The STRAINRITE Companies | World Class Filtration

PROCESS FILTRATION 2021 MASTER CATALOG

Cartridges p.2

Madd MAXX p.72

Filter Bags p.96

Vessels & Housing p.124

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%

ORDER GUIDE

MPE / PRMXE	0.1	–	10	PP	C1	S	2	DIF	MPE0.1-10PPC1S2DIF
	MICRON RATING		CARTRIDGE LENGTH	PLEAT SUPPORT	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	CARTRIDGE OPTIONS	

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

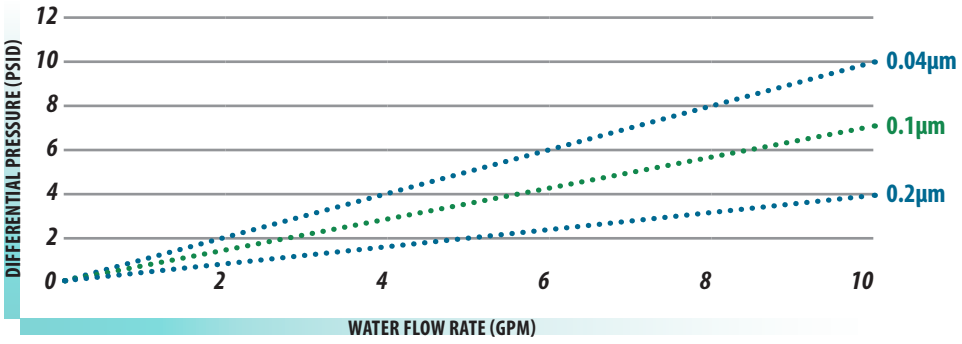
Thermal Bond

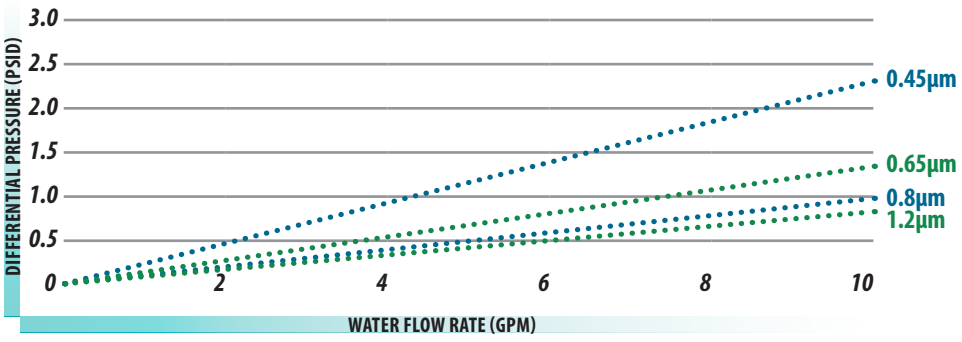
OUTSIDE DIAMETER	APPROXIMATE SURFACE AREA
MPE: 2.55" (6.48cm) | PRMXE: 2.7" (6.87cm)	6.8 square feet per 10" equivalent

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)

PERFORMANCE CHARACTERISTICS





ORDER OPTIONS

CARTRIDGE

MPE	Mem-Pleat E (2.55")
PRMXE	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	Polypropylene
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

CARTRIDGE GRADE

-	General
1	FDA Grade
2	Pharmaceutical
5	Water

CARTRIDGE OPTIONS

I	316 SS Insert
DIF	DI Flush
APH	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%

ORDER GUIDE

MPS / PRMXS	0.45	–	10	C1	S	2	DIF	MPS0.45-10C1S2DIF
	MICRON RATING		CARTRIDGE LENGTH	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	CARTRIDGE OPTIONS	

ABSOLUTE RATED RETENTION

0.03, 0.05, 0.1, 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

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

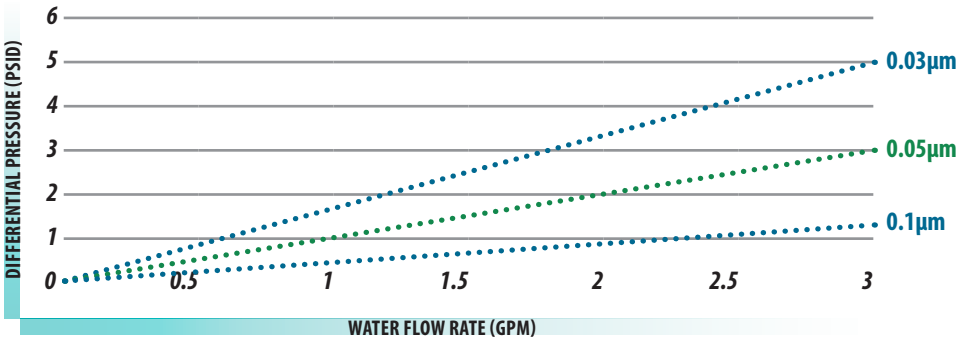
Thermal Bond

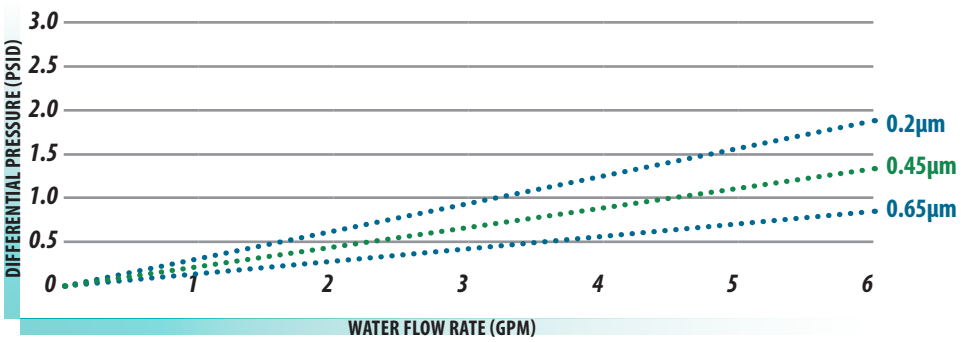
OUTSIDE DIAMETER	APPROXIMATE SURFACE AREA
MPS: 2.55" (6.48cm) | PRMXS: 2.7" (6.87cm)	6.8 square feet per 10" equivalent

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	Mem-Pleat S (2.55")
PRMXS	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	316 SS Insert
DIF	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%

ORDER GUIDE

MPN / PRMXN	0.1	–	10	PP	C1	S	2	DIF	MPN0.1-10PPC1S2DIF
	MICRON RATING		CARTRIDGE LENGTH	PLEAT SUPPORT	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	CARTRIDGE OPTIONS	

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

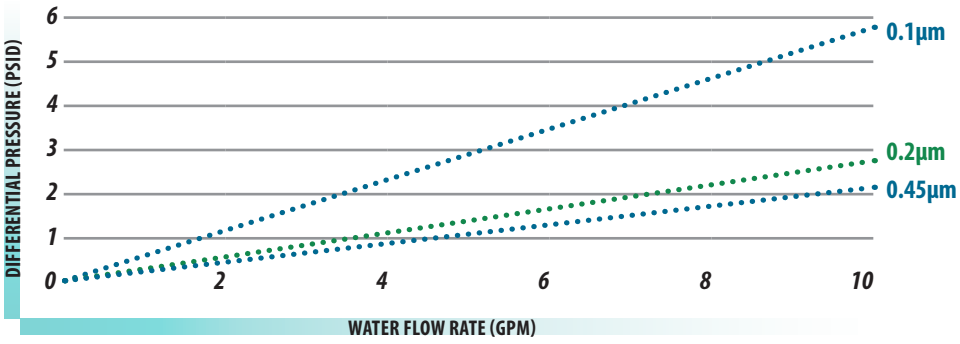
Thermal Bond

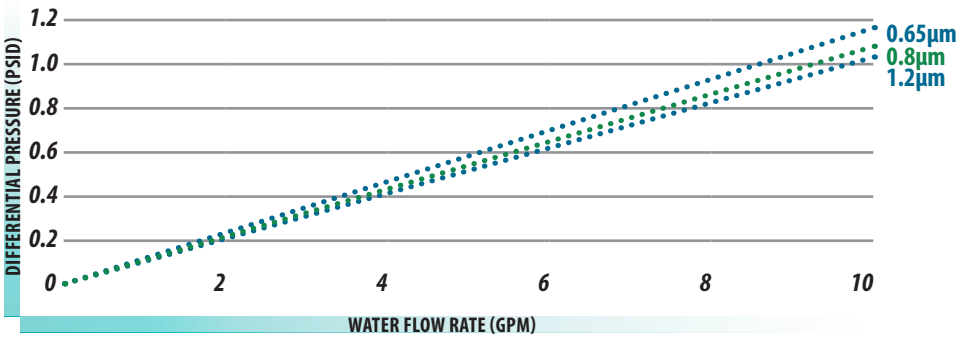
OUTSIDE DIAMETER	APPROXIMATE SURFACE AREA
MPN: 2.55" (6.48cm) | PRMXN: 2.7" (6.87cm)	6.8 square feet per 10" equivalent

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)

PERFORMANCE CHARACTERISTICS





ORDER OPTIONS

CARTRIDGE

MPN	Mem-Pleat N (2.55")
PRMXN	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	Polypropylene
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

CARTRIDGE GRADE

-	General
1	FDA Grade
2	Pharmaceutical
5	Water

CARTRIDGE OPTIONS

I	316 SS Insert
DIF	DI Flush
APH	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 cartriges 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%

ORDER GUIDE

MPCN / PRMXCN	0.1	–	10	PP	C1	S	2	DIF	MPCN0.10-10PPC1S2DIF
	MICRON RATING		CARTRIDGE LENGTH	PLEAT SUPPORT	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	CARTRIDGE OPTIONS	

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

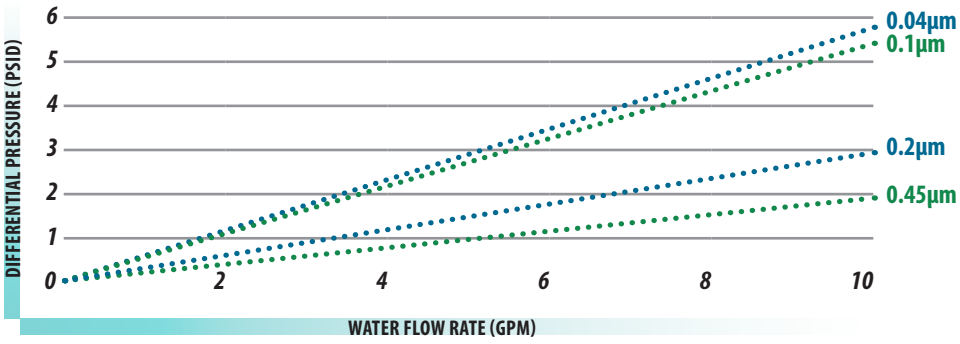
Thermal Bond

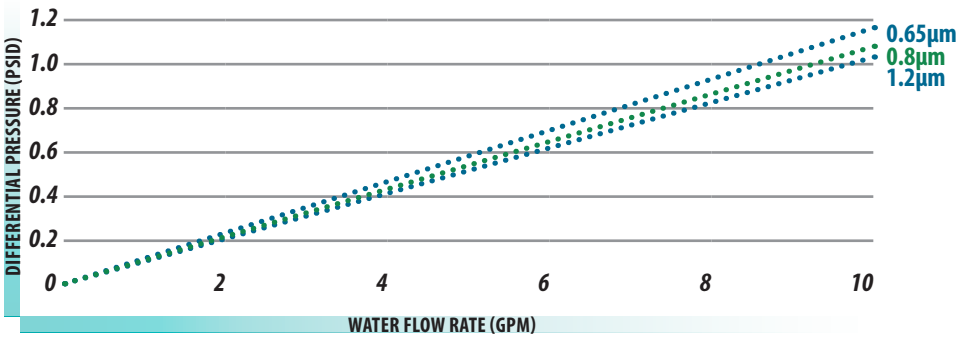
OUTSIDE DIAMETER	APPROXIMATE SURFACE AREA
MPCN: 2.55" (6.48cm) | PRMXCN: 2.7" (6.87cm)	6.8 square feet per 10" equivalent

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)

PERFORMANCE CHARACTERISTICS





ORDER OPTIONS

CARTRIDGE

MPCN	Mem-Pleat CN (2.55")
PRMXCN	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	Polypropylene
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

CARTRIDGE GRADE

-	General
1	FDA Grade
2	Pharmaceutical
5	Water

CARTRIDGE OPTIONS

I	316 SS Insert
DIF	DI Flush
APH	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%

ORDER GUIDE

MPT / PRMXT	0.2	–	10	C1	E	2	I	MPT0.20-10C1E2I
	MICRON RATING		CARTRIDGE LENGTH	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	CARTRIDGE OPTIONS	

ABSOLUTE RATED RETENTION

0.1, 0.2, 1, 3

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

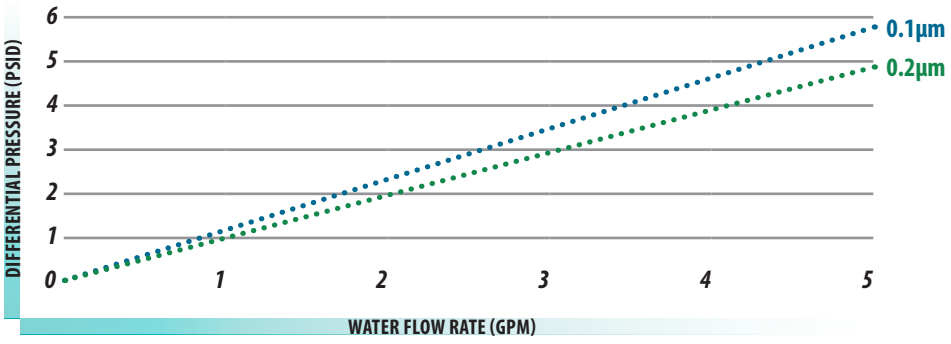
Thermal Bond

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	Mem-Pleat T (2.55")
PRMXT	Pur-MAXX T (2.7")

MICRON RATINGS

0.1, 0.2, 1, 3

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
2	Pharmaceutical

CARTRIDGE OPTIONS

I	316 SS Insert
DIF	DI Flush

SPECIAL PLEAT OPTION

SP	Special Pleat (PRMXT 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 Strainrites' 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

ORDER GUIDE

DP DMX	GF	0.04	–	10	E	PP	10	C1	S	-	DIF	→
	PRE-FILTER MATERIAL	MICRON RATING		CARTRIDGE LENGTH	MEMBRANE MEDIA	PLEAT SUPPORT	CARTRIDGE LENGTH	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	CARTRIDGE OPTIONS	**DPGF0.04-10EPP10C1SDIF**

ABSOLUTE RATED RETENTION

Polyethersulfone: 0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1, 1.2, 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
Boroslicate Microglass Polypro. Microfiber	Polyethersulfone Nylon Polysulfone	Polypropylene Polyester	Polypropylene Polyester	Polypropylene Polyester	Thermal Bond

SEALS

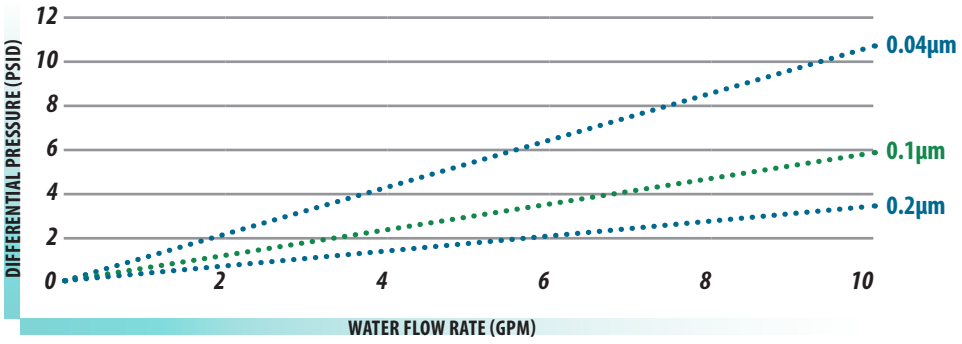
Buna N | Fluorocarbon | EPDM | Silicone | FEP Encapsulated Fluorocarbon | FEP Encapsulated Silicone | PTFE Foam | PTFE Hard

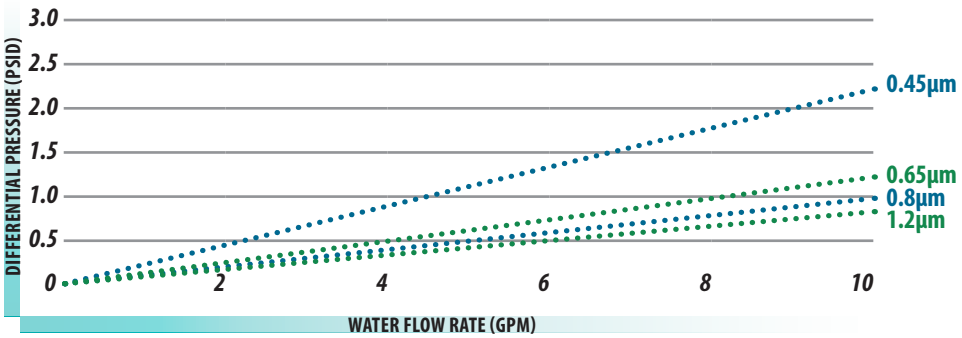
OUTSIDE DIAMETER	APPROXIMATE SURFACE AREA	
DP: 2.55" (6.48cm) | DMX: 2.7" (6.87cm)	Polypropylene Microfiber: 6 square feet per 10" equivalent	Boroslicate Microglass: 5 square feet per 10" equivalent

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	Duo-Pleat (2.55")
DMX	Duo-MAXX (2.7")

PRE-FILTER MATERIAL

GF	Borosilicate Microglass
MF	Polypropylene Microfiber

MICRON RATINGS

E: 0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1,1.2, 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	Polyethersulfone
N	Nylon
S	Polysulfone

PLEAT SUPPORT

PP	Polypropylene
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

CARTRIDGE GRADE

-	General
1	FDA Grade
2	Pharmaceutical

CARTRIDGE OPTIONS

I	316 SS Insert
DIF	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%

ORDER GUIDE

PP / PMX	1	–	10	C1	S	1	DIF	PP1-10C1S1DIF
	MICRON RATING		CARTRIDGE LENGTH	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	CARTRIDGE OPTIONS	

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)

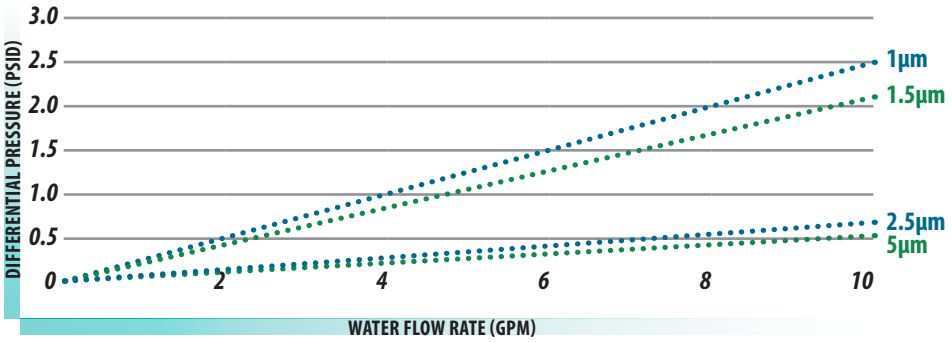
LENGTHS

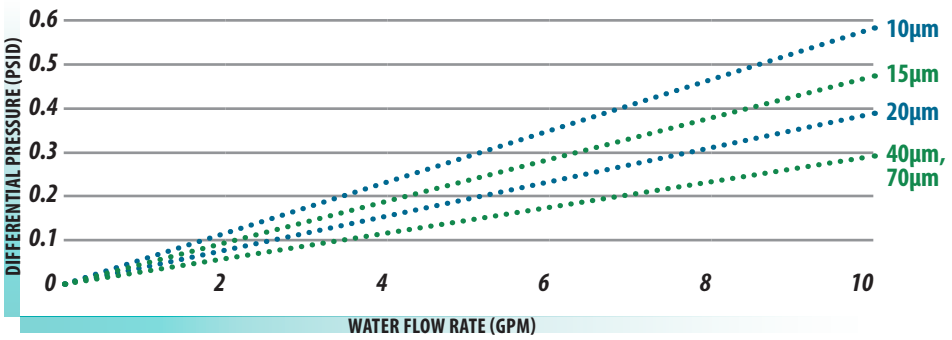
5 inch (12.7 cm) | 10 inch (25.4 cm) | 20 inch (50.8 cm) | 30 inch (76.2 cm) | 40 inch (102 cm)

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	Pur-Pleat (2.55")
PMX	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	316 SS Insert
DIF	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%

ORDER GUIDE

PPG / PMXG	0.25	–	10	C1	S	1	DIF	PPG0.25-10C1S1DIF
	MICRON RATING		CARTRIDGE LENGTH	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	CARTRIDGE OPTIONS	

RETENTION RATING

0.25, 0.5, 1, 2.5, 5, 8, 12, 20, 30, 50

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 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)

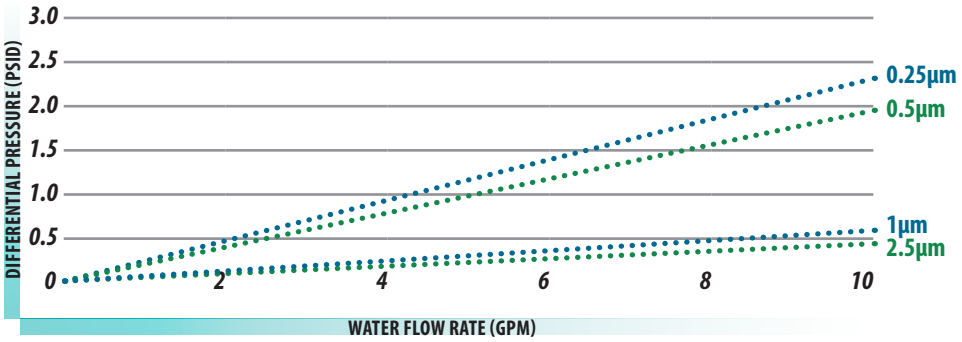
LENGTHS

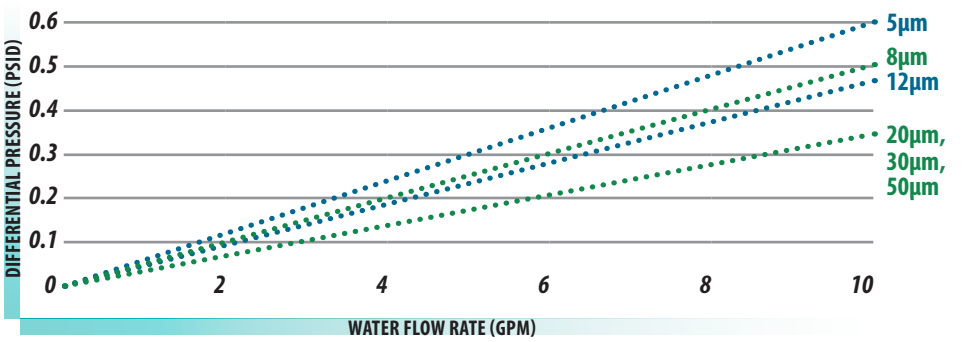
5 inch (12.7 cm) | 10 inch (25.4 cm) | 20 inch (50.8 cm) | 30 inch (76.2 cm) | 40 inch (102 cm)

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

PERFORMANCE CHARACTERISTICS





ORDER OPTIONS

CARTRIDGE

PPG	Pur-Pleat G (2.55")
PMXG	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	316 SS Insert
DIF	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

ORDER GUIDE

SPP SPMX	→	1	–	10	→	C1	→	S	→	1	→	DIF	→	SPP1-10C1S1DIF
		MICRON RATING		CARTRIDGE LENGTH		END CAP CONFIGURATION		GASKET / O-RING MATERIALS		CARTRIDGE GRADE		CARTRIDGE OPTIONS		

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)

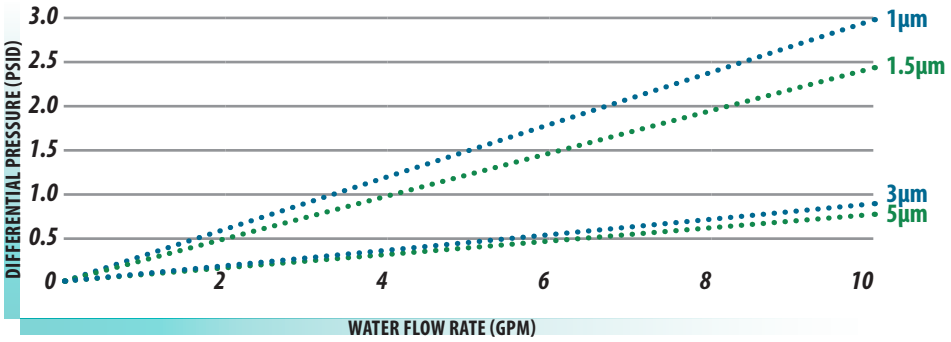
LENGTHS

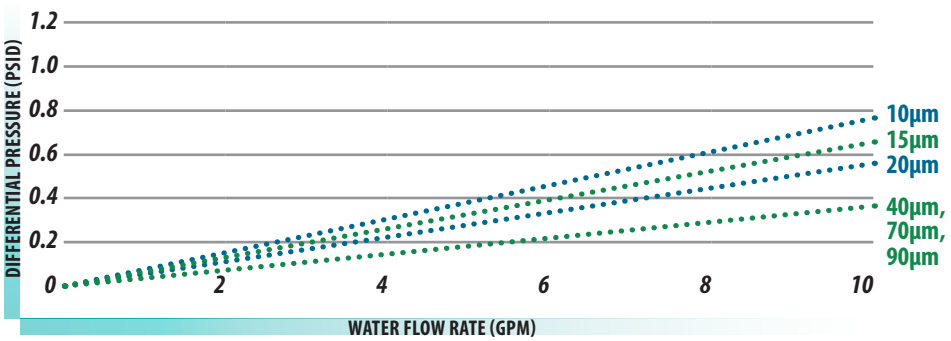
5 inch (12.7 cm) | 10 inch (25.4 cm) | 20 inch (50.8 cm) | 30 inch (76.2 cm) | 40 inch (102 cm)

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

PERFORMANCE CHARACTERISTICS





ORDER OPTIONS

CARTRIDGE

SPP	Pur-Pleat Select (2.55")
SPMX	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	316 SS Insert
DIF	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%

ORDER GUIDE

GP FMX	0.8	–	10	PP	C3	B	1	APH	GP0.8-10PPC3B1APH
	MICRON RATING		CARTRIDGE LENGTH	PLEAT SUPPORT	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	CARTRIDGE OPTIONS	

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)

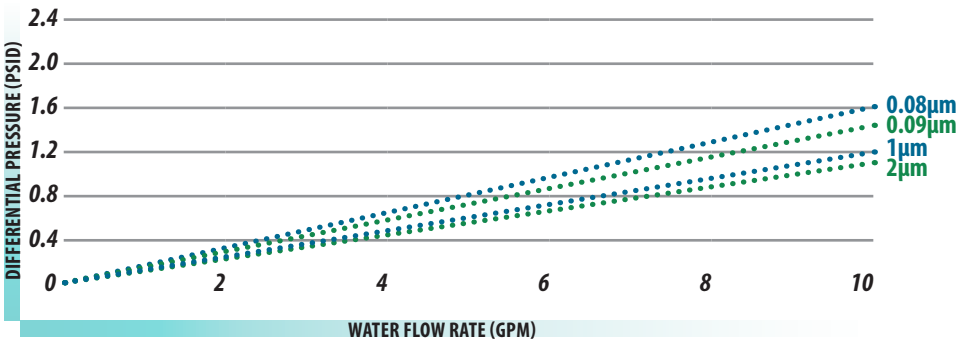
LENGTHS

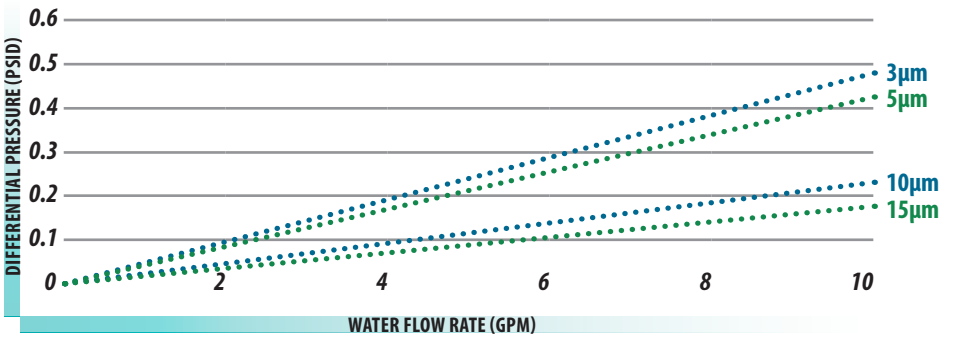
5 inch (12.7 cm) | 10 inch (25.4 cm) | 20 inch (50.8 cm) | 30 inch (76.2 cm) | 40 inch (102 cm)

EFFICIENCY

GP0.8/FMX0.8 — 99.98% @ 0.8µm | 90.00% @ 0.25µm	GP3/FMX3 — 99.98% @ 3µm | 90.00% @ 1.5µm
GP0.9/FMX0.9 — 99.98% @ 0.9µm | 90.00% @ 0.45µm	GP5/FMX5 — 99.98% @ 5µm | 90.00% @ 2.5µm
GP1/FMX1 — 99.98% @ 1µm | 90.00% @ 0.65µm	GP10/FMX10 — 99.98% @ 10µm | 90.00% @ 5µm
GP2/FMX2 — 99.98% @ 2µm | 90.00% @ 1µm	GP15/FMX15 — 99.98% @ 15µm | 90.00% @ 10µm

PERFORMANCE CHARACTERISTICS





ORDER OPTIONS

CARTRIDGE

GP	Glass-Pleat (2.55")
FMX	Fiber-MAXX (2.7")

MICRON RATINGS

0.8*, 0.9, 1*, 2, 3*, 5*, 10*, 15

*Available in FDA grade

CARTRIDGE LENGTH

5, 10, 20, 30, 40

PLEAT SUPPORT

PP	Polypropylene
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

CARTRIDGE GRADE

-	General
1	FDA Grade
2	Pharmaceutical

CARTRIDGE OPTIONS

I	316 SS Insert
DIF	DI Flush
APH	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

ORDER GUIDE

GPG / FMXG	0.2	–	10	PP	C3	S	1	DIF	GPG0.2-10PPC3S1DIF
	MICRON RATING		CARTRIDGE LENGTH	PLEAT SUPPORT	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	CARTRIDGE OPTIONS	

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)

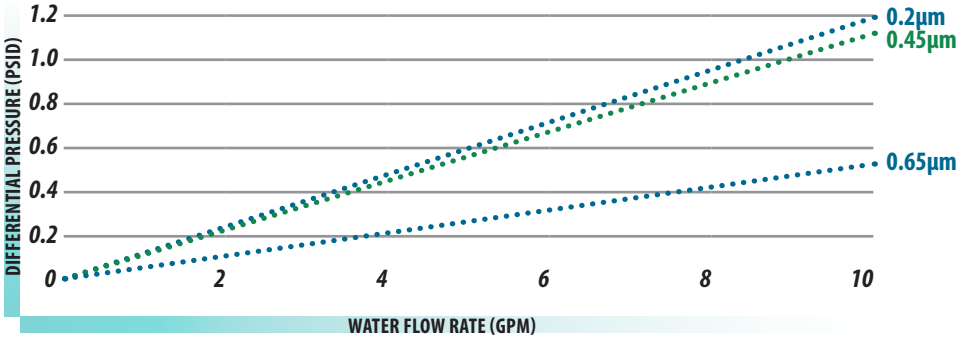
LENGTHS

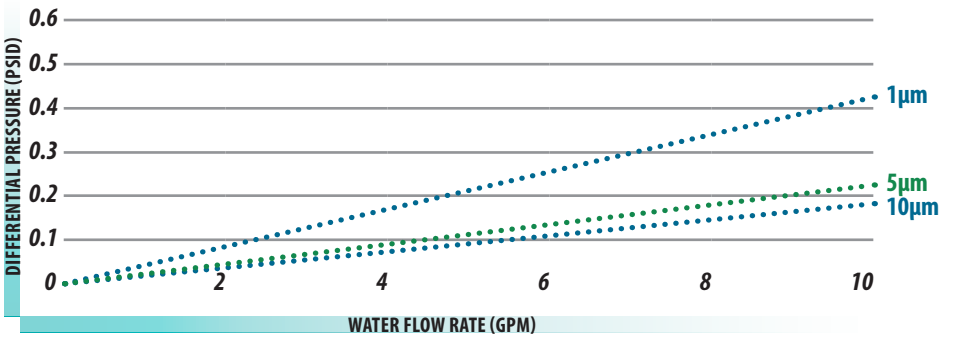
5 inch (12.7 cm) | 10 inch (25.4 cm) | 20 inch (50.8 cm) | 30 inch (76.2 cm) | 40 inch (102 cm)

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	Glass-Pleat (2.55")
FMXG	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	Polypropylene
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

CARTRIDGE GRADE

-	General
1	FDA Grade
2	Pharmaceutical

CARTRIDGE OPTIONS

I	316 SS Insert
DIF	DI Flush
APH	All Polyester Hardware

SPECIAL PLEAT OPTION

SP	Special Pleat (FMXG only) Not available in FDA grade

Glass-PLEAT GA & Fiber-MAXX GA

Nominally Rated Microglass Depth with Acrylic Binder

- ▶ 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.

