

SepraPor®

Process Ready Assemblies for Ultrafiltration



SepraPor® Process Ready Assemblies for Ultrafiltration

SepraPor® filter assemblies are engineered to support efficient, reliable bioprocessing with minimal setup time. Irradiated and pre-wetted to achieve optimal flux, these assemblies integrate seamlessly into single-use systems using AseptiQuik® connectors, enabling fast, aseptic connections without compromising process integrity.

Shipped glycerol-free, SepraPor® assemblies eliminate the need for an IPA soak, significantly reducing flushing time and getting processes up and running faster. Each assembly includes tamper-evident, reclosable polybags and cable ties to ensure secure, controlled connections during installation.

SepraPor® assemblies are purpose-built for ultrafiltration applications, including concentration, diafiltration, and separation—delivering consistent performance where precision and reliability matter most.

SepraPor® assemblies are supplied with Certificates of Quality and Conformance. To ensure product compliance to specifications, Meissner’s Quality Assurance staff continually audits the manufacturing process for conformance to its Quality Management System. Meissner verifies sterility in accordance with ANSI/AAMI/ISO 11137 requirements.

Key Benefits

- Robust membrane characterization using three Molecular Weight (MW) markers for Molecular Weight Cutoff (MWCO) assignment ensures accurate performance and lot-to-lot consistency
- Consistent membrane wall thickness and pore structure improves pressure tolerance and reduces risk of integrity failure
- Reduced flushing and faster startup
- Simple integration into single-use assemblies
- Each SepraPor® filter is integrity tested before release

Product Specifications

- **Membrane material:** Polysulfone
- **MWCO range:** 10 to 750 kDa
- **Membrane area:** 13 cm² to 2.1 m²
- **Connections:** AseptiQuik® S/G
- **Wetting fluid:** 1% H₂O₂, DI water
- **Sterilization:** Irradiated

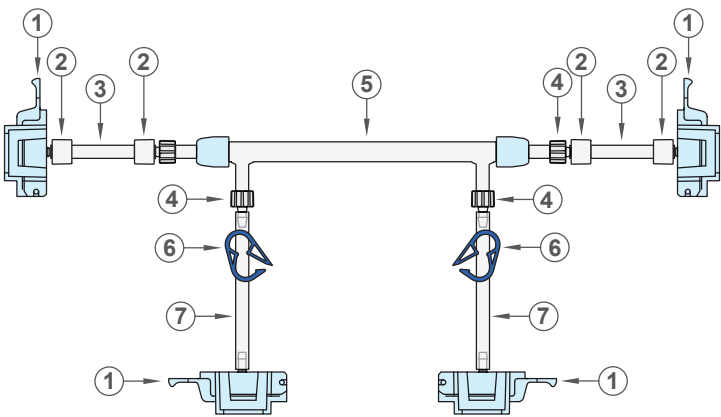
Filter Operating Characteristics

Operating Temperature Range: 39 °F to 100 °F (4 °C to 38 °C)

Retention Rating	Maximum Transmembrane Pressure (TMP)	Normalized Water Flux* LMH/bar @ 25 °C
750 kDa	45 psig @ 77 °F (3.1 bar @ 25 °C)	840 - 1,300
500 kDa		465 - 1,200
300 kDa		325 - 600
100 kDa		215 - 550
50 kDa		100 - 480
30 kDa	50 psig @ 77 °F (3.5 bar @ 25 °C)	70 - 265
10 kDa		50 - 165

* Measured on a 1” diameter filter, 24” length. Part No. XFCXXC224-00CC at low transmembrane pressure.

Configuration 1



Bill of Materials

Item	Description	Material	Qty
1	Aseptic connector, 1/8" Hose Barb, AseptiQuik® S	Polycarbonate	4
2	BarbLock® Tubing Retainer, 1/4" OD	Polypropylene	4
3	1/8" Tubing, 2" Length	M-Flex® TPE or Platinum-Cured Silicone	2
4	1/8" HB × Male Luer Adapter	Polypropylene	4
5	Meissner SepraPor® Capsule Filter	PP/PSU	1
6	Ratchet Pinch Clamp, Small	Polypropylene	2
7	1/8" Tubing, 3" Length	M-Flex® TPE or Platinum-Cured Silicone	2
8	Cable Ties (not pictured)	Nylon	4

Note: All aseptic connectors are secured with tamper evident reclosable poly bags and cable ties.

