

AZUR SYSTEM

FILTRATION

SUPPLY SELECTION GUIDE

奥泽思 (上海) 流体技术有限公司

56 series / platforms | 477 specification records



CMPP



K68



GLY

This guide compiles identifiable technical selection data from the supplied product manual. Values, units, temperature and pressure conditions are recorded by series and do not imply that all configurations share the same limits. Confirm the supplied configuration, chemical compatibility and ratings against current controlled model documents.

Product images identify the supplied series. Original manual pages are not reproduced. Certification, factory-system and regulatory statements in the original draft are not presented as evidence for Azur. Sterilizing, integrity-testing and cleaning applications require validation in the actual process.

Basis: the supplied product manual. Physical PDF page numbers are retained on each series page for technical traceability.

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Series image from supplied manual

APS I

APS I PES membrane cartridges

Hydrophilic PES cartridges for biopharmaceutical liquid filtration, with multiple pore sizes, lengths and end connections.

TECHNICAL SPECIFICATIONS

Membrane	Hydrophilic PES
Support layer	PP
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 / 40 in
Pore-size options	0.04 / 0.1 / 0.22 / 0.45 / 0.65 / 0.8 / 1.2 µm
Maximum operating temperature	80 °C
Maximum forward differential pressure	0.69 MPa @ 25 °C; 0.40 MPa @ 60 °C; 0.24 MPa @ 80 °C
Maximum reverse differential pressure	0.30 MPa @ 25 °C; 0.10 MPa @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat
Steam-in-place conditions	135 °C / 30 min / 60 cycles; ΔP < 30 kPa
Example bubble-point limit	≥ 3400 mbar; 0.22 µm, 10 in, 20 °C, water-wet, air test

FEATURES

- Single asymmetric PES membrane
- PP support and structural components

APPLICATIONS

- Culture media and buffers
- Vaccine and blood-product processes
- Aqueous pharmaceutical solutions

SELECTION NOTES

- Sterilizing applications require process validation with the actual fluid, sterilization procedure and integrity test.

Technical source: supplied product manual, physical PDF pages 13, 14.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

APS II

APS II PES membrane cartridges

Hydrophilic PES cartridges for biopharmaceutical liquid filtration, with multiple pore sizes, lengths and end connections.

TECHNICAL SPECIFICATIONS

Membrane	Hydrophilic PES
Support layer	PP
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 / 40 in
Pore-size options	0.1+0.04 / 0.22+0.1 / 0.22+0.22 / 0.45+0.22 / 0.45+0.45 / 0.65+0.45 / 0.8+0.45 / 0.65+0.65 / 1.2+0.65 / 0.8+0.8 / 1.2+0.8 / 1.2+1.2 µm
Maximum operating temperature	80 °C
Maximum forward differential pressure	0.69 MPa @ 25 °C; 0.40 MPa @ 60 °C; 0.24 MPa @ 80 °C
Maximum reverse differential pressure	0.30 MPa @ 25 °C; 0.10 MPa @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat
Steam-in-place conditions	135 °C / 30 min / 60 cycles; ΔP < 30 kPa
Example bubble-point limit	≥ 0.34 MPa; 0.22+0.22 µm, 10 in, 20 °C, water-wet, air test

FEATURES

- Dual-layer PES membrane combinations
- PP support and structural components

APPLICATIONS

- Culture media and buffers
- Vaccine and blood-product processes
- Aqueous pharmaceutical solutions

SELECTION NOTES

- Sterilizing applications require process validation with the actual fluid, sterilization procedure and integrity test.

Technical source: supplied product manual, physical PDF pages 15, 16.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

APS III

APS III PES membrane cartridges

Hydrophilic PES membrane with PP support for pharmaceutical process-liquid filtration.

TECHNICAL SPECIFICATIONS

Membrane	Hydrophilic PES
Support layer	PP
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 / 40 in
Pore-size options	0.22+0.22 / 0.45+0.22 / 0.65+0.45 µm
Maximum operating temperature	80 °C
Maximum forward differential pressure	0.69 MPa @ 25 °C; 0.40 MPa @ 60 °C; 0.24 MPa @ 80 °C
Maximum reverse differential pressure	0.30 MPa @ 25 °C; 0.10 MPa @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat
Steam-in-place conditions	135 °C / 30 min / 60 cycles; ΔP < 30 kPa

FEATURES

- Asymmetric graded pore structure
- PP support and structural components

APPLICATIONS

- Culture media and buffers
- Vaccine and blood-product processes
- Aqueous pharmaceutical solutions

SELECTION NOTES

- Sterilizing applications require process validation with the actual fluid, sterilization procedure and integrity test.