The Fiber-MAXX GA now offers a Special Pleat option which provides expected surface area improvements of as much as 45%. 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
- ▶ ACRYLIC BINDER
- ▶ THERMALLY BONDED CONSTRUCTION ELIMINATES PARTICLE BYPASS

SPECIAL PLEAT OPTION:

- ▶ OPTIMIZED PLEAT GEOMETRY
- ▶ EXPECTED SURFACE AREA IMPROVEMENTS OF AS MUCH AS 45%

ORDER GUIDE

GPGA FMXGA	0.2	–	10	PP	C3	S	1	DIF	GPGA0.2-10PPC3S1DIF
	MICRON RATING		CARTRIDGE LENGTH	PLEAT SUPPORT	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	CARTRIDGE OPTIONS	

RETENTION RATING

0.2, 0.45, 1, 3, 5, 10, 20

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 hardware meets 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)

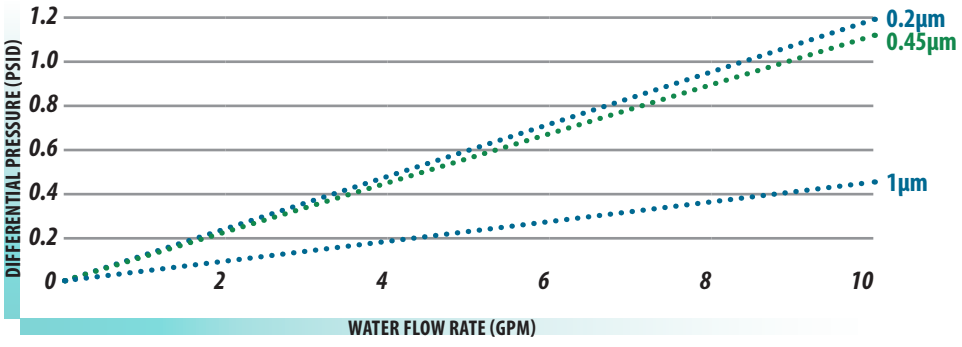
LENGTHS

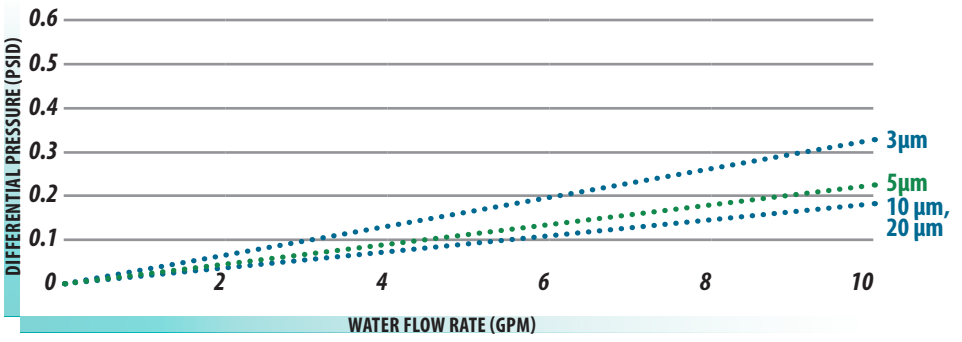
5 inch (12.7 cm) | 10 inch (25.4 cm) | 20 inch (50.8 cm) | 30 inch (76.2 cm) | 40 inch (102 cm)

EFFICIENCY

GPGA0.2/FMXGA0.2 — BETA5000 @ 0.2µm
GPGA0.45/FMXGA0.45 — BETA5000 @ 0.45µm
GPGA1/FMXGA1 — BETA5000 @ 1µm
GPGA3/FMXGA3 — BETA5000 @ 3µm
GPGA5/FMXGA5 — BETA5000 @ 5µm
GPGA10/FMXGA10 — BETA5000 @ 10µm
GPGA20/FMXGA20 — BETA5000 @ 20µm

PERFORMANCE CHARACTERISTICS





ORDER OPTIONS

CARTRIDGE

GPGA FMXGA	Glass-Pleat A (2.55") Fiber-MAXX A (2.7")

MICRON RATINGS

0.2, 0.45, 1, 3, 5, 10, 20

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	General FDA Grade (1, 3 micron only)

CARTRIDGE OPTIONS

I	316 SS Insert
DIF	DI Flush
APH	All Polyester Hardware

SPECIAL PLEAT OPTION

SP	Special Pleat (FMXGA 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.

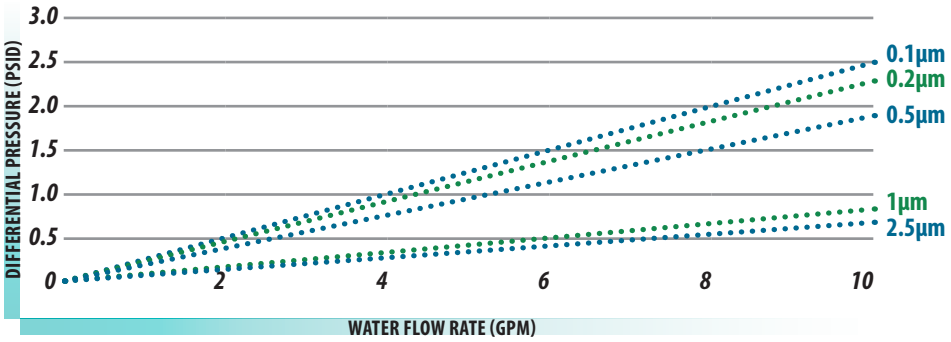
- ▶ CPP ELEMENTS HAVE BETWEEN 4-6 FT^2 OF SURFACE AREA PER 10″ EQUIVALENT
- ▶ WATER GRADE ELEMENTS HAVE BETWEEN 3-4.5 FT^2 OF SURFACE AREA PER 10″ EQUIVALENT
- ▶ HIGH EFFICIENCY MEDIA PROVIDES RELIABLE, CONSISTENT AND REPEATABLE FILTRATION RESULTS
- ▶ HIGH SURFACE AREA PLEAT DESIGN FOR GREATER SURFACE 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

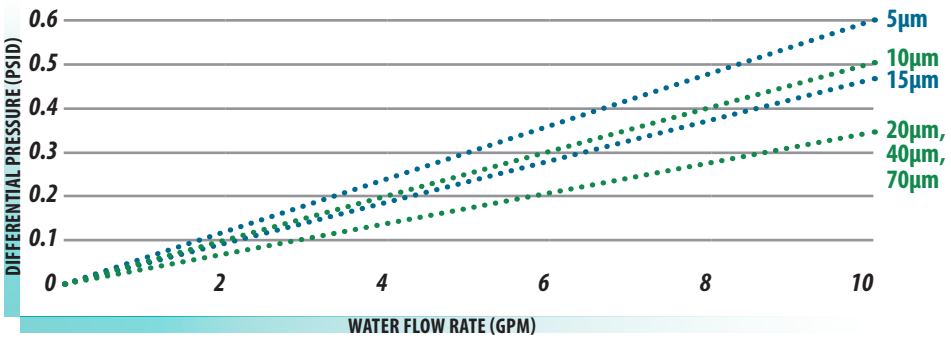
ORDER GUIDE

CPP	10	–	20	C4	V	5	MC	CPP10-20C4V5MC
	MICRON RATING		CARTRIDGE LENGTH	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	CARTRIDGE OPTIONS	

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			
Single packaging available. 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
5	Water Grade

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

ORDER GUIDE

HSLP	10	–	10	C1	B	1	I	HSLP10-10C1B1I
	MICRON RATING		CARTRIDGE LENGTH	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	CARTRIDGE OPTIONS	

RETENTION RATING

0.2, 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

Single packaging available. 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)

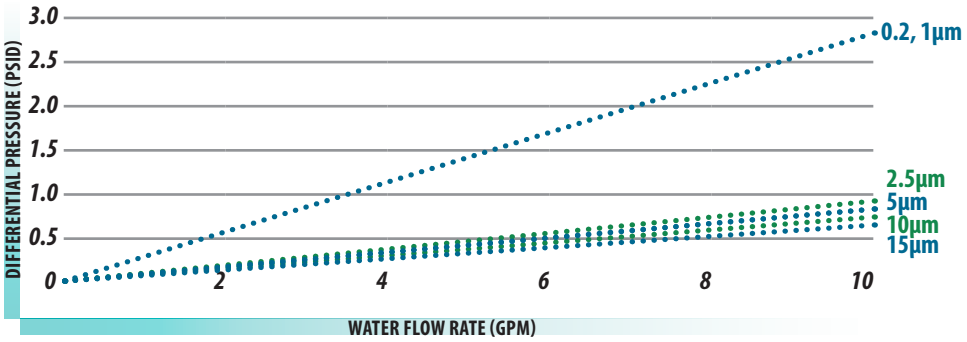
LENGTHS

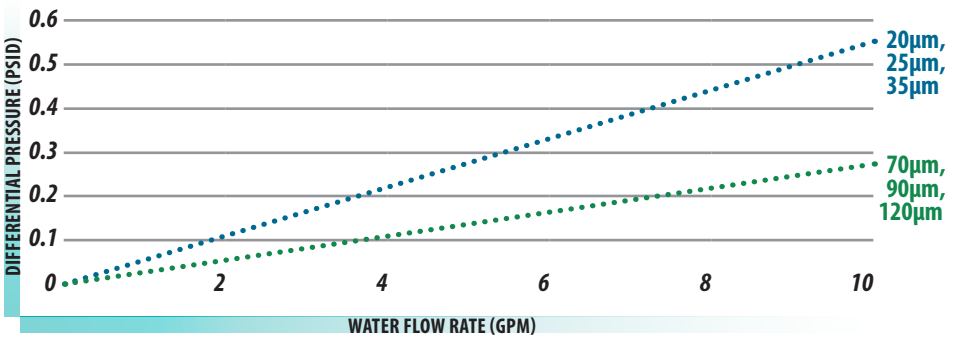
10 inch (25.4 cm) | 20 inch (50.8 cm) | 30 inch (76.2 cm) | 40 inch (102 cm)

EFFICIENCY

HSLP0.2 — 99.98% @ 0.2µm	HSLP10 — 99.98% @ 10µm	HSLP35 — 99.98% @ 35µm
HSLP1 — 99.98% @ 1µm	HSLP15 — 99.98% @ 15µm	HSLP70 — 99.98% @ 70µm
HSLP2.5 — 99.98% @ 2.5µm	HSLP20 — 99.98% @ 20µm	HSLP90 — 99.98% @ 90µm
HSLP5 — 99.98% @ 5µm	HSLP25 — 99.98% @ 25µm	HSLP120 — 99.98% @ 120µm

PERFORMANCE CHARACTERISTICS





ORDER OPTIONS

CARTRIDGE

HSLP

MICRON RATINGS

0.2, 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.

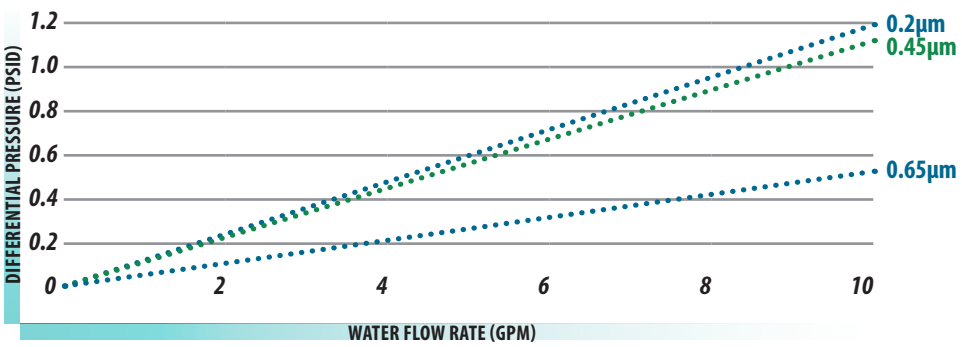
- ▶ HIGH EFFICIENCY MEDIA PROVIDES RELIABLE, CONSISTENT AND REPEATABLE FILTRATION RESULTS
- ▶ HIGH SURFACE AREA PLEAT DESIGN FOR GREATER SURFACE AREA ENSURES LONGER SERVICE LIFE, FEWER CHANGE OUTS AND REDUCED OPERATING COSTS PER CARTRIDGE
- ▶ FDA TITLE 21 COMPLIANT FOR FOOD AND BEVERAGE CONTACT
- ▶ THERMALLY BONDED CONSTRUCTION TO ENSURE A CLEANER FILTRATE

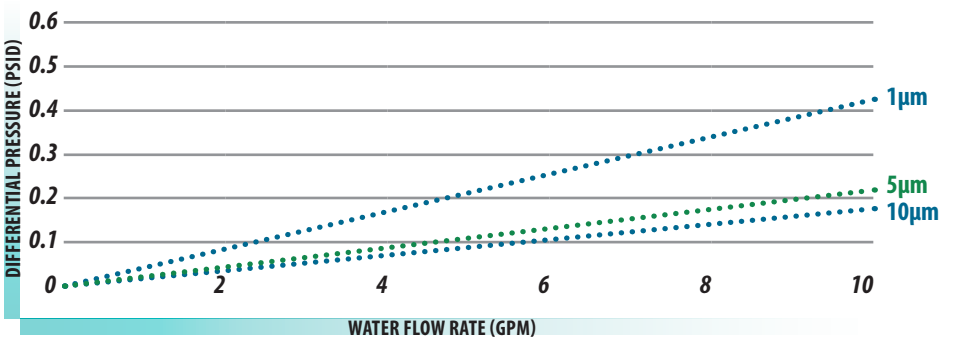
ORDER GUIDE

CFP	0.2	–	20	C1	S	1	I	CFP0.2-20C1S1I
	MICRON RATING		CARTRIDGE LENGTH	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	CARTRIDGE OPTIONS	

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			
Single packaging available. 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

-	General
1	FDA Grade

CARTRIDGE OPTIONS

I	316 SS Insert
MC	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.

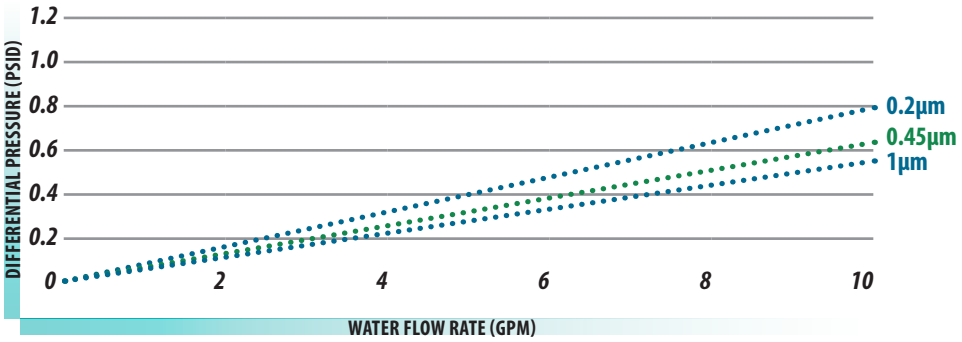
- RECOMMENDED WHEN CHEMICAL COMPATIBILITY AND TEMPERATURE ARE CRITICAL FACTORS
- HIGH EFFICIENCY MEDIA PROVIDES RELIABLE, CONSISTENT AND REPEATABLE FILTRATION RESULTS
- HIGH SURFACE AREA PLEAT DESIGN FOR GREATER SURFACE AREA ENSURES LONGER SERVICE LIFE, FEWER CHANGE OUTS AND REDUCED OPERATING COSTS PER CARTRIDGE
- THERMALLY BONDED CONSTRUCTION TO ENSURE A CLEANER FILTRATE

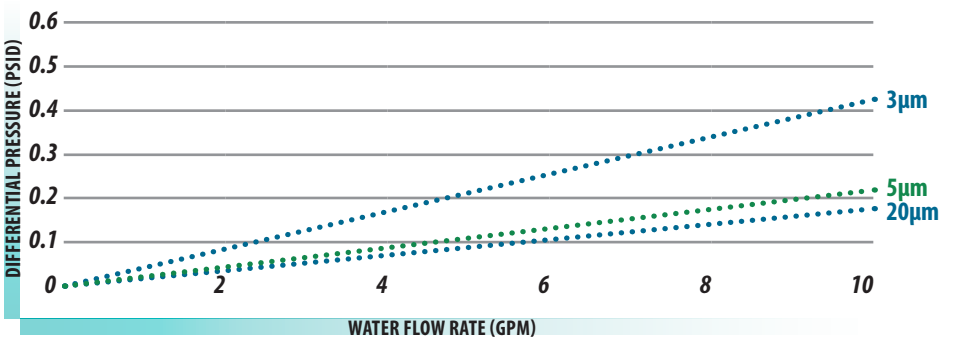
ORDER GUIDE

GPVS → 0.2 (MICRON RATING) — 20 (CARTRIDGE LENGTH) → PE (PLEAT SUPPORT) → C1 (END CAP CONFIGURATION) → S (GASKET / O-RING MATERIALS) → PE (CAGE / CORE / END CAPS) → **GPVS0.2-20PEC1SPE**

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			
Single packaging available. 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

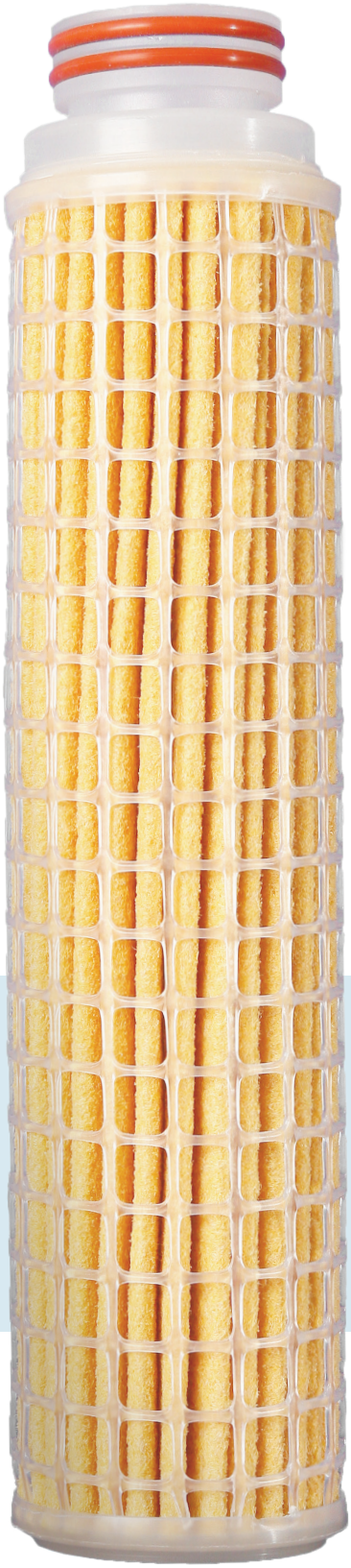
Continuous Resin-Bonded Depth

- 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 ft^2 of surface area per 10" segment, as compared to approximately 0.5 ft^2 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

ORDER GUIDE

CRB	1	–	20	C1	S	MC	CRB1-20C1SMC
	MICRON RATING		CARTRIDGE LENGTH	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE OPTIONS	

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

Single packaging available. 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

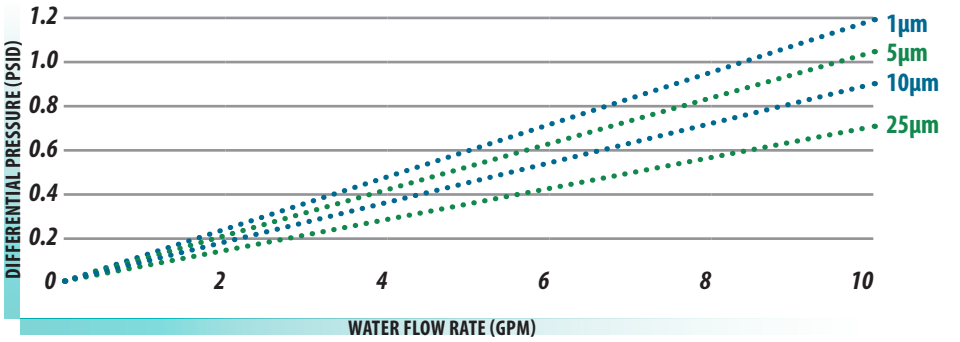
Buna N | Fluorocarbon | EPDM | Silicone | FEP Encapsulated Fluorocarbon | FEP Encapsulated Silicone | PTFE Foam | PTFE Hard

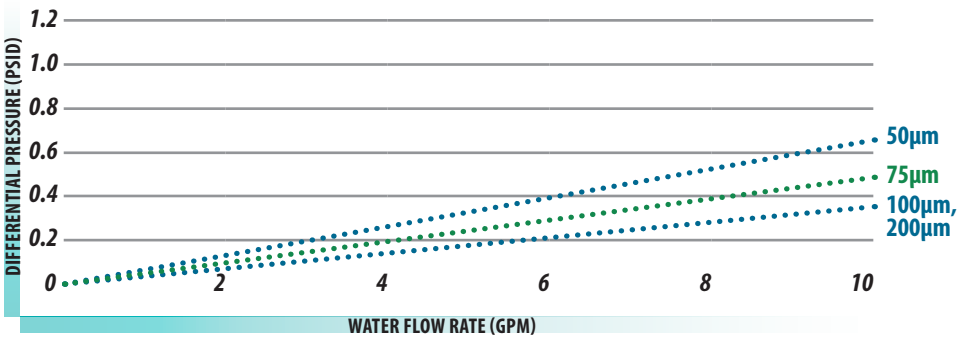
OUTSIDE DIAMETER	APPROXIMATE SURFACE AREA
EXTRUDED CAGE: 2.55" (6.48cm) | MOLDED CAGE: 2.68" (6.81cm)	3 SQUARE FEET PER 10"

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

Bev-MAXX

Polyethersulfone for Food & Beverage Sterilization

► FOOD AND BEVERAGE APPLICATIONS

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

ORDER GUIDE

BVM → 0.2 (MICRON RATING) – 20 (CARTRIDGE LENGTH) → PP (PLEAT SUPPORT) → C3 (END CAP CONFIGURATION) → E (GASKET / O-RING MATERIALS) → **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
Oenococcus oeni		$\geq 10^7$	
Lactobacillus hilgardii		$\geq 10^7$	
Saccharomyces cerevisiae		$\geq 10^7$	$\geq 10^7$
Brevundimonas diminuta	$\geq 10^7$		

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	Flat/222
C6	Flat/226
C7	Fin/226
C8	Fin/222

GASKET / O-RING MATERIAL

S	Silicone
E	EPDM

Bev-Rite

Polyethersulfone for Food & Bioburden Reduction

► FOOD AND BEVERAGE APPLICATIONS

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

ORDER GUIDE

BVR	→	0.8	–	10	→	PP	→	C1	→	S	→	BVR0.8-10PPC1S
		MICRON RATING		CARTRIDGE LENGTH		PLEAT SUPPORT		END CAP CONFIGURATION		GASKET / O-RING MATERIALS		

ABSOLUTE RATED RETENTION			
0.2, 0.45, 0.65, 0.8			
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	

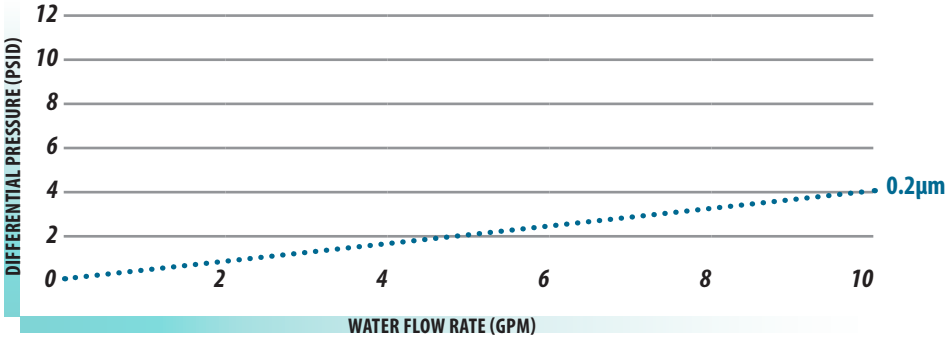
CONSTRUCTION METHOD	OUTSIDE DIAMETER	APPROXIMATE SURFACE AREA
Thermal Bond	2.7" (6.87cm)	7 square feet per 10" equivalent

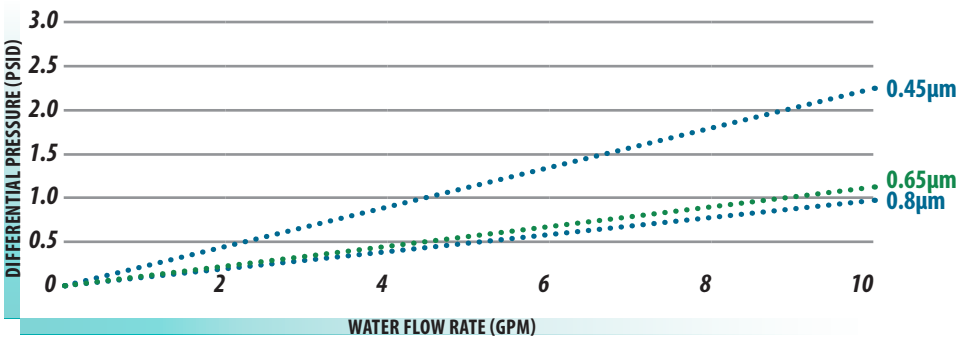
LENGTHS
5 inch (12.7 cm) | 10 inch (25.4 cm) | 20 inch (50.8 cm) | 30 inch (76.2 cm) | 40 inch (102 cm)

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	Silicone
E	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

ORDER GUIDE

GR	561	–	10	PP	C1	S	1	DIF	GR561-10PPC1S1DIF
	MICRON RATING		CARTRIDGE LENGTH	PLEAT SUPPORT	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	CARTRIDGE OPTIONS	

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

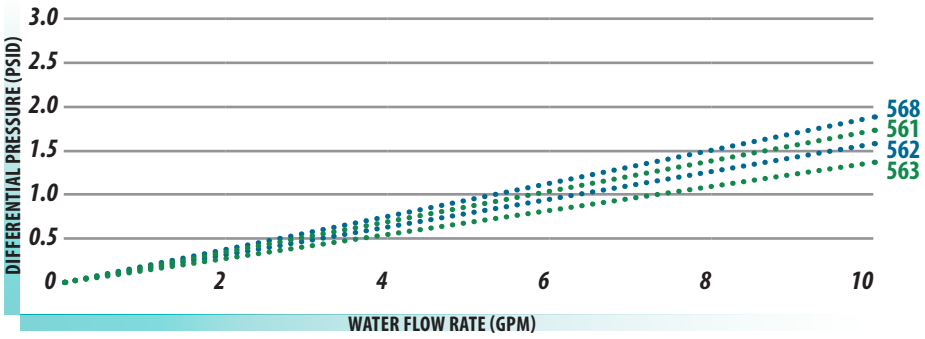
Buna N | Fluorocarbon | EPDM | Silicone | FEP Encapsulated Fluorocarbon | FEP Encapsulated Silicone | PTFE Foam | PTFE Hard

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	Polypropylene
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

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

ORDER GUIDE

VNXE	→	0.45	–	10	→	PP	→	C1	→	S	→	VNXE0.45-10PPC1S
		MICRON RATING		CARTRIDGE LENGTH		PLEAT SUPPORT		END CAP CONFIGURATION		GASKET / O-RING MATERIALS		

ABSOLUTE RATED RETENTION			
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	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)			

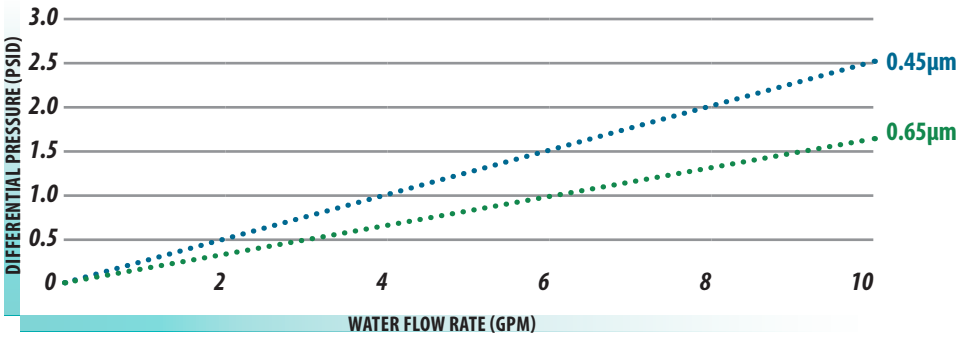
INTEGRITY TEST VALUES

PORE SIZE	BUBBLE POINT	TEST PRESSURE	AIR DIFFUSION
VNXE0.45	38 psig in water	30 psig	≤13.5mL/min
VNXE0.65	20 psig in water	16 psig	≤14mL/min

MICROBIOLOGICAL PERFORMANCE

MICROORGANISM	VNXE0.45	VNXE0.65
Oenococcus oeni	$\geq 10^7$	
Lactobacillus hilgardii	$\geq 10^7$	
Saccharomyces cerevisiae	$\geq 10^9$	$\geq 10^9$

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	Flat/222
C6	Flat/226
C7	Fin/226
C8	Fin/222

GASKET / O-RING MATERIAL

S	Silicone
E	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.

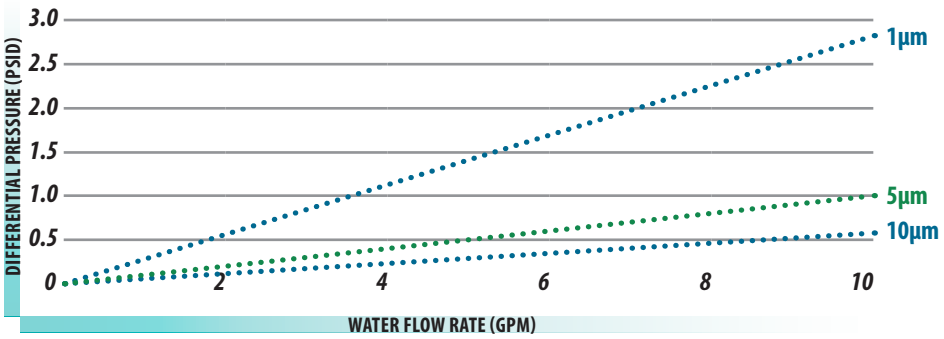
All polypropylene construction materials are CFR 21 listed for direct food contact, which makes this filter ideal for a broad range of applications.

- 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

ORDER GUIDE

TR	10	–	10	PP	C1	S	1	I	TR10-10PPC1S1I
	MICRON RATING		CARTRIDGE LENGTH	PLEAT SUPPORT	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	CARTRIDGE OPTIONS	

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.

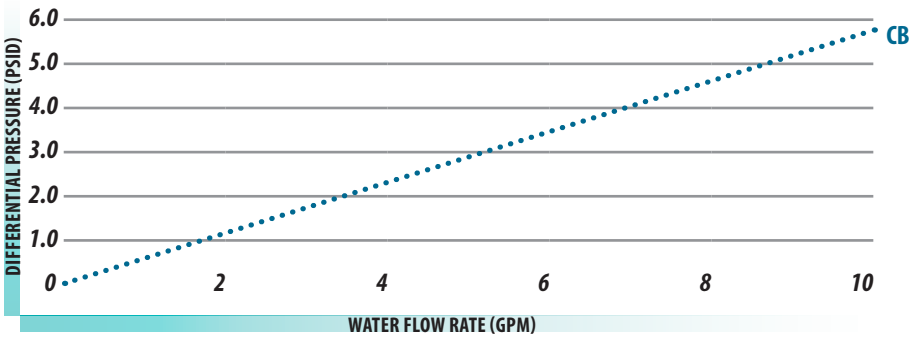
Aqua-Pro Cartridge filters bring the strongest line of defense against waterborne diseases traced to cryptosporidium and giardia cysts. These organisms, potentially lethal to those with weakened or underdeveloped immune systems, are highly resistant to conventional water treatment processes such as chlorination, 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

ORDER GUIDE

APC	→	CB	–	10	→	C3	→	S	→	APCCB-10C3S
		MICRON RATING		CARTRIDGE LENGTH		END CAP CONFIGURATION		GASKET / O-RING MATERIALS		

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	Flat/222
C6	Flat/226
C7	Fin/226
C8	Fin/222

GASKET / O-RING MATERIAL	
S	Silicone
E	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/cm^2 (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 µm ABSOLUTE RATED MEMBRANE CONFIGURATION
- HIGH SURFACE AREA MEMBRANE OFFERS EXCELLENT LIFE AND FLUX RATES WHILE PROVIDING ABSOLUTE FILTRATION
- ABSOLUTE-RATED DUAL LAYER MEMBRANE PROVIDES RELIABLE, CONSISTENT AND REPEATABLE FILTRATE QUALITY
- LOW PRESSURE DROPS YIELD HIGHER FLOW RATES AND REDUCED PROCESSING TIME
- NON-FIBER SHEDDING POLYPROPYLENE SUPPORT MATERIALS ELIMINATE FIBER MIGRATION
- PLEAT DESIGN FOR GREATER SURFACE AREA: 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

ORDER GUIDE

MPE PRMXE	0.2	–	20	PP	C3	V	SG	MPE0.2-20PPC3VSG
	MICRON RATING		CARTRIDGE LENGTH	PLEAT SUPPORT	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	

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

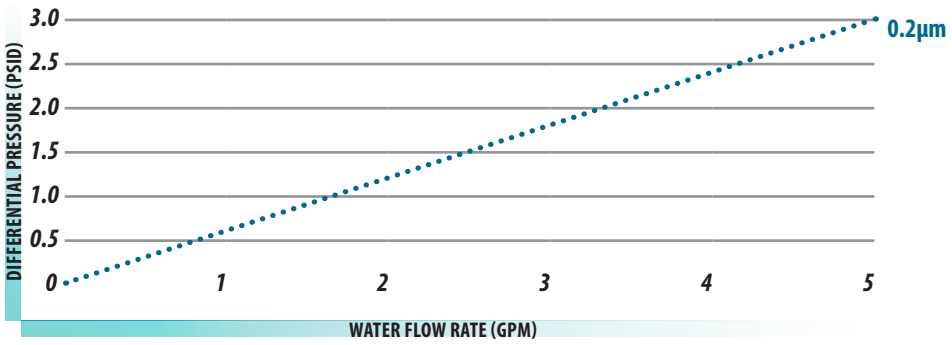
PORE SIZE	BUBBLE POINT	TEST PRESSURE	AIR DIFFUSION
0.2-SG	50 psig	40 psig	≤16mL/min

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	<2mg	<15mg
Heavy Metals	<1ppm	<1ppm
Residue on Ignition	<2mg	<5mg
Buffering Capacity	<1mL	<10ml

PERFORMANCE CHARACTERISTICS



ORDER OPTIONS

CARTRIDGE

MPE	Mem-Pleat E (2.55")
PRMXE	Pur-MAXX E (2.7")

MICRON RATINGS

0.2

CARTRIDGE LENGTH

5, 10, 20, 30, 40

PLEAT SUPPORT

PP	Polypropylene

END CAP CONFIGURATIONS

C3	Flat/222
C6	Flat/226
C7	Fin/226
C8	Fin/222

GASKET / O-RING MATERIAL

S	Silicone
B	Buna N
V	Fluorocarbon
E	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 industries 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

ORDER GUIDE

EDXCN	→	0.1	–	10	→	PP	→	C3	→	S	→	EDXCN0.1-10PPC3S
		MICRON RATING		CARTRIDGE LENGTH		PLEAT SUPPORT		END CAP CONFIGURATION		GASKET / O-RING MATERIALS		

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

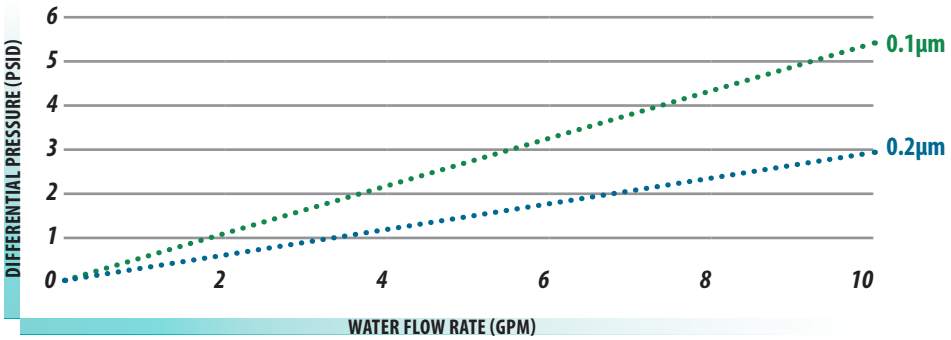
LENGTHS

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	Polyester
PP	Polypropylene

END CAP CONFIGURATIONS

C3	Flat/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

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

ORDER GUIDE

IKP	0.3	–	10	PP	C1	S	I	IKP0.3-10PPC1SI
	MICRON RATING		CARTRIDGE LENGTH	PLEAT SUPPORT	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	

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)

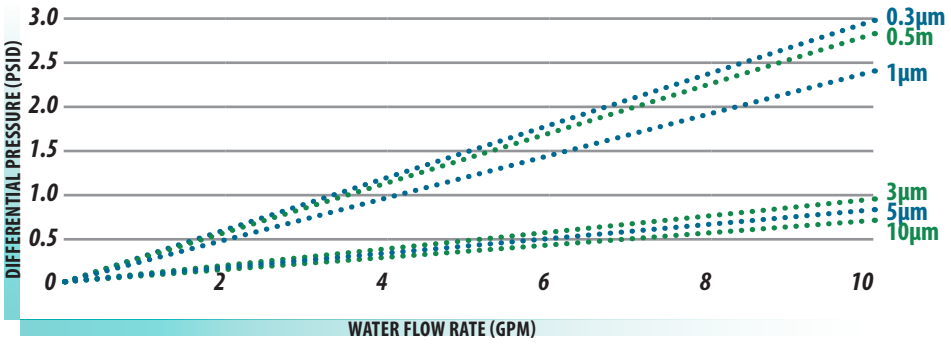
LENGTHS

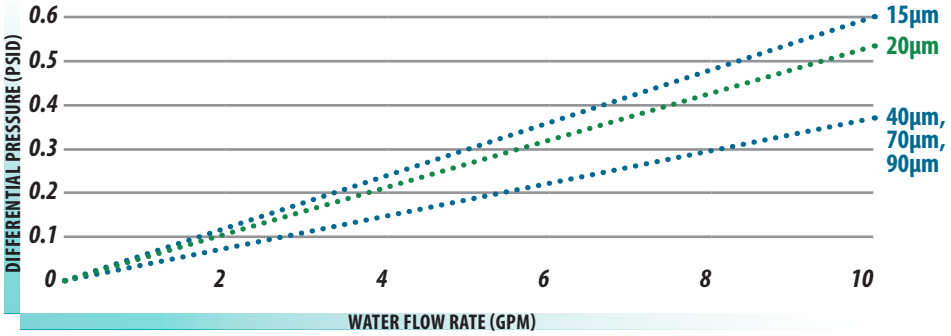
5 inch (12.7 cm) | 10 inch (25.4 cm) | 20 inch (50.8 cm) | 30 inch (76.2 cm) | 40 inch (102 cm)

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

PERFORMANCE CHARACTERISTICS





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

ORDER GUIDE

IKS	0.3	–	10	PP	C1	S	I	IKS0.3-10PPC1SI
	MICRON RATING		CARTRIDGE LENGTH	PLEAT SUPPORT	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	

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)

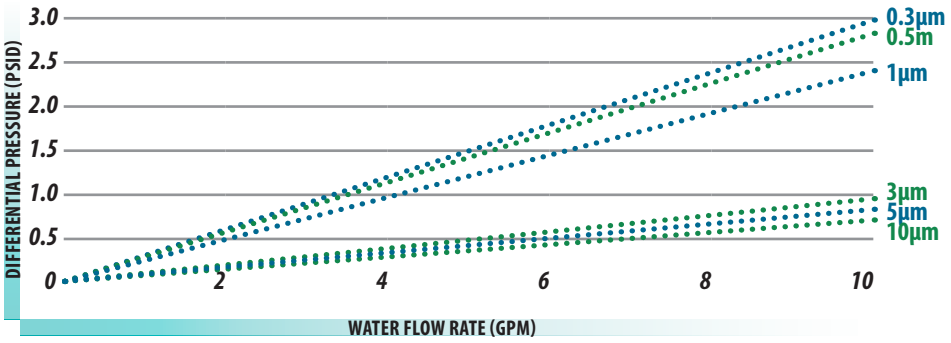
LENGTHS

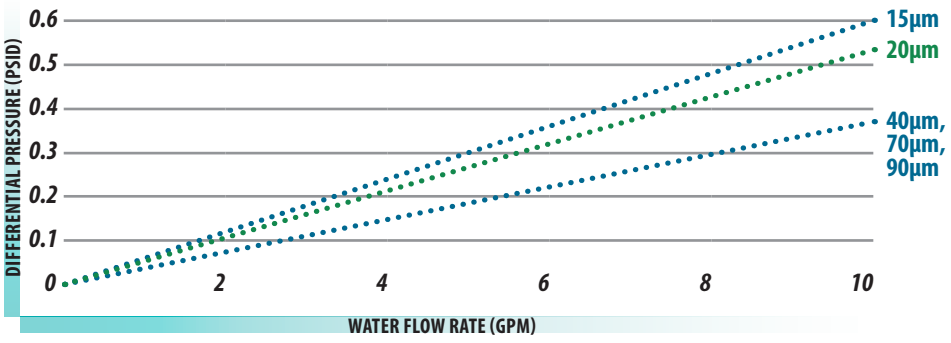
5 inch (12.7 cm) | 10 inch (25.4 cm) | 20 inch (50.8 cm) | 30 inch (76.2 cm) | 40 inch (102 cm)

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.