Assembly Operating Conditions

Maximum Feed Pressure: 42 psig
Maximum Permeate Pressure: 10 psig
Maximum Transmembrane Pressure: 42 psig

Standards - Configuration 1

Assembly Part Number	Filter Part Number	Filter Diameter	Lumen	Fiber Count	Path Length	Effective Filtration Area
FTR5_ _ _ _AA06-00	XFP_ _ _AA06-EEEE	3/8" (0.95 cm)	0.5 mm	7	6" (15 cm)	0.015 ft² (13 cm²)
FTR5_ _ _ _AA12-00	XFP_ _ _AA12-EEEE	3/8" (0.95 cm)	0.5 mm	7	12" (30 cm)	0.033 ft² (31 cm²)
FTR5_ _ _ _AA24-00	XFP_ _ _AA24-EEEE	3/8" (0.95 cm)	0.5 mm	7	24" (60 cm)	0.071 ft² (66 cm²)
FTR5_ _ _ _CA06-00	XFP_ _ _CA06-EEEE	3/8" (0.95 cm)	1.0 mm	3	6" (15 cm)	0.012 ft² (12 cm²)
FTR5_ _ _ _CA12-00	XFP_ _ _CA12-EEEE	3/8" (0.95 cm)	1.0 mm	3	12" (30 cm)	0.029 ft² (27 cm²)
FTR5_ _ _ _CA24-00	XFP_ _ _CA24-EEEE	3/8" (0.95 cm)	1.0 mm	3	24" (60 cm)	0.061 ft² (57 cm²)

Tubing Options

- 12 = Silicone
- 47 = M-Flex® TPE

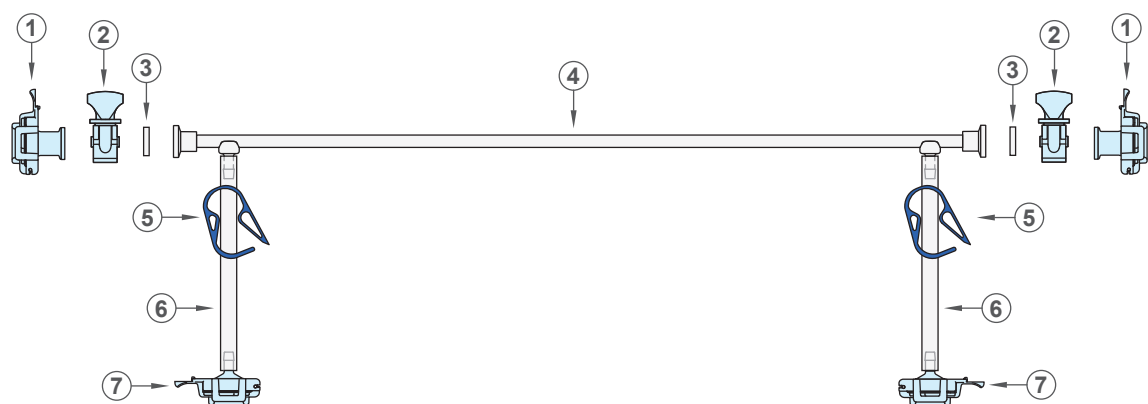
Retention Ratings

- | | |
|---------------|---------------|
| 010 = 10 kDa | 300 = 300 kDa |
| 030 = 30 kDa | 500 = 500 kDa |
| 050 = 50 kDa | 750 = 750 kDa |
| 100 = 100 kDa | |

To specify the correct part number, please choose a Tubing Option and Retention Rating from the charts at left and insert the code in the spaces indicated with underscore marks in the Part Number in the order matrix above. For ordering assistance, please contact Meissner.



Configuration 2



Bill of Materials

Item	Description	Material	Qty
1	Aseptic Connector, 3/4" TC, AseptiQuik® G	Polycarbonate	2
2	3/4" TC UltraClamp™	Polyketone	2
3	3/4" TC Gasket	Platinum-Cured Silicone	2
4	Meissner SeptraPor® Capsule Filter	Polypropylene/Polysulfone	1
5	Ratchet Pinch Clamp, Large	PBT	2
6	1/4" Tubing, 6" Length	M-Flex® TPE or Platinum-Cured Silicone	2
7	Aseptic Connector, 1/4" Hose Barb, AseptiQuik® G	Polycarbonate	2
8	Cable Tie (not pictured)	Nylon	4

Note: All aseptic connectors are secured with tamper evident reclosable poly bags and cable ties.