Technical source: supplied product manual, physical PDF pages 17, 18.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

APS IV

APS IV PES membrane cartridges

Hydrophilic PES membrane with PP support for pharmaceutical process-liquid filtration.

TECHNICAL SPECIFICATIONS

Membrane	Hydrophilic PES
Support layer	PP
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 / 40 in
Pore-size options	0.22 / 0.45 / 0.65 µm
Maximum operating temperature	80 °C
Maximum forward differential pressure	0.69 MPa @ 25 °C; 0.40 MPa @ 60 °C; 0.24 MPa @ 80 °C
Maximum reverse differential pressure	0.30 MPa @ 25 °C; 0.10 MPa @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat
Steam-in-place conditions	135 °C / 30 min / 60 cycles; ΔP < 30 kPa

FEATURES

- Asymmetric membrane with an integrated prefilter layer
- PP support and structural components

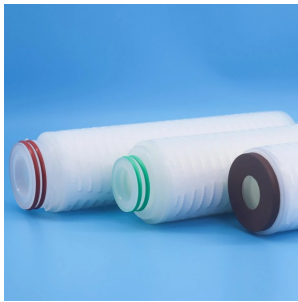
APPLICATIONS

- Viscous pharmaceutical fluids
- Pharmaceutical process-liquid filtration

SELECTION NOTES

- Sterilizing applications require process validation with the actual fluid, sterilization procedure and integrity test.

Technical source: supplied product manual, physical PDF pages 19, 20.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

APS V

APS V PES membrane cartridges

Hydrophilic PES membrane with PP support for pharmaceutical process-liquid filtration.

TECHNICAL SPECIFICATIONS

Membrane	Hydrophilic PES
Support layer	PP
Cage / core / end caps	PP
Lengths	5 / 10 / 20 / 30 / 40 in
Pore-size options	0.22+0.22 µm
Maximum operating temperature	80 °C
Maximum forward differential pressure	0.69 MPa @ 25 °C; 0.40 MPa @ 60 °C; 0.24 MPa @ 80 °C
Maximum reverse differential pressure	0.30 MPa @ 25 °C; 0.10 MPa @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat
Steam-in-place conditions	135 °C / 30 min / 50 cycles; ΔP < 30 kPa

FEATURES

- Dual-layer PES pore-size combination
- PP support and structural components

APPLICATIONS

- LVP / SVP processes
- Antibiotic solutions
- Saline

SELECTION NOTES

- Sterilizing applications require process validation with the actual fluid, sterilization procedure and integrity test.
- Endotoxin removal depends on fluid and operating conditions and requires separate validation.

Technical source: supplied product manual, physical PDF pages 21, 22.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

APS VI

APS VI PES membrane cartridges

Hydrophilic PES cartridges for biopharmaceutical liquid filtration, with multiple pore sizes, lengths and end connections.

TECHNICAL SPECIFICATIONS

Membrane	Hydrophilic PES
Support layer	PP
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 / 40 in
Pore-size options	0.04 / 0.1 / 0.22 / 0.45 / 0.65 / 0.8 / 1.2 µm
Maximum operating temperature	80 °C
Maximum forward differential pressure	0.69 MPa @ 25 °C; 0.40 MPa @ 60 °C; 0.24 MPa @ 80 °C
Maximum reverse differential pressure	0.30 MPa @ 25 °C; 0.10 MPa @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat
Steam-in-place conditions	135 °C / 30 min / 100 cycles; ΔP < 30 kPa
Example bubble-point limit	≥ 0.32 MPa; 0.22 µm, 10 in, 20 °C, water-wet, air test
Example diffusion limit	≤ 25 mL/min @ 0.275 MPa; 0.22 µm, 10 in, 20 °C, water-wet

FEATURES

- Hydrophilic PES membrane with bubble-point and diffusion limits
- PP support and structural components

APPLICATIONS

- Culture media and buffers
- Vaccine and blood-product processes
- Aqueous pharmaceutical solutions

SELECTION NOTES

- Sterilizing applications require process validation with the actual fluid, sterilization procedure and integrity test.

Technical source: supplied product manual, physical PDF pages 23, 24.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

APS VII

APS VII PES membrane cartridges

Hydrophilic PES cartridges for biopharmaceutical liquid filtration, with multiple pore sizes, lengths and end connections.