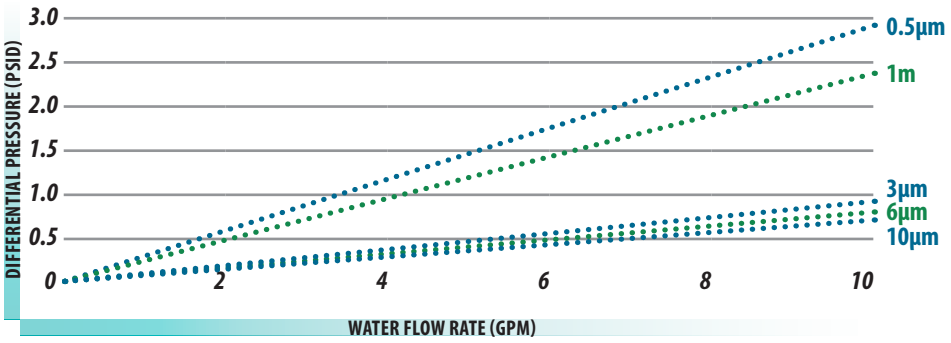
- ▶ ABSOLUTE-RATED MEDIA PROVIDES RELIABLE, CONSISTENT AND REPEATABLE FILTRATION RESULTS
- ▶ LOWER PRESSURE DROPS, WHICH YIELD HIGHER FLOW RATES AND REDUCED PROCESSING TIME
- ▶ THERMALLY BONDED CONSTRUCTION ENSURES A CLEANER FILTRATE WHILE MINIMIZING EXTRACTABLES

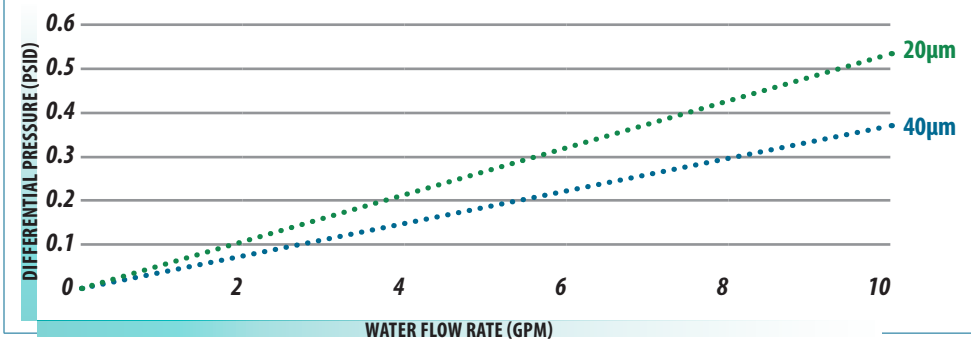
ORDER GUIDE

IKG	1	–	20	PP	C2	B	I	IKG1-20PPC2BI
	MICRON RATING		CARTRIDGE LENGTH	PLEAT SUPPORT	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	

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	

PERFORMANCE CHARACTERISTICS





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	Polyester
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
APH	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

ORDER GUIDE

PESE	50	–	10	PP	C1	S	E	T	PESE50-10PPC1SET
	MICRON RATING		CARTRIDGE LENGTH	PLEAT SUPPORT	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	CARTRIDGE OPTIONS	

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

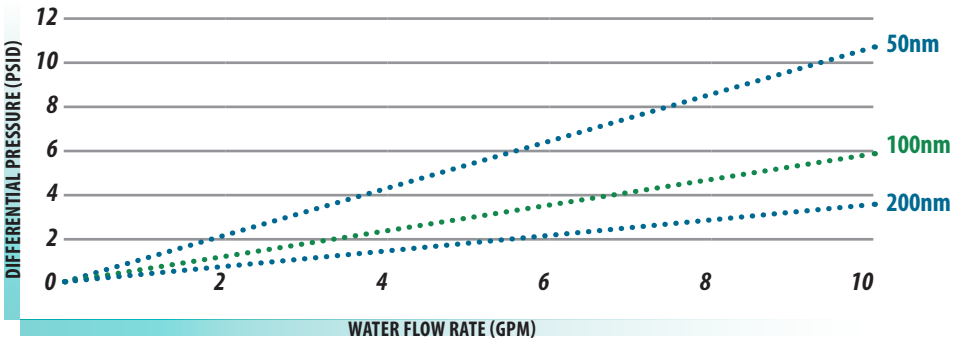
Thermal Bond

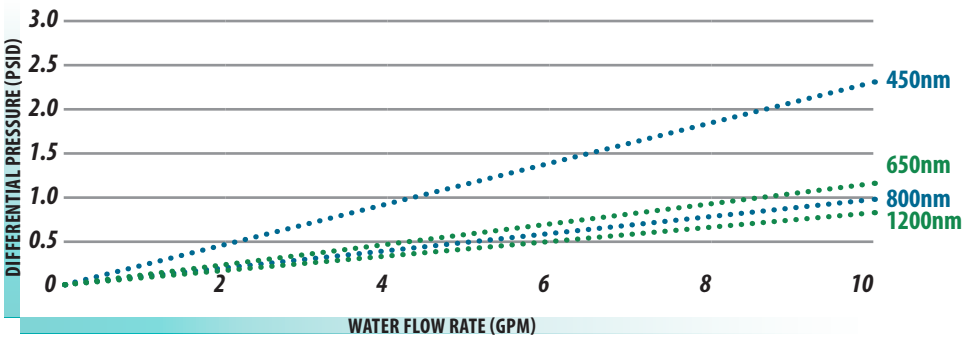
OUTSIDE DIAMETER	APPROXIMATE SURFACE AREA
2.7" (6.87cm)	6.8 square feet per 10" equivalent

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)

PERFORMANCE CHARACTERISTICS





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

ORDER GUIDE

VM	–	10	C3	S	2	VM-10C3S2
		CARTRIDGE LENGTH	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GUIDE	

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 Brevundimonas diminuta at 10^7 per cm^2 per ASTM (F 838-05)
Liquid challenge validated as sterilizing grade filter at a
challenge level of Brevundimonas diminuta 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

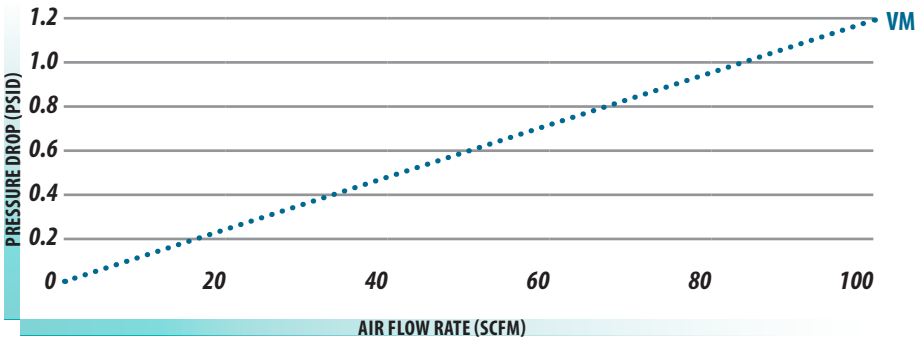
5 inch (12.7 cm) | 10 inch (25.4 cm) | 20 inch (50.8 cm) | 30 inch (76.2 cm)

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



ORDER OPTIONS

CARTRIDGE

VM	Vent-MAXX

CARTRIDGE LENGTH

5, 10, 20, 30

END CAP CONFIGURATIONS

C3	Flat/222
C6	Flat/226
C7	Fin/226
C8	Fin/222

GASKET / O-RING MATERIAL

S	Silicone
V	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

ORDER GUIDE

VR	–	10	C8	S	2	VR-10C8S2
		CARTRIDGE LENGTH	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GUIDE	

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 Brevundimonas diminuta 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

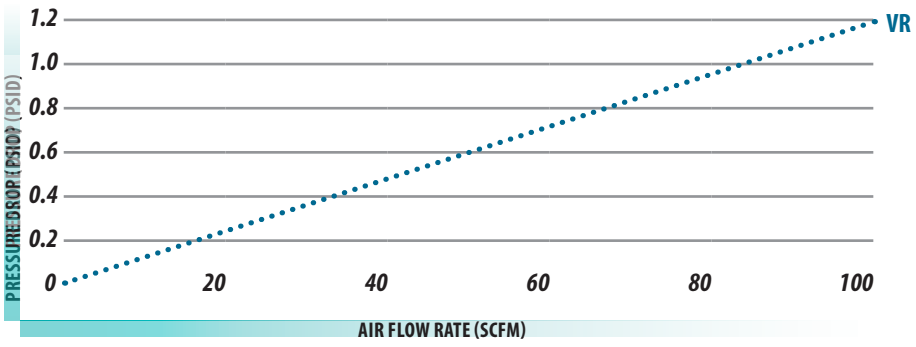
5 inch (12.7 cm) | 10 inch (25.4 cm) | 20 inch (50.8 cm) | 30 inch (76.2 cm)

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



ORDER OPTIONS

CARTRIDGE

VR	Vent-Rite

CARTRIDGE LENGTH

5, 10, 20, 30

END CAP CONFIGURATIONS

C3	Flat/222
C6	Flat/226
C7	Fin/226
C8	Fin/222

GASKET / O-RING MATERIAL

S	Silicone
V	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.

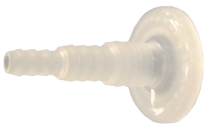
D1/01 - Sanitary

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-AUTOCLAVE CYCLES

ORDER GUIDE

MC	–	P	5	D1	O1	PMX	1	2	E	MC-P5D1O1PMX12E
		CAPSULE CONSTRUCTION	NOMINAL LENGTHI	INLET DESIGN	OUTLET DESIGN	CARTRDIGE STYLE	MICRON RATING	CARTRIDGE GUIDE	CARTRIDGE O-RING	

MAXIMUM PRESSURE			
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 10 inch - Individually Boxed - 6 case / 12 case quantity 20 inch - Individually Boxed - 6 case quantity 30 inch - Individually Boxed - 6 case quantity 40 inch - Individually Boxed			
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		
CAGE/CORE	**CAPSULE VENT SEALS**		
Polypropylene	Buna N | Fluorocarbon | EPDM | Silicone		
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)			

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)	*Many options available; please contact customer service or inquire with a sales representative to learn more*						
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* **Not Available in FDA Grade*	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 *Nanometer ratings*						X
VM (Vent-MAXX)	-			X			
VR (Vent-Rite)	-			X			

ORDER OPTIONS

CAPSULE

MC	MAXX-Cap

NOMINAL LENGTHS

5, 10, 20, 30, 40

INLET DESIGN

D1	1", 1.5" sanitary
D2	0.5" female NPT
D3	0.25" hose barb
D4	0.5" hose barb
D5	grad. hose barb

OUTLET DESIGN

O1	1", 1.5" sanitary
O2	0.5" female NPT
O3	0.25" hose barb
O4	0.5" hose barb
O5	grad. hose barb

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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

MADD-MAXX GF

Absolute-Rated Microglass Hybrid Elements

- FOOD AND BEVERAGE
- DI/RO PREFILTRATION
- EDIBLE OILS
- REAGENT GRADE CHEMICALS
- GENERAL WATER FILTRATION
- WASTE WATER
- AMINE FLUIDS
- GLYCOL FLUIDS

Strainrite's MADD-MAXX GF filters are engineered for critical high purity applications, optimizing throughput while maintaining an absolute rated performance that is consistent and reliable. Our microglass filter elements feature a media structure with high surface area and increased void volume, as well as optimized pore size geometry.

Precision blowing of fine denier fibers results in a highly uniform matrix that optimizes element flow rate and service life. This advanced fine fiber technology outperforms all competing microfiber technologies. MADD-MAXX GF filter elements increase filtration efficiency of any existing bag filter vessel versus conventional filter bags.

MADD-MAXX GF pleated elements are the preferred choice for filtering beverages such as beer and wine because they do not remove flavor enhancing proteins. We utilize acrylic binders that meet the requirements of CFR 21 for food and beverage contact.* Our standard elements utilize an epoxy binder, providing the MADD-MAXX with a greater range of chemical compatibility in a wider range of applications.

- ABSOLUTE-RATED MEDIA PROVIDES RELIABLE PORE SIZE CONTROL RESULTING IN REPEATABLE FILTRATION PERFORMANCE
- NON-FIBER RELEASING MATERIALS WITH MINIMAL EXTRACTABLES PROVIDING HIGH PURITY FILTRATE
- LOWER PRESSURE DROPS YIELD HIGHER FLOW RATES AND REDUCED PROCESSING TIME
- WIDE CHEMICAL COMPATIBILITY
- MAXIMUM PLEAT DESIGN COUPLED WITH NON-CALENDERED MICROFIBER MATRIX OFFERS GREATER SURFACE AREA, ENSURING LONGER SERVICE LIFE, LESS DOWNTIME, AND REDUCED OPERATING COSTS PER ELEMENT
- STANDARD GRADE UTILIZES AN EPOXY BINDER, FDA GRADE UTILIZES AN ACRYLIC BINDER*
- THERMALLY BONDED CONSTRUCTION, ELIMINATING PARTICLE BYPASS

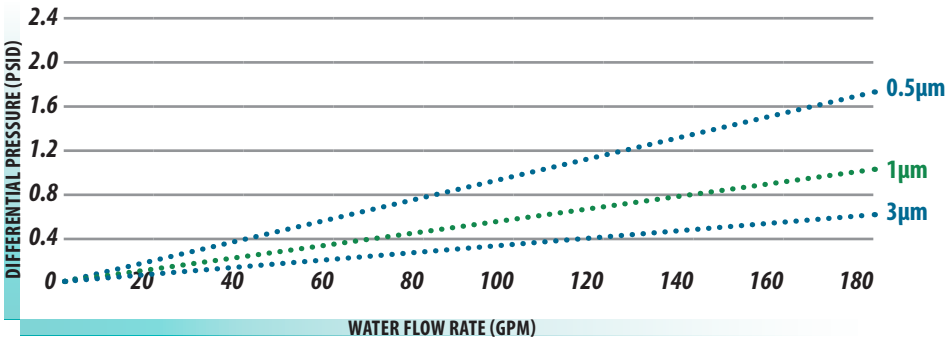
FDA grade available upon special request for certain micron ratings; please inquire with Strainrite customer service for more information.

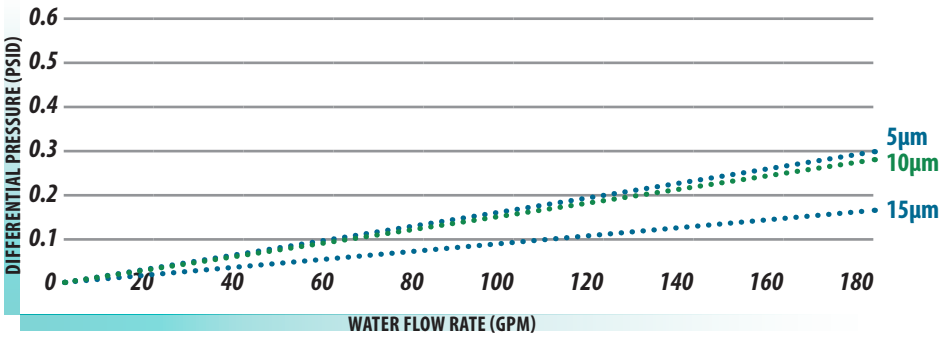
ORDER GUIDE

MDX-GF	→ 0.5 (MICRON RATING)	→ P1 (NOMINAL LENGTH)	→ C (CAGE DESIGN)	→ M (END CAP CONFIGURATION)	→ S (O-RING MATERIAL)	→ APH (ELEMENT OPTIONS)	→ MDX-GF0.5P1CMSAPH

MICRON RATING			
0.5, 1, 3, 5, 10, 15			
MAXIMUM OPERATING TEMPERATURE		**MAXIMUM DIFFERENTIAL PRESSURE**	
180°F (82°C) Continuous Duty Polypropylene 300°F (149°C) Continuous Duty Polyester		25 PSID @ 70°F (21°C)	
FILTER MEDIA	**HARDWARE**	**SUPPORT MATERIAL**	**CAGE**
Borosilicate Microglass	Polypropylene Polyester	Polyester	Polypropylene Polyester
O-RINGS			
Buna N | Fluorocarbon | EPDM | Silicone			
CONSTRUCTION METHOD			
Thermal Bond			
NOMINAL TOP OUTSIDE DIAMETER			
6.5" - 7.5"			
NOMINAL SURFACE AREA			
P1 - 17 square feet | P2 - 40 square feet | P3 - 46 square feet | P4 - 60 square feet			
NOMINAL LENGTHS			
P1 - 12" (30.5 cm) | P2 - 26" (66.3 cm) | P3 - 30" (76.5 cm) | P4 - 40" (102 cm)			

PERFORMANCE CHARACTERISTICS P4 FILTER





ORDER OPTIONS

ELEMENT	
MDX-GF	Madd-MAXX GF

MICRON RATINGS
0.5, 1, 3, 5, 10, 15

CARTRIDGE LENGTH	
P1	12" (30.5 cm)
P2	26" (66.3 cm)
P3	30" (76.5 cm)
P4	40" (102 cm)

CAGE DESIGN	
C	Plastic Polypropylene

END CAP CONFIGURATION	
P	P-Flange Top
S	S-Top with O-ring
M	M-Flange Top
C	C-Top with O-ring*
	All Polyester Hardware not available

O-RING MATERIAL	
S	Silicone (Standard O-ring)
B	Buna N (Standard gasket)
V	Fluorocarbon
E	EPDM

ELEMENT OPTIONS	
APH	All Polyester Hardware

MADD-MAXX MF

Absolute-Rated Polypropylene Hybrid Elements

- FOOD AND BEVERAGE
- DI/RO PREFILTRATION
- EDIBLE OILS
- REAGENT GRADE CHEMICALS
- GENERAL WATER FILTRATION
- WASTE WATER
- AMINE FLUIDS
- GLYCOL FLUIDS

Strainrite's MADD-MAXX MF filters are engineered for critical high purity applications, optimizing throughput while maintaining an absolute rated performance that is consistent and reliable. Our superior filter media is constructed on the latest continuous microfiber blowing equipment, which accurately controls fiber diameter and web design. This state-of-the-art equipment utilizes online monitoring equipment, delivering the industry's most uniform and consistent media, resulting in unparalleled product consistency.

This element combines the advantages of typical bag filtration, ease of use, and exceptional dirt holding capacity with the high efficiency and performance of cartridge filtration. The inside-out flow design ensures that unwanted contaminates stay inside the element during change out, virtually eliminating the possibility of downstream contamination. Our 100% polypropylene construction provides an excellent range of chemical compatibility for your most demanding applications. All materials of construction meet or exceed the requirements of CFR 21 for food and beverage contact.

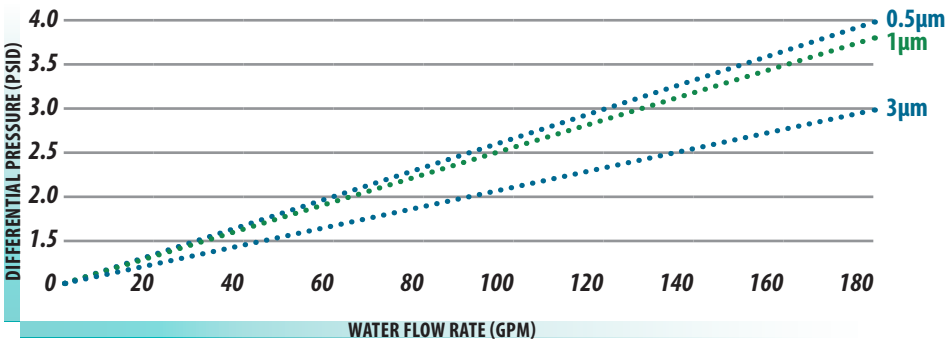
- ABSOLUTE-RATED MEDIA PROVIDES RELIABLE, CONSISTENT AND REPEATABLE FILTRATION
- FASTER CHANGE-OUTS COMPARED TO STANDARD HIGH PERFORMANCE CARTRIDGES
- CONTAMINANTS ARE CAPTURED INSIDE THE ELEMENT, ELIMINATING DOWNSTREAM CONTAMINATION
- 100% POLYPROPYLENE, FDA COMPLIANT WITH CFR 21
- THERMALLY BONDED END CAPS
- SINGLE O-RING SEAL ENSURES A HERMETIC SEAL FOR HIGH PURITY APPLICATIONS
- MAXIMUM PLEAT DESIGN FOR GREATER SURFACE THAT ENSURES LONGER SERVICE LIFE, LESS DOWNTIME, AND REDUCED OPERATING COSTS PER ELEMENT
- LOWER PRESSURE DROPS YIELD HIGHER FLOW RATES AND REDUCED PROCESSING TIME

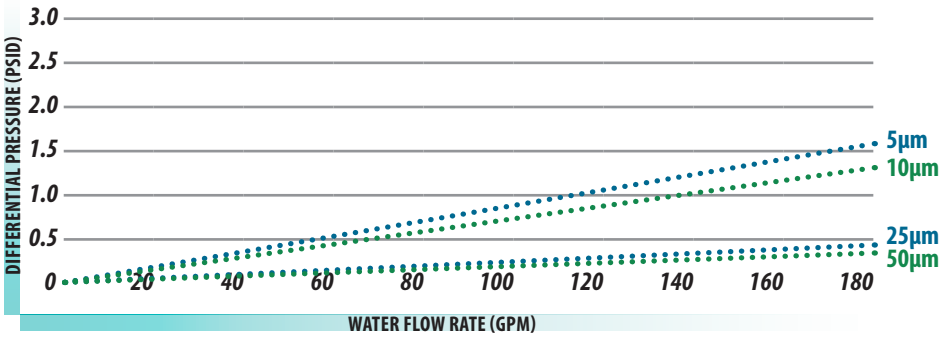
ORDER GUIDE

MDX-MF	→ 3 (MICRON RATING)	→ P2 (NOMINAL LENGTH)	→ C (CAGE DESIGN)	→ P (END CAP CONFIGURATION)	→ S (O-RING MATERIAL)	→ MDX-MF3P2CPS

MICRON RATING			
0.5, 1, 3, 5, 10, 25, 50			
MAXIMUM OPERATING TEMPERATURE		**MAXIMUM DIFFERENTIAL PRESSURE**	
180°F (82°C) Continuous Duty		25 PSID @ 70°F (21°C)	
FILTER MEDIA	**HARDWARE**	**SUPPORT MATERIAL**	**CAGE**
Polypropylene Microfiber	Polypropylene	Polypropylene	Polypropylene
O-RINGS			
Buna N | Fluorocarbon | EPDM | Silicone			
CONSTRUCTION METHOD			
Thermal Bond			
NOMINAL TOP OUTSIDE DIAMETER			
6.5" - 7.5"			
NOMINAL SURFACE AREA			
P1 - 17 square feet | P2 - 40 square feet | P3 - 46 square feet | P4 - 60 square feet			
NOMINAL LENGTHS			
P1 - 12" (30.5 cm) | P2 - 26" (66.3 cm) | P3 - 30" (76.5 cm) | P4 - 40" (102 cm)			

PERFORMANCE CHARACTERISTICS P2 FILTER





ORDER OPTIONS

ELEMENT

MDX-MF	Madd-MAXX MF

MICRON RATINGS

0.5, 1, 3, 5, 10, 25, 50

CARTRIDGE LENGTH

P1	12" (30.5 cm)
P2	26" (66.3 cm)
P3	30" (76.5 cm)
P4	40" (102 cm)

CAGE DESIGN

C	Plastic Polypropylene

END CAP CONFIGURATIONS

P	P-Flange Top
S	S-Top with O-ring
M	M-Flange Top
C	C-Top with O-ring

O-RING MATERIAL

S	Silicone (Standard O-ring)
B	Buna N (Standard gasket)
V	Fluorocarbon
E	EPDM

AQUA-MAXX

Absolute-Rated Polypropylene Hybrid Elements

- FOOD AND BEVERAGE
- HIGH PURITY WATER

Strainrite's Aqua-MAXX [Hybrid Filter Technology] filters are engineered for critical high purity applications by optimizing throughput while maintaining absolute rated performance that is both predictable and repeatable. Our superior filter media is constructed on the latest Continuous Composite Microfiber blowing equipment, which accurately controls fiber diameter and web design. This state-of-the-art equipment utilizes online monitoring equipment, delivering the industryís most uniform and consistent media, resulting in unparalleled product consistency.

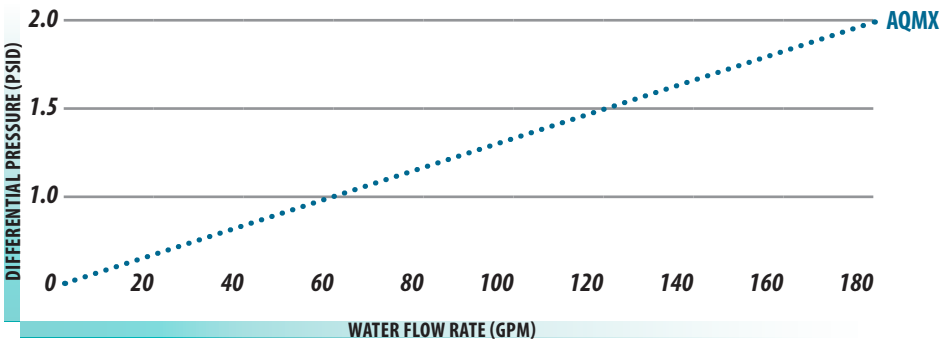
By combining high performance media in an Aqua-MAXX inside-out flow configuration, we have created the ultimate filter. This element combines the advantages of typical bag filtration, ease of use, and exceptional dirt holding capacity with the high efficiency and performance characteristics of cartridge filtration. The inside out flow design ensures that unwanted contaminates stay inside the element during change out, unlike typical cartridge filtration, virtually eliminating the possibility of downstream contamination. All materials of construction meet or exceed the requirements of CFR 21 for Food and Beverage contact.

- COMPLIES WITH ANSI/NSF STANDARD 53; MEETS THE REQUIREMENTS OF USP PLASTIC CLASS VI
- MEDIA PROVIDES RELIABLE, CONSISTENT AND REPEATABLE FILTRATION
- FASTER CHANGE-OUTS COMPARED TO STANDARD HIGH PERFORMANCE CARTRIDGES
- CONTAMINANTS ARE CAPTURED INSIDE THE ELEMENT, ELIMINATING DOWNSTREAM CONTAMINATION
- MAXIMUM FLOW RATES OF 50 GPM
- LOWER PRESSURE DROPS YIELD HIGHER FLOW RATES AND REDUCED PROCESSING TIME
- MAXIMUM PLEAT DESIGN FOR GREATER SURFACE THAT ENSURES LONGER SERVICE LIFE, LESS DOWNTIME, AND REDUCED OPERATING COSTS PER ELEMENT
- THERMALLY BONDED END CAPS
- DOUBLE 261 O-RING SEAL ENSURES A HERMETIC SEAL FOR CRITICAL HIGH PURITY APPLICATIONS
- COMPLIANT WITH FDA 21 CFR

ORDER GUIDE

AQMX → PFA (FILTER) → AQMX-PFA

MAXIMUM FLOW RATE	
50 gpm	
MAXIMUM OPERATING TEMPERATURE	**MAXIMUM DIFFERENTIAL PRESSURE**
180°F (82°C) Continuous Duty	25 PSID @ 70°F (21°C)
FILTER MEDIA	**SUPPORT MATERIAL**
Composite Polypropylene Microfiber	Polypropylene
HARDWARE	**CAGE**
Polypropylene	Polypropylene
O-RINGS	**CONSTRUCTION METHOD**
EPDM	Thermal Bond
NOMINAL TOP OUTSIDE DIAMETER	**NOMINAL LENGTHS**
7"	30" (76.5 cm)
PERFORMANCE CHARACTERISTICS	



ORDER OPTIONS

ELEMENT	
AQMX	Aqua-MAXX
FILTER	
PFA	Primary Filter (pre-filter)
FFA	Secondary Filter (final filter)

MADD-MAXX XL

Polypropylene Felt Hybrid Elements

- FOOD AND BEVERAGE
- DI/RO PREFILTRATION
- EDIBLE OILS
- REAGENT GRADE CHEMICALS
- GENERAL WATER FILTRATION
- WASTE WATER
- AMINE FLUIDS
- GLYCOL FLUIDS

Strainrite's MADD-MAXX XL elements feature the proven benefits of small fiber diameter and a high void area, creating the perfect depth filter. These elements offer 5 to 10 times more surface area, depending upon chosen configuration and materials of construction. Coupled with a single O-ring postive seal, resulting in the most reliable, and versatile filters available.

