

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
PRMXS0.45
MICRON
RATING

-

10
CARTRIDGE
LENGTHC1
END CAP
CONFIGURATIONS
GASKET / O-RING
MATERIALS2
CARTRIDGE
GRADEDIF
CARTRIDGE
OPTIONS

MPS0.45-10C1S2DIF

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

Polysulfone

END CAPS

Polypropylene

PLEAT SUPPORT MATERIAL

Polypropylene

CAGE/CORE

Polypropylene

SEALS

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

CONSTRUCTION METHOD

Thermal Bond

OUTSIDE DIAMETER

MPS: 2.55" (6.48cm) | PRMXS: 2.7" (6.87cm)

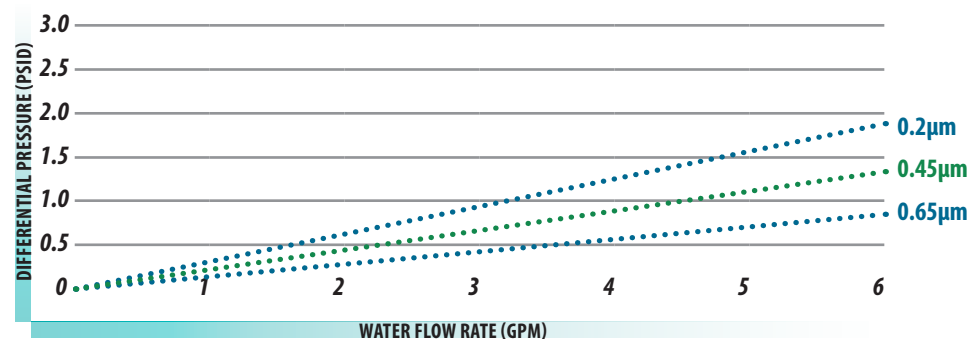
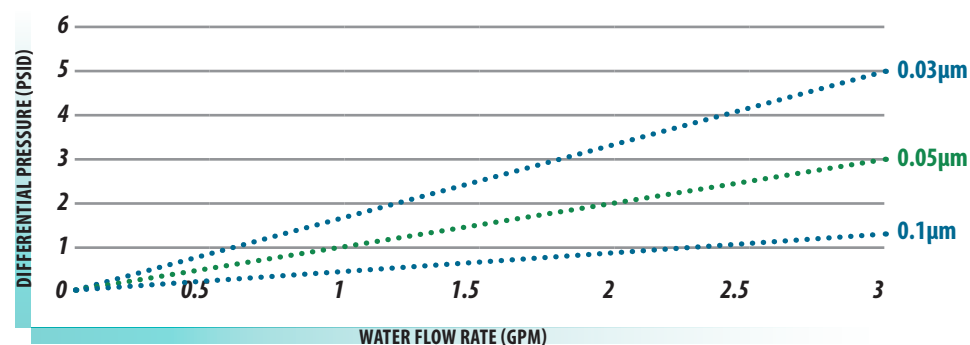
APPROXIMATE SURFACE AREA

6.8 square feet per 10" equivalent

LENGTHS

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

PERFORMANCE CHARACTERISTICS



ORDER OPTIONS

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