TECHNICAL SPECIFICATIONS

Membrane	Hydrophilic PES
Support layer	PP
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 / 40 in
Pore-size options	0.05 / 0.1 / 0.22 / 0.45 / 0.65 / 0.8 / 1.2 / 3 / 5 µm
Maximum operating temperature	80 °C
Maximum forward differential pressure	0.69 MPa @ 25 °C; 0.40 MPa @ 60 °C; 0.24 MPa @ 80 °C
Maximum reverse differential pressure	0.30 MPa @ 25 °C; 0.10 MPa @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat
Steam-in-place conditions	135 °C / 30 min / 60 cycles; ΔP < 30 kPa
Example bubble-point limit	≥ 3300 mbar; 0.22 µm, 10 in, 20 °C, water-wet, air test

FEATURES

- Single- or dual-layer asymmetric PES membrane
- PP support and structural components

APPLICATIONS

- Culture media and buffers
- Vaccine and blood-product processes
- Aqueous pharmaceutical solutions

SELECTION NOTES

- Sterilizing applications require process validation with the actual fluid, sterilization procedure and integrity test.

Technical source: supplied product manual, physical PDF pages 25, 26.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

HPF I

HPF I PTFE gas-filter cartridges

Hydrophobic PTFE cartridges with PP support for fermentation, tank venting and process gas.

TECHNICAL SPECIFICATIONS

Membrane	Hydrophobic PTFE
Support layer	PP
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 in
Pore-size options	0.01 µm (gas); 0.22 / 0.45 µm
Maximum operating temperature	80 °C
Maximum forward differential pressure	0.69 MPa @ 25 °C; 0.40 MPa @ 60 °C; 0.24 MPa @ 80 °C
Maximum reverse differential pressure	0.30 MPa @ 25 °C; 0.10 MPa @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat
Steam-in-place conditions	145 °C / 30 min; 100 forward cycles ($\Delta P < 30$ kPa) + 50 reverse cycles ($\Delta P < 10$ kPa)

FEATURES

- Naturally hydrophobic membrane
- Multiple connection and seal options

APPLICATIONS

- Fermentation and storage tank inlet/vent gas
- Compressed-air and nitrogen filtration
- Gas for aseptic packaging

SELECTION NOTES

- Sterilizing applications require process validation with the actual fluid, sterilization procedure and integrity test.
- The 0.01 µm rating refers to gas retention and does not establish 10 nm liquid filtration.

Technical source: supplied product manual, physical PDF pages 27, 28.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

HPF II

HPF II PTFE gas-filter cartridges

Hydrophobic PTFE cartridges with PPS support for fermentation, tank venting and process gas.

TECHNICAL SPECIFICATIONS

Membrane	Hydrophobic PTFE
Support layer	PPS
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 in
Pore-size options	0.01 µm (gas); 0.22 / 0.45 µm
Maximum operating temperature	80 °C
Maximum forward differential pressure	0.69 MPa @ 25 °C; 0.40 MPa @ 60 °C; 0.24 MPa @ 80 °C
Maximum reverse differential pressure	0.30 MPa @ 25 °C; 0.10 MPa @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat
Steam-in-place conditions	145 °C / 30 min; 100 forward cycles ($\Delta P < 30$ kPa) + 50 reverse cycles ($\Delta P < 10$ kPa)
Filtration area	0.68 m ² / 10 in

FEATURES

- Naturally hydrophobic membrane
- Multiple connection and seal options

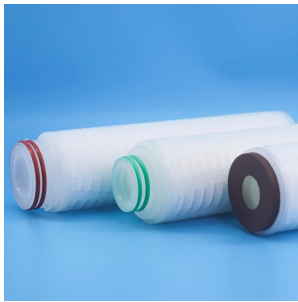
APPLICATIONS

- Fermentation and storage tank inlet/vent gas
- Compressed-air and nitrogen filtration
- Gas for aseptic packaging

SELECTION NOTES

- Sterilizing applications require process validation with the actual fluid, sterilization procedure and integrity test.
- The 0.01 µm rating refers to gas retention and does not establish 10 nm liquid filtration.

Technical source: supplied product manual, physical PDF pages 29, 30.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

HPF III

HPF III PTFE liquid-filter cartridges

PTFE cartridges for pharmaceutical liquids and solvents, selected according to fluid chemistry and wetting requirements.