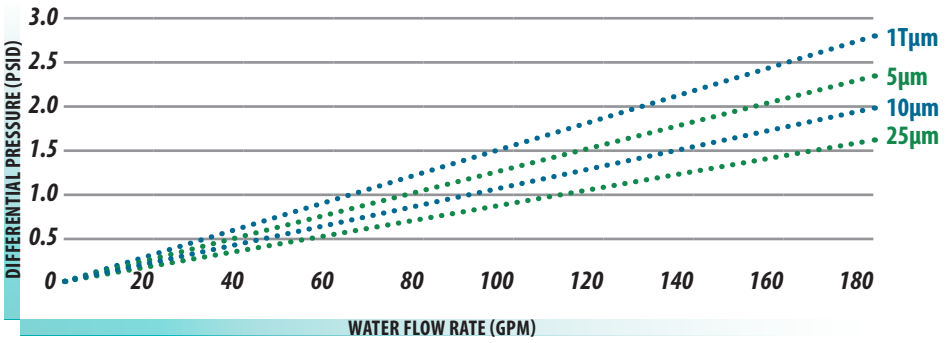
- INCREASED SURFACE AREA OFFERS HIGHER FLOW CAPACITY IN EXISTING APPLICATIONS
- LOWER INITIAL DIFFERENTIAL PRESSURE, REDUCING FILTRATION COSTS, DUE TO LONGER ELEMENT LIFE
- SINGLE O-RING SEALING FLANGE FOR INCREASED EFFICIENCY
- THERMALLY BONDED END CAPS ELIMINATING BYPASS
- INTERNAL POLYMERIC PLEAT SEPARATOR TO ASSURE FULL UTILIZATION OF THE ENTIRE PLEAT SURFACE AREA

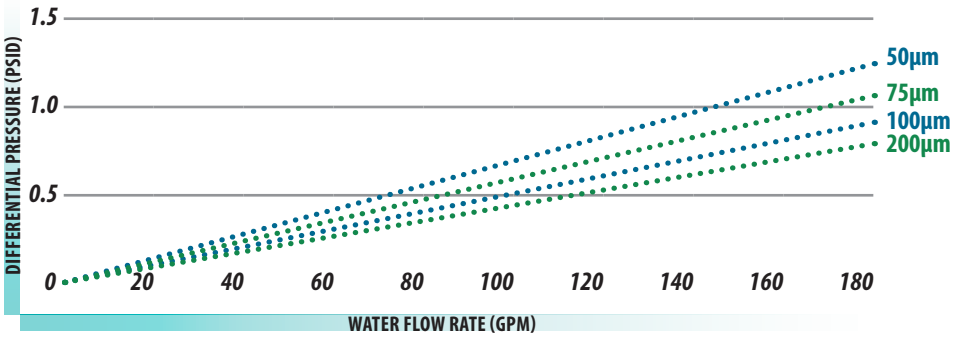
ORDER GUIDE

MDXL-SP	→	10	→	P1	→	C	→	P	→	S	→	MDXL-SP10P1CPS
		MICRON RATING		NOMINAL LENGTH		CAGE DESIGN		END CAP CONFIGURATION		O-RING MATERIAL		

MICRON RATING			
1T, 1, 5, 10, 25, 50, 75, 100, 200			
MAXIMUM OPERATING TEMPERATURE		**MAXIMUM DIFFERENTIAL PRESSURE**	
180°F (82°C) Continuous Duty		25 PSID @ 70°F (21°C)	
FILTER MEDIA	**HARDWARE**	**SUPPORT MATERIAL**	**CAGE**
Polypropylene Felt	Polypropylene	Polypropylene	Polypropylene Rigid Resin Bonded Felt
O-RINGS			
Buna N | Fluorocarbon | EPDM | Silicone			
CONSTRUCTION METHOD			
Thermal Bond			
NOMINAL TOP OUTSIDE DIAMETER			
6.75" - 7.45"			
NOMINAL SURFACE AREA			
P1 - 8 square feet | P2 - 18 square feet | P3 - 22 square feet | P4 - 30 square feet			
NOMINAL LENGTHS			
P1 - 12" (30.5 cm) | P2 - 26" (66.3 cm) | P3 - 30" (76.5 cm) | P4 - 40" (102 cm)			

PERFORMANCE CHARACTERISTICS P2 FILTER





ORDER OPTIONS

ELEMENT	
MDXL-SP	Madd-MAXX XL

MICRON RATINGS
1T, 1, 5, 10, 25, 50, 75, 100, 200

CARTRIDGE LENGTH	
P1	12" (30.5 cm)
P2	26" (66.3 cm)
P3	30" (76.5 cm)
P4	40" (102 cm)

CAGE DESIGN	
C	Plastic Polypropylene

END CAP CONFIGURATIONS	
P	P-Flange Top
S	S-Top with O-ring
M	M-Flange Top
C	C-Top with O-ring

O-RING MATERIAL	
S	Silicone (Standard O-ring)
B	Buna N (Standard gasket)
V	Fluorocarbon
E	EPDM

VISC-MAXX

Resin-Bonded Polyester Hybrid Elements

- CUTTING FLUIDS
- ADHESIVES
- INKS, PAINTS AND COATINGS
- COOLANTS
- GLYCOL FLUIDS
- AMINE FLUIDS
- FINE CHEMICALS
- PLATING SOLUTIONS
- PETROCHEMICALS
- COOLING TOWERS
- DOWN WELL INJECTIONS

Combining the advantages of resin-bonded cartridges, non-compressible media, and enhanced depth filtration, with the proven inside out flow advantages of bag filtration, makes the VISC-MAXX the optimum alternative to cartridge filtration.

The VISC-MAXX utilizes a phenolic treated polyester large fiber material in a gradient density pleat design to create the perfect resin bonded filter.

Our unique patent protected textile provides unsurpassed gel and particle removal due to maximized surface area and the true non-compressible depth design.

A chronic complaint of conventional resin-bonded cartridge users is post-filter fiber migration, which results in compromised product and a need to re-filter. Our proprietary textile eliminates these problems entirely. Cages can be designed with specific applications in mind. Choices include polypropylene, polyester and phenolic-treated polyester.

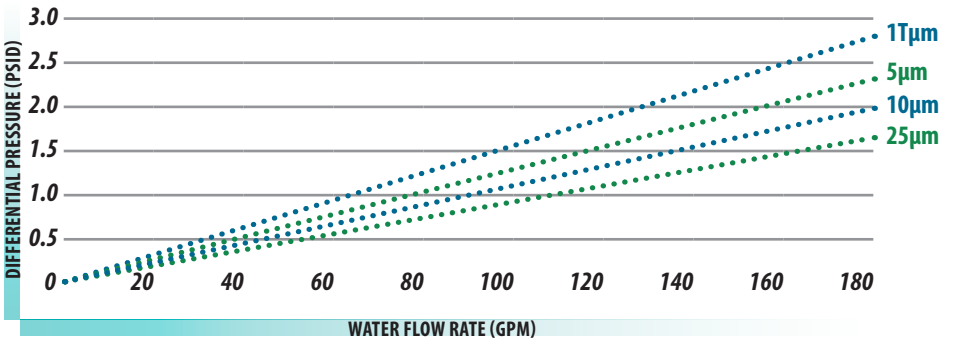
- NO FIBER MIGRATION DUE TO THE UTILIZATION OF LENGTHY HEAT SET FIBERS
- INCREASED SURFACE AREA MEANS LONGER FILTER LIFE AND REDUCED DISPOSAL COST
- LONGER FILTER LIFE REDUCES LABOR TIME ASSOCIATED WITH CHANGE-OUTS
- HIGHER PRODUCTIVITY DUE TO LONGER RUN TIMES
- GRADIENT DENSITY DESIGN, PREVENTING PREMATURE BLINDING OF FINAL FILTRATION LAYER
- THERMALLY BONDED END CAPS ELIMINATE BYPASS
- ONE P1 SIZE ELEMENT REPLACES (40) 10" EQUIVALENT RESIN BONDED CARTRIDGES

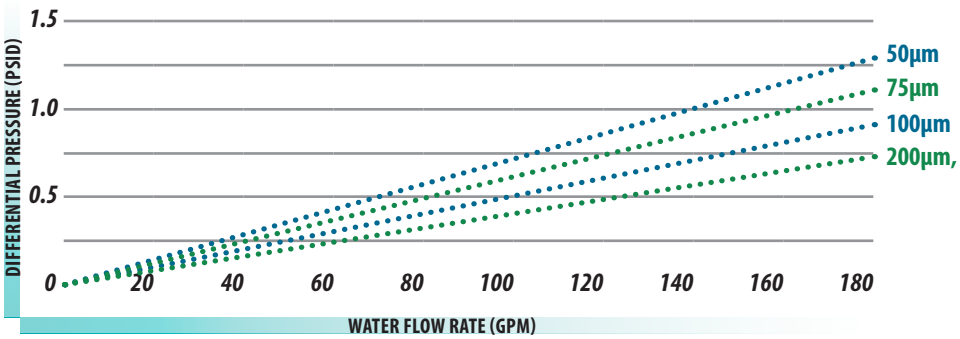
ORDER GUIDE

VSC-MX	→	10	→	P1	→	C	→	M	→	S	→	APH	→	VSC-MX10P1CMSAPH
		MICRON RATING		NOMINAL LENGTH		CAGE DESIGN		END CAP CONFIGURATION		O-RING MATERIAL		ELEMENT OPTIONS		

MICRON RATING		
1T, 1, 5, 10, 25, 50, 75, 100, 200		
MAXIMUM OPERATING TEMPERATURE		**MAXIMUM DIFFERENTIAL PRESSURE**
170°F (77°C) Continuous Duty Polypropylene 250°F (121°C) Continuous Duty Polyester		25 PSID @ 70°F (21°C)
FILTER MEDIA	**HARDWARE**	**CAGE**
Phenolic treated long-fiber Polyester	Polypropylene Polyester	Polypropylene Polyester (P-Flange top and M-Flange top only)
O-RINGS		
Buna N | Fluorocarbon | EPDM | Silicone		
CONSTRUCTION METHOD		
Thermal Bond		
NOMINAL TOP OUTSIDE DIAMETER		
6.75" - 7.45"		
NOMINAL SURFACE AREA		
P1 - 8 square feet | P2 - 18 square feet | P3 - 22 square feet | P4 - 30 square feet		
NOMINAL LENGTHS		
P1 - 12" (30.5 cm) | P2 - 26" (66.3 cm) | P3 - 30" (76.5 cm) | P4 - 40" (102 cm)		

PERFORMANCE CHARACTERISTICS P2 FILTER





ORDER OPTIONS

ELEMENT	
VSC-MF	Visc-MAXX

MICRON RATINGS
1T, 1, 5, 10, 25, 50, 75, 100, 200

CARTRIDGE LENGTH	
P1	12" (30.5 cm)
P2	26" (66.3 cm)
P3	30" (76.5 cm)
P4	40" (102 cm)

CAGE DESIGN	
C	Plastic Polypropylene
E	Polyester*

P-flange Top, M-Flange Top only

END CAP CONFIGURATION	
P	P-Flange Top
S	S-Top with O-ring
M	M-Flange Top
C	C-Top with O-ring*

All Polyester Hardware not available

O-RING MATERIAL	
S	Silicone (Standard O-ring)
B	Buna N (Standard gasket)
V	Fluorocarbon
E	EPDM

ELEMENT OPTIONS	
APH	All Polyester Hardware

Clari-MAXX

Multi-Layer Polypropylene Micro Fiber Hybrid Elements

- ▶ FOOD AND BEVERAGE
- ▶ INK AND PAINT
- ▶ POTABLE WATER
- ▶ COATINGS
- ▶ CHEMICALS
- ▶ ELECTRONICS

Strainrite continues its tradition of state-of-the-art advanced filtration innovation with the Clari-MAXX, 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 five times the surface area compared with industry standard non-pleated depth filters. The increased surface area provides higher flow rates at reduced pressure, and results in increased filter life.

The Clari-MAXX Advantage:

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.

- 5 times more surface area than standard filters
- Small Fiber Diameter
- High Solids-Holding Volume

- ▶ EXQUISITELY CONTROLLED, STATE OF THE ART MEDIA PROVIDES RELIABLE, CONSISTENT AND REPEATABLE FILTRATION
- ▶ FASTER CHANGE-OUTS COMPARED TO STANDARD HIGH PERFORMANCE CARTRIDGES
- ▶ CONTAMINANTS ARE CAPTURED INSIDE THE ELEMENT, ELIMINATING DOWNSTREAM CONTAMINATION
- ▶ THERMALLY BONDED END CAPS
- ▶ DIRECT REPLACEMENT FOR PALL MARKSMAN™
- ▶ LOWER PRESSURE DROPS YIELD HIGHER FLOW RATES AND REDUCED PROCESSING TIME
- ▶ MAXIMUM PLEAT DESIGN FOR GREATER SURFACE THAT ENSURES LONGER SERVICE LIFE, LESS DOWNTIME, AND REDUCED OPERATING COSTS PER ELEMENT
- ▶ SINGLE O-RING SEAL ENSURES A HERMETIC SEAL FOR HIGH PURITY APPLICATIONS
- ▶ 100% POLYPROPYLENE, FDA COMPLIANT WITH CFR 21
- ▶ CUSTOM LENGTH OPTIONS TO ACCOMMODATE EXISTING BASKETS

ORDER GUIDE

CMX	→ 4.5 MICRON RATING	→ P1 NOMINAL LENGTH	→ C CAGE DESIGN	→ M END CAP CONFIGURATION	→ S O-RING MATERIAL	→ CMX4.5P1CMS

MICRON RATING		RECOMMENDED CHANGE-OUT	
1.5, 3, 4.5,10, 20, 30, 70		35 psid	
MAXIMUM OPERATING TEMPERATURE		**MAXIMUM DIFFERENTIAL PRESSURE**	
180°F (82°C) Continuous Duty		25 PSID @ 70°F (21°C)	
FILTER MEDIA	**END CAPS**	**SUPPORT MATERIAL**	**MOLDED CAGE**
Multi-Layer Polypropylene Microfiber	Polypropylene	Polypropylene	Polypropylene

O-RINGS

Buna N | Fluorocarbon | EPDM | Silicone

CONSTRUCTION METHOD

Thermal Bond

OUTSIDE DIAMETER

6" (15.2 cm)

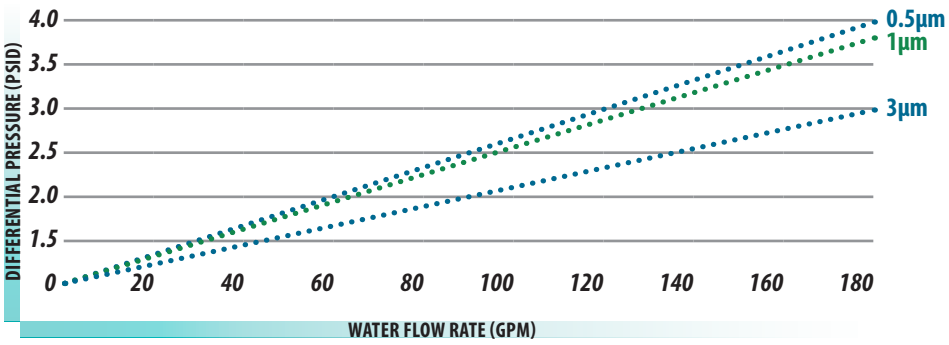
NOMINAL SURFACE AREA

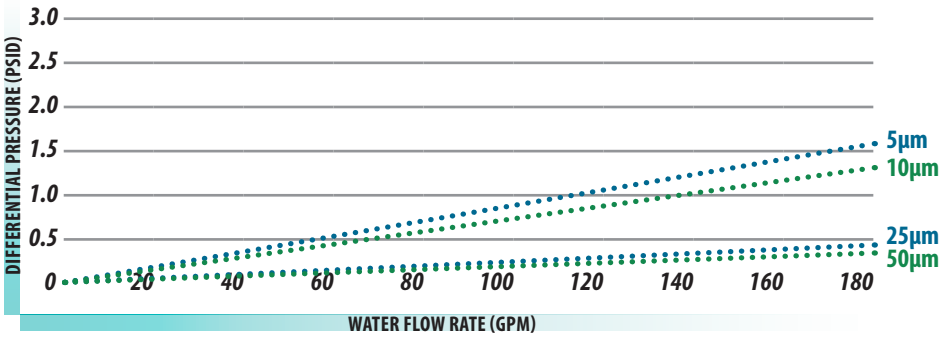
P1 - 12 square feet | P2 - 23 square feet | P3 - 26 square feet | P4 - 48 square feet

NOMINAL LENGTHS

P1 - 14" (35.7 cm) | P2 - 26" (66.3 cm) | P3 - 30" (76.5 cm) | P4 - 40" (102 cm)

PERFORMANCE CHARACTERISTICS P2 FILTER





ORDER OPTIONS

ELEMENT

CMX	Clari-MAXX

MICRON RATINGS

1.5, 3, 4.5,10, 20, 30, 70

CARTRIDGE LENGTH

P1	14" (35.7 cm)
P2	26" (66.3 cm)
P3	30" (76.5 cm)
P4	40" (102 cm)

CAGE DESIGN

C	Plastic Polypropylene

END CAP CONFIGURATIONS

P	P-Flange Top
S	S-Top with O-ring
M	M-Flange Top
C	C-Top with O-ring

O-RING MATERIAL

S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM

MAXX-FLOW

Housing-Specific Hybrid Elements - 6.75″ OD

Borosilicate Microglass or Polypropylene Microfiber

► 6.75″ OD HOUSING

MAXX-Flow filters are engineered for critical high purity applications by optimizing throughput while maintaining absolute rated performance that is both predictable and repeatable. Our polypropylene filter media is constructed on the latest continuous microfiber blowing equipment, which accurately controls fiber diameter and web design.

This state-of-the-art equipment utilizes online monitoring equipment, delivering the industry's most uniform and consistent media, resulting in unparalleled product consistency. Our microglass filter elements feature a media structure with high surface area and increased void volume, as well as optimized pore size geometry.

Precision blowing of fine denier fibers results in a highly uniform matrix that optimizes element flow rate and service life. This advanced fine fiber technology outperforms all competing microfiber technologies.

This hybrid filter easily works with most standard 6.75″ outside diameter housing.

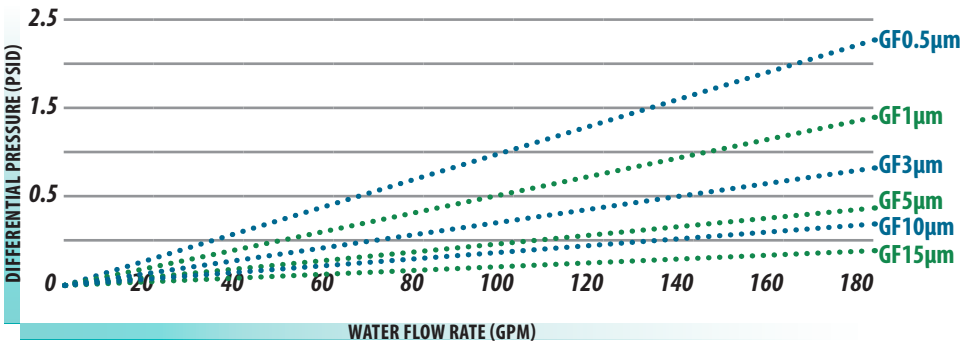
- ► LARGE DIAMETER PLEAT CONFIGURATION FOR HIGH FLOW RATES
- ► HIGH DIRT HOLDING CAPABILITY DUE TO EXTENSIVE SURFACE AREA
- ► 99% RATED FILTER MEDIA FOR CONSISTENT AND REPEATABLE PERFORMANCE
- ► THERMALLY BONDED CONSTRUCTION
- ► CAPABLE OF FLOW RATES UP TO 500GPM PER FILTER
- ► INJECTION MOLDED CAGE FOR SUPERIOR STRENGTH AND ELEMENT INTEGRITY
- ► INSIDE-OUT FILTER RETAINS ALL CONTAMINANTS INSIDE THE FILTER DURING CHANGE-OUTS

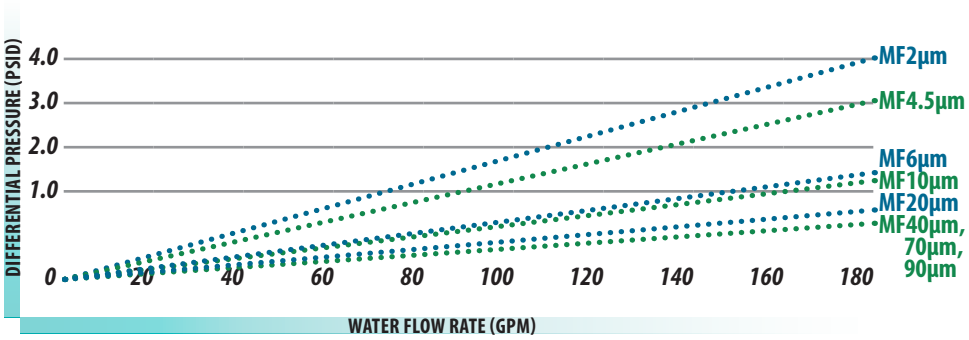
ORDER GUIDE

MF	→	6	→	MF	→	2	→	V	→	1	→	APH	→	MF6MF2V1APH
FILTER MEDIA		MICRON RATING				ELEMENT LENGTH		O-RING MATERIAL		ELEMENT GRADE		ELEMENT OPTIONS		

MICRON RATING			
MF - 2, 4.5, 6, 10, 20, 40, 70, 90 GF - 2, 6, 10, 20, 30			
MAXIMUM OPERATING TEMPERATURE		**MAXIMUM DIFFERENTIAL PRESSURE**	
180°F (82°C) Continuous Duty		35 PSID @ 70°F (21°C)	
MAXIMUM FLOW RATES		**RECOMMENDED CHANGE-OUT**	
20" - 175 gpm | 40" - 350 gpm | 60" - 500 gpm		25 psid	
FILTER MEDIA	**END CAPS**	**SUPPORT MATERIAL**	**MOLDED CAGE**
Borosilicate Microglass Polypropylene Microfiber	Polypropylene Polyester	Polypropylene Polyester	Polypropylene Polyester
O-RINGS			
Buna N | Fluorocarbon | EPDM | Silicone | FEP Encapsulated Silicone			
CONSTRUCTION METHOD			
Thermal Bond			
NOMINAL TOP OUTSIDE DIAMETER			
6.75" (17.1 cm)			
LENGTHS			
20" (50.8 cm) | 40" (101.6 cm) | P1 - 12" (30.5 cm) | P2 - 26" (66.3 cm)			

PERFORMANCE CHARACTERISTICS 40" FILTER





ORDER OPTIONS

FILTER MEDIA	
MF	Polypropylene Microfiber
GF	Borosilicate Microglass

MICRON RATINGS
MF: 2, 4.5, 6, 10, 20, 40, 70, 90 GF: 2, 6, 10, 20, 30

ELEMENT	
MF	MAXX-Flow

ELEMENT LENGTH	
2	20" (50.8 cm)
4	40" (101.6 cm)
P1	12" (30.5 cm)
P2	26" (66.3 cm)

O-RING MATERIAL	
S	Silicone (Standard O-ring)
B	Buna N (Standard gasket)
V	Fluorocarbon
E	EPDM
TV	FEP Encapsulated Fluoro.

ELEMENT GRADE	
-	General
1	FDA Grade

ELEMENT OPTIONS	
APH	All Polyester Hardware

MAXX-TRAP

Housing-Specific Hybrid Elements - 6.75" OD

High-Solids Loading Microglass/Polypropylene Microfiber

► 6.75" OD HOUSING

Strainrite continues its tradition of state-of-the-art advanced filtration innovation with the MAXX-Trap, a continuous, high-solids loading (HSL) hybrid, that utilizes long strand small and large diameter fibers to provide a high solids loading, absolute-rated, pleated depth filter.

This hybrid filter easily works with most standard 6.75" outside diameter housing. The 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 compatibility for your most demanding applications.

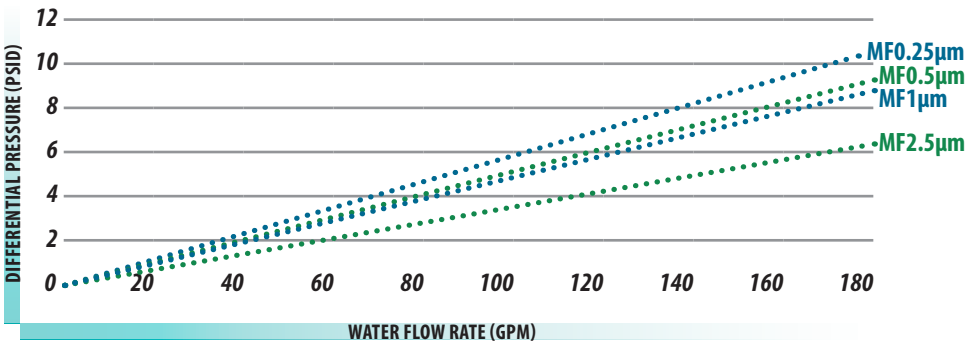
- ► HIGH EFFICIENCY MEDIA PROVIDES RELIABLE, CONSISTENT AND REPEATABLE FILTRATION
- ► 99% RATED FILTER MEDIA FOR CONSISTENT AND REPEATABLE PERFORMANCE
- ► LARGE DIAMETER PLEAT CONFIGURATION FOR HIGH FLOW RATES
- ► CAPABLE OF FLOW RATES UP TO 500GPM PER FILTER
- ► INJECTION MOLDED CAGE FOR SUPERIOR STRENGTH AND ELEMENT INTEGRITY
- ► THERMALLY BONDED CONSTRUCTION
- ► HIGH DIRT HOLDING CAPABILITY DUE TO EXTENSIVE SURFACE AREA REQUIRING FEWER FILTER CHANGEOUTS
- ► INSIDE-OUT FILTER RETAINS ALL CONTAMINANTS INSIDE THE FILTER DURING CHANGE-OUTS

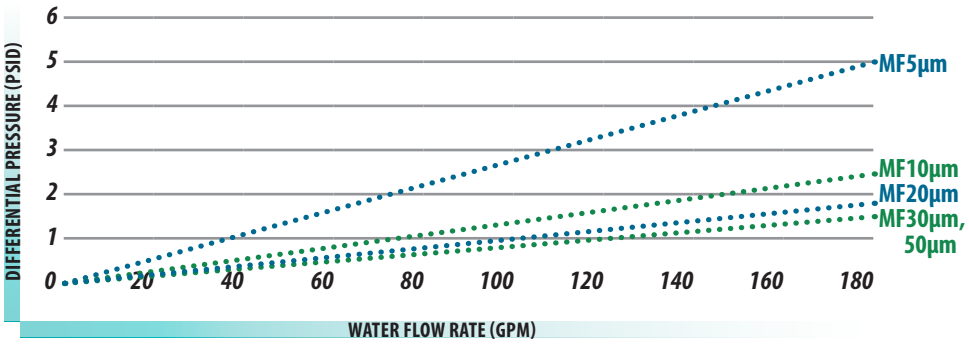
ORDER GUIDE

MF	2.5	MT	4	E	1	MF2.5MT4E1
FILTER MEDIA	MICRON RATING		ELEMENT LENGTH	O-RING MATERIAL	ELEMENT GRADE	

MICRON RATING			
MF - 0.25, 0.5, 1, 2.5, 5, 10, 20, 30, 50 GF - 0.2, 0.5, 1, 3, 5, 10, 15			
MAXIMUM OPERATING TEMPERATURE		**MAXIMUM DIFFERENTIAL PRESSURE**	
180°F (82°C) Continuous Duty		35 PSID @ 70°F (21°C)	
MAXIMUM FLOW RATES		**RECOMMENDED CHANGE-OUT**	
20" - 175 gpm | 40" - 350 gpm | 60" - 500 gpm		25 psid	
FILTER MEDIA	**END CAPS**	**SUPPORT MATERIAL**	**MOLDED CAGE**
Borosilicate Microglass Polypropylene Microfiber	Polypropylene	Polypropylene Polyester	Polypropylene
O-RINGS			
Buna N | Fluorocarbon | EPDM | Silicone | FEP Encapsulated Silicone			
CONSTRUCTION METHOD			
Thermal Bond			
NOMINAL TOP OUTSIDE DIAMETER			
6.75" (17.1 cm)			
LENGTHS			
20" (50.8 cm) | 40" (101.6 cm) | P1 - 12" (30.5 cm) | P2 - 26" (66.3 cm)			

PERFORMANCE CHARACTERISTICS POLYPROPYLENE 40" FILTER





ORDER OPTIONS

FILTER MEDIA	
MF	Polypropylene Microfiber
GF	Borosilicate Microglass

MICRON RATINGS
MF - 0.25, 0.5, 1, 2.5, 5, 10, 20, 30, 50 GF - 0.2, 0.5, 1, 3, 5, 10, 15

ELEMENT	
MT	MAXX-Trap

ELEMENT LENGTH	
2	20" (50.8 cm)
4	40" (101.6 cm)
P1	12" (30.5 cm)
P2	26" (66.3 cm)

O-RING MATERIAL	
S	Silicone (Standard O-ring)
B	Buna N (Standard gasket)
V	Fluorocarbon
E	EPDM
TV	FEP Encapsulated Fluoro.

ELEMENT GRADE	
-	General
1	FDA Grade

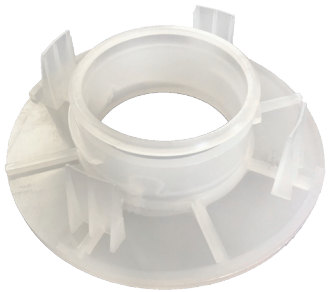
MAXX-PRO

Housing-Specific Hybrid Elements - 6.5" OD

Outside-In Polypropylene Microfiber with 226 O-rings

- ► AMINES
- ► HYDROCARBON
- ► CHEMICAL PLANTS
- ► PIPELINE FUELS
- ► PROCESS WATER
- ► WASTE WATER
- ► UTILITY WATER
- ► COOLING WATER

The Strainrite Companies is proud to add the MAXX-Pro to our family of large pleat geometry products. The MAXX-Pro filters are high efficiency, outside to inside flow direction liquid filtration cartridges designed for applications with high contaminant removal requirements. These filters are a direct replacement for the 3M 740™ series and others.



HF 338 end cap

MAXX-Pro cartridges are for use in filter housings that accept 6.5" (165 mm) outside diameter filter cartridges with 226 O-ring connections. The large diameter, ultra high surface area pleated cartridges are designed to provide the optimum combination of particle removal efficiency and contaminant holding capability with comparatively low flow resistance. Microfiber forms the basis of the filtration media utilized in MAXX-Pro filter cartridges.

Strainrite's manufacturing processes allow for tightly controlled specifications resulting in a filter media with consistent and predictable particle retention characteristics. MAXX-Pro cartridges are offered in micron grades ranging from 1 µm to 70 µm, and are typically used to remove solid contaminants.

740™ is a trademark of the 3M Corporation.

- ► LARGE DIAMETER PLEAT CONFIGURATION FOR HIGH FLOW RATES
- ► HIGH DIRT HOLDING CAPABILITY DUE TO EXTENSIVE SURFACE AREA
- ► 99% RATED FILTER MEDIA FOR CONSISTENT AND REPEATABLE PERFORMANCE
- ► INJECTION MOLDED CAGE FOR SUPERIOR STRENGTH AND ELEMENT INTEGRITY
- ► THERMALLY BONDED CONSTRUCTION
- ► VARIABLE PLEAT GEOMETRY ENSURES MAXIMIZED USABLE SURFACE AREA

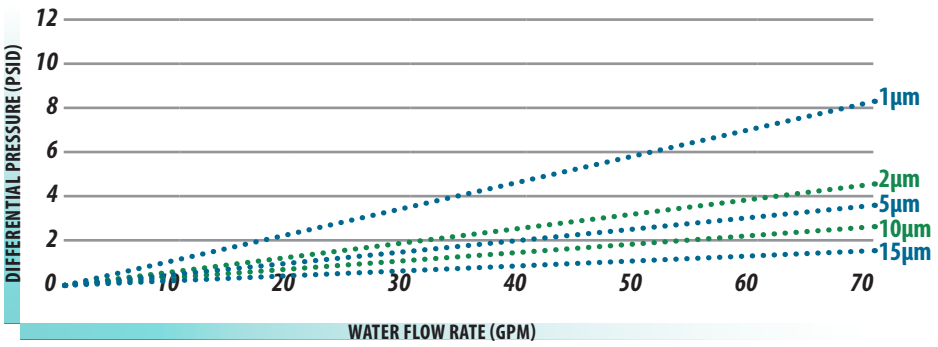
MAXX-PRO 226 O-RING

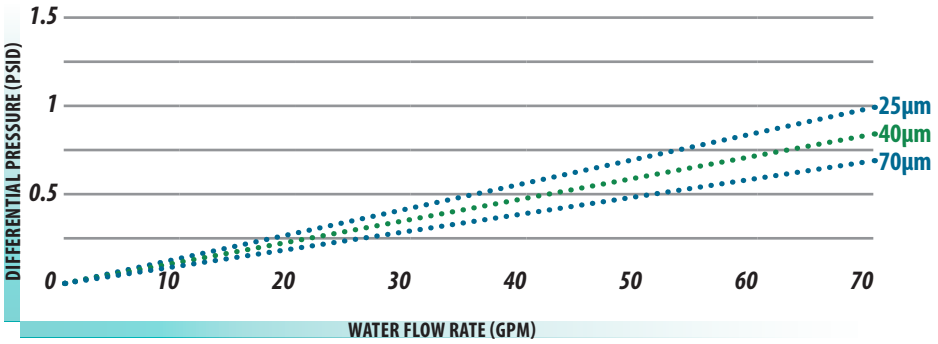
- ► EXTREMELY LOW RISK OF BY PASS FOR HIGH QUALITY FLUIDS
- ► NO LOOSE PARTS TO ASSEMBLE FOR EASY INSTALLATION
- ► NO SPRINGS OR CAPS TO LOSE REDUCES THE RISK OF BY PASS
- ► BROAD CHEMICAL COMPATIBILITY FOR MANY APPLICATIONS
- ► CONVENIENT HANDLE FOR EASY REMOVAL

ORDER GUIDE

MP	–	MF	10	4	C6	S	MP-MF104C6S
		FILTER MEDIA	MICRON RATING	ELEMENT LENGTH	END CAP CONFIGURATION	O-RING MATERIAL	

MICRON RATING			
1, 2, 5, 10, 15, 25, 40, 70			
MAXIMUM OPERATING TEMPERATURE			
180°F (82°C) Continuous Duty			
MAXIMUM FLOW RATES		**RECOMMENDED CHANGE-OUT**	
40" - 60-80 gpm		35 psid	
FILTER MEDIA	**END CAPS**	**SUPPORT MATERIAL**	**MOLDED CAGE**
Polypropylene Microfiber	Polypropylene	Polypropylene Polyester	Polypropylene
O-RINGS			
Buna N | Fluorocarbon | EPDM | Silicone | FEP Encapsulated Silicone			
CONSTRUCTION METHOD			
Thermal Bond			
NOMINAL TOP OUTSIDE DIAMETER			
6.5" (16.5 cm)			
LENGTHS			
40" (101.6 cm) | 60" (152.4 cm; *consult factory for availability*)			
PERFORMANCE CHARACTERISTICS			





ORDER OPTIONS

FILTER MEDIA	
MP	MAXX-Pro

ELEMENT	
MF	Polypropylene Microfiber

MICRON RATINGS
1, 2, 5, 10, 15, 25, 40, 70

ELEMENT LENGTH	
4	40" (101.6 cm)
6	60" (152.4 cm)*

**Consult factory for availability*

END CAP CONFIGURATION	
CF	Flat/224
C6	Flat/226
HF	Flat/338

O-RING MATERIAL	
S	Silicone (Standard O-ring)
B	Buna N (Standard gasket)
V	Fluorocarbon
E	EPDM
TV	FEP Encapsulated Fluoro.
TS	FEP Encapsulated Silicone*

**Not available in 338/Flat (HF)*

HIGH-FLOW

Housing-Specific Hybrid Elements - 6.25″ OD

Borosilicate Microglass or Polypropylene Microfiber

► 6.25″ OD HOUSING

As a leader in the dynamics of inside-out fluid filtration for over 35 years The Strainrite Companies is proud to add the HIGH-Flow to our family of large pleat geometry products. It is well known that inside out flow elements have higher dirt holding capabilities and offer hygienic superiority over typical outside-in fluid filtration filters.

HIGH-Flow filters' unique large pleat geometry make them capable of handling up to 500gpm in a 60″ length, which is a perfect solution for high flow rate applications.