Assembly Operating Conditions

Maximum Feed Pressure: 60 psig

Maximum Permeate Pressure: 10 psig

Maximum Transmembrane Pressure: Consult Filter Operating Conditions on Page 2.

Standards - Configuration 2

Assembly Part Number	Filter Part Number	Filter Diameter	Lumen	Fiber Count	Path Length	Effective Filtration Area
FTR5_ _ _ _ A012-00	XFP_ _ _ A012-7711	3/8" (0.95 cm)	0.5 mm	30	12" (30cm)	0.12 ft² (0.012 m²)
FTR5_ _ _ _ A024-00	XFP_ _ _ A024-7711	3/8" (0.95 cm)	0.5 mm	30	24" (60 cm)	0.29 ft² (0.026 m²)
FTR5_ _ _ _ C012-00	XFP_ _ _ C012-7711	3/8" (0.95 cm)	1.0 mm	13	12" (30cm)	0.11 ft² (0.010 m²)
FTR5_ _ _ _ C024-00	XFP_ _ _ C024-7711	3/8" (0.95 cm)	1.0 mm	13	24" (60 cm)	0.25 ft² (0.023 m²)

Tubing Options

12 = Silicone

47 = M-Flex® TPE

Retention Ratings

010 = 10 kDa 300 = 300 kDa

030 = 30 kDa 500 = 500 kDa

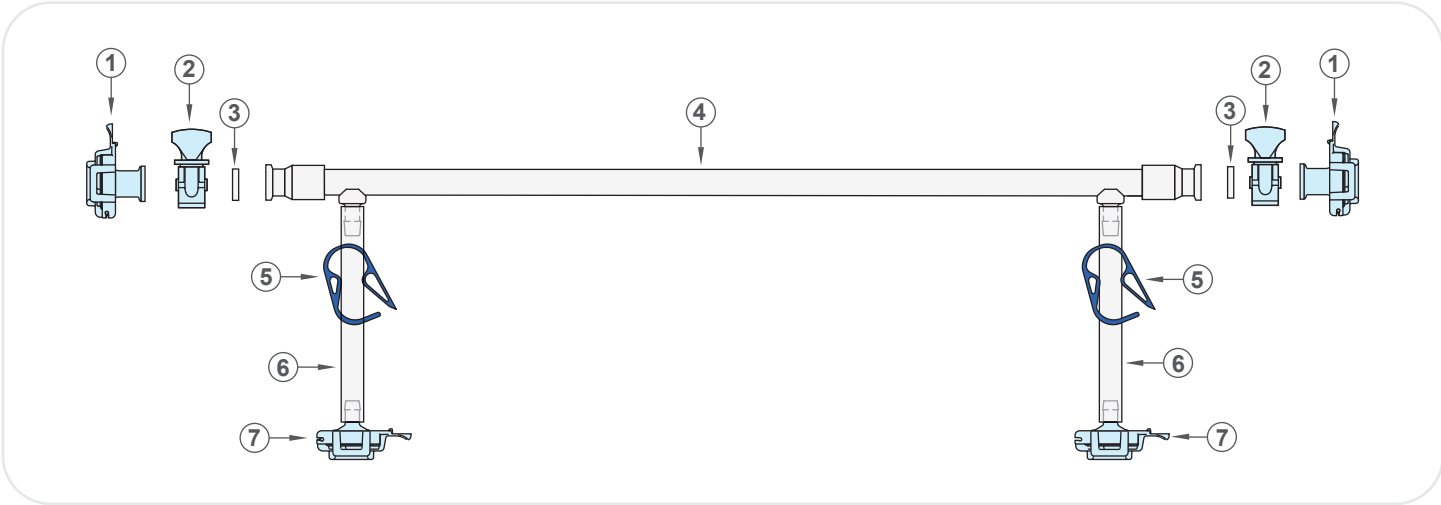
050 = 50 kDa 750 = 750 kDa

100 = 100 kDa

To specify the correct part number, please choose a Tubing Option and Retention Rating from the charts at left and insert the code in the spaces indicated with underscore marks in the Part Number in the order matrix above. For ordering assistance, please contact Meissner.