TECHNICAL SPECIFICATIONS

Membrane	Hydrophobic PTFE
Support layer	PP
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 in
Pore-size options	0.1 / 0.22 / 0.45 µm
Maximum operating temperature	80 °C
Maximum forward differential pressure	0.69 MPa @ 25 °C; 0.40 MPa @ 60 °C; 0.24 MPa @ 80 °C
Maximum reverse differential pressure	0.30 MPa @ 25 °C; 0.10 MPa @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat
Steam-in-place conditions	135 °C / 30 min / 100 cycles; ΔP < 30 kPa

FEATURES

- Hydrophobic PTFE membrane
- PP support and structural components

APPLICATIONS

- Organic solvents
- Solvent-based process fluids
- Corrosive liquids subject to compatibility confirmation

SELECTION NOTES

- Sterilizing applications require process validation with the actual fluid, sterilization procedure and integrity test.

Technical source: supplied product manual, physical PDF pages 31, 32.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

HPF IV

HPF IV PTFE liquid-filter cartridges

PTFE cartridges for pharmaceutical liquids and solvents, selected according to fluid chemistry and wetting requirements.

TECHNICAL SPECIFICATIONS

Membrane	Hydrophilic PTFE
Support layer	PP
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 in
Pore-size options	0.1 / 0.22 / 0.45 µm
Maximum operating temperature	80 °C
Maximum forward differential pressure	0.69 MPa @ 25 °C; 0.40 MPa @ 60 °C; 0.24 MPa @ 80 °C
Maximum reverse differential pressure	0.30 MPa @ 25 °C; 0.10 MPa @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat
Steam-in-place conditions	135 °C / 30 min / 35 cycles; ΔP < 30 kPa

FEATURES

- Hydrophilic PTFE membrane
- PP support and structural components

APPLICATIONS

- Solvent-containing pharmaceutical solutions
- Ophthalmic solution processes
- Disinfectants and cleaning solutions

SELECTION NOTES

- Sterilizing applications require process validation with the actual fluid, sterilization procedure and integrity test.

Technical source: supplied product manual, physical PDF pages 33, 34.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

LPV I / LPV II

LPV hydrophilic PVDF cartridges

Single- and dual-layer hydrophilic PVDF membrane series for culture media, biological reagents and blood-product processes.

TECHNICAL SPECIFICATIONS

Membrane	LPV I: single hydrophilic PVDF layer; LPV II: dual hydrophilic PVDF layers
Support layer	PP
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 / 40 in
Pore-size options	LPV I: 0.1 / 0.22 / 0.65 µm; LPV II: 0.22+0.22 / 0.45+0.45 / 0.65+0.45 µm
Maximum operating temperature	80 °C
Maximum forward differential pressure	0.69 MPa @ 25 °C; 0.40 MPa @ 60 °C; 0.24 MPa @ 80 °C
Maximum reverse differential pressure	0.30 MPa @ 25 °C; 0.10 MPa @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat
Steam-in-place conditions	135 °C / 30 min / 50 cycles; ΔP < 30 kPa

FEATURES

- Single- and dual-layer configurations
- Water-wet integrity-test limits are provided

APPLICATIONS

- Culture media and buffers
- Vaccine and blood-product processes
- Aqueous pharmaceutical solutions

SELECTION NOTES

- Sterilizing applications require process validation with the actual fluid, sterilization procedure and integrity test.
- Some pore-size codes differ in print. Only unambiguous options are listed; confirm the complete configuration against a controlled ordering specification.

Technical source: supplied product manual, physical PDF pages 35, 36, 37.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

NL66 I / NL66 II

NL66 positively charged nylon cartridges

Naturally hydrophilic nylon 66 membrane with positive charge modification, offered in single- and dual-layer structures.

TECHNICAL SPECIFICATIONS

Membrane	NL66 I: single positively charged N66 layer; NL66 II: dual positively charged N66 layers
Support layer	PP
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 / 40 in
Pore-size options	NL66 I: 0.22 / 0.45 / 1.2 µm; NL66 II: 0.22+0.22 / 0.45+0.22 / 1.2+0.45 µm
Maximum operating temperature	80 °C
Maximum forward differential pressure	0.69 MPa @ 25 °C; 0.40 MPa @ 60 °C; 0.24 MPa @ 80 °C
Maximum reverse differential pressure	0.30 MPa @ 25 °C; 0.10 MPa @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat
Steam-in-place conditions	121 °C / 30 min / 10 cycles; ΔP < 30 kPa

FEATURES

- Positively charged N66 membrane
- Single- or dual-layer construction

APPLICATIONS

- Saline and pharmaceutical water
- Mildly alkaline solutions
- Solvents and antibiotic solutions

SELECTION NOTES

- Sterilizing applications require process validation with the actual fluid, sterilization procedure and integrity test.
- Adsorption depends on fluid conditions and is not equivalent to selective metal-ion removal.