- ► LARGE DIAMETER PLEAT CONFIGURATION FOR HIGH FLOW RATES
- ► HIGH DIRT HOLDING CAPABILITY DUE TO EXTENSIVE SURFACE AREA
- ► 99% RATED FILTER MEDIA FOR CONSISTENT AND REPEATABLE PERFORMANCE
- ► THERMALLY BONDED CONSTRUCTION
- ► CAPABLE OF FLOW RATES UP TO 500GPM PER FILTER
- ► INJECTION MOLDED CAGE FOR SUPERIOR STRENGTH AND ELEMENT INTEGRITY
- ► INSIDE-OUT FILTER RETAINS ALL CONTAMINANTS INSIDE THE FILTER DURING CHANGE-OUTS
- ► AVAILABLE IN 20″, 40″, 60″ & 80″ LENGTHS

ORDER GUIDE

MF	→	6	→	HF	→	2	→	V	→	1	→	APH	→	MF6HF2V1APH
FILTER MEDIA		MICRON RATING				ELEMENT LENGTH		O-RING MATERIAL		ELEMENT GRADE		ELEMENT OPTIONS		

MICRON RATING			
MF - 1, 2, 4.5, 6, 10, 20, 40, 70, 90 GF - 2, 6, 10, 20, 30			
MAXIMUM OPERATING TEMPERATURE		**MAXIMUM DIFFERENTIAL PRESSURE**	
180°F (82°C) Continuous Duty		35 PSID @ 70°F (21°C)	
MAXIMUM FLOW RATES		**RECOMMENDED CHANGE-OUT**	
20" - 175 gpm | 40" - 350 gpm | 60" - 500 gpm		25 psid	

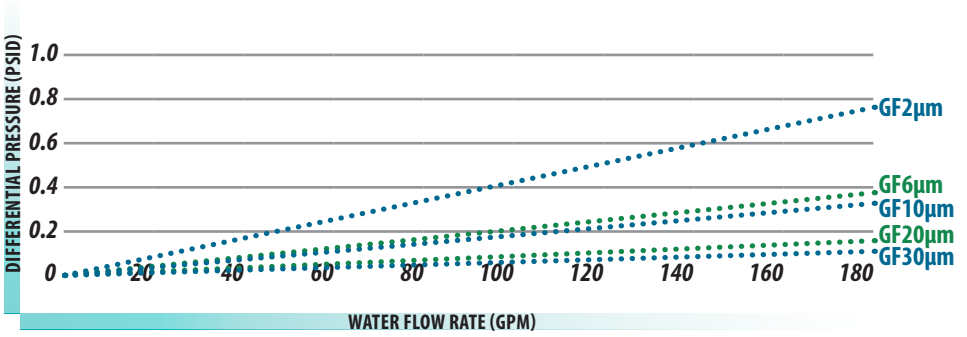
PRESSURE DROP RATES (PSID/GPM)

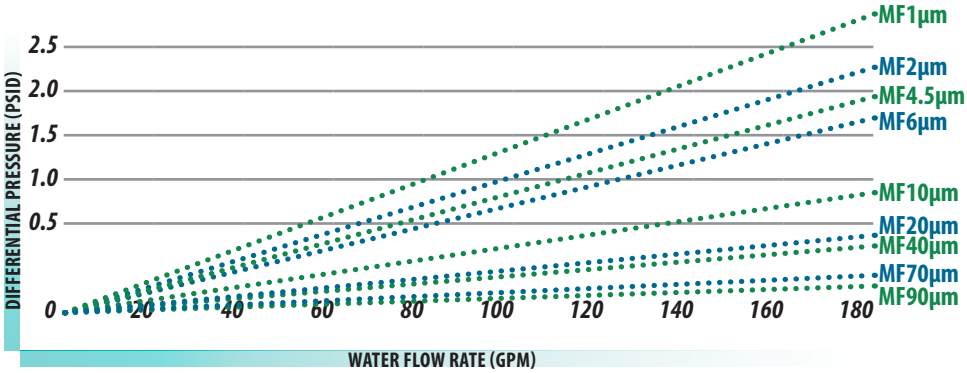
MICRON	20"	40"	60"
2	0.00637	0.00419	0.00279
6	0.00417	0.00208	0.00140
10	0.00368	0.00182	0.00123
20	0.00127	0.00064	0.00043
30	0.00106	0.00053	0.00035

FILTER MEDIA	END CAPS	SUPPORT MATERIAL	MOLDED CAGE
Borosilicate Microglass Polypropylene Microfiber	Polypropylene Polyester	Polypropylene Polyester	Polypropylene Polyester

O-RINGS
Buna N | Fluorocarbon | EPDM | Silicone | FEP Encapsulated Silicone
CONSTRUCTION METHOD
Thermal Bond
NOMINAL TOP OUTSIDE DIAMETER
6.25" (15.88 cm)
LENGTHS
20" (50.8 cm) | 40" (101.6 cm) | 60" (152.4 cm) | 80" (203.2 cm)

PERFORMANCE CHARACTERISTICS 40" FILTER





ORDER OPTIONS

FILTER MEDIA	
MF	Polypropylene Microfiber
GF	Borosilicate Microglass

MICRON RATINGS
MF - 1, 2, 4.5, 6, 10, 20, 40, 70, 90 GF - 2, 6, 10, 20, 30

ELEMENT	
HF	HIgh-Flow

ELEMENT LENGTH	
2	20" (50.8 cm)
4	40" (101.6 cm)
6	60" (152.4 cm)
8	80" (203.2 cm)

O-RING MATERIAL	
S	Silicone (Standard O-ring)
B	Buna N (Standard gasket)
V	Fluorocarbon
E	EPDM
TV	FEP Encapsulated Fluoro.

ELEMENT GRADE	
-	General
1	FDA Grade

ELEMENT OPTIONS	
APH	All Polyester Hardware

MADD-MAXX JUNIOR

Housing-Specific Hybrid Elements - 4" OD

Borosilicate Microglass, Polypropylene Microfiber, Polypropylene Felt or Resin-Bonded Polyester

- ► INKS, PAINTS AND COATINGS
- ► PROCESS WATER
- ► ADHESIVES
- ► PETROLEUM PRODUCTS
- ► BEVERAGES
- ► CHEMICALS
- ► HYDRAULIC FLUIDS
- ► LUBRICANTS
- ► COOLANTS
- ► OEM EQUIPMENT

When filter surface area must be increased, and overall assembly size must be decreased, the MADD-MAXX JUNIOR filter and matching SRL series filter housing* from Strainrite are the perfect fit. Their compact design combines the benefits of high surface area with the attributes inside-to-outside flow. The MADD-MAXX JUNIOR filter platform is great for applications where non-pleated bag filters don't quite have enough surface area do the job or don't fit in the allotted space, and for OEM equipment with ergonomic requirements.

These pleated cartridges are 3" diameter, intermediate in size between typical cartridge filters (2.55-2.7" diameter) and high flow format MADD-MAXX filters (7" diameter). These filters are available in 10" lengths (size 25), 22" lengths (size 50), or in custom lengths quoted on request.

With needle punch felt bag filter material pleated into a MADD-MAXX JUNIOR filter (size 50), we place more than 2.5 x the surface area of a #2 size filter bag into a filter a fraction of the size, with a much smaller housing footprint.

With traditional cartridge filter media (such as microfiber polypropylene or glass fiber,) we engineer approximately 50% additional area into each filter, compared to traditional filters of the same length.

- ► BROAD SELECTION OF FILTRATION MEDIA SOLVES A WIDE VARIETY OF CHALLENGES
- ► WIDE MICRON RATING (PORE SIZE) SELECTION ENABLES FINE-TUNING OF CONTAMINANT REMOVAL WITH KEY INGREDIENT (SUCH AS PIGMENT) TRANSMISSION
- ► INSIDE-TO-OUTSIDE FLOW DESIGN RETAINS SOLIDS INSIDE OF THE FILTER – REDUCES OPERATOR EXPOSURE TO SOLIDS AND MINIMIZES CLEANING LABOR
- ► PLEATED, LARGE-DIAMETER FILTER CONSTRUCTION MAXIMIZES SURFACE AREA – INCREASING FILTER LIFE AND THROUGHPUTS COMPARED TO TRADITIONAL CARTRIDGE FILTERS OR NON-PLEATED BAGS.
- ► SMALL AND COMPACT DESIGN SHRINKS FOOTPRINT
- ► JUNIOR SIZE REDUCES HOLDUP VOLUME
- ► CIRCUMFERENTIAL O-RING SEAL IS RELIABLE AND PREVENTS BYPASS
- ► FDA GRADE FILTERS CONTAIN COMPONENTS MEETING REQUIREMENTS OF 21 CFR
- ► ROBUST OUTER CAGE STRENGTHENS CARTRIDGE CONSTRUCTION
- ► PLUG-IN TYPE FILTER INSTALLATION IS EASY FOR OPERATORS

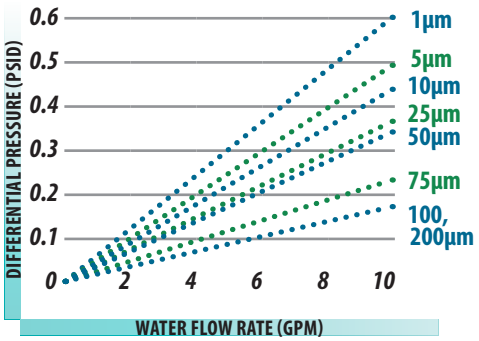
** Use Strainrite SRL 25 series bag filter housing with basket removed for MMJ size 25 filter. Use Strainrite SRL 50 series bag filter housing with basket removed for MMJ size 50 filters. The SRL25 and SRL50 housings can also be used respectively with Strainrite size 25 or size 50 traditional filter bags (with Z flange, or with ring top) by re-installing the basket.*

ORDER GUIDE

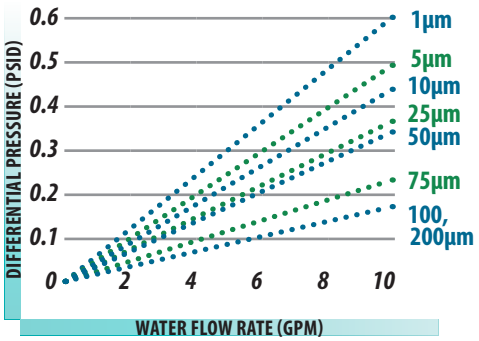
RB	→	25	→	MMJ	→	25	→	V	→	-	→	RB25MMJ25V
FILTER MEDIA		MICRON RATING				SIZE CODE		O-RING MATERIAL		ELEMENT GRADE		

MICRON RATING		
APXL:1,5,10, 50, 75,100,200 SPXL:1,5,10, 50, 75,100,200	GFA*: 0.2, 0.45, 0.65,1,3,5,10,20	MF: 0.25, 0.5,1,2.5,5,8,15,20,30,40 RB*: 1,5,10,25,50,75,100, 200
MAXIMUM OPERATING TEMPERATURE	**RECOMMENDED CHANGE-OUT**	**O-RINGS**
180°F (82°C) Continuous Duty	35 psid	EPDM | Silicone | Fluorocarbon
TYPICAL FLOW RATES	**HARDWARE**	**CONSTRUCTION METHOD**
Size 25: 0-25 GPM | Size 50: 5-50 GPM	Polypropylene	Thermal Bond
FILTER MEDIA		
APXL – Polyester Felt SPXL – Polypropylene Felt	GFA – Glass Fiber with Acrylic Binder, polyester support	MF – Polypropylene Microfiber RB – Resin Bonded Polyester

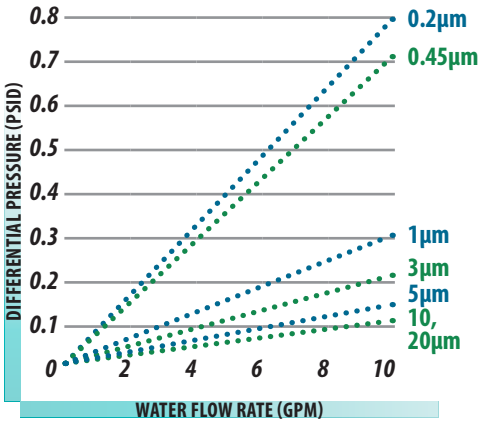
PERFORMANCE CHARACTERISTICS - APXL



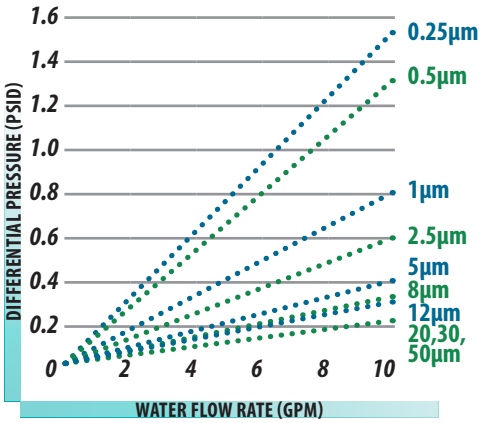
PERFORMANCE CHARACTERISTICS - SPXL



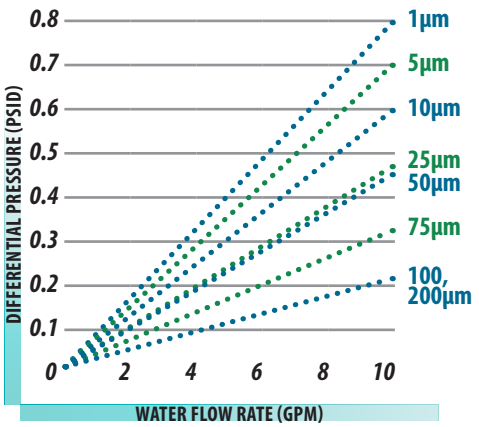
PERFORMANCE CHARACTERISTICS - GFA



PERFORMANCE CHARACTERISTICS - MF



PERFORMANCE CHARACTERISTICS - RB



** GFA 0.2,0.45,5,10,20 µm not available in FDA Grade RB media not available in FDA Grade.*

ORDER OPTIONS

FILTER MEDIA

APXL	Polyester Felt
SPXL	Polypropylene Felt
GFA	Glass Fiber w/ Acrylic Binder, polyester support
MF	MF - Polypropylene Microfiber
RB	RB - Resin Bonded Polyester

GFA 0.2,0.45,5,10,20 µm not available in FDA Grade RB media not available in FDA Grade.

MICRON RATINGS

APXL:1,5,10, 50, 75,100,200
SPXL:1,5,10, 50, 75,100,200
GFA*: 0.2, 0.45, 0.65,1,3,5,10,20
MF: 0.25, 0.5,1,2.5,5,8,15,20,30,40
RB*: 1,5,10,25,50,75,100, 200

ELEMENT

MMJ	MAD-MAXX Junior

SIZE CODE

25	4"D x 10"L
50	4"D x 22"L

All dimensions are nominal

O-RING MATERIAL

E	EPDM
S	Silicone
V	Fluorocarbon

ELEMENT GRADE

-	General
1	FDA Grade

Recommended Accessory: item 353923, SRL CARTRIDGE REMOVAL TOOL - for removing filter with tight O-ring squeeze

MICRON RATED FELT FILTER BAGS

Sure-Weld

The Classic

- PAINTS & COATINGS
- GENERAL CHEMICAL
- PRODUCED WATER FROM GAS DRILLING
- PROCESS WATER
- INK INDUSTRY
- FOOD AND BEVERAGE INDUSTRY

The Strainrite Companies offer the widest range of needle punch felt filters in the market. We have formed long-term strategic partnerships with North America's largest and most respected needle punch manufacturers.

All of our fabrics are manufactured on state-of-the-art high speed needling equipment that continuously monitor key specifications in real time resulting in the most uniform and consistent fabric across the entire web in our industry.

By combining our technically advanced converting process with the industry's most reliable media, The Strainrite Companies offers The Classic, a felt filter bag that leads in product quality, reliability and repeatability.

THE CLASSIC

- FELT FILTER BAGS OFFER SEVERAL DISTINCT ADVANTAGES OVER STANDARD STRING WOUND AND MELT BLOWN CARTRIDGES
- HYGIENICALLY SUPERIOR DUE TO INSIDE-OUT FLOW DYNAMICS, ALL IMPURITIES ARE CONTAINED INSIDE THE FILTER BAG
- LOWER TOTAL COSTS DUE TO HIGHER SOLIDS LOADING CAPABILITIES
- REDUCED LABOR COSTS FROM FEWER CHANGE-OUTS
- FEWER SPENT FILTERS RESULTING IN REDUCED DISPOSAL COSTS
- REDUCED PRODUCT LOSS DUE TO LOWER HOLD UP VOLUMES
- USER FRIENDLY BECAUSE IT IS EASIER AND QUICKER TO CHANGE ONE FILTER BAG VERSUS SEVERAL 10" CARTRIDGES

SURE-WELD

- HIGHER EFFICIENCIES DUE TO TIGHTER SEAL TOLERANCES
- NO THREAD, WHICH ELIMINATES POTENTIAL SILICONE CONTAMINATION FROM THIS LIKELY SOURCE
- PUNCTURE FREE OVERLAP SIDE SEAMS PROVIDE ADDED STRENGTH AND IMPROVES EFFLUENT CONSISTENCY

ORDER GUIDE

SP	→	10	→	P	→	1	→	P	→	WE	→	SP10P1PWE
BAG MATERIAL		MICRON RATING		FINISH		SIZE		RING		OPTIONS		

The Sure-Weld Felt Filter Bag, with our proprietary "Tri-Seal" P-flange provides a distinct advantage compared to conventional sewn filter bag with metal snap rings or industry standard poly flanges. Using state-of-the-art welding technology specifically designed to bond needle punched textile fabrics, we are able to offer the strongest most reliable welded filter bags on the market.

Our Sure-Weld filters come with the security of an overlap side seam, which eliminates the "bump" that occurs with conventional sewn snap ring filters. By welding to a "Tri-Seal" P-flange our fully welded filter bags offer unparalelled seal security, which delivers superior filtrate consistancy.

AVAILABLE MICRON RATINGS
Polypropylene - 0.5*, 1T, 1, 3, 5, 10, 25, 50, 75, 100, 150, 200 Polyester - 0.5*, 1T, 1, 3, 5, 10, 25, 50, 75, 100, 150, 200 Nomex - 1, 5, 10, other microns available on request Nylon - Available on request

POLYPROPYLENE - CHEMICAL COMPATIBILITY**

TEMPERATURE	CHEMICAL	COMPATIBILITY
200°F	Acids	Excellent
200°F	Alkali	Excellent
200°F	Oxidizing Agents	Excellent
200°F	Solvents	Average

POLYESTER - CHEMICAL COMPATIBILITY**

TEMPERATURE	CHEMICAL	COMPATIBILITY
300°F	Weak Acids	Good
300°F	Strong Acids	Good
300°F	Weak Alkali	Poor
300°F	Strong Alkali	Poor
300°F	Solvents	Very Good
300°F	Petroleum Products	Very Good

*Not available in Sure-Weld
**Reflective of Filter Bag Material only. Please consult with your Application Engineer to verify specific chemical compatibility

ORDER OPTIONS

MATERIAL

SP	Polypropylene Felt
AP	Polyester Felt
HT	*Nomex
N	*Nylon

MICRON RATINGS

SP	0.5*, 1T, 1, 3, 5, 10, 25, 50, 75, 100, 150, 200
AP	0.5*, 1T, 1, 3, 5, 10, 25, 50, 75, 100, 150, 200
HT	0.5, 1T, 1, 3, 5, 10, 25, 50, 75, 100, 150, 200
N	0.5, 1T, 1, 3, 5, 10, 25, 50, 75, 100, 150, 200

FINISH

S	Singed
P	Plain
B	*Singed Both Sides
C	*Cerex Cover
N	*Nylon Mesh Cover

SIZE

1	7" x 16"
2	7" x 32"
3	*4.08" x 8"
4	*4.08" x 14"
25	*4" x 9"
30	*4.118" x 10"
50	*4" x 21"
65	*4.118" x 22"

RING

P	Polypropylene P-Flange
M	Polypropylene M-Flange
PER	Polyester P-Flange
MER	Polyester M-Flange
DS	*Draw String
S	*Carbon Steel Ring
SS	*Stainless Steel Ring
PR	*Polypropylene Ring
N	*No Ring
Z	*Polypropylene Z-Flange**

OPTIONS

WE	Sure-Weld
HS	*Handle-Strap
AS	*Fully Stitched

*Not available in Sure-Weld
** Fits Size 25, 50 bags only

MICRON RATED MESH FILTER BAGS

Monofilament Mesh
Multifilament Mesh

- ▶ PAINTS
- ▶ COATINGS
- ▶ GENERAL CHEMICAL
- ▶ PROCESS WATER
- ▶ INK INDUSTRY
- ▶ FOOD AND BEVERAGE INDUSTRY

Monofilament Mesh Filter Bags are manufactured in a wide range of micron ratings using a single filament weave. Single filament woven media provides two distinct advantages over multifilament media, excellent fabric strength and perfectly uniformed openings.

Monofilament Mesh is available in 1 through 800 microns as standard and larger for special orders. For applications where clients require no fiber migration at a high level of efficiency, monofilament material is a perfect fit.

Multifilament Mesh Filter Bags are manufactured in a narrow range of micron ratings using a multi-strand weave.

Multi-strand woven media is very cost effective for those applications where nominal filtration is required. The media openings are nominally spaced apart and require the use of a support basket to optimize filter performance. This media is excellent when applications require fiber free products from 100 micron up to 800 micron nominal efficiency range.

MONOFILAMENT MESH

- ▶ NYLON MONOFILAMENT IS FDA AND EU COMPLIANT
- ▶ RELIABLE AND PREDICTABLE FILTRATION PERFORMANCE DUE TO A HIGHLY UNIFORMED HOLE CONFIGURATION
- ▶ NON-FIBER RELEASING MATERIAL FOR HIGH PURITY APPLICATIONS
- ▶ EXTREMELY WIDE CHEMICAL COMPATIBILITY
- ▶ VERY HIGH TENSILE STRENGTH
- ▶ HYGIENICALLY SUPERIOR DUE TO INSIDE-OUT FLOW DYNAMIC, ALL IMPURITIES ARE CONTAINED INSIDE THE ELEMENT
- ▶ MINIMAL PRODUCT LOSS DUE TO QUICKER DRAIN OFF OF FILTERED PRODUCT

MULTIFILAMENT MESH

- ▶ AVAILABLE IN A HIGHLY CHEMICAL RESISTANT NYLON MATERIAL
- ▶ VERY COST EFFECTIVE
- ▶ NON-FIBER RELEASING MATERIAL
- ▶ REDUCED PRODUCT LOSS DUE TO VIRTUALLY NO MEDIA HOLD UP VOLUME
- ▶ EXCELLENT NOMINAL EFFICIENCY PERFORMANCE WHEN UTILIZED WITH A SUPPORT BASKET
- ▶ SUPERIOR TO CARTRIDGE FILTRATION DUE TO INSIDE-OUT FLOW DYNAMIC, ALL IMPURITIES ARE CONTAINED INSIDE THE FILTER BAG

ORDER GUIDE

NMO	100	P	1	P	-	NMO100P1P
BAG MATERIAL	MICRON RATING	FINISH	SIZE	RING	OPTIONS	

Monofilament Mesh is a woven fabric where each thread is a single filament, boasting excellent strength with no fiber migration. Providing extra strength and abrasion resistance, and offering a broad range of chemical compatibility, Monofilament Mesh bags are available in nylon, polyester and polypropylene.

Mutifilament Mesh is a woven fabric where each strand consists of many smaller diameter threads. Multifilament Mesh filters are manufactured in a narrow range of micron ratings using a multi-strand weave, and are available in nylon and polyester.

ORDER OPTIONS

STYLE

-	Standard
A	*Automotive

** Not available for NMU, PEMU*

MATERIAL

NMO	Nylon Monofilament
PEMO	*Polyester Monofilament
POMO	*Polypropylene Monofilament
NMU	Nylon Multifilament
PEMU	Polyester Multifilament

** Minimum order quantities may apply*

MICRON RATINGS

NMO PEMO POMO	1, 5, 10, 25, 35, 50, 75, 100, 125, 150, 200, 250, 300, 400, 600, 800
NMU PEMU	100T, 100F, 150, 200, 250, 300, 400, 600, 600T, 800

FINISH

P	Plain

SIZE

1	7" x 16"
2	7" x 32"
3	4.08" x 8"
4	4.08" x 14"
25	4" x 9"
30	4.118" x 10"
50	4" x 21"
65	4.118" x 22"

RING

P	Polypropylene P-Flange
M	Polypropylene M-Flange
PER	Polyester P-Flange
MER	Polyester M-Flange
DS	Draw String
S	Carbon Steel Ring
SS	Stainless Steel Ring
PR	Polypropylene Ring
N	No Ring
Z	*Polypropylene Z-Flange

** Fits Size 25, 50 bags only*

OPTIONS

HS	Handle-Strap

POXL & PEXL X-TRA LIFE FILTER BAGS

Extended Life Bags

- INKS, PAINTS & COATINGS
- GENERAL CHEMICAL
- PROCESS WATER
- FOOD AND BEVERAGE INDUSTRY

X-TRA Life Filter Bags utilize state-of-the-art needling technology providing outstanding filtration performance in a variety of applications.

Our polyester and polypropylene X-TRA Life materials utilize a proprietary fiber blend configuration to create a media that is heavier, thicker and stronger than standard felted media. This formulation delivers enhanced efficiencies, without increasing initial differential pressure.

Both the POXL and PEXL bags are ideal for removing gels, irregular shaped particles in liquid streams with a wide particle size distribution. X-TRA Life Filter Bags are available in designs that comply with both FDA and EC requirements for food and beverage contact.

- FIELD TESTS ARE VERIFYING THAT OUR POXL AND PEXL FILTERS LAST AN AVERAGE OF 2 TO 4 TIMES LONGER THAN CONVENTIONAL BAGS
- REDUCED OPERATING COSTS DUE TO FEWER BAG CHANGEOUTS
- REDUCED LABOR COSTS ASSOCIATED WITH FEWER BAG CHANGES
- REDUCED DISPOSAL COST
- INCREASED PRODUCTIVITY DUE TO STAYING ONLINE LONGER BETWEEN CHANGEOUTS
- THERMALLY TREATED FABRIC FINISH WHICH VIRTUALLY ELIMINATES THE POSSIBILITY OF FIBER MIGRATION
- FULLY WELDED CONSTRUCTION UTILIZING OUR SURE-WELD TECHNOLOGY IS STANDARD ON POXL BAGS

ORDER GUIDE

POXL	→	10	→	S	→	2	→	M	→	WE	→	POXL10S2MWE
BAG MATERIAL		MICRON RATING		FINISH		SIZE		RING		OPTIONS		

POXL and PEXL bags are available with Sure-Weld technology. Our proprietary "Tri-Seal" P-flange provides a distinct advantage compared to conventional sewn filter bag with metal snap rings or industry standard poly flanges. Using state-of-the-art welding technology specifically designed to bond needle punched textile fabrics, we are able to offer the strongest most reliable welded filter bags on the market.

Our Sure-Weld filters come with the security of an overlap side seam, which eliminates the "bump" that occurs with conventional sewn snap ring filters. By welding to a "Tri-Seal" P-flange our fully welded filter bags offer unparalelled seal security, which delivers superior filtrate consistancy.

AVAILABLE MICRON RATINGS		
POXL - Polypropylene Extended Life - 1, 5, 10, 25, 50, 75, 100 PEXL - Polyester Extended Life - 1, 5, 10, 25, 50, 75, 100		
POLYPROPYLENE - CHEMICAL COMPATIBILITY**		
TEMPERATURE	**CHEMICAL**	**COMPATIBILITY**
200°F	Acids	Excellent
200°F	Alkali	Excellent
200°F	Oxidizing Agents	Excellent
200°F	Solvents	Average
POLYESTER - CHEMICAL COMPATIBILITY**		
TEMPERATURE	**CHEMICAL**	**COMPATIBILITY**
300°F	Weak Acids	Good
300°F	Strong Acids	Good
300°F	Weak Alkali	Poor
300°F	Strong Alkali	Poor
300°F	Solvents	Very Good
300°F	Petroleum Products	Very Good

***Reflective of Filter Bag Material only. Please consult with your Application Engineer to verify specific chemical compatibility*

ORDER OPTIONS

MATERIAL	
POXL	Polypro. Extended Felt Life
PEXL	Polyester Extended Felt Life
MICRON RATINGS	
POXL - 1, 5, 10, 25, 50, 75, 100 PEXL - 1, 5, 10, 25, 50, 75, 100	
FINISH	
S	Singed
N	Nylon Mesh Cover
SIZE	
1	7" x 16"
2	7" x 32"
RING	
P	Polypropylene P-Flange
M	Polypropylene M-Flange
PER	Polyester P-Flange
MER	Polyester M-Flange
OPTIONS	
WE	Sure-Weld

EVP/EVP-A ENHANCED VERTICAL PLEAT

Extended Life Bags

- GLYCOLS
- AMINES
- COOLANTS
- ADHESIVES
- RESINS
- PETRO-CHEMICALS
- FINE CHEMICALS
- PLATING SOLUTIONS
- FOOD & BEVERAGE APPLICATIONS
- INKS, PAINTS & COATINGS
- COOLING TOWERS
- DOWN WELL INJECTION
- CUTTING FLUIDS
- HIGH PURITY WATER

Strainrite's EVP (Enhanced Vertical Pleat) filters are the product of years of successful, application specific filtration in a variety of industries, using the Model 8T as the genesis of the Value-Life Series.

By working closely with our distributor partners, and their valued customers, we have learned how to amplify the critical features that make the EVP the greatest value in the filtration marketplace today. With proprietary advances in pleat profile and rigidity, graded density materials of construction, and utilized surface area, no filter element provides equal filtration performance, life and loading capacity at a similar price.

- OPTIMIZED PLEAT PROFILE RIGIDITY PROVIDES > 50% INCREASES IN SURFACE AREA UTILIZATION INCREASE AND PROTECTS FINAL FILTER MEDIA FROM PREMATURE BLINDING AND INCREASES FILTER LIFE
- TRUE GRADED DENSITY DESIGN AND INCREASED SURFACE AREA
- REDUCED FILTER ELEMENT DISPOSAL COSTS
- LONGER, UNINTERRUPTED RUN TIMES
- REDUCED EMPLOYEE EXPOSURE, REDUCED PRODUCT LOSS AND REAL LABOR COST-SAVINGS DUE TO FEWER FILTER CHANGE-OUTS
- NO EQUIPMENT MODIFICATION REQUIRED, FITS ALL INDUSTRY STANDARD #1 AND #2 SIZE BAG HOUSINGS
- CARBON STEEL AND STAINLESS STEEL RINGS AND PLASTIC FLANGES; HANDLE STRAP INCLUDED
- OPTIONAL ZERO-BYPASS VESSELS AVAILABLE

EVP-A

- FDA COMPLIANT

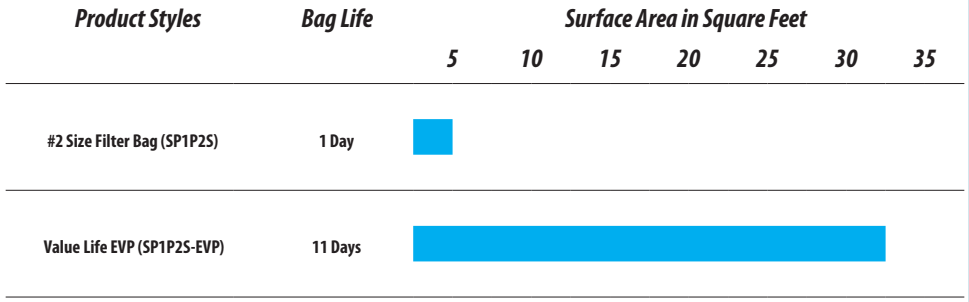
AQUA-RITE EVP

- ABSOLUTE RATED COVER PROVIDES PROTECTION AND CLASSIFICATION WHILE MAINTAINING THE GRADIENT DEPTH OF THE STANDARD EVP

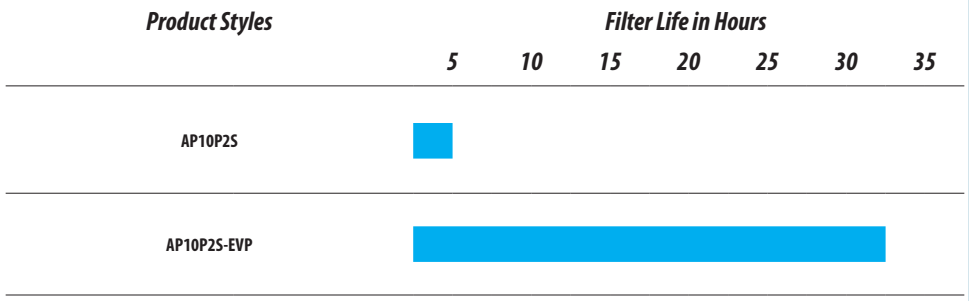
ORDER GUIDE

SP	25	A	P	2	P	EVP	SP25AP2PEVP
BAG MATERIAL	MICRON RATING	EFFICIENCY RATING	FINISH	SIZE	RING	OPTIONS	

RESULTS FROM FIELD CASE STUDIES - SURFACE AREA AND LIFE IMPROVEMENT



RESULTS FROM FIELD CASE STUDIES - WASTE WATER STUDY



OPTIMIZED PLEAT PROFILE

14 square feet (size 2) of media versus 4 square feet of media standard bag

7 square feet (size 1) of media versus 2 square feet of media standard bag

Fits in standard size 1 / size 2 housing

ORDER OPTIONS

MATERIAL

SP	Polypropylene Felt
AP	Polyester Felt*
AR	Aqua-Rite Polypropylene Felt*

*Not available in Absolute efficiency

MICRON RATINGS

1T, 1, 5, 10, 25, 50, 75*, 100*, 150*, 200*

*Not available in Absolute efficiency

EFFICIENCY RATING

A	Absolute
-	Nominal

FINISH

S	Singed*
P	Plain

*Not available in Absolute efficiency

SIZE

1	7" x 16"
2	7" x 32"

RING

P	Polypropylene P-Flange
M	Polypropylene M-Flange
PER	Polyester P-Flange* **
MER	Polyester M-Flange* **
S	Carbon Steel Ring**
SS	Stainless Steel Ring**

*Not available in Aqua-Rite
**Not available in Absolute efficiency

OPTIONS

EVP	Enhanced Vertical Pleat

AA - ADDITIONAL AREA NEEDLE-PUNCH FELT

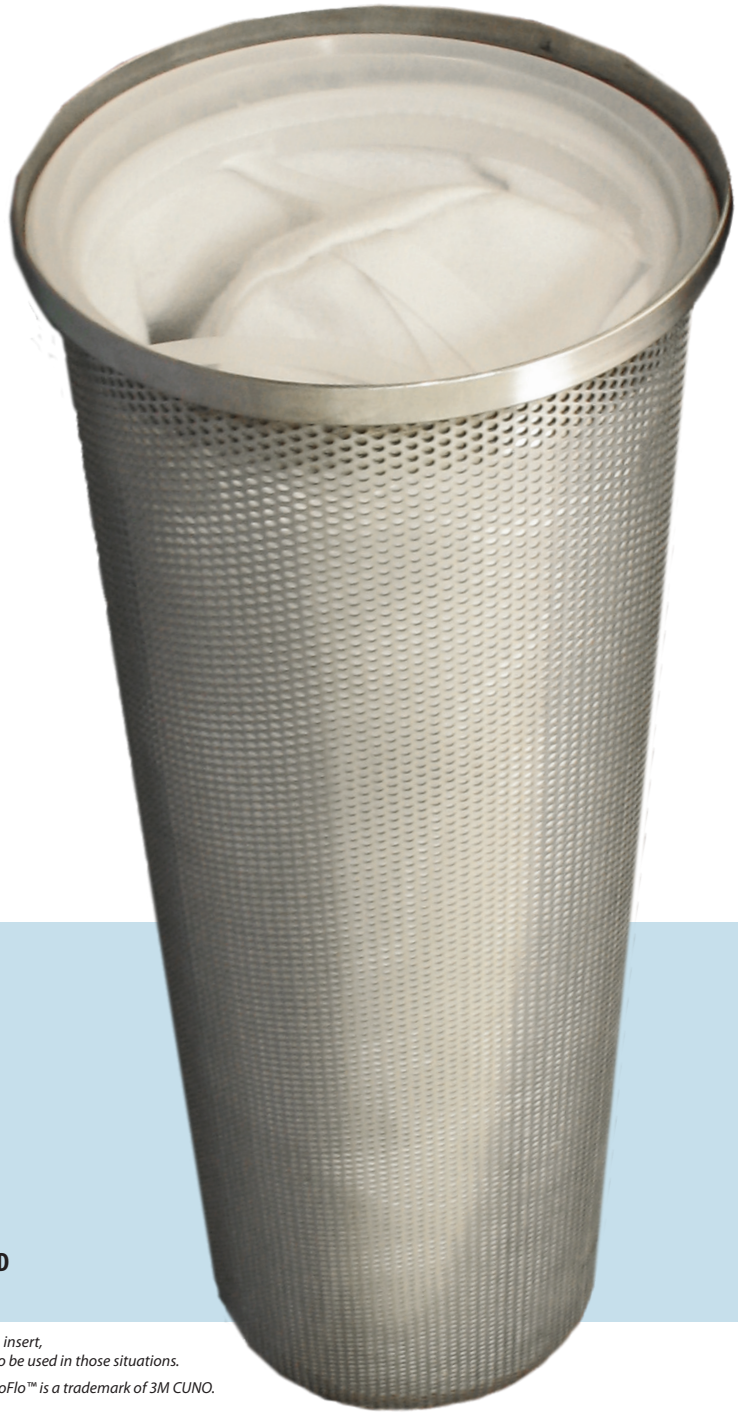
Extended Life Bags

- ▶ INKS, PAINTS & COATINGS
- ▶ EDIBLE OILS
- ▶ PROCESS WATER
- ▶ WASTE WATER
- ▶ FOOD & BEVERAGE INDUSTRY

Added Area AA bags provide 65% more surface area and frequently provide a vastly disproportionate benefit – life advantages of 4-5 x have been reported (actual benefit for a given application must be assessed on a case-by-case basis).