Configuration 3



Bill of Materials

Item	Description	Material	Qty
1	Aseptic Connector, 3/4" TC, AseptiQuik® G	Polycarbonate	2
2	3/4" TC UltraClamp™	Polyketone	2
3	3/4" TC Gasket	Platinum-Cured Silicone	2
4	Meissner SepraPor® Capsule Filter	Polypropylene/Polysulfone	1
5	Ratchet Pinch Clamp, Large	PBT	2
6	3/8" Tubing, 6" Length	M-Flex® TPE or Platinum-Cured Silicone	2
7	Aseptic Connector, 3/8" Hose Barb, AseptiQuick® G	Polycarbonate	2
8	Cable Tie (not pictured)	Nylon	4

Note: All aseptic connectors are secured with tamper evident reclosable poly bags and cable ties.

Assembly Operating Conditions

Maximum Feed Pressure: 60 psig

Maximum Permeate Pressure: 10 psig

Maximum Transmembrane Pressure: Consult Filter Operating Conditions on Page 2.

Standards - Configuration 3

Assembly Part Number	Filter Part Number	Filter Diameter	Lumen	Fiber Count	Path Length	Effective Filtration Area
FTR5_ _ _ _ A112-00	XFP_ _ _ A112-7722	¾" (1.9 cm)	0.5 mm	140	12" (30cm)	0.56 ft² (0.052 m²)
FTR5_ _ _ _ A124-00	XFP_ _ _ A124-7722	¾" (1.9 cm)	0.5 mm	140	24" (60 cm)	1.3 ft² (0.12 m²)
FTR5_ _ _ _ C112-00	XFP_ _ _ C112-7722	¾" (1.9 cm)	1.0 mm	55	12" (30cm)	0.44 ft² (0.041 m²)
FTR5_ _ _ _ C124-00	XFP_ _ _ C124-7722	¾" (1.9 cm)	1.0 mm	55	24" (60 cm)	1.0 ft² (0.096 m²)

Tubing Options

- 12 = Silicone
- 47 = M-Flex® TPE

Retention Ratings

- | | |
|---------------|---------------|
| 010 = 10 kDa | 300 = 300 kDa |
| 030 = 30 kDa | 500 = 500 kDa |
| 050 = 50 kDa | 750 = 750 kDa |
| 100 = 100 kDa | |

To specify the correct part number, please choose a Tubing Option and Retention Rating from the charts at left and insert the code in the spaces indicated with underscore marks in the Part Number in the order matrix above. For ordering assistance, please contact Meissner.



Configuration 4:



Bill of Materials

Item	Description	Material	Qty
1	Aseptic Connector, 1½" TC, AseptiQuik® G	Polycarbonate	2
2	1½" TC UltraClamp™	Polyketone	2
3	1½" TC Gasket	Platinum-Cured Silicone	2
4	Meissner SeptraPor® Capsule Filter	Polypropylene/Polysulfone	1
5	Ratchet Pinch Clamp, Large	PBT	2
6	½" Tubing, 6" Length	M-Flex® TPE or Platinum-Cured Silicone	2
7	Aseptic Connector, ½" Hose Barb, AseptiQuik® G	Polycarbonate	2
8	Cable Tie (not pictured)	Nylon	4

Note: All aseptic connectors are secured with tamper evident reclosable poly bags and cable ties.

Assembly Operating Conditions

Maximum Feed Pressure: 60 psig

Maximum Permeate Pressure: 10 psig

Maximum Transmembrane Pressure: Consult Filter Operating Conditions on Page 2.