Technical source: supplied product manual, physical PDF pages 38, 39, 40.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

YNL66

YNL66 nylon liquid-filter cartridges

Naturally hydrophilic N66 membrane for aqueous fluids, alcoholic beverages and alkaline solutions.

TECHNICAL SPECIFICATIONS

Filter medium	N66
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 in
Pore-size options	0.1 / 0.22 / 0.45 / 1 / 3 / 5 µm
Maximum operating temperature	80 °C
Maximum differential pressure	4 bar @ 21 °C; 2.4 bar @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat

FEATURES

- Naturally hydrophilic and readily wetted
- N66 membrane with PP construction

APPLICATIONS

- Bottled water and ingredient water
- Beer and wine
- Alkaline process fluids

Technical source: supplied product manual, physical PDF pages 41.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

MFC

MFC hydrophilic MCE prefilter cartridges

Mixed cellulose ester membrane cartridges for prefiltration of culture media, buffers and blood products.

TECHNICAL SPECIFICATIONS

Membrane	MCE
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 in
Pore size	0.45 µm
Filtration area	5 in: 0.32 m²; 10 in: 0.68 m²; 20 in: 1.32 m²; 30 in: 2.04 m²
Maximum forward differential pressure	5.0 bar @ 25 °C; 1.5 bar @ 80 °C
Maximum reverse differential pressure	2.0 bar @ 25 °C
Steam sterilization conditions	121 °C / 30 min / 5 cycles, autoclave or steam-in-place

FEATURES

- Hydrophilic MCE membrane
- PP support and structural components; PC reinforcement in the end piece

APPLICATIONS

- Culture-media and buffer prefiltration
- LVP / SVP prefiltration
- Protection upstream of chromatography columns

Technical source: supplied product manual, physical PDF pages 42, 43.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

SGF

SGF glass-fiber prefilter cartridges

Fine glass-fiber cartridges for gas pretreatment, with PP or 316L structural components.

TECHNICAL SPECIFICATIONS

Filter medium	Fine glass fiber
Structural components	316L stainless steel or PP
Filtration area	0.40 m ² / 10 in (Ø68)
Pore-size options	0.1 / 0.22 / 0.45 µm
Lengths	5 / 10 / 20 / 30 / 40 in
Maximum operating temperature	80 °C
Maximum differential pressure	0.69 MPa @ 25 °C; 0.24 MPa @ 80 °C
Steam sterilization conditions	121 °C / 30 min

FEATURES

- Fine glass-fiber medium
- PP drainage layer

APPLICATIONS

- Compressed-air oil and particle prefiltration
- Air supply for antibiotic fermentation
- Air supply for biotechnology fermentation

Technical source: supplied product manual, physical PDF pages 44.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

MGF

MGF glass-fiber prefilter cartridges

Fine glass-fiber media for prefiltration of liquids containing colloids, proteins and substantial particle loads.

TECHNICAL SPECIFICATIONS

Filter medium	Fine glass fiber
Structural components	PP
Filtration area	0.24-0.40 m ² / 10 in (Ø68)
Pore-size options	0.1 / 0.22 / 0.45 µm
Lengths	5 / 10 / 20 / 30 / 40 in
Maximum operating temperature	80 °C
Maximum differential pressure	0.69 MPa @ 25 °C; 0.24 MPa @ 80 °C
Steam sterilization conditions	121 °C / 30 min

FEATURES

- Fine glass-fiber medium
- PP drainage layer

APPLICATIONS

- Culture-media prefiltration
- Serum and blood-product prefiltration
- Clarification of colloidal and viscous liquids

Technical source: supplied product manual, physical PDF pages 45.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

PPH

PPH polypropylene cartridges

All-PP particle-filtration series with configurable pore size, length and seal material.

TECHNICAL SPECIFICATIONS

Filter medium	PP
Cage / core / end caps	PP
Drainage layer	PP
Pore-size options	0.1 / 0.22 / 0.45 / 1 / 3 / 5 / 10 / 30 / 50 / 70 / 100 µm
Lengths	5 / 10 / 20 / 30 / 40 in
Normal operating temperature	≤ 55 °C
Maximum differential pressure at 21 °C	4 bar
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat

FEATURES

- Fine PP fiber membrane
- Thermally welded construction

APPLICATIONS

- Reverse-osmosis guard filtration
- Process-water prefiltration
- Beverage and wine clarification

SELECTION NOTES

- Differential-pressure conditions at 80 °C are inconsistent in the source table and require separate confirmation.

Technical source: supplied product manual, physical PDF pages 46.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

PPL

PPL polypropylene cartridges

All-PP particle-filtration series with configurable pore size, length and seal material.