The Strainrite Companies offer the widest range of needle punch felt filters in the market. We have formed long term strategic partnerships with North America's largest and most respected needle punch manufacturers.

All of our fabrics are manufactured on state-of-the art high speed needling equipment that continuously monitor key specifications in real time resulting in the most uniform and consistent fabric across the entire web in our industry. By combining our technically advanced converting process with industry's most reliable media The Strainrite Companies offers The AA, a felt filter bag that leads in product quality, reliability and repeatability.



- ▶ 65% MORE SURFACE AREA THAN YOUR STANDARD SIZE 2 BAG FILTER
- ▶ UP TO 50% MORE FLOW THAN YOUR STANDARD SIZE 2 BAG FILTER
- ▶ LOWER TOTAL COSTS DUE TO HIGHER SOLIDS LOADING CAPABILITIES
- ▶ REDUCED LABOR COSTS FROM FEWER CHANGE-OUTS
- ▶ SMALLER HOUSING FOOT-PRINT IN NEW APPLICATION
- ▶ LOWER HOLD-UP VOLUME (67% LESS)
- ▶ LESS PRODUCT DRAG-OUT
- ▶ BAGS ARE FULLY WELDED, AVAILABLE IN BOTH 100% POLYPROPYLENE AND 100% POLYESTER CONSTRUCTION

For BRB-AA bags that will not be placed in a fully-welded Strainrite AA basket or will be installed using a non-welded AA insert, contact The Strainrite Companies or your distributor for additional ordering instructions – a length suffix code must also be used in those situations.

ORDER GUIDE

SP	→	10	→	S	→	1	→	P	–	AA	→	SP10S1P-AA
BAG MATERIAL		MICRON RATING		FINISH		SIZE		RING		OPTIONS		

The BRB-AA Resinator filter bag combines the benefits of added filter area with a resin-bonded filter medium that provides extra-ordinary life and high quality filtration for coatings, resins, paints, and adhesives. The non-compressible filter medium is ideal for high viscosity fluids. The phenolic-resin impregnated filter medium is tolerant to temperatures of 250°F when used with polyester hardware.

Note: The BRB-AA Resinator filter bag is not intended for food, beverage and pharmaceutical applications.

STANDARD BAGS VS. AA BAGS

BAG SIZE	DIAMETER (INCHES)	LENGTH (INCHES)	TOTAL AREA (SQUARE FEET)
1	7.000	16.0	2.44
1-AA	7.000		4.03
2	7.000	30.5	4.66
2-AA	7.000		7.69

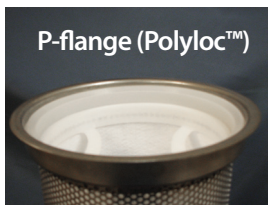
RETROFIT / REPLACEMENT FEATURES

Retrofits in standard #1 and #2 bag filter vessels (requires a basket change)

Ease of insertion with fully-welded bottoms

Drop-in replacement for DuoFlo™ and Hayflow™ (no basket change required)

Utilizes both Strainrite P-flange (Polyloc™) and M-Flange (Sentinel™)



ORDER OPTIONS

MATERIAL

SP	Polypropylene Felt
AP	Polyester Felt
POXL	Extended Life Polypropylene
PEXL	Extended Life Polyester
BRB	Resin-Bonded Polyester Felt

MICRON RATINGS

AP: 1T, 1, 5,10, 25, 50, 75, 100, 200
SP: 1T, 1, 5,10, 25, 50, 75, 100, 200
POXL: 1, 5,10, 25, 50, 75, 100
PEXL: 1, 5,10, 25, 50, 75, 100
BRB: 1T,1,5,10,25,50,75,100,200

FINISH

S	*Singed
P	**Plain

SIZE

1	7" x 16"
2	7" x 32"

RING

P	Polypropylene P-Flange
M	Polypropylene M-Flange
PER	†Polyester P-Flange
MER	†Polyester M-Flange
S	Carbon Steel Ring
SS	Stainless Steel Ring

OPTIONS

AA	Added Area††
AAH	Added Area (Hayflow equivalent)††
AAC	Added Area (Cuno equivalent)††
SL-AA	BRB Single Layer Added Area

*Not available in BRB-AA
**Not available in POXL or PEXL
†Not available in POXL, PEXL or BRB-AA
††Not available in BRB

SPMF HIGH EFFICIENT

High Efficiency Filter Bags

- ► INKS & PAINTS
- ► GENERAL CHEMICAL
- ► OIL INDUSTRY
- ► PHARMACEUTICAL INDUSTRY
- ► AMINES
- ► PROCESS WATER
- ► MICROELECTRONICS INDUSTRY
- ► FOOD & BEVERAGE INDUSTRY

SPMF High Efficient Filter Bags are an excellent choice over cartridges for many applications and still offer absolute filtration. A series of different sieve opening layers achieves maximum surface area and longer life exceeding cartridge life substantially. SPMF bags do offer lower operating cost and still maintain the use of existing filter housings without the expense of new capital equipment.

All Strainrite SPMF bags are totally welded with our proprietary welding techniques to assure no particulate bypass and best cleanliness. Strainrite's chemically resistant polypropylene flange withstands and responds to increased flow rates and improves over high ranges of pressure, temperatures and microns. The molded (built-in) handles make quick and easy bag removal.

- ► ALL COMPONENTS USED IN SPMF BAGS ARE FDA/EC LISTED MATERIALS FOR FOOD AND BEVERAGE APPLICATIONS
- ► AVAILABLE IN 1A, 2A, 5A 10A AND 25A ABSOLUTE EFFICIENCIES
- ► AVAILABLE WITH ZERO-BYPASS, 5 POINTS-OF-SEAL, EDPM TOP FLANGE AND OPTIONAL COMPRESSION DEVICE

ORDER GUIDE

SPMF	→	1A	→	P	→	2	→	P	→	HS	→	SPMF1AP2PHS
BAG MATERIAL		MICRON RATING		FINISH		SIZE		RING		OPTIONS		

Strainrite's SPMF bags are developed to deliver longer life and absolute filtration. Each inner component is developed specifically to achieve continuous finer filtration inside to out with gradual particulate removal separation. Actual production runs have proven longer life and more effective clarity. 100% polypropylene construction, silicone free all in one easily disposable bag makes filtering very cost effective.

Strainrite's SPMF filter bags give absolute micron filtration and are available in 1A, 5A, 10A and 25 A micron ratings. Our bags replace expensive absolute rated cartridges by reducing filter costs due to bags having substantially more surface area. Standard needle punched felt bags are made from nominally rated media that has a fiber structure that is not as fine a filtration grade as melt blown media used in Strainrite's SPMF bags. Our bags have been designed to deliver calibrated fractional efficiency on very small particles down to less than one micron. Strainrite's SPMF bags are completely welded and welded to our snap type polypropylene molded flange.

ABSOLUTE RATED RETENTION
1, 2, 5, 10, 25
FINISH
PLAIN

ORDER OPTIONS

MATERIAL	
SPMF	SPMF High Efficient

MICRON RATINGS
1A, 2A, 5A, 10A, 25A

FINISH	
P	Plain

SIZE	
1	*7" x 16"
2	7" x 32"
	*Not available in 1A, 2A

RING	
P	Polypropylene P-Flange
M	Polypropylene M-Flange
S	Carbon Steel Ring
SS	Stainless Steel Ring

OPTIONS	
HS	Handle Strap

HI-PRO MICRO

High Efficiency Filter Bags

- ► PAINTS
- ► COATINGS
- ► GENERAL CHEMICAL
- ► PRODUCED WATER FROM GAS DRILLING
- ► FOOD & BEVERAGE INDUSTRY
- ► HIGH PURITY WATER

The Strainrite Companies introduced the Hi-Pro Micro line of high-performance filter bags several years ago and it has proved to be a very successful product. This line provides a full range of absolute rated filter bags to meet all your exacting needs. All four editions of the Hi-Pro Micro (HPM) line incorporate Strainrite's unique graduated layering of media — starting with a built-in pre-filter inner layer and progressing to the tighter outer layers. The smaller particles are systematically removed as fluid travels through multiple layers with each individual layer performing a special function. This graduation aids in the prevention of premature blinding which causes unnecessary filter change out.

The product line offerings include the Hi-Pro Micro 9200, the Hi-Pro Micro 9500, the Hi-Pro Micro 9700, and the ultimate in bag filtration, the Hi-Pro Micro 9900.

HPM-9200 & HPM-9500:

- ► WELL SUITED FOR APPLICATIONS REQUIRING REMOVAL OF SPECIFIC PARTICLE SIZES FROM LIQUIDS AT A REASONABLE COST/BENEFIT RATIO
- ► UP TO 95% EFFICIENCY

HPM-9700 & HPM-9900:

- ► UP TO 99% EFFICIENCY
- ► BEST CHOICE FOR OIL CONTAMINATION
- ► EFFECTIVE REMOVAL OF GEL-LIKE PARTICLES

AQUA-RITE HPM-9900:

- ► ANSI/NSF STANDARD 61 COMPLIANT
- ► MEETS REQUIREMENTS OF 40 CFR PARTS 141 & 142
- ► LT2 ENHANCED SURFACE WATER TREATMENT RULE (INDEPENDENTLY PERFORMED BY BIOVIR LABORATORIES INC.)
- ► APPROVED IN CALIFORNIA FOR 3 LOG REDUCTION USING STRAINRITE'S PRE & FINAL BAG SYSTEM
- ► BEST CHOICE FOR GIARDIA AND CRYPTOCYSTS

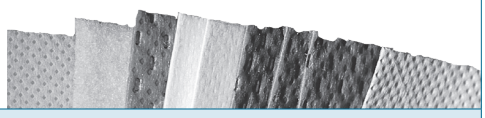
ORDER GUIDE

HPM	99	A	2	P	HPM99A2P
BAG MATERIAL	EFFICIENCY	MICRON RATING	SIZE	RING	

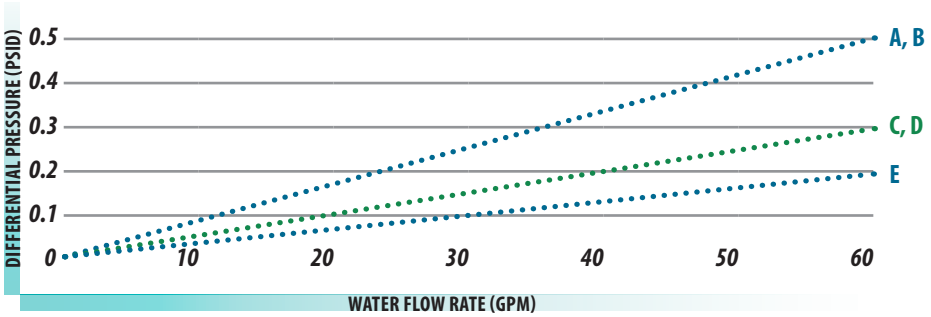
An unrivaled product, Strainrite's Aqua Rite Hi-Pro Micro line is the product suggested by the U.S. Environmental Protection Agency for the most effective removal of giardia and other cysts. Strainrite's product has the lowest standard deviation of any other filter, which means users achieve more consistent results from batch to batch. Equally important, this product presents the ultimate value in high purity filtration. The product line includes the HPM99-CC-2SR and HPM99-CCX-2SR, the ultimate in bag filtration. The two bags work in combination to achieve our drinking water approved system

UNIQUE GRADUATED FILTER DESIGN

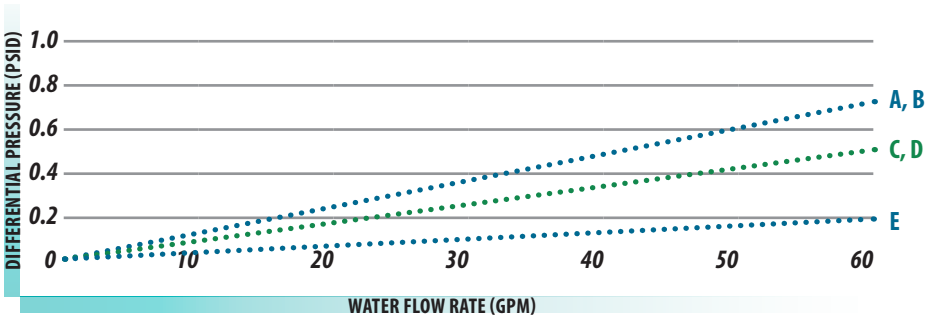
All four editions of the Hi-Pro Micro (HPM) line incorporate Strainrite's unique graduated layering of media — starting with a built-in pre-filter inner layer and progressing to the tighter outer layers.



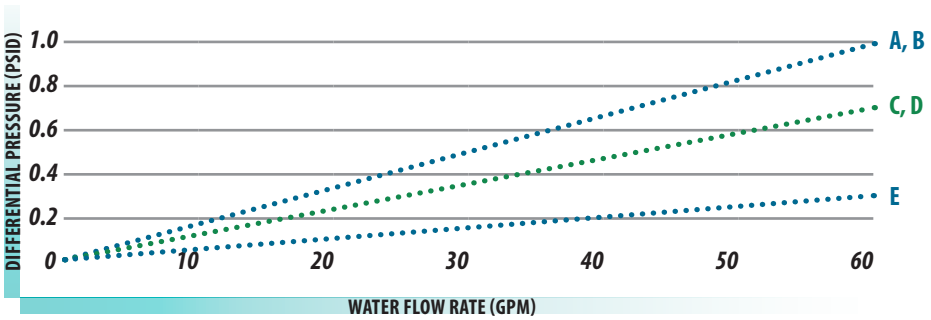
PERFORMANCE CHARACTERISTICS - HPM 9200 SERIES



PERFORMANCE CHARACTERISTICS - HPM 9500 SERIES



PERFORMANCE CHARACTERISTICS - HPM 9700 SERIES



ORDER OPTIONS - HPM

MATERIAL	
HPM	Hi-Pro Micro

EFFICIENCY	
99	9900 Series - 99%
97	9700 Series - 97%
95	9500 Series - 95%
92	9200 Series - 92%

MICRON RATING	
A	1.0
B	3.5
C	5.0
D	10.0
E	25.0

SIZE	
1	7" x 16"
2	7" x 32"
3	4.08" x 8"
4	4.08" x 14"
25	4" x 9"
30	4.118" x 10"
50	4" x 21"
65	4.118" x 22"

RING	
P	Polypropylene P-Flange
M	Polypropylene M-Flange
S	Carbon Steel Ring
SS	Stainless Steel Ring
Z	Polypropylene Z-Flange*

Fits Size 25, 50 bags only

ORDER OPTIONS: AQUA-RITE HPM

AQUA-RITE HI-PRO MICRO	
HPM99-CC-2SR	Primary Filter (pre-filter)
HPM99-CCX-2SR	Secondary Filter (final filter)

ACCURITE ULTRA-EFFICIENT

High Efficiency Filter Bags - Polypropylene Support

- ► INKS & PAINTS
- ► GENERAL CHEMICAL
- ► PETROCHEMICAL
- ► PHARMACEUTICAL INDUSTRY
- ► COATINGS
- ► PROCESS WATER
- ► MICROELECTRONICS INDUSTRY
- ► FOOD & BEVERAGE INDUSTRY

Accu-Rite Ultra-Efficient Filter Bags achieve efficiencies greater than 99% and are available in 1.5, 3, 10 and 25 micron ratings. They are an excellent choice where the convenience of bag filtration is required in combination with absolute filtration. We employ specially-engineered filtration layers in combination to achieve maximized performance in terms of filter life and particle retention. Accu-Rite bags offer lower operating cost while permitting the use of existing filter housings without the expense of new capital equipment.

- ► ALL COMPONENTS USED IN ACCU-RITE ULTRA-EFFICIENT FILTER BAGS ARE FDA/EC LISTED MATERIALS FOR FOOD AND BEVERAGE APPLICATIONS
- ► AVAILABLE IN 1.5, 3, 5, 10 AND 25 ABSOLUTE EFFICIENCIES
- ► AVAILABLE WITH ZERO-BYPASS, 5 POINTS-OF-SEAL, EDPM TOP FLANGE AND OPTIONAL COMPRESSION DEVICE
- ► POLYPROPYLENE COVER INCLUDED ON SIZE 1 AND 2 FILTER BAGS TO FACILITATE CHANGE-OUT.

ORDER GUIDE

ARPO	→	51	→	P	→	1	→	M	→	ARPO51P1M
		CARTRIDGE LENGTH		END CAP CONFIGURATION		GASKET / O-RING MATERIALS		CARTRIDGE GUIDE		

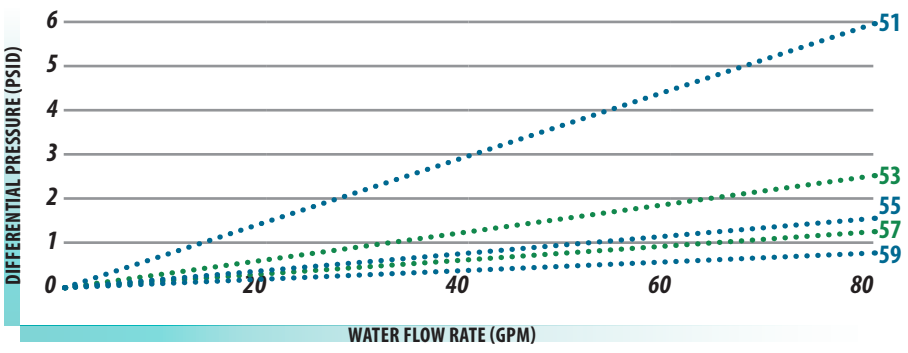
All Strainrite Accu-Rite bags are totally welded with our proprietary welding techniques to assure absence of particulate bypass and best cleanliness. Strainrite's chemically-resistant polypropylene flange withstands and responds to increased flow rates, performing reliably over high ranges of pressure and temperature, and providing a high-performance seal consistent with the micron rating of the filter. The molded (built-in) handles make quick and easy bag removal.

Strainrite has achieved superior results by engineering a filter construction that removes progressively smaller contaminants as fluids move from upstream to downstream through our proprietary filter media. Actual production runs have proved that the Accu-Rite Ultra-Efficient Filter Bags provide longer life and superior clarity. These filters, comprised of 100% polypropylene filter medium with polypropylene support, are manufactured in a silicone free facility in which each employee has received CRATER training.

Accu-Rite filters are available with a variety of rings and flanges to fit most filter housings. This includes Strainrite's M-Flange which is employed in retrofitting a competitor's Sentinel™ flange*.

**Sentinel™ is a trademark of Eaton Corporation.*

ABSOLUTE RATED RETENTION
1.5, 3, 5, 10, 25
FINISH
PLAIN
PERFORMANCE CHARACTERISTICS - SIZE 2 FILTER
Flow/Pressure drop data are derived from extrapolated lab test results and produced as a guideline only.



ORDER OPTIONS

MATERIAL	
ARPO	Accu-Rite

CARTRIDGE LENGTH	
51	1.5µ - 99%
53	3µ - 99%
55	5µ - 99%
57	10µ - 99%
59	25µ - 99%

FINISH	
P	Plain

SIZE	
1	7" x 16.5"
2	7" x 30.5"

RING	
P	Polypropylene P-Flange
M	Polypropylene M-Flange
S	Carbon Steel Ring
SS	Stainless Steel Ring

BRB / BRB-AA RESINATOR

Resin-Bonded Specialty Bags

- ▶ INKS
- ▶ PAINTS
- ▶ COATINGS
- ▶ HYDRAULIC FLUIDS
- ▶ RESINS
- ▶ ADHESIVES
- ▶ PRODUCED FLUIDS
- ▶ PETROLEUM PRODUCTS

Once again, The Strainrite Companies delivers true filtration innovation by combining only the positive qualities of resin-bonded cartridges with the proven advantages of a Strainrite premium quality filter bag.

Resinator users gain the non-compressible media depth of a resin filter, along with the greatly enhanced solids loading capacity and cost saving features of a Strainrite gradient-density filter bag. This product excels in a wide variety of high viscosity fluid filtration applications where authoritative removal of problematic gels is required.

These "hard body" filter bags represent a significant advancement in the utilization of rigid fiber technology and illustrate the leadership role The Strainrite Companies plays in supplying vision and technical leadership when designing and manufacturing liquid filter bags.

This graduated double layer product design combines the depth loading efficiency of resin bonded cartridges with the greater dirt loading capacity of a filter bag creating the most cost effective method for filtering both low and high viscosity fluids.

- ▶ NON-COMPRESSIBLE MEDIA DEPTH
- ▶ RIGID FIBER TECHNOLOGY
- ▶ GRADUATED DOUBLE LAYER
- ▶ HIGH DIRT LOADING CAPACITY

*** note: for AA bags that will not be placed in a Strainrite-manufactured AA basket, or that will be used with a basket-insert, a non-standard length bag may be required. Contact your Strainrite distributor for assistance.*

ORDER GUIDE

BRB	→	1T	→	P	→	1	→	M	–	SL	→	BRB1TP1MSL
BAG MATERIAL		MICRON RATING		FINISH		SIZE		RING		OPTIONS		

New: Resinator filter bags are now available in an AA (added area) configuration. This configuration provides 70% more surface area and often provides a disproportionately larger benefit. A Resinator filter bag in the AA configuration combines the benefits of a non-compressible filter medium and the extended filter life and greater throughputs of added surface area. (Requires use of an AA basket.)

MAXIMUM OPERATING TEMPERATURE
180°F (80°C) with polypropylene hardware 250°F (121°C) with polyester hardware or metal ring

ORDER OPTIONS

MATERIAL	
BRB	Resin-Bonded Polyester Felt

MICRON RATINGS
1T,1,5,10,25,50,75,100,200

FINISH	
P	Plain

SIZE	
1	7" x 16"
2	7" x 30.5"

RING	
P	Polypropylene P-Flange
M	Polypropylene M-Flange
PER	Polyester P-Flange
MER	Polyester M-Flange
SHS	Carbon Steel Ring w/ Handle Strap*
SSHS	Stainless Steel Ring w/ Handle Strap*
PRHS	Polypropylene Ring w/ Handle Strap*
	Not available for AA bags

OPTIONS	
-	Double Layer Standard Bag
SL	Single Layer Standard Bag
SLAA	Single Layer Added Area Bag

ABSORB-RITE® BAGS

Specialty Bags

- ELECTROPLATING
- PICKLING LIQUIDS
- LIQUID FERTILIZERS
- GLYCOLS
- WASTE WATER
- CUTTING OIL REMOVAL

The Absorb-Rite® filter bag from The Strainrite Companies substantially reduces oil and grease from aqueous based liquids. The Absorb-Rite® bag offers a unique two-in-one design that forces the liquid through the entire length of the filter, therefore uniformly utilizing all the absorbant media.

Typically, this unique filter absorbs 10-15 times its weight in oil. The Absorb-Rite® offers in excess of 50% more absorbency than competing brands.

Absorb-Rite® filter bags are available to fit all bag filter housings. Anywhere oil or grease must be separated and removed from an industrial stream, Absorb-Rite® bags are designed to fill the need. Best results at low flow rates to achieve longer contact time.

- UNIQUE THREE LAYER CONSTRUCTION RESULTS IN MAXIMUM EXPOSURE TIME AT MINIMUM FLOW RATE
- THE TOP DISC PRE-FILTER MATERIAL REMOVES DIRT AND OTHER PARTICULATE MATERIAL PRIOR TO THE ADSORPTION OF HYDROCARBONS
- DESIGNS AVAILABLE TO REMOVE PARTICLES IN THE 1-200 MICRON RANGE
- HIGHER HYDROCARBON REMOVAL CAPACITY THAN OTHER FILTER BAGS ON THE MARKET
- HIGHER CAPACITY THAN MOST OTHER BAGS ON THE MARKET
- STANDARD BAGS FIT SRID AND SRHD FILTER VESSELS (FIT COMPETITOR HOUSINGS AS WELL)
- DESIGNED TO MINIMIZE CONTAMINATION DURING CHANGEOVER

ORDER GUIDE

SP	→	1	→	S	→	2	→	P	–	C	→	SP1S2PC
BAG MATERIAL		MICRON RATING		FINISH		SIZE		RING		OPTIONS		

MATERIALS
Polypropylene Felt
FLOW RATE
#2 Size = 5 gpm #1 Size = 2½ gpm Estimate flows depending upon ppm oil and viscosity
MICRON RATINGS
1,5,10,25,50,75,100,200
FINISH
Singed

ORDER OPTIONS

MATERIAL

SP	Polypropylene Felt

MICRON RATINGS

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

FINISH

S	Singed

SIZE

1	7" x 16"
2	7" x 32"
3	4.08" x 8"
4	4.08" x 14"
25	*4" x 9"
30	*4.118" x 10"
50	*4" x 21"
65	*4.118" x 22"

**Not available with Polypropylene Ring*

RING

P	Polypropylene P-Flange
M	Polypropylene M-Flange
SHS	Carbon Steel Ring*
SSHS	Stainless Steel Ring*
PRHS	Polypropylene Ring*
Z	Polypropylene Z-Flange**

**For Bags with Rings, HS is added to standard code, as Handle Straps (HS) are always standard on Absorb-Rite bags with rings*
***Fits Size 25, 50 bags only*

OPTIONS

C	Absorb-Rite

MAG-BAG

Multi-magnet design for metal removal - Specialty Bags

- ▶ PLATING
- ▶ PARTS WASHERS
- ▶ MACHINING COOLANTS
- ▶ MACHINING LUBRICANTS
- ▶ AUTOMOTIVE PRE-COAT
- ▶ CUTTING, GRINDING AND BORING
- ▶ PRE-CLEANING PROCESS WATER BEFORE SENSITIVE OPERATIONS

The MAG-BAG incorporates a multi-purpose design that attracts microscopic ferrous impurities along the entire length of the 12" or 24" magnetic bars*. Filter life is optimized, as the ferrous particles are largely attracted to the magnet contaminate pockets, as opposed to the exit wall of the filter.

Lacking Strainrite's proprietary multi-magnet configuration, other filter bags do not provide the same extensive sphere of influence and struggle to maintain high production flow rates.

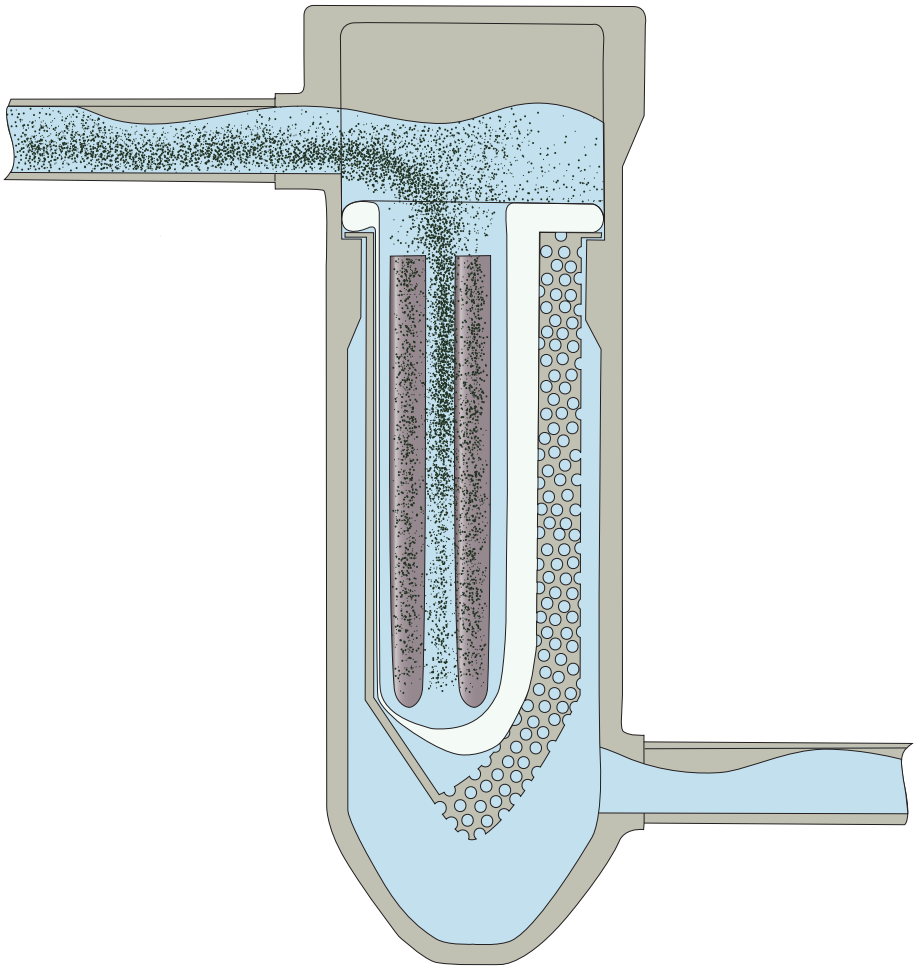
Independent field studies demonstrate ferrous containment gain greater than two times over conventional filters.

- ▶ STANDARD THREE POCKET DESIGN ACCOMMODATES 3 MAGNETIZED RODS
- ▶ MINIMIZES DOWNTIME AND WASTE-WATER TREATMENT COSTS
- ▶ KEEPS SPRAY NOZZLES CLEAN AND ENHANCES PRODUCT APPEARANCE
- ▶ MULTI-MAGNET DESIGN FOR UNSURPASSED METAL REMOVAL
- ▶ MAXIMIZES PRODUCTION CAPACITY AND PRODUCT QUALITY
- ▶ EXTENDS LIFE OF CUTTING TOOLS, EQUIPMENT AND METAL-WORKING LIQUIDS
- ▶ TRAPS 200% MORE FERROUS FINES
- ▶ COST-EFFECTIVE REUSABLE RARE EARTH MAGNETS WITH 1" LIFTING LOOP FOR EASY REMOVAL

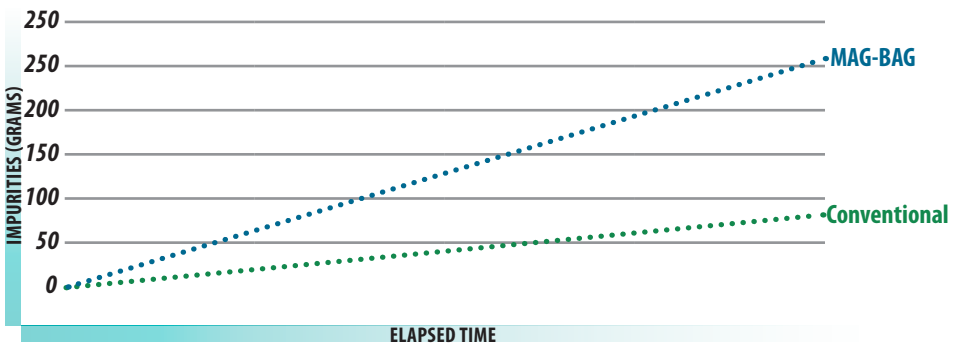
**note: Magnets not included. Contact your Strainrite distributor for a magnet quote.*

ORDER GUIDE

SP	→	1	→	S	→	2	→	P	–	MAGBAG	→	SP1S2P-MAGBAG
BAG MATERIAL		MICRON RATING		FINISH		SIZE		RING		OPTIONS		



MATERIALS
Polypropylene Polyester
MICRON RATINGS
1T, 1, 5, 10, 25, 50, 75, 100, 150, 200
FINISH
SINGED ON ONE SIDE PLAIN
PERFORMANCE CHARACTERISTICS - MAG-BAG VS. CONVENTIONAL FILTRATION



ORDER OPTIONS

MATERIAL	
SP	Polypropylene
AP	Polyester

MICRON RATINGS
1T, 1, 5, 10, 25, 50, 75, 100, 150, 200

FINISH	
S	Singed on one side
P	Plain

SIZE	
1	7" x 16"
2	7" x 32"

RING	
P	Polypropylene P-Flange
M	Polypropylene M-Flange
S	Carbon Steel Ring
SS	Stainless Steel Ring

OPTIONS
MAG-BAG

SPECIALTY BAGS FOR OIL

Oil Bag

Oil Absorption Log

- ► PLATING SOLUTIONS
- ► PARTS CLEANING
- ► AUTOMOTIVE PAINTS
- ► PRODUCED FLUIDS
- ► AUTOMOTIVE PAINTS

The Strainrite Companies Oil Absorbing Filter Bags are made from polypropylene media that absorb oil. Oil bags utilize multi-layered technology to absorb trace amount of oils form water at moderate flow rates. Typically sizes are #1 and #2 industry standards and other sizes are available upon request.

OIL BAG FEATURES
Dual-function oil/particulate removal
Multiple efficiency's available from 1 micron to 200 micron
Can be made with steel ring, M-flange or P-flange
Recommended flow rate: Oil Bag #1: 25 gpm Oil Bag #2: 50 gpm
Oil capacity: Oil Bag #1: 1,790 grams Oil Bag #2: 2,890 grams

ORDER GUIDE

OB	25	P	2	P	–	HS	OB25P2PHS
BAG MATERIAL	MICRON RATING	FINISH	SIZE	RING		OPTIONS	

The Strainrite Companies Oil Absorbtion Logs are made from polypropylene melt blown microfiber and felt media. The log is surrounded with a heavy polypropylene mesh cover with a polypropylene center core for rigidity.

These logs can either be inserted inside a filter bag or can float on top of oil contaminate drums or vats. The unique design enhances the media's ability to "wick" the free oil and grease from contaminated liquid. The only Delta P restrictions you have is based on that of the filter bag itself, as the flow of liquids passes around the oil log.

AVAILABLE SIZES & OIL ABSORBING CAPACITY			
	DIAMETER	LENGTH	CAPACITY
OE-LOG-1B	3"	15"	190 grams
OE-LOG-2B	3"	24"	355 grams
OIL LOG FEATURES			
Made from polypropylene melt blown microfiber and felt media			
Heavy polypropylene mesh cover			
Polypropylene center core for rigidity			

ORDER OPTIONS - OIL BAG

MATERIAL	
OB	Oil Bag
MICRON RATINGS	
25	
FINISH	
P	Plain
SIZE	
1 2	7" x 16" 7" x 32"
RING	
P M S SS	Polypropylene P-Flange Polypropylene M-Flange Carbon Steel Ring Stainless Steel Ring
OPTIONS	
HS	Handle Strap

ORDER OPTIONS - OIL LOG

MATERIAL	
OE-LOG	Oil Absorbtion Log
DIMENSIONS	
1B 2B	3" dia x 15" long 3" dia x 24" long

CARBON & CHEMICAL READY BAGS

Specialty Bags

- ► PLATING
- ► PARTS CLEANING
- ► WASTE WATER
- ► PRODUCED WATER
- ► MACHINE CUTTING FLUIDS
- ► GROUNDWATER REMEDIATION

The Carbon Ready & Chemical Ready Bags are a Strainrite filtration innovation designed to separate and remove undesirable substances from liquid streams. These proprietary filter bags feature an impervious inner liner that does not allow liquids to escape through the side walls. This maximizes contact time with the media and enhances effluent consistancy.

