 10, 15, 20, 40, 70	10, 20, 30, 40
HSLP (Continuous Pleat High Solids Loading)	1, 2.5, 5, 10, 15, 20, 25, 35, 70, 90, 120	10, 20, 30, 40
CFP (Continuous Fiber Pleat)	0.25, 0.45, 0.65, 1, 5, 10	10, 20, 30, 40
GPVS (Glass Pleat Value Series)	0.25, 0.45, 1, 3, 5, 20	10, 20, 30, 40
CRB (CRB-Pleat)	1, 5, 10, 25, 50, 75, 100, 200	9.75, 10, 19.5, 20, 29.25, 29.5, 30, 39, 40
BVM (Bev-MAXX)	0.2, 0.45, 0.65	5, 10, 20, 30, 40
BVR (Bev-Rite)	0.2, 0.45, 0.65, 0.8	5, 10, 20, 30, 40
GR (Guard-Rite)	561, 562, 563, 568	5, 10, 20, 30, 40
VNXE (Vino-MAXX E)	0.45, 0.65	5, 10, 20, 30, 40
TR (Trap-Rite)	1, 5, 10	5, 10, 20, 30, 40
APC (Aqua-Pro Cartridge)	CB	5, 10, 20, 30, 40
MPE (Mem-Pleat E SG) / PRMXE (Pur-MAXX E SG)	0.2	5, 10, 20, 30, 40
EDXCN (Endo-MAXX CN)	0.1, 0.2	5, 10, 20, 30, 40
IKP (Ink Jet IKP)	0.3, 0.5, 1, 3, 5, 10, 15, 20, 40, 70, 90	5, 10, 20, 30, 40
IKS (Ink Jet Select)	0.3, 0.5, 1, 3, 5, 10, 15, 20, 40, 70, 90	5, 10, 20, 30, 40
IKG (Ink Jet IKG)	0.5, 1, 3, 6, 10, 20, 40	5, 10, 20, 30, 40
PESE (PES-E)	50, 100, 200, 450, 650, 800, 1200 <small>Nanometer ratings</small>	5, 10, 20, 30, 40
VM (Vent-MAXX)	N/A	5, 10, 20, 30
VR (Vent-Rite)	N/A	5, 10, 20, 30

GF - Borosilicate Microglass
MF - Polypropylene Microfiber

Code Cartridge Style	Code Prefilter	Micron Rating	Code Membrane
DP (Duo-Pleat) / DMX (Duo-MAXX) <small>Polyethersulfone Membrane</small>	GF, MF	0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1.2	E (Polyethersulfone)
DP (Duo-Pleat) / DMX (Duo-MAXX) <small>Nylon Membrane</small>	GF, MF	0.1, 0.2, 0.45, 0.65, 0.8, 1.2	N (Nylon)
DP (Duo-Pleat) / DMX (Duo-MAXX) <small>Polypropylene Membrane</small>	GF, MF	0.03, 0.05, 0.1, 0.2, 0.45, 0.65	P (Polypropylene)
DP (Duo-Pleat) / DMX (Duo-MAXX) <small>Cellulose Acetate Membrane</small>	GF, MF	0.1, 0.2, 0.45, 0.65, 0.8, 1.2	C (Cellulose Acetate)

Part Number Assembly

Describes the filtration product.

Product Code

Vent-MAXX

VM

Nominal length of the cartridge.

Lengths

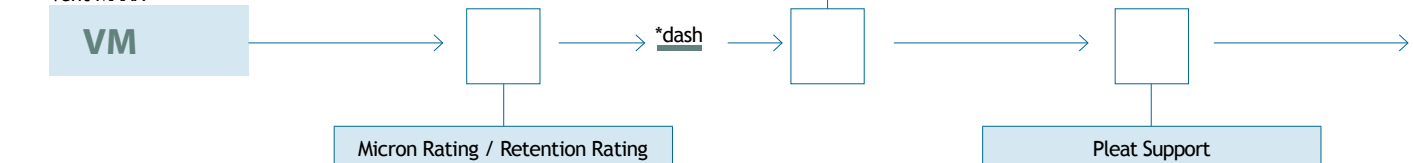
*dash

Micron Rating / Retention Rating

Indicates the ability of the filter's media to remove contaminants by the size of particles it is exposed to.

Pleat Support

Describes material which provides rigidity and support to filter media against liquid or gas stream.