TECHNICAL SPECIFICATIONS

Filter medium	PP
Cage / core / end caps	PP
Drainage layer	PP
Pore-size options	0.1 / 0.22 / 0.45 / 1 / 3 / 5 / 10 / 30 / 50 / 70 / 100 µm
Lengths	5 / 10 / 20 / 30 / 40 in
Normal operating temperature	≤ 55 °C
Maximum differential pressure at 21 °C	4 bar
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat

FEATURES

- Long-fiber filter medium
- Thermally welded construction

APPLICATIONS

- Reverse-osmosis guard filtration
- Process-water prefiltration
- Beverage and wine clarification

SELECTION NOTES

- Differential-pressure conditions at 80 °C are inconsistent in the source table and require separate confirmation.

Technical source: supplied product manual, physical PDF pages 47.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

PPA

PPA polypropylene cartridges

All-PP particle-filtration series with configurable pore size, length and seal material.

TECHNICAL SPECIFICATIONS

Filter medium	PP
Cage / core / end caps	PP
Drainage layer	PP
Pore-size options	0.1 / 0.22 / 0.45 / 1 / 3 / 5 / 10 / 30 / 50 / 70 / 100 µm
Lengths	5 / 10 / 20 / 30 / 40 in
Normal operating temperature	≤ 55 °C
Maximum differential pressure at 21 °C	4 bar
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat

FEATURES

- Dual-layer graded PP membrane
- Thermally welded construction

APPLICATIONS

- Reverse-osmosis guard filtration
- Process-water prefiltration
- Beverage and wine clarification

SELECTION NOTES

- Differential-pressure conditions at 80 °C are inconsistent in the source table and require separate confirmation.

Technical source: supplied product manual, physical PDF pages 48.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

HPP

HPP pleated polypropylene cartridges

PP filtration series for food, beverage and process fluids, configured for the particle load and filtration objective.

TECHNICAL SPECIFICATIONS

Filter medium	PP
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 / 40 in
Pore-size options	0.1 / 0.22 / 0.45 / 1 / 3 / 10 / 20 / 50 µm
Maximum operating temperature	80 °C
Maximum differential pressure	4 bar @ 21 °C; 2.4 bar @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat

FEATURES

- Dual-layer PP fiber membrane
- PP drainage and structural components

APPLICATIONS

- Reverse-osmosis guard filtration
- Process-water prefiltration
- Beverage and wine clarification

Technical source: supplied product manual, physical PDF pages 56.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

NPP

NPP pleated polypropylene cartridges

PP filtration series for food, beverage and process fluids, configured for the particle load and filtration objective.

TECHNICAL SPECIFICATIONS

Filter medium	PP
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 / 40 in
Pore-size options	0.1 / 0.22 / 0.45 / 1 / 3 / 10 / 20 / 50 µm
Maximum operating temperature	80 °C
Maximum differential pressure	4 bar @ 21 °C; 2.4 bar @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat

FEATURES

- Dual-layer graded PP membrane
- PP drainage and structural components

APPLICATIONS

- Reverse-osmosis guard filtration
- Process-water prefiltration
- Beverage and wine clarification

Technical source: supplied product manual, physical PDF pages 57.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

SPP

SPP pleated polypropylene cartridges

PP filtration series for food, beverage and process fluids, configured for the particle load and filtration objective.

TECHNICAL SPECIFICATIONS

Filter medium	PP
Cage / core / end caps	PP
Lengths	5 / 10 / 20 / 30 / 40 in
Pore-size options	0.1 / 0.22 / 0.45 / 1 / 3 / 10 / 20 / 50 µm
Maximum operating temperature	80 °C
Maximum differential pressure	4 bar @ 20 °C; 2.4 bar @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat

FEATURES

- Multilayer fine PP fibers with a graded pore structure
- PP drainage and structural components

APPLICATIONS

- Colloidal liquids
- Fermentation broth
- Viscous-fluid prefiltration

Technical source: supplied product manual, physical PDF pages 58.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

XPS

XPS pleated PES cartridges

Hydrophilic PES series for process water, wine and packaged-water filtration in food and beverage production.