Commonly used medias include: carbon, ion exchange resins, clays, alumina as well as other granular chemicals.

A zippered top disc allows for easy insertion of your media. The clean effluent passes through the bottom and exits the bag.

- ► ZIPPERED TOP DISC MAKES MEDIA LOADING EASY
- ► AVAILABLE IN EITHER POLYPROPYLENE OR CHEMICALLY RESISTANT NYLON PLASTIC
- ► EXCELLENT NOMINAL EFFICIENCY PERFORMANCE WHEN UTILIZED WITH A SUPPORT BASKET
- ► NON-FIBER RELEASING MATERIAL
- ► HYGIENICALLY SUPERIOR TO CARTRIDGE FILTRATION DUE TO INSIDE-OUT FLOW DYNAMIC, ALL IMPURITIES ARE CONTAINED INSIDE THE FILTER BAG
- ► REDUCED PRODUCT LOSS DUE TO VIRTUALLY NO MEDIA HOLD-UP VOLUME

ORDER GUIDE

SP	→	1	→	P	→	2	→	P	–	CARBON READY	→	SP1P2P-CARBON READY
BAG MATERIAL		MICRON RATING		FINISH		SIZE		RING		OPTIONS		

MATERIAL
Polypropylene Felt Polyester Felt
LINER OPTIONS
Carbon Ready - Polypropylene Liner Chemical Ready - Polyethylene Liner
MICRON RATINGS
1,5,10,25,50,75,100,150, 200
FINISH
Singed Plain

ORDER OPTIONS

MATERIAL	
SP	Polypropylene Felt
AP	Polyester Felt

MICRON RATINGS
1,5,10,25,50,75,100,150, 200

FINISH	
S	Singed
P	Plain

SIZE	
1	7" x 16"
2	7" x 30.5"

RING	
P	Polypropylene P-Flange
SHS	Carbon Steel Ring*
SSHS	Stainless Steel Ring*
PRHS	Polypropylene Ring*

**For Bags with Rings, HS is added to standard code, as Handle Straps (HS) are always standard on Carbon/Chem bags with rings*

OPTIONS	
Carbon Ready	Polypropylene Liner
Chemical Ready	Polyethylene Liner

SRCT / SRVT

150 PSI / 100 PSI Sanitary 316L Stainless Steel Cartridge Vessels

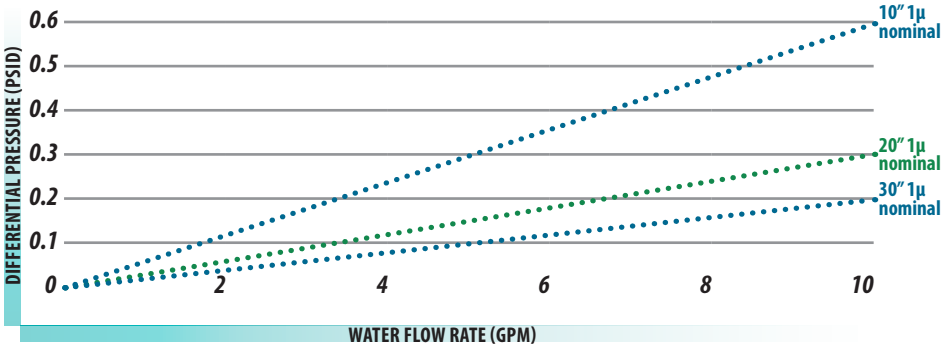
The SRCT and SRVT Sanitary Cartridge Vessels offer the aesthetics and operational durability of stainless steel at affordable prices. The SRCT's innovative design ensures optimal cleanability in critical areas and can accomodate either 10", 20" or 30" cartridges in a single cartridge housing and 20", 30" or 40" filter cartridges in a multi-cartridge vessel.

SRCT filters are designed specifically for liquid filtration in the food and beverage industry, offering microbiological safety, corrosion resistance and durability.

SRVT filters offer the same innovative design with a 100 PSI maximum operating pressure at 200°F.

SRCT SINGLE CARTRIDGE	
Maximum Operating Pressure: 150 psi (67°F)	
Electropolished finish ensures optimal cleanability in critical areas	
Stainless steel legs	
Sterilization using in-line steam, autoclave or hot water	
Fitted for code 7 filter cartridge	
SRCT MULTI-CARTRIDGE	
Maximum Differential Pressure: 25 PSID	Maximum Flow Rate: 25 GPM water
Filter Cartridge Life: 0-25 PSID	Flow Range: 1-20 GPM
Electropolished finish ensures optimal cleanability in critical areas	
Stainless steel legs	
Sterilization using in-line steam, autoclave or hot water	
Fitted for code 7 and code 6 filter cartridges	
SRVT SINGLE & MULTI-CARTRIDGE	
Maximum Operating Pressure: 100 psi (200°F)	
316 Stainless steel	
Removable cartridge plates for cleaning	
Bleeder valve vents and drains	
Silicone Gaskets	
Holds 226/Fin (C7) Cartridges	

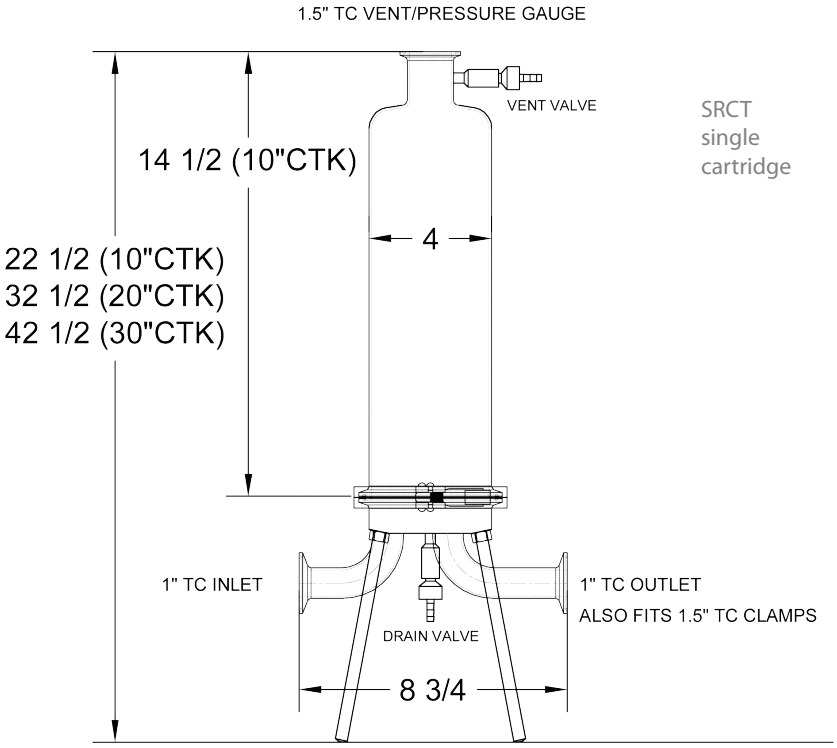
PERFORMANCE CHARACTERISTICS - SINGLE CARTRIDGE



SRCT single cartridge

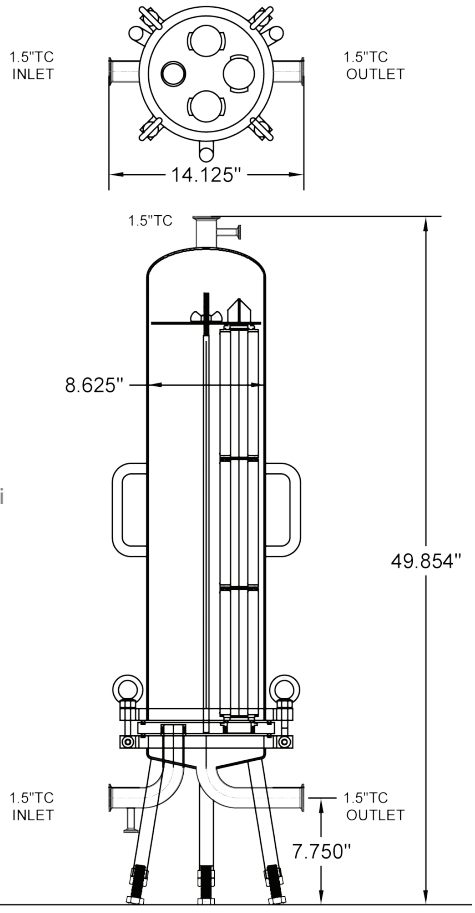
ORDER GUIDE

SRCT	→	1RND	→	10	→	1	→	C	→	C6	→	SRCT1RND201CC6
		CARTRIDGE COUNT		CARTRIDGE LENGTH		INLET/ OUTLET		CONSTRUCTION MATERIALS		END-CAP		



SRCT single cartridge

SRVT multi cartridge



ORDER OPTIONS - SRCT

VESSEL	
SRCT	Strainrite Sanitary Cartridge Vessel
CARTRIDGE COUNT	
1RND	1-round cartridge
3RND	3-round cartridges
5RND	5-round cartridges
8RND	8-round cartridges
12RND	12-round cartridges
18RND	18-round cartridges
24RND	24-round cartridges
30RND	30-round cartridges
ELEMENT LENGTH	
	*10, 20, 30, **40 *1-cartridge house only **Not available with 1-cartridge housing
INLET/OUTLET	
1TC	1" Tri-Clover*
2TC	2" Tri-Clover
3TC	2" Tri-Clover *1-cartridge house only
CONSTRUCTION MATERIALS	
C	316 Stainless Steel
END-CAP	
C6	Flat/226
C7	Fin/226

ORDER OPTIONS - SRVT

VESSEL	
SRVT	Strainrite Sanitary Cartridge Vessel - 100 psi
CARTRIDGE COUNT	
1RND	1-round cartridge
3RND	3-round cartridges
5RND	5-round cartridges
7RND	7-round cartridges
12RND	12-round cartridges
ELEMENT LENGTH	
	*10, *20, 30 *1-cartridge house only
INLET/OUTLET	
1TC	*1" Tri-Clover
1.5TC	**1.5" Tri-Clover
2TC	***2" Tri-Clover *1-cartridge house only **3,5,7-cartridge house only ***12-cartridge house only
CONSTRUCTION MATERIALS	
C	316 Stainless Steel
END-CAP	
C7	Fin/226

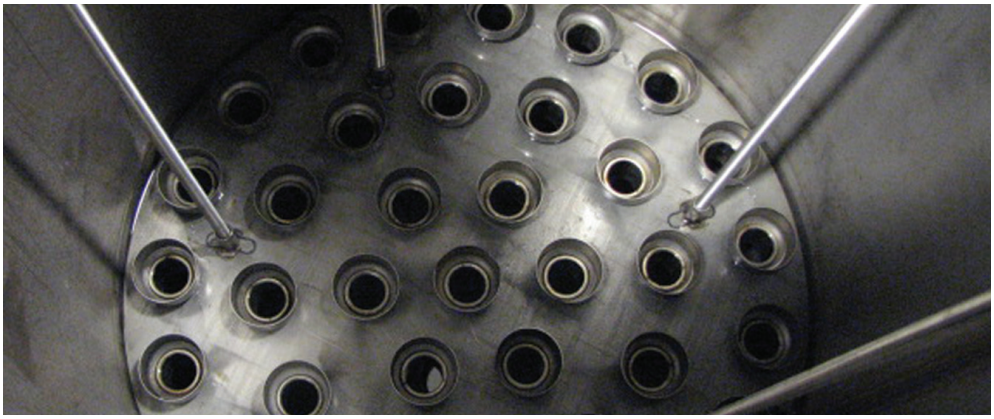
This is not a comprehensive list. We can build your vessel to suit your specifications. Call one of our customer service representatives for pricing and availability.

SRC

Industrial Duty Cartridge Vessels

The Strainrite Companies is known for developing some of the industry's most advanced designed hybrid cartridge elements on the market. These high efficiency filter elements require a vessel that has a hermetically sealed top to fully capture all of the filters capabilities. The SRC Industrial Duty Cartridge Vessel is perfectly positioned to handle standard cartridges and absolute rated filters.

SRCI SERIES SINGLE CARTRIDGE		
150 psi design pressure		O-ring sealed cover
Inlet and outlet connections: ¾" - 1" NPT		
Optional: ¼" NPT vent port in lid		Optional: Polypropylene inline in 10", 20" housing
SRCI SERIES MULTI-CARTRIDGE		
150 psi design pressure		O-ring sealed cover
Inlet and outlet connections: 2" NPT & RFF		¼" NPT vent port in lid
Band Clamp style, 2.5"- 2.75" Cartidge OD - available in 4, 5, 7, 12 round		Swing Bolt style, 2.5" Cartridge OD - available in 22, 36 round
Optional: 3" NPT or RFF connections		Optional: Eye nut closure system
SRC8 SERIES		
150 psi design pressure		O-ring sealed cover (Buna N)
Side in/Bottom out	Swing Bolt style	Tripod stand
4 round - 226 Style, 8" Housing Diameter		
5 round - 2.75" cartridge OD, 8" Housing Diameter		
6 round - 2.5" cartridge OD, 8" Housing Diameter		
SRC16, SRC20, SRC26 SERIES		
150 psi design pressure		O-ring sealed cover (Buna N)
Side in/Bottom out	Swing Bolt style	Tripod stand
19 round - 2.75" cartridge OD, 16" Housing Diameter		
31 round - 2.75" cartridge OD, 20" Housing Diameter		
54 round - 2.75" cartridge OD, 26" Housing Diameter		



SRC
multi-cartridge

ORDER GUIDE

SRC20	–	30	31	4F	C	C8	SRC20-30314FCC8
		CARTRIDGE LENGTH	CARTRIDGE COUNT	INLET/ OUTLET	CONSTRUCTION MATERIALS	END-CAP/ O-RING	

With a radial seal, the SRC has a machined surface that produces a positive seal to eliminate bypass. The SRC vessel line is raising the bar in the Original Equipment Manufacture market by delivering superior value in a cost-effective design.

SRCI single cartridge

ORDER OPTIONS - SRCI

VESSEL	
SRCI	Strainrite Industrial Duty Cartridge Vessel SRCI Series
MATERIAL	
B	304 Stainless Steel
PP	*Polypropylene
	*1-cartridge, 10 & 20" housing only
CARTRIDGE COUNT	
1, 4, 5, 7, 12	
ELEMENT LENGTH	
10, 20, 30, *40	
*Not available with 1-cartridge housing	
INLET/OUTLET	
3/4	*3/4" NPT
1	*1" NPT
2	2" NPT
2F	2" RFF
3	3" NPT
3F	3" RFF
4F	4" RFF
6F	6" RFF
	*1-cartridge house only
O-RING	
V	Fluorocarbon
B	Buna N
E	EPDM

ORDER OPTIONS - SRC8

VESSEL	
SRV8	Strainrite Industrial Duty Cartridge Vessel SRC8 Series
ELEMENT LENGTH	
30, 40	
CARTRIDGE COUNT	
4, 5, 6	
INLET/OUTLET	
2	2" NPT
2F	2" FLG
3	3" NPT
3F	3" FLG
CONSTRUCTION MATERIALS	
A	Carbon Steel
B	304 Stainless Steel
C	316 Stainless Steel
END-CAP	
C1	Double Open Ends
C3	Flat/222
C6	Flat/226
C7	Fin/226
C8	Fin/222

ORDER OPTIONS - SRC16

VESSEL	
SRV16	Strainrite Industrial Duty Cartridge Vessel SRC16 Series
ELEMENT LENGTH	
30, 40	
CARTRIDGE COUNT	
19	
INLET/OUTLET	
3F	3" FLG
CONSTRUCTION MATERIALS	
A	Carbon Steel
B	304 Stainless Steel
C	316 Stainless Steel
END-CAP	
C1	Double Open Ends
C3	Flat/222
C6	Flat/226
C7	Fin/226
C8	Fin/222

ORDER OPTIONS - SRC20

VESSEL	
SRV20	Strainrite Industrial Duty Cartridge Vessel SRC20 Series
ELEMENT LENGTH	
30, 40	
CARTRIDGE COUNT	
31	
INLET/OUTLET	
4F	4" FLG
CONSTRUCTION MATERIALS	
A	Carbon Steel
B	304 Stainless Steel
C	316 Stainless Steel
END-CAP	
C1	Double Open Ends
C3	Flat/222
C6	Flat/226
C7	Fin/226
C8	Fin/222

ORDER OPTIONS - SRC26

VESSEL	
SRV26	Strainrite Industrial Duty Cartridge Vessel SRC26 Series
ELEMENT LENGTH	
30, 40	
CARTRIDGE COUNT	
54	
INLET/OUTLET	
6F	6" FLG
CONSTRUCTION MATERIALS	
A	Carbon Steel
B	304 Stainless Steel
C	316 Stainless Steel
END-CAP	
C1	Double Open Ends
C3	Flat/222
C6	Flat/226
C7	Fin/226
C8	Fin/222

This is not a comprehensive list. We can build your vessel to suit your specifications. Call one of our customer service representatives for pricing and availability.

SRVC

Value Design Cartridge Vessels

The SRVC Value Design Cartridge Vessels provide economical filtration of a wide variety of liquids in a lightweight, externally polished stainless steel design, with features including a swing bolt secured, quick opening cover and an internal positive pressure cartridge alignment and sealing plate.

The SRVC vessels accommodate either a single 10" or 20" long, double open end (DOE) or 222 single open end (SOE) filter cartridge. These vessels are manufactured from polished and passivated 304 stainless steel and rated for 100 psi for single cartridge and 150 psi for multi-cartridge. For added corrosion resistance, all cover bolt and leg mounting hardware is made from stainless steel as well.

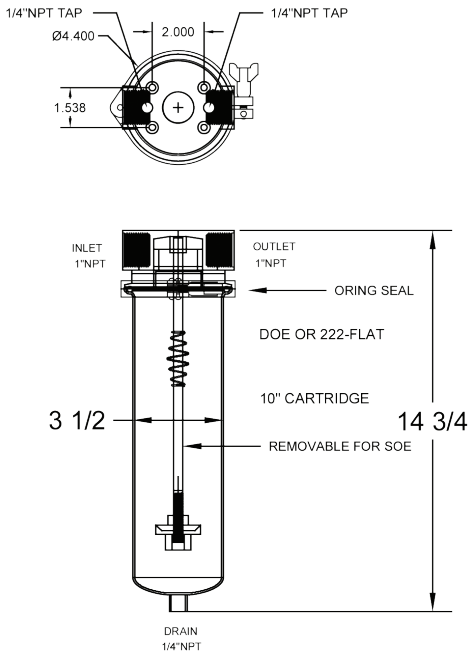
SRVC SINGLE & MULTI-CARTRIDGE
Maximum Allowable Temperature: 300°F (149°C)
Convertible design allows for the use of both DOE and SOE cartridges
Standard Seals: Fluorocarbon (other material options available)
Single O-ring design closure assures quick, positive cover sealing
Code Design: Non-ASME
Vent and drain connections
Polished exterior & pickle passivate interior /exterior for enhanced corrosion resistance
SRVC SINGLE CARTRIDGE
Maximum Allowable Pressure: 100 psi
Clamped o-ring closure seal provides quick and positive seal
In-line 1" FNPT threaded pipe connections for easy installation
Head mounting kit included
SRVC MULTI-CARTRIDGE
Maximum Allowable Pressure: 150 psi
Swing bolts for fast and easy opening and closing of cover
Swing bolted o-ring closure seal provides quick and positive seal and easy access to the vessel interior and filter cartridges
Standard threaded FNPT vent & drains
Standard stainless steel cartridge support and sealing hardware

SRVC
multi-cartridge

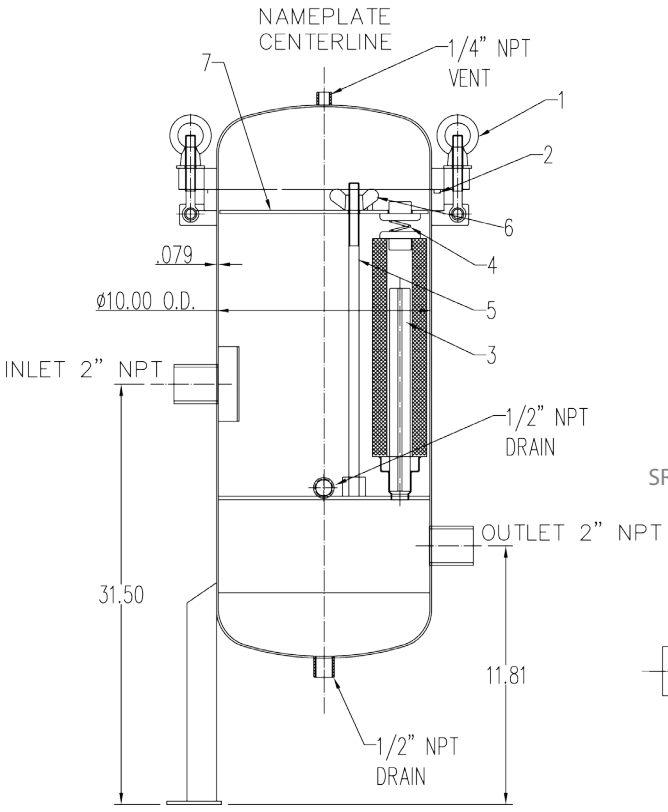
ORDER GUIDE

SRVC	–	B	1	–	10	1	–	C1	→ SRVC-B1-101-C1
		CONSTRUCTION MATERIALS	CARTRIDGE COUNT		ELEMENT LENGTH	INLET / OUTLET		O-RING	

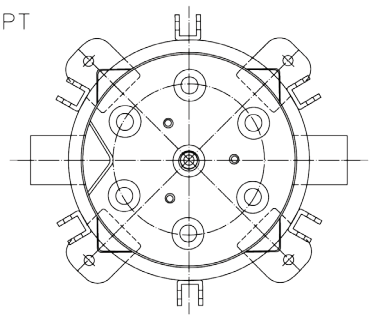
SRVC-B1-101V



SRVC single cartridge



SRVC-B7-402V



ORDER OPTIONS

VESSEL

SRVC	Strainrite Value Design Cartridge Vessel Series

MATERIAL

B	304 Stainless Steel

CARTRIDGE COUNT

1*, 5, 7, 11, 19

**Single-round housing accepts C1 (DOE) and C3 (flat/222) cartridges only*

ELEMENT LENGTH

*10, **20, 30, ***40

**1-cartridge house only*
***Not available with 7, 11 or 19-cartridge housing*
****Not available with 1-cartridge housing*

INLET/OUTLET

1	*1" NPT
2	**2" NPT
2F	***2" RFF
3F	****3" RFF
4F	*****4" RFF

**1-cartridge house only*
***5-cartridge 30" / 7-cartridge 30 or 40" only*
****5-cartridge 20, 30 or 40" / 7-cartridge 30" or 40" only*
*****11-cartridge 30 or 40" only*
******19-cartridge 30 or 40" only*

O-RING

V	Fluorocarbon
B	*Buna N
E	*EPDM

**Special request only*

This is not a comprehensive list. We can build your vessel to suit your specifications. Call one of our customer service representatives for pricing and availability.

SRL

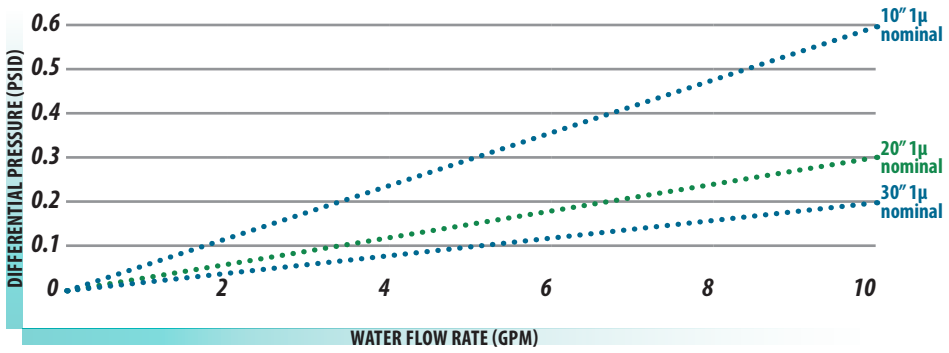
Low Flow Vessels

The SRL Low Flow Vessel is versatile in it's ability to function as a strainer or add a filter bag and convert it to a liquid filtration housing unit. The SRL Series vessels come in two standard sizes, tailored to your throughput requirements. The SRL 1-25 is rated for 30 gpm, and the SRL 1-50 at 65 gpm. All sizes are available in three different closure designs for ease of cleaning/replacing and for easy removal without specific tools.

Unfiltered liquid enters the housing above the bag or basket and flows through. Because solids are contained inside the bag or basket, removal is made easy when service is required. Basket strainers and bag filters are selected to comply with specific application requirements.

SRL FEATURES	
Inlet/Outlet Orientation: Side-in Bottom-out	
Low Pressure Drop	Positive Cover Seal
Easily Cleaned	Heavy Duty Perforated Basket
Pipe Sizes from 0.5" to 2" NPT, RFF or quick disconnect	0.25" NPT Vent Tap
SRL OPTIONAL FEATURES	
Inlet/Outlet Orientation: Side-in Side-out	
Epoxy coating, electro-polish & fuse coating	
Higher pressure ratings available	
Compression devices	
Custom designs	
Sanitary construction	
Mesh-lined basket for straining applications: 50 micron & higher	
Band Clamp, Swing Bolt & Swing Away Closures available in both sizes	
ASME Code Stamp Available on swing bolt design	
FILTER STYLES ACCEPTED	
Install a bag filter of indicated size	Accepts ring collar only

PERFORMANCE CHARACTERISTICS - SINGLE CARTRIDGE

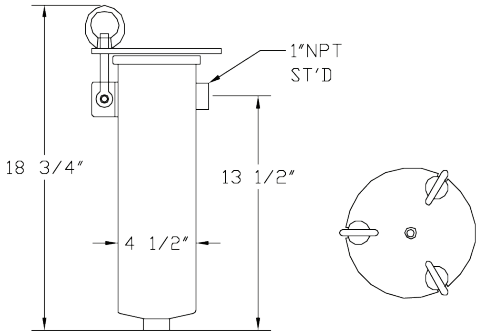


ORDER GUIDE

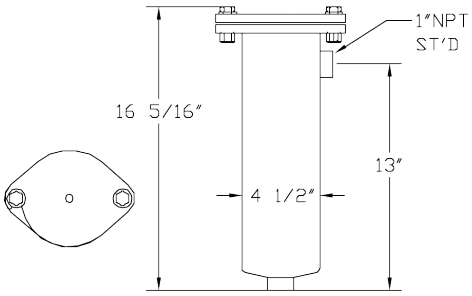
SRL	→ 25	→ 1F	→ A	→ BC	→ SO	→ SRL251FABCSO
	BAG SIZE	INLET/ OUTLET	CONSTRUCTION MATERIALS	CLOSURE	OPTIONS	

SRL 1-25 with Swing Bolt Closure design
(100 to 300 psi rating)

SRL-25-SB

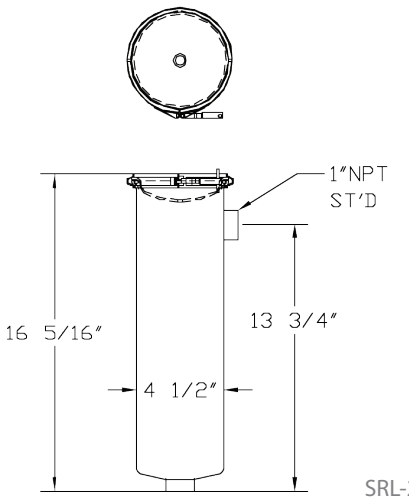


SRL-25-SW



Swing Away Closure design
(100 psi rating)

Band Clamp Closure design
(100 psi rating)



SRL-25-BC

ORDER OPTIONS

VESSEL

SRL	Strainrite Low Flow Series

BAG SIZE

3	#3 size bag*
4	#4 size bag*
25	#25 size bag*
50	#50 size bag*

**available in metal ring or Z-flange only*

INLET/OUTLET

1	1" NPT
1F	1" RFF
1TC	1" Triclover
1.5	1.5" NPT
1.5F	1.5" RFF
1.5TC	1.5" Triclover
2	2" NPT
2F	2" RFF
2TC	2" Triclover

MATERIAL

A	Carbon Steel
B	304 Stainless Steel
C	316 Stainless Steel

CLOSURE

BC	Band Clamp
SB	Swing Bolt
SW	Swing Away

OPTIONS

SAN	Sanitary Design
SO	Side Outlet - Side Out/Same Side
EP	Electro Polish Finish
GT	Differential Pressure Gauge Ports
ML	Mesh-Lined Basket
UM	Code Stamped (SB only)

This is not a comprehensive list. We can build your vessel to suit your specifications. Call one of our customer service representatives for pricing and availability.

SRX / SRMX

"X-Tra Seal" Vessels

The SRX X-Tra Seal vessel series was developed by our in-house engineering team for the expressed purpose of eliminating vessel-to-bag bypass, a critical element when high efficiency filtration is required. Strainrite's proprietary "Five Points of Seal" design has proven to be a major advance in filter vessel technology, performing admirably where the competition hasn't.

Featuring an effective seal on all three crucial planes of the bag, (the top, side, and bottom) as well as two additional o-rings that eliminate the likelihood of bypass along the vessel's interior wall, the SRX is truly your best choice for high efficiency bag filtration performance. The most efficient filter vessel deserves the most efficient filter bag! Using Strainrite's acclaimed Hi-Pro Micro Series FDA Compliant filter bags ensures the purity of your end product.

SRMX

SRX

ORDER GUIDE

SRX	→	1	→	2F	→	B	→	SO	→	SRX12FBSO
		BAG SIZE		INLET/ OUTLET		CONSTRUCTION MATERIALS		OPTIONS		

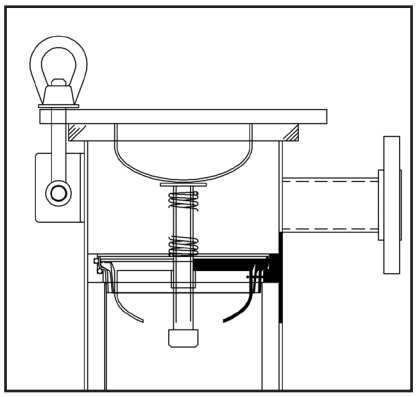
SRX AND SRMX FEATURES	
Double o-ring basket seal eliminates bypass	Built-in volume displacer in cover
Low Pressure Drop	Positive Cover Seal
Standard 150 psi design, available up to 300 psi	Stainless Steel wire mesh basket
ASME Code stamp available on all vessels	Easily cleaned
Covers are O-ring sealed	Large-area, heavy-duty baskets
Carbon steel, stainless steel (304) or (316) construction for housings	

SRX FEATURES	SRMX FEATURES
Inlet/Outlet Orientation: Side-in Bottom-out (standard) Side-in Side-out (optional)	Inlet/Outlet Orientation: Side-in Side-out (standard) Side-in Bottom-out (optional)
Adjustable height tripod stand	

OPTIONAL FEATURES
Different outlet connections and orientation
Higher pressure ratings
Extra-length legs
Heat jacketing
Liquid displacers for easier servicing

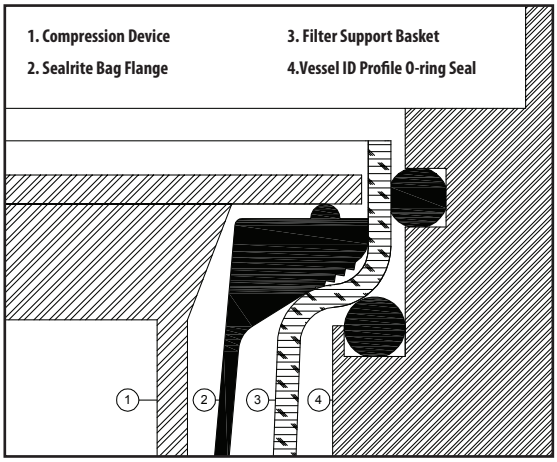
MADD-MAXX COMPATIBLE
SRX and SRMX vessels are widely used in applications where high efficiency filters are required for critical applications in Pharmaceutical and Food & Beverage industries. As such, they are perfectly designed to hermetically seal Strainrite's Madd-Maxx pleated hybrid elements.

COMPRESSION PLUNGER



VESSEL UNDER COMPRESSION

1. Compression Device
2. Sealrite Bag Flange
3. Filter Support Basket
4. Vessel ID Profile O-ring Seal



ORDER OPTIONS - SRX

VESSEL	
SRX	Strainrite X-tra Seal Series
BAG SIZE	
1	#1 size bag
2	#2 size bag
INLET/OUTLET	
2	2" NPT
2F	2" RFF
3	3" NPT
3F	3" RFF
4	4" NPT
4F	4" RFF
MATERIALS	
A	Carbon Steel
B	304 Stainless Steel
C	316 Stainless Steel
OPTIONS	
SAN	Sanitary Design
SO	Side Outlet
EP	Electro Polish Finish
GT	Differential Pressure Gauge Ports
ML	Mesh-Lined Basket
UM	Code Stamped
U	3rd Party ASME Code Inspected
SSB	Swing Bolts/Eye Nut Stainless Steel

ORDER OPTIONS - SRMX

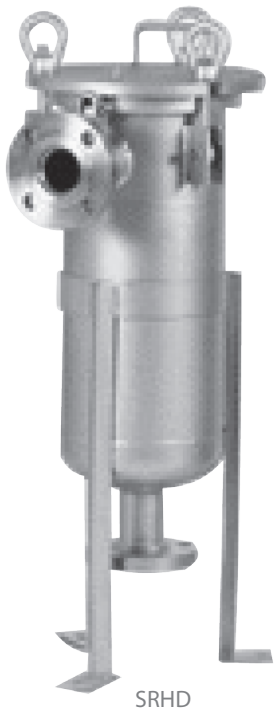
VESSEL	
SRMX	Strainrite Multi-Bag X-tra Seal Series
BAG COUNT	
2, 3, 4, 5, 6, 8, 10	
INLET/OUTLET	
2	2" NPT
2F	2" RFF
3F	3" RFF
4F	4" RFF
6F	6" RFF
8F	8" RFF
10F	10" RFF
MATERIAL	
A	Carbon Steel
B	304 Stainless Steel
C	316 Stainless Steel
OPTIONS	
SAN	Sanitary Design
SIBO	Side In/Bottom Out
ML	Mesh-Lined Basket
UM	Code Stamped
U	3rd Party ASME Code Inspected
SSB	Swing Bolts/Eye Nut Stainless Steel

This is not a comprehensive list. We can build your vessel to suit your specifications. Call one of our customer service representatives for pricing and availability.

