

Dual Pleated Cartridges

Duo-PLEAT & Duo-MAXX

▪ Pre-final Ultra Pure Water

▪ Pre-final High Purity Chemicals

▪ Bio-pharmaceutical

▪ Bioburden reduction

▪ Viscous Fluids

▪ Viscous Polymers

Designed as a "Pre-Final" filter, Strainrite's [Depth over Membrane Filters](#) 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.

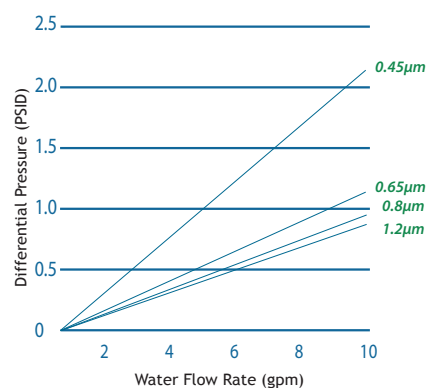
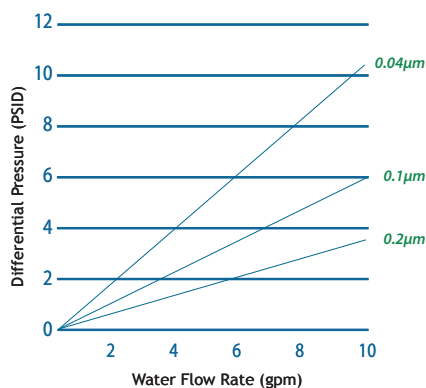


Features & Benefits

Duo-Pleat & Duo-MAXX

- 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

Performance Characteristics *Polyethersulfone Membrane Only*



Specifications

Absolute Rated Retention

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

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

Materials of Construction

Pre-Filter Media

Borosilicate Microglass
 Polypropylene Microfiber

End Caps

Polypropylene
 Polyester

Pleat Support Material

Polypropylene
 Polyester

Cage/Core

Polypropylene
 Polyester

Filter Media

Polyethersulfone
 Nylon
 Polysulfone
 Cellulose Acetate

Seals

Buna N
 Fluorocarbon
 EPDM
 Silicone
 PTFE
 FEP Encapsulated Fluorocarbon
 FEP Encapsulated Silicone

Sealing

Thermal Bond

Dimensions

Duo-Pleat

Outside Diameter

2.55" (6.48cm)

Approx. Surface Area

Borosilicate Microglass (GF)

5ft² per 10" equivalent

Approx. Surface Area

Polypropylene Microfiber (MF)

6ft² per 10" equivalent

Lengths

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

Duo-MAXX

Outside Diameter

2.7" (6.87cm)

Approx. Surface Area

Borosilicate Microglass (GF)

5ft² per 10" equivalent

Approx. Surface Area

Polypropylene Microfiber (MF)

6ft² per 10" equivalent

Lengths

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

Ordering Information

Duo-Pleat

DP

DMX

Duo-MAXX