TECHNICAL SPECIFICATIONS

Filter medium	Hydrophilic PES
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 / 40 in
Pore-size options	0.04 / 0.1 / 0.22 / 0.45 / 0.65 / 0.8 / 1.2 µm
Maximum operating temperature	80 °C
Maximum differential pressure	4 bar @ 20 °C; 2.4 bar @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat
Example bubble-point limit	≥ 3.2 bar; 0.22 µm, 10 in, 20 °C, water-wet
Example diffusion limit	≤ 25 mL/min @ 2.76 bar; 0.22 µm, 10 in, 20 °C

FEATURES

- Water-wet integrity testing
- PP structure with multiple end connections

APPLICATIONS

- Process and packaged water
- Wine and fruit wine
- Spirits clarification

SELECTION NOTES

- Sterilizing applications require process validation with the actual fluid, sterilization procedure and integrity test.

Technical source: supplied product manual, physical PDF pages 59, 60.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

TPS

TPS asymmetric PES cartridges

Asymmetric hydrophilic PES membrane for bottled water, alcoholic beverages, syrup and process water.

TECHNICAL SPECIFICATIONS

Filter medium	Hydrophilic PES
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 / 40 in
Pore-size options	0.22 / 0.45 / 0.65 µm
Maximum operating temperature	80 °C
Maximum differential pressure	4 bar @ 20 °C; 2.4 bar @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat
Example bubble-point limit	≥ 3.2 bar; 0.22 µm, 10 in, 20 °C, water-wet
Example diffusion limit	≤ 35 mL/min @ 2.76 bar; 0.22 µm, 10 in, 20 °C

FEATURES

- Asymmetric PES membrane pore structure
- PP drainage and structural components

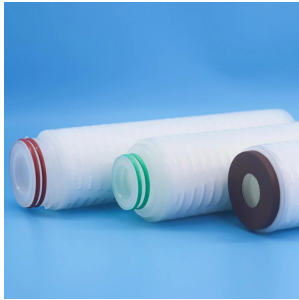
APPLICATIONS

- Bottled water and process water
- Beer and wine
- Syrup

SELECTION NOTES

- Sterilizing applications require process validation with the actual fluid, sterilization procedure and integrity test.
- The model follows TPS in the source heading and ordering table; the body also contains XTPS.

Technical source: supplied product manual, physical PDF pages 61, 62.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

BTf

BTf pleated PTFE cartridges

Hydrophobic PTFE series for inlet and vent filtration on food fermentation, seed and mixing tanks.

TECHNICAL SPECIFICATIONS

Filter medium	Hydrophobic PTFE
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 in
Pore-size options	0.01 / 0.22 / 0.45 / 1 / 3 / 5 / 10 µm
Maximum operating temperature	80 °C
Maximum differential pressure	4 bar @ 20 °C; 2.4 bar @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat

FEATURES

- Hydrophobic PTFE filter medium
- PP support and structural components

APPLICATIONS

- Fermentation and storage tank inlet/vent gas
- Compressed-air and nitrogen filtration
- Gas for aseptic packaging

SELECTION NOTES

- The 0.01 µm entry is associated with gas applications; confirm liquid retention for the specific model.

Technical source: supplied product manual, physical PDF pages 63.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

NLA

NLA pleated nylon cartridges

Naturally hydrophilic nylon 66 series for aqueous and alcohol-containing liquids.

TECHNICAL SPECIFICATIONS

Filter medium	N66
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 in
Pore-size options	0.1 / 0.22 / 0.45 / 1 / 3 / 5 µm
Maximum operating temperature	80 °C
Maximum differential pressure	4 bar @ 20 °C; 2.4 bar @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat

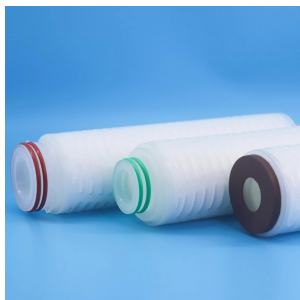
FEATURES

- N66 filter medium
- PP support and structural components

APPLICATIONS

- Bottled and ingredient water
- Beer and wine
- Alkaline fluids

Technical source: supplied product manual, physical PDF pages 64.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

GFT

GFT pleated glass-fiber cartridges

Rigid fine glass-fiber media for gas pretreatment and liquid clarification.

TECHNICAL SPECIFICATIONS

Filter medium	Glass fiber
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 in
Pore-size options	0.5 / 1 / 3 / 5 µm
Maximum operating temperature	80 °C
Maximum differential pressure	4 bar @ 20 °C; 2.4 bar @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat / 215 flat

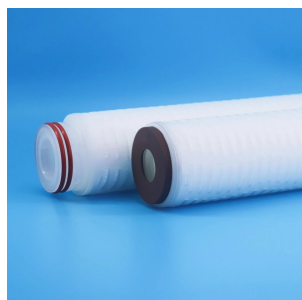
FEATURES

- Glass fiber filter medium
- PP support and structural components

APPLICATIONS

- Compressed-air prefiltration
- Fermentation-air pretreatment
- Colloidal and viscous-liquid clarification

Technical source: supplied product manual, physical PDF pages 65.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

ACF

ACF activated-carbon fiber cartridges

Combines activated-carbon fiber adsorption with particle filtration for color, residual chlorine and odor control.