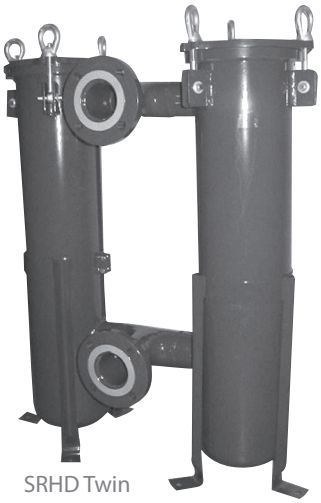
SRHD

Heavy Duty Bag Vessels

The SRHD Heavy Duty series is designed to handle your most difficult fluid filtration requirements. Our SRHD is made from heavy duty steel components and to strict quality standards, which allows our clients the ability to change from a non-stamped to an ASME UM stamped vessel at a nominal cost. The SRHD series incorporates our unique radial seal design that provides a hermetic seal between the basket and vessel. Utilizing a radial seal with our retainer baskets eliminates "basket rocking", which causes bypass as the basket becomes out of round. "Basket rocking" is common in low cost bag vessels that do not incorporate an O-ring seal and can cause unfiltered liquid bypass. The Strainrite Companies' SRHD, with a radial seal, has a machined surface that produces a positive seal to eliminate bypass. SRHD vessels incorporate a combination of unique qualities that places us at the top of single bag vessel design. Standard features include: a recessed basket, volume displacer welded to top cover, and a 304 stainless steel wire mesh basket to name a few. Our standard wire mesh baskets increase available filtration surface area up to 30% compared to cheaper perforated retainer baskets.



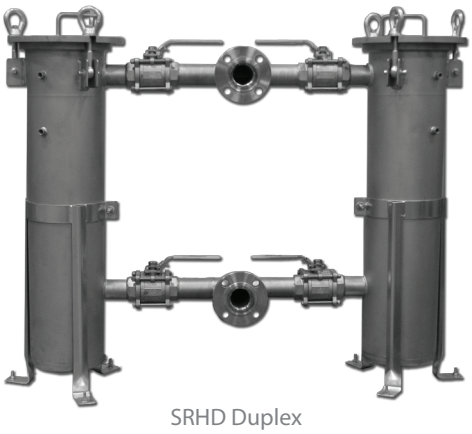
SRHD



SRHD Twin

SRHD Twin and SRHD Duplex bag vessels offer economical filtration for nominally rated applications between 150 and 300 gpm.

The SRHD Twin filter system is comprised of two #2-size housings piped together and joined to a common header. This design divides flow equally between both housings and also reduces cost approximately 50% compared to a multi-bag housing holding 2 bags inside.



SRHD Duplex

The SRHD Duplex filter systems offer great flexibility for continuous on-line filtration requirements. This allows for continuous operation by directing the flow from one vessel to another by opening and closing of valves. This allows one side to be serviced, while the other vessel is in use.

ORDER GUIDE

SRHD	→ 2 (BAG SIZE)	→ 2F (INLET/ OUTLET)	→ A (CONSTRUCTION MATERIALS)	→ - (VESSEL STYLE)	→ EP (OPTIONS)	→ SRHD22FAEP

SRHD FEATURES	
Hermetic radial o-ring sealed retainer basket: Eliminates potential for bypass and "basket rocking"	
Adjustable tri-pod stand: Offers flexibility when plumbing into an existing line	
Inlet/Outlet Orientation: Side-in Bottom-out (standard) Side-in Side-out (optional)	Pipe sizes: 0.75" to 4" NPT, RFF or quick disconnect
Standard Pressure ratings: 150 psi	Stainless Steel wire mesh basket
Swing bolt closures	0.25" NPT vent tap
Low Pressure Drop	Liquid displacers for cleaner servicing
Adjustable-height legs	Large-area, heavy-duty baskets
Built-in volume displacer in cover	O-ring seals: Buna N, EPDM, Fluorocarbon, PTFE encapsulated

SRHD OPTIONAL FEATURES	
Sanitary construction	Different outlet connections and orientations
Higher pressure ratings	Heat jacketing
ASME code stamp	Pipe or flange 1" - 4"
Custom pressure ratings: 300 psi up to 1,000 psi	Compression device
MAXX-Flow / MAXX-Trap Baskets available	

RECOMMENDED FLOW RATES & SURFACE AREA

For the following recommended flow rates, vessels need a minimum inlet/outlet size of 2" NPT. The recommended flow for basket and filter combination is for nominally rated filter bags. (High efficiency filter bags excluded

PRODUCT	BASKET STRAINER	MESH LINED	RETAINER W/ BAG	SURFACE AREA: SQ. FT.
SRHD 1	150 gpm	100 gpm	75 gpm	2.25
SRHD 2	300 gpm	200 gpm	150 gpm	4.50

SRHD TWIN FEATURES	
Inlet/Outlet Orientation: Side-in Side-out (standard) Side-in Bottom-out (optional)	Adjustable height tripod stand
150 psi design, available to 1,000 psi	Stainless Steel wire mesh basket
Positive cover seal	Easily cleaned
Low Pressure Drop	ASME Code stamp available on all vessels

SRHD DUPLEX FEATURES	
Inlet/Outlet Orientation: Side-in Side-out (standard) Side-in Bottom-out (optional)	
150 psi design, available to 1,000 psi	Stainless Steel wire mesh basket
Positive cover seal	Easily cleaned
Low Pressure Drop	ASME Code stamp available on all vessels
3-piece ball valves standard	Adjustable height tripod stand

ORDER OPTIONS

150 PSIG standard. Contact engineering for higher pressures

VESSEL

SRHD	Strainrite Heavy Duty Series

BAG SIZE

1	#1 size bag*
2	#2 size bag

**Not available in Twin or Duplex*

INLET/OUTLET

2	*2" NPT
2F	2" RFF
3	*3" NPT
3F	3" RFF
4	*4" NPT
4F	*4" RFF

**Not available in Twin or Duplex*

MATERIAL

A	Carbon Steel
B	304 Stainless Steel
C	316 Stainless Steel

STYLE

-	Single
Twin	No valves
Duplex	Valves

OPTIONS

SAN	Sanitary Design
SO	*Side Outlet
SIBO	**Side In/Bottom Out
EP	Electro Polish Finish
GT	Differential Pressure Gauge Ports
ML	Mesh-Lined Basket
UM	Code Stamped
U	3rd Party ASME Code Inspected
SSB	Swing Bolts/Eye Nut Stainless Steel
MF	MAXX-Flow / MAXX-Trap Basket

**Single vessel option; side in/bottom out is standard*
***Twin / Duplex vessel option; side in/side out is standard*

This is not a comprehensive list. We can build your vessel to suit your specifications. Call one of our customer service representatives for pricing and availability.

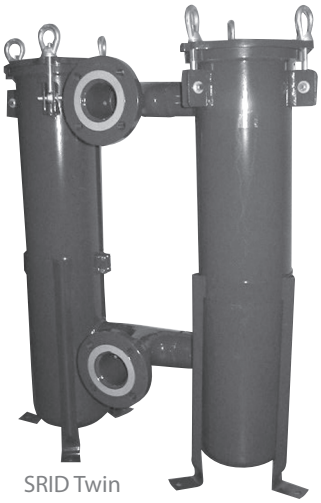
SRID

Industrial Duty Bag Vessels

The SRID Industrial Duty series incorporates our unique radial seal design that provides a hermetic seal between the basket and vessel. Utilizing a radial seal with our retainer baskets eliminates "basket rocking", which causes bypass as the basket becomes out of round. "Basket rocking" is common in low cost bag vessels that do not incorporate an O-ring seal and can cause unfiltered liquid bypass. The SRID, with a radial seal, has a machined surface that produces a positive seal to eliminate bypass.

The Strainrite Companies is known for developing some of the industry's most advanced designed filter bags and hybrid cartridge elements on the market. These high efficiency filter bags and elements require a vessel that has a hermetically sealed top to fully capture all of the filters capabilities. The SRID is perfectly positioned to handle: standard bags, absolute rated filters and high efficiency large diameter pleated hybrid filters (Madd Maxx). The SRID vessel line is raising the bar in the OEM market by delivering superior value in a cost-effective design.

SRID



SRID Twin

SRID Twin and SRID Duplex bag vessels offer economical filtration for nominally rated applications between 150 and 300 gpm.

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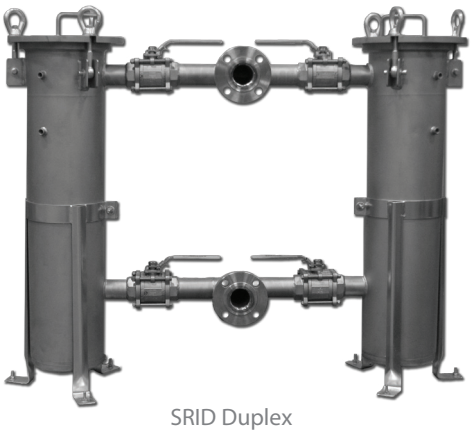


SRID Duplex

The SRID Duplex filter systems offer great flexibility for continuous on-line filtration requirements. This allows for continuous operation by directing the flow from one vessel to another by opening and closing of valves. This allows one side to be serviced, while the other vessel is in use.

ORDER GUIDE

SRID	→ 2 (BAG SIZE)	→ 2F (INLET/ OUTLET)	→ A (CONSTRUCTION MATERIALS)	→ - (VESSEL STYLE)	→ EP (OPTIONS)	→ SRID22FAEP

SRID FEATURES	
Hermetic radial o-ring sealed retainer basket: Eliminates potential for bypass and "basket rocking"	
Adjustable tri-pod stand: Offers flexibility when plumbing into an existing line	
Inlet/Outlet Orientation: Side-in Bottom-out (standard) Side-in Side-out (optional)	Recessed basket design: Reduces operator exposure to unfiltered liquid. Less mess when making bag changes and no spillage of unfiltered liquids
Standard Pressure ratings: 150 psi	1" Bottom Drain: Allows for full evacuation of fluids
1" NPT bottom drain port	¼" NPT vent port in lid
Perforated retainer basket	Basket is Radial o-ring sealed
Adjustable-height legs tripod stand	2" NPT & RFF inlet and outlet connections
Built-in volume displacer in cover	O-ring sealed cover
SRID OPTIONAL FEATURES	
Wire mesh basket	Mesh lined baskets for straining application from 20 to 200 mesh
Side Outlet configuration	3" NPT or RFF connections
Eye nut closure system	Filter bag compression device
MAXX-Flow / MAXX-Trap Baskets available	

SRID TWIN FEATURES	
Inlet/Outlet Orientation: Side-in Side-out (standard) Side-in Bottom-out (optional)	
150 psi design, available to 1,000 psi	1/8" Stainless Steel perforated basket (standard)
Positive cover seal	Easily cleaned
Low Pressure Drop	Adjustable height tripod stand
SRID DUPLEX FEATURES	
Inlet/Outlet Orientation: Side-in Side-out (standard) Side-in Bottom-out (optional)	3-piece ball valves standard
150 psi design, available to 1,000 psi	1/8" Stainless Steel perforated basket (standard)
Positive cover seal	Easily cleaned
Low Pressure Drop	Adjustable height tripod stand

ORDER OPTIONS

VESSEL	
SRID	Strainrite Industrial Duty Series

BAG SIZE	
1	#1 size bag*
2	#2 size bag
	Not available in Twin or Duplex

INLET/OUTLET	
2	*2" NPT
2F	2" RFF
3	*3" NPT
3F	3" RFF
	Not available in Twin or Duplex

MATERIAL	
A	Carbon Steel
B	304 Stainless Steel

STYLE	
-	Single
Twin	No valves
Duplex	Valves

O-RING*	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TV	Encapsulated Fluorocarbon
	Not applicable to Twin or Duplex

OPTIONS	
WMB	Wire Mesh Basket
SO/180	Side Outlet 180 degrees*
EN	Eye Nut
EP	Electro Polish Finish
MLB	Mesh-Lined Basket
CLH	Cover Lid Handle
DPG	Differential Pressure Gauge Ports (2)
MF	MAXX-Flow / MAXX-Trap Basket
	consult factory for other orientations

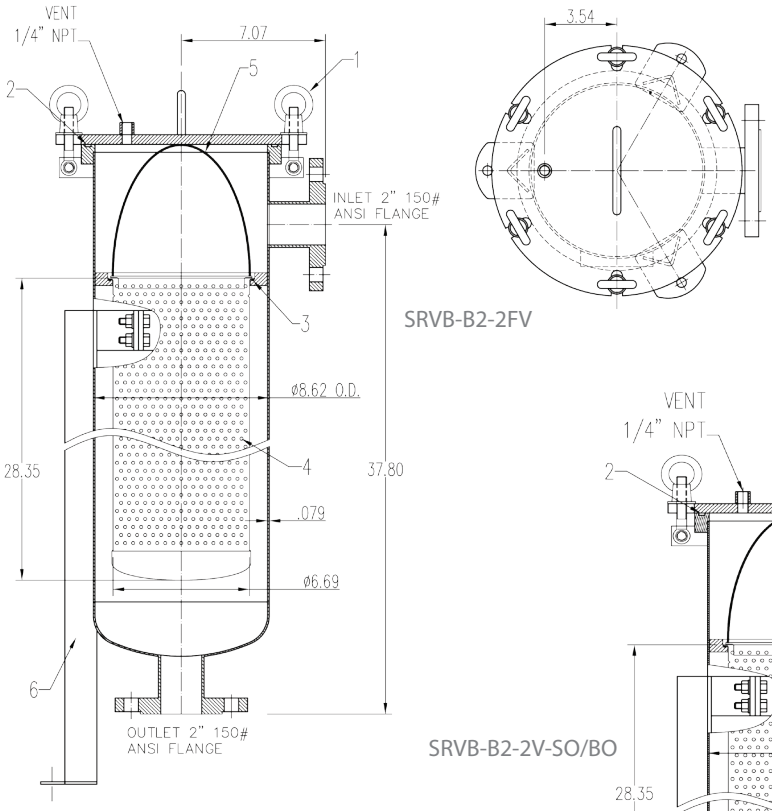
This is not a comprehensive list. We can build your vessel to suit your specifications. Call one of our customer service representatives for pricing and availability.

SRVB

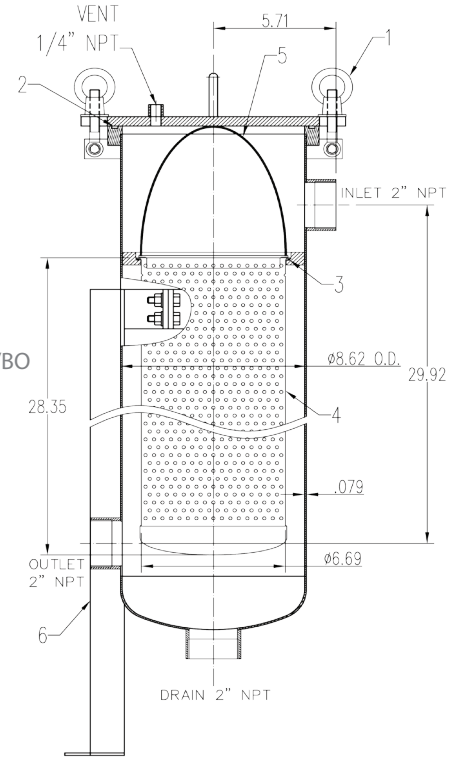
Value Design Bag Vessels

The SRVB Value Design vessels provide economical filtration of a wide variety of liquids in a lightweight, externally polished stainless steel design, with features including a swing bolt secured, quick opening cover and an internal positive pressure bag hold-down device. The SRVB vessels accommodate one standard #2 bag. These vessels are manufactured from polished and passivated 304 stainless steel and rated for 150 psi (10.3 bar). For added corrosion resistance, all cover bolt and leg mounting hardware is made from stainless steel as well.

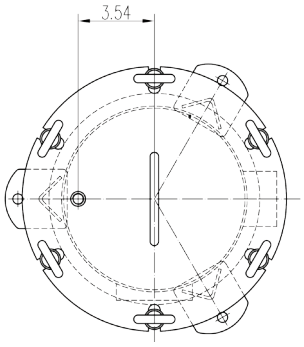
SRVB multi-bag vessels accommodate four or six standard #2 bags. These vessels are manufactured from polished and passivated 304 stainless steel and rated for 150 psi (10.3 bar).



SRVB-B2-2FV



SRVB-B2-2V-SO/BO

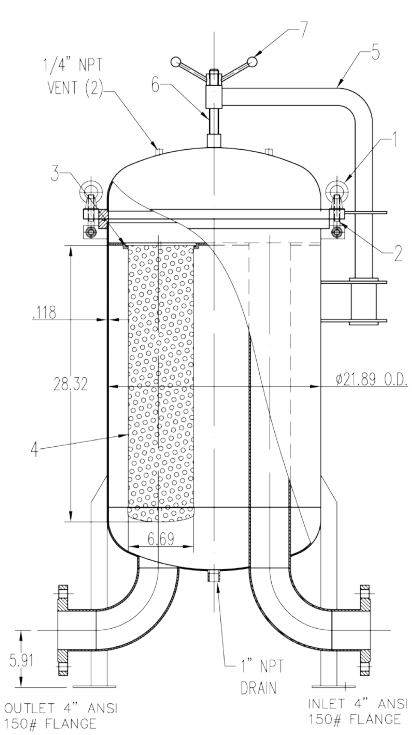


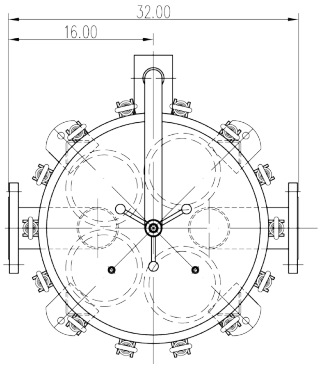
SRVB

ORDER GUIDE

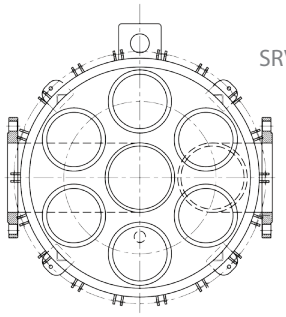
SRVB	–	B	→	4	–	2	→	4F	→	V	→	-	→	SRVB-B4-24FV
		CONSTRUCTION MATERIALS		BAG COUNT		BAG SIZE		INLET/ OUTLET		O-RING		OPTIONS		

SRVB SINGLE BAG
NPT option offers dual 2" outlet ports on bottom and side locations
Mounting legs are adjustable, providing flexibility for installation height and orientation volumes
SRVB MULTI-BAG
Bottom in-line connection design
SRVB SINGLE & MULTI-BAG
Maximum Allowable Pressure: 150 psi (10.3 bar)
Maximum Allowable Temperature: 300°F (149°C)
Swing bolted o-ring closure seal provides quick & positive seal with easy access to the vessel interior and filter bag
FNPT threaded and ANSI B16.5 flanged connections are available in specific models
Fluorocarbon seals are standard with other material options available
Standard threaded FNPT vent & drains
Standard stainless steel closure bolt hardware
Polished exterior & pickle passivate interior/exterior for enhanced corrosion resistance

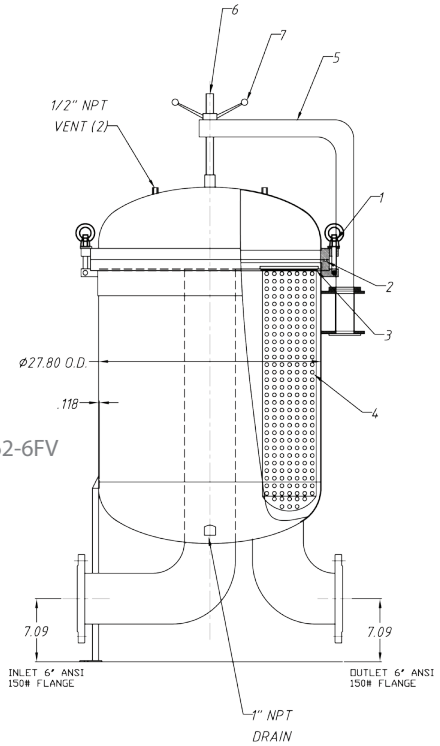




SRVB-B42-4FV



SRVB-B62-6FV



ORDER OPTIONS

VESSEL	
SRVB	Strainrite Value Design Bag Vessel

MATERIAL	
B	304 Stainless Steel

BAG COUNT	
-	One bag
4	Four bags
6	Six bags

BAG SIZE	
1	*#1 size bag
2	#2 size bag
	Single-bag units, special request only

INLET/OUTLET	
2	*2" NPT
2F	*2" RFF
4F	4" RFF
6F	**6" RFF
	Single-bag units only
	**Six bag count only*

O-RING	
V	Fluorocarbon
B	*Buna N
E	*EPDM
	Single-bag units only, Special request only Purchased and packaged separately

DUAL SIDE OUT/BOTTOM OUT	
SO/BO	This suffix only applies to SRVB-B1-2V and SRVB-B2-2V, and is always and automatically added to these 2 vessels only

This is not a comprehensive list. We can build your vessel to suit your specifications. Call one of our customer service representatives for pricing and availability.

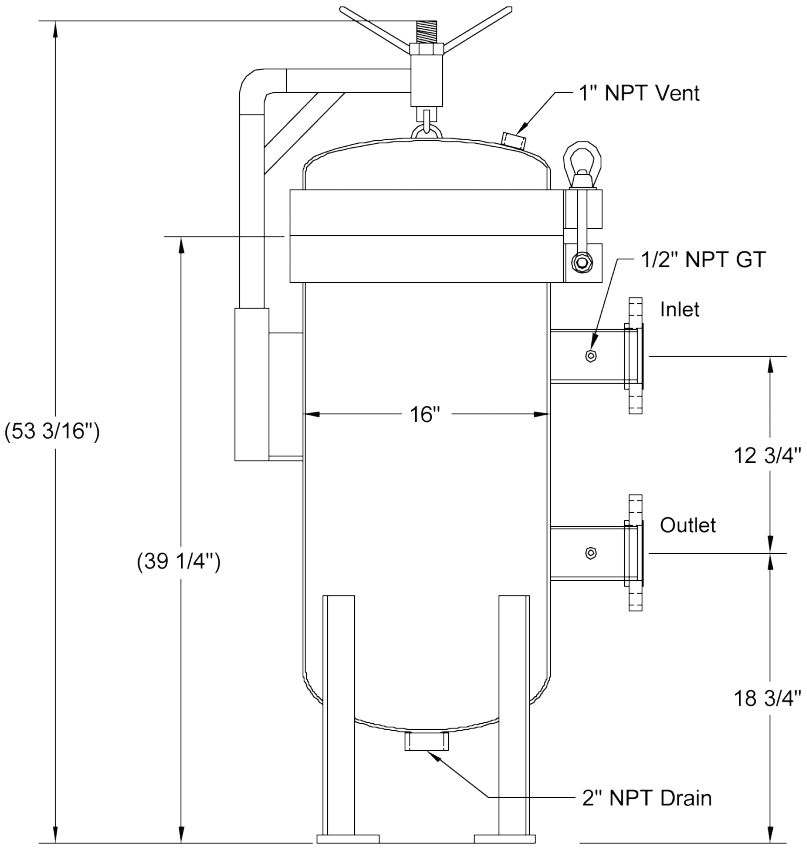
SRMB

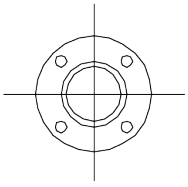
Multi-Basket Vessels

The SRMB Multi-Basket Filter Vessel offers large surface areas capable of handling up to 5600 gpm in a single housing. Increasing surface area allows for longer processing time prior to filter change-out.

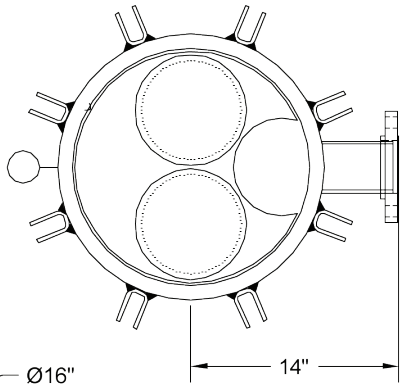
Containing anywhere from 2 to 28 bags/baskets in a single vessel, our standard side-inlet/side-outlet design offers the greatest inlet/outlet flexibility and doesn't require a platform to be built, in order to change-out or clean the filter elements or strainers.

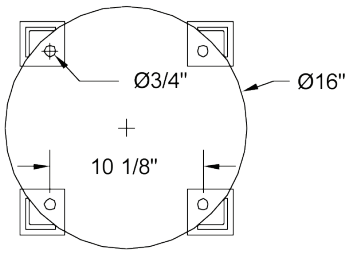
SRMB
Side In/Side Out





SRMB2-3F





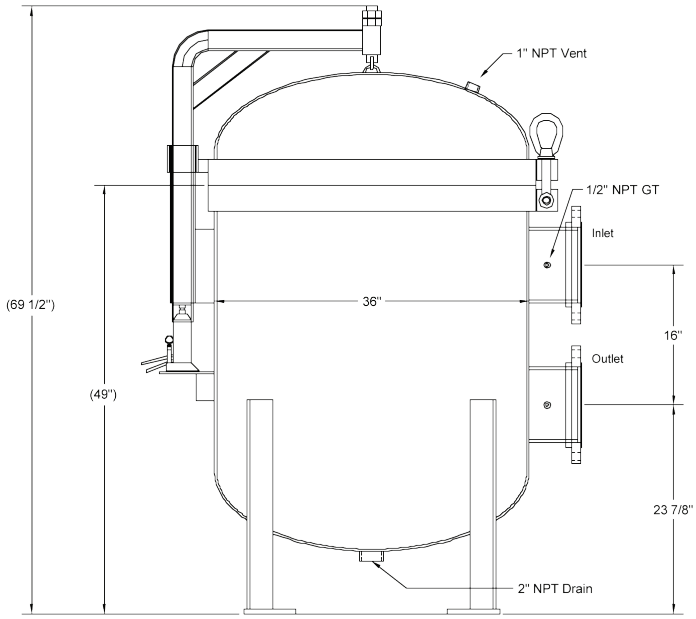
ORDER GUIDE

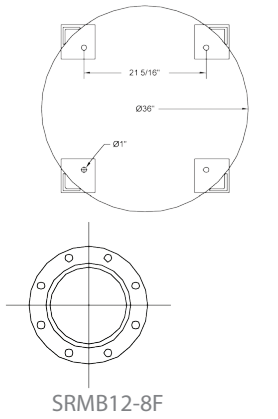
SRMB	→	2	→	2F	→	B	→	ML	→	SRMB22FBML
		BAG COUNT		INLET/ OUTLET		CONSTRUCTION MATERIALS		OPTIONS		

SRMB STANDARD FEATURES	
Inlet/Outlet Orientation: Ergonomically superior Side-in Side-out (standard) Bottom-in Bottom-out (optional)	
Low pressure drop	Positive cover seal
Easily cleaned	Stainless Steel perforated baskets
1″ to 2″ NPT drain port on bottom	0.5″ to 1″ NPT pressure gauge/vent tap
Swing bolt closures	Davit Lift
Pipe sizes from 2″ to 14″ RFF connections	Filter Bag Retainer Ring
Differential pressure gauge taps	
SRMB OPTIONAL FEATURES	
Epoxy coating and fuse coating	Pressure ratings up to 300 psi
Easily cleaned	Stainless Steel perforated baskets
Mesh-lined basket for straining applications: 50 micron and higher	Wire mesh support baskets
Choice of lid-lifting devices: Hydraulic-Jack or Manual Wheel Davit	ASME code stamp

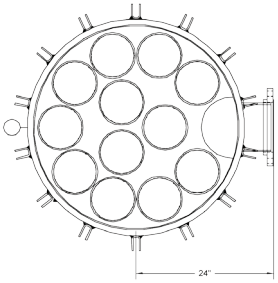
SRMB DIMENSIONS CHART , SIDE-IN / SIDE-OUT

UNIT TYPE	BASKET COUNT	STANDARD CONNECTION	A Overall Height	B Height to opening	C Inlet to Outlet	D Diameter	SURFACE AREA (Sq. Ft.)	MAX GPM (Strainer)	MAX GPM (Filter Bags)	MAX SHIPPING WEIGHT (Lbs)
SRMB 2	2	3″RFF	55″	40″	12 3/4″	16″	9.0	600	400	380
SRMB 3	3	3″RFF	55″	40″	12 3/4″	18″	13.5	900	600	470
SRMB 4	4	4″RFF	55″	42″	12 3/4″	24″	18.0	1200	800	660
SRMB 5	5	6″RFF	60″	42″	12 3/4″	26″	22.5	1500	1000	775
SRMB 6	6	6″RFF	60″	42″	12 3/4″	26″	27.0	1800	1200	775
SRMB 8	8	8″RFF	66″	47″	16″	30″	35.5	2400	1600	900
SRMB 10	10	8″RFF	74″	52″	16″	36″	44.5	3000	2000	1250
SRMB 12	12	8″RFF	74″	52″	16″	36″	54.0	3600	2400	1350





SRMB12-8F



ORDER OPTIONS

VESSEL

SRMB	Strainrite Multi-Bag Series

BAG COUNT

2, 3, 4, 5, 6, 8, 10, 12

INLET/OUTLET

2	2″ NPT
2F	2″ RFF
3F	3″ RFF
4F	4″ RFF
6F	6″ RFF
8F	8″ RFF
10F	10″ RFF

MATERIAL

A	Carbon Steel
B	304 Stainless Steel
C	316 Stainless Steel

OPTIONS

BIBO	Bottom in/Bottom out
SIBO	Side In/Bottom Out
ML	Mesh-Lined Basket
U	3rd Party ASME Code Inspected
SSB	Swing Bolts/Eye Nut Stainless Steel

This is not a comprehensive list. We can build your vessel to suit your specifications. Call one of our customer service representatives for pricing and availability.

SRMS

Manifold Filtration Systems

Strainrite's SRMS Manifold Filtration Systems consist of two or more filter vessels piped in series or parallel. Strainrite offers countless configurations and flow designs depending on the user's specific needs. The standard design is to configure the vessels in parallel with isolation valves on each vessel.

A four-vessel system can also be configured in a box design, which allows for graduated filtration and continuous flow. Given the modular nature of manifold systems, throughput capability can be easily expanded or contracted as needed, and the footprint is adaptable to available space.

Contact our engineering personnel to configure the ideal system for your application.

SRMS -
8 Vessels

ORDER GUIDE

SRMS	→	N	→	4	→	2	→	A	→	2H	→	SRID	→	U	→	SRMSN42A2HSRIDU
		VALVE OPTIONS		VESSEL COUNT		BRANCH SIZE		CONSRUCTION MATERIAL		HEADER		VESSEL TYPE		OPTIONS		

SRMS	
-in volume displacer in cover (SRHD)	150 psi design, available to 300 psi
Inlet/outlet orientation: Side-in/Bottom-out (standard)	Easily cleaned
Low pressure drop	Stainless Steel wire mesh basket
Positive cover seal	ASME Code stamp available on all SRHD-style vessels

SRMS -
4 Vessels

ORDER OPTIONS

VESSEL	
SRMS	Strainrite Manifold System

VALVE OPTIONS	
N	No Valves
V	Valves

VESSEL COUNT
2, 3, 4, 5, 6, 8, 10

BRANCH SIZE	
2	2" pipe
3	3" pipe

MATERIALS	
A	Carbon Steel
B	304 Stainless Steel
C	316 Stainless Steel

HEADER	
2H	2" header
3H	3" header
4H	4" header
6H	6" header

VESSEL TYPE
SRHD
SRID

OPTIONS	
EP	Electro Polish Finish
MLB	Mesh-Lined Basket
UM	Code Stamped
U	3rd Party ASME Code Inspected
SSB	Swing Bolts/Eye Nut Stainless Steel
DPG	Differential Manifold Pressure Gauge Ports

This is not a comprehensive list. We can build your vessel to suit your specifications. Call one of our customer service representatives for pricing and availability.

AQ2

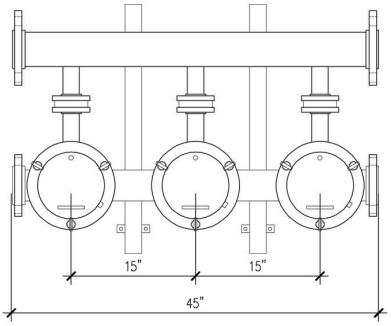
AquaRite Vessels

Strainrite's AquaRite Vessel was developed by our in-house engineering team for the expressed purpose of eliminating vesselto-bag bypass, a critical element when high efficiency filtration is required. Strainrite's proprietary "Five Points of Seal" design has proven to be a major advance in filter vessel technology, performing admirably where the competition hasn't.

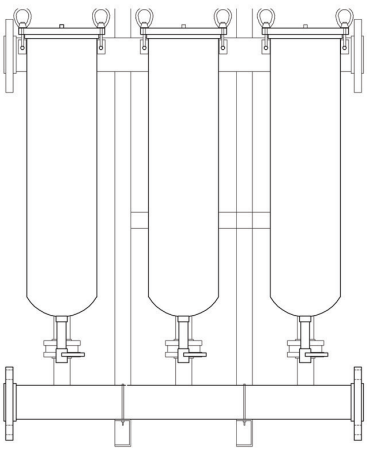
Featuring an effective seal on all three crucial planes of the bag, (the top, side, and bottom) as well as two additional o-rings that eliminate the likelihood of bypass along the vessel's interior wall, the AquaRite is truly your best choice for potable water filtration performance.

AQ2 in a manifold system

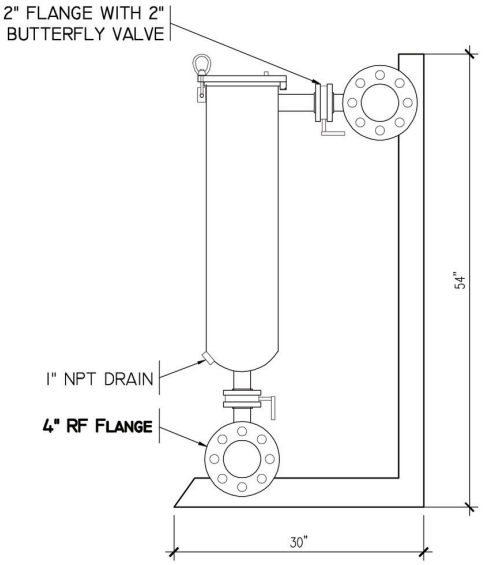
AQ2-2F - Manifold System



1 TOP VIEW
SCALE: NTS



2 FRONT VIEW
SCALE: NTS



3 SIDE VIEW
SCALE: NTS

ORDER GUIDE

AQ2 – 2F (INLET/OUTLET) – PE (OPTIONS) → **AQ2-2F-PE**

SRMB STANDARD FEATURES	
Inlet/Outlet Orientation: Side-in Bottom-out (standard)	Double o-ring basket seal, which eliminates bypass
Low pressure drop	Positive cover seal
Easily cleaned	Stainless Steel wire mesh basket
Adjustable height legs	Built-in volume displacer in cover
Standard 150 psi design	304 Stainless Steel construction
Covers are O-ring sealed	Threaded connections
DP Taps	Large area, heavy-duty baskets
1" Drain	Liquid displacer dome
SRMB OPTIONAL FEATURES	
Different outlet connections	Extra-length legs
Flange connections	Pre-fab plex units

The most efficient filter vessel deserves the most efficient filter! Using Strainrite's acclaimed, FDA-Compliant AquaRite HiPro Micro Filter Bags ensure the purity, and now our Aqua-MAXX Pleated Elements ensure the purity of your end product.

AquaRite Vessels have been successfully used in potable water applications across the U.S. and Canada. AquaRite vessels are perfectly designed to hermetically seal AquaMAXX-PFA & AquaMAXX-FFA hybrid elements and HPM99-CC-2SR & HPM99 -CCX-2SR bags.

Aqua-MAXX pleated element

Aqua-Rite HPM filter bag

ORDER OPTIONS

VESSEL	
AQ2	Strainrite AquaRite Vessel
INLET/OUTLET	
2	2" NPT
2F	2" RFF
OPTIONS	
-	AquaRite HPM Filter Bag Housing
PE	AquaMAXX Element Housing

This is not a comprehensive list. We can build your vessel to suit your specifications. Call one of our customer service representatives for pricing and availability.