

Duo-PLEAT & Duo-MAXX

Dual Pleated Cartridges

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

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

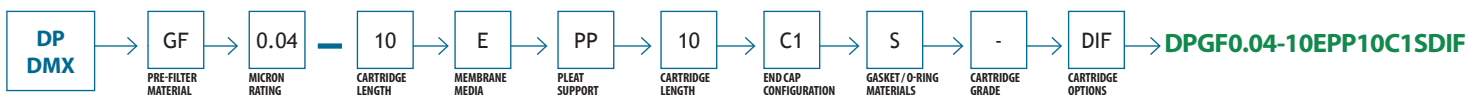
Designed as a “Pre-Final” filter, Strainrite’s [Depth Over Membrane Cartridges](#) were created to protect final filters saving money and extending the life of your final filters. These filters incorporate a synchronized media design. This design utilizes a prefiltration layer up-stream over a final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

These filters are available in multiple micron ranges and combinations to meet the requirements of your process. They are available in two prefiltration materials: polypropylene microfiber and borosilicate microglass. The final filtration layer is available in Nylon, polysulfone, cellulose acetate, and Strainrite’s asymmetric polyethersulfone membrane.



- ▶ RELIABLE NON FIBER RELEASING MEDIA
- ▶ SYNCHRONIZED MEDIA
- ▶ THERMALLY BONDED CONSTRUCTION
- ▶ NO ADDITIVES OR GLUE
- ▶ ALL MATERIALS OF CONSTRUCTION ARE FDA COMPLIANT WITH CFR TITLE 21
- ▶ THERMALLY BONDED CONSTRUCTION WITHOUT ADHESIVES OR BINDERS, RESULTING IN LOWER EXTRACTABLES
- ▶ HIGH STRENGTH DESIGN ALLOWING FOR EXTENDED USE AND MULTI-AUTOClave CYCLES

ORDER GUIDE



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
Borosilicate Microglass Polypro. Microfiber	Polyethersulfone Nylon Polysulfone	Polypropylene Polyester	Polypropylene Polyester	Polypropylene Polyester	Thermal Bond
SEALS					
Buna N Fluorocarbon EPDM Silicone FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone PTFE Foam PTFE Hard					
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA			
DP: 2.55" (6.48cm) DMX: 2.7" (6.87cm)		Polypropylene Microfiber: 6 square feet per 10" equivalent		Borosilicate Microglass: 5 square feet per 10" equivalent	
LENGTHS					
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm) 40 inch (102 cm)					
PERFORMANCE CHARACTERISTICS - POLYETHERSULFONE MEMBRANE ONLY					

ORDER OPTIONS

CARTRIDGE	
DP DMX	Duo-Pleat (2.55") Duo-MAXX (2.7")
PRE-FILTER MATERIAL	
GF MF	Borosilicate Microglass Polypropylene Microfiber
MICRON RATINGS	
E: 0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1, 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 N S	Polyethersulfone Nylon Polysulfone
PLEAT SUPPORT	
PP PE	Polypropylene Polyester
END CAP CONFIGURATIONS	
C1 C2 C3 C4 C5 C6 C7 C8	Double Open Ends 213/Recessed Cup Flat/222 Single Open End/Flat Recessed Cup/222 Flat/226 Fin/226 Fin/222
GASKET/O-RING MATERIAL	
S B V E TF TH TV TS	Silicone Buna N Fluorocarbon EPDM PTFE Foam PTFE Hard Encapsulated Fluorocarbon Encapsulated Silicone
CARTRIDGE GRADE	
- 1 2	General FDA Grade Pharmaceutical
CARTRIDGE OPTIONS	
I DIF	316 SS Insert DI Flush