Cartridge Ordering Guide - Quick Glance

Pleat Support	End Cap	Gasket/O-Ring Material	Cartridge Grade	Options
PE, PP	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	-, 1, 2, 5	I, DIF, APH, SP
N/A	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	-, 1, 5	I, DIF, SP
PE, PP	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	-, 1, 2, 5	I, DIF, APH, SP
PE, PP	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	-, 1, 2, 5	I, DIF, APH, SP
N/A	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	-, 2	I, DIF, SP
PE, PP	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	-, 1, 2	I, DIF, APH, SP
N/A	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	-, 1, 2	I, DIF, SP
N/A	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	-, 1, 2	I, DIF, SP
N/A	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	-, 1, 2	I, DIF
PE, PP	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	-, 1, 2	I, DIF, APH, SP
PE, PP	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	-, 1, 2	I, DIF, APH, SP
N/A	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	-, 5	I, MC
N/A	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	-, 1	I, MC
N/A	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	-, 1	I, MC
PE	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	N/A	PE
N/A	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	N/A	MC, APH
PP	C3, C6, C7, C8	S, E	N/A	N/A
PP	C1, C3, C6, C7, C8	S, E	N/A	N/A
PE, PP	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	1	DIF
PP	C3, C6, C7, C8	S, E	N/A	N/A
PP	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	-, 1	I, MC
N/A	C3, C6, C7, C8	S, E	N/A	N/A
PP	C3, C6, C7, C8	S, B, V, E	SG	N/A
PE, PP	C3, C6, C7, C8	S, E	N/A	N/A
PP	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	N/A	I
PP	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	N/A	I
PE, PP	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	N/A	I, APH
PP	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	E	I, T
N/A	C3, C6, C7, C8	S, V	2	N/A
N/A	C3, C6, C7, C8	S, V	2	N/A

C1 - Double Open Ends
 C2 - 213/Recessed Cup
 C3 - Flat/222
 C4 - Single Open End/Flat
 C5 - Recessed Cup/222
 C6 - Flat/226
 C7 - Fin/226
 C8 - Fin/222

S - Silicone
 B - Buna N
 V - Fluorocarbon
 E - EPDM
 TF - PTFE Foam
 TH - PTFE Hard
 TV - Encapsulated Fluoro.
 TS - Encapsulated Silicone

- - General
 1 - FDA Grade
 2 - Pharmaceutical
 5 - Water
 E - Electronic
 SG - Sterilizing Grade

I - 316 Stainless Steel Insert
 DIF - DI Flush
 APH - All Polyester Hardware
 MC - Molded Cage
 PE - Polyester Cage/Core/End Caps
 T - Integrity Tested

PE - Polyester
 PP - Polypropylene

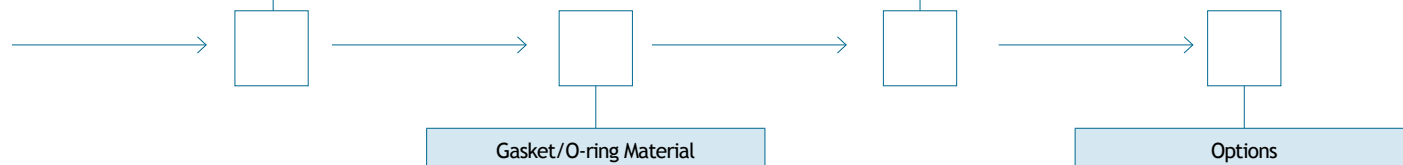
Pleat	Length	End Cap	Gasket/O-Ring Material	Cartridge Grade	Options
PE, PP	5, 10, 20, 30, 40	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	N/A	I, DIF
PE, PP	5, 10, 20, 30, 40	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	N/A	I, DIF
PE, PP	5, 10, 20, 30, 40	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	N/A	I, DIF
PE, PP	5, 10, 20, 30, 40	C1, C2, C3, C4, C5, C6, C7, C8	S, B, V, E, TF, TH, TV, TS	N/A	I, DIF

Industry standard, molded end cap configurations which correspond to vessel specifications.

End Cap Configuration

Optional rating for some cartridges based on industry (pharmaceutical, water grade, etc) requirements.

Cartridge Grade



Options will vary based on chemical compatibility with filtrate.

Optional features such as Stainless Steel Insert, DI Flush, etc. Options will vary from cartridge to cartridge.

End Cap Configurations

Code 1 (C1)
Double Open Ends



Code 5 (C5)
Recessed Cup/222



Code 2 (C2)
213/Recessed Cup



Code 6 (C6)
Flat/226



Code 3 (C3)
Flat/222



Code 7 (C7)
Fin/226



Code 4 (C4)
Single Open End/Flat Closed End



Code 8 (C8)
Fin/222