Standards - Configuration 4

Assembly Part Number	Filter Part Number	Filter Diameter	Lumen	Fiber Count	Path Length	Effective Filtration Area
FTR5_ _ _ _A212-00	XFP_ _ _A212-00CC	1" (2.5 cm)	0.5 mm	320	12" (30cm)	1.2 ft² (0.11 m²)
FTR5_ _ _ _A224-00	XFP_ _ _A224-00CC	1" (2.5 cm)	0.5 mm	320	24" (60 cm)	2.9 ft² (0.27 m²)
FTR5_ _ _ _A312-00	XFP_ _ _A312-FFCC	1¼" (3.2 cm)	0.5 mm	520	12" (30cm)	2.1 ft² (0.19 m²)
FTR5_ _ _ _A324-00	XFP_ _ _A324-FFCC	1¼" (3.2 cm)	0.5 mm	520	24" (60 cm)	4.9 ft² (0.45 m²)
FTR5_ _ _ _A412-00	XFP_ _ _A412-FFCC	2.0" (5.1 cm)	0.5 mm	1,300	12" (30cm)	5.5 ft² (0.51 m²)
FTR5_ _ _ _A424-00	XFP_ _ _A424-FFCC	2.0" (5.1 cm)	0.5 mm	1,300	24" (60 cm)	13 ft² (1.2 m²)
FTR5_ _ _ _C212-00	XFP_ _ _C212-00CC	1" (2.5 cm)	1.0 mm	115	12" (30cm)	0.84 ft² (0.078 m²)
FTR5_ _ _ _C224-00	XFP_ _ _C224-00CC	1" (2.5 cm)	1.0 mm	115	24" (60 cm)	2.1 ft² (0.19 m²)
FTR5_ _ _ _C312-00	XFP_ _ _C312-FFCC	1¼" (3.2 cm)	1.0 mm	150	12" (30cm)	1.2 ft² (0.11 m²)
FTR5_ _ _ _C324-00	XFP_ _ _C324-FFCC	1¼" (3.2 cm)	1.0 mm	150	24" (60 cm)	2.8 ft² (0.26 m²)
FTR5_ _ _ _C412-00	XFP_ _ _C412-FFCC	2.0" (5.1 cm)	1.0 mm	520	12" (30cm)	4.4 ft² (0.41 m²)
FTR5_ _ _ _C424-00	XFP_ _ _C424-FFCC	2.0" (5.1 cm)	1.0 mm	520	24" (60 cm)	10 ft² (0.93 m²)

Tubing Options

- 12 = Silicone
- 47 = M-Flex® TPE

Retention Ratings

- | | |
|---------------|---------------|
| 010 = 10 kDa | 300 = 300 kDa |
| 030 = 30 kDa | 500 = 500 kDa |
| 050 = 50 kDa | 750 = 750 kDa |
| 100 = 100 kDa | |

To specify the correct part number, please choose a Tubing Option and Retention Rating from the charts at left and insert the code in the spaces indicated with underscore marks in the Part Number in the order matrix above. For ordering assistance, please contact Meissner.



Configuration 5:



Bill of Materials

Item	Description	Material	Qty
1	Aseptic Connector, 1½" TC, AseptiQuik® G	Polycarbonate	4
2	1½" TC UltraClamp™	Polyketone	4
3	1½" TC Gasket	Platinum-Cured Silicone	4
4	Meissner SeptraPor® Capsule Filter	Polypropylene/Polysulfone	1

Note: All aseptic connectors are secured with tamper evident reclosable poly bags and cable ties.

Operating Conditions

Maximum Feed Pressure: 60 psig
Maximum Permeate Pressure: 10 psig
Maximum Transmembrane Pressure: Consult Filter Operating Conditions on Page 2.

Standards - Configuration 5

Assembly Part Number	Filter Part Number	Filter Diameter	Lumen	Fiber Count	Path Length	Effective Filtration Area
FTR500-__C512-00	XFP__C512-FF00	3.0" (7.6 cm)	1.0 mm	1,250	12" (30 cm)	11 ft² (1.0 m²)
FTR500-__C524-00	XFP__C524-FF00	3.0" (7.6 cm)	1.0 mm	1,250	24" (60 cm)	24 ft² (2.3 m²)

Retention Ratings

010 = 10 kDa	300 = 300 kDa
030 = 30 kDa	500 = 500 kDa
050 = 50 kDa	750 = 750 kDa
100 = 100 kDa	

To specify the correct part number, please choose a Retention Rating from the charts at left and insert the code in the spaces indicated with underscore marks in the Part Number in the order matrix above. For ordering assistance, please contact Meissner.



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Meissner Headquarters
1001 Flynn Road • Camarillo, CA 93012 • USA
+1.805.388.9911 • www.meissner.com