TECHNICAL SPECIFICATIONS

Filter medium	Activated-carbon fiber
Cage / core / end caps	PP
Outer diameter	69 mm
Lengths	5 / 10 / 20 / 30 in
Filtration rating	5 µm
Normal operating temperature	≤ 50 °C
Maximum operating temperature	65 °C
Maximum differential pressure	4 bar @ 21 °C; 1 bar @ 65 °C
pH range	1-13

FEATURES

- Wound activated-carbon fiber structure
- Adhesive-free construction

APPLICATIONS

- Organic-solvent decolorization
- Residual-chlorine and odor control in water treatment
- Beverage-liquid purification

SELECTION NOTES

- Validate adsorption capacity and breakthrough endpoint with the actual fluid.

Technical source: supplied product manual, physical PDF pages 66.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

CMPP

CMPP CMP slurry-filter cartridges

For control of oversized particles and agglomerates in CMP slurries, evaluated together with useful-abrasive retention and pressure rise.

TECHNICAL SPECIFICATIONS

Filter medium	PP
Cage / core / end caps	PP
Lengths	5 / 10 / 20 / 30 in
Pore-size options	0.5 / 1 / 1.5 / 2 / 10 / 20 / 40 / 70 / 90 µm
Maximum operating temperature	80 °C
Maximum differential pressure	4 bar @ 20 °C; 2.4 bar @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat

FEATURES

- Multilayer graded nanofiber structure
- PP construction without adhesives

APPLICATIONS

- CMP polishing slurries
- Liquids with high suspended-particle loads
- Colloidal and viscous fluids

SELECTION NOTES

- Validate particle-size distribution, useful-abrasive loss and differential-pressure endpoint using the actual slurry.

Technical source: supplied product manual, physical PDF pages 76.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

CMPN

CMPN CMP slurry-filter cartridges

For control of oversized particles and agglomerates in CMP slurries, evaluated together with useful-abrasive retention and pressure rise.

TECHNICAL SPECIFICATIONS

Filter medium	PP
Cage / core / end caps	PP
Lengths	5 / 10 / 20 / 30 in
Pore-size options	3 / 5 / 10 / 25 / 40 / 50 / 70 µm
Maximum operating temperature	80 °C
Maximum differential pressure	4 bar @ 20 °C; 2.4 bar @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat

FEATURES

- Wound depth-filtration structure
- PP construction without adhesives

APPLICATIONS

- CMP polishing slurries
- Liquids with high suspended-particle loads
- Colloidal and viscous fluids

SELECTION NOTES

- Validate particle-size distribution, useful-abrasive loss and differential-pressure endpoint using the actual slurry.

Technical source: supplied product manual, physical PDF pages 77.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

PRNF / PRNN

PRNF / PRNN photoresist filter cartridges

Photoresist-filtration series with PTFE and nylon membrane configurations; structural materials require confirmation for the final model.

TECHNICAL SPECIFICATIONS

PRNF membrane	PTFE
PRNN membrane	Nylon
PTFE pore-size options	0.02 / 0.05 / 0.1 / 0.2 / 0.5 / 1 / 3 / 5 / 10 µm
Unambiguous nylon pore-size options	0.1 / 0.2 / 0.45 µm
Lengths	5 / 10 / 20 / 30 in
Filtration area	1.00 m² / 10 in
End connections	DOE / 222 fin / 226 fin / 222 flat

FEATURES

- PTFE / nylon membrane configurations
- Multiple lengths and end connections

APPLICATIONS

- Final photoresist filtration
- Photolithography process liquids

SELECTION NOTES

- The body states an HDPE frame, while the materials table lists PVDF cage / core / end caps. Structural materials remain subject to selection confirmation; neither is treated as a confirmed configuration.
- The nylon 1.2 entry lacks a unit and the seal description is ambiguous, so neither is listed as a clear specification. Confirm assembly temperature and pressure limits for the final material configuration.

Technical source: supplied product manual, physical PDF pages 78.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

HCPA

HCPA PFA filter housing

Facility chemical-filter housing series with PFA body and cover listed in the materials table, for selection against the actual process fluid.

TECHNICAL SPECIFICATIONS

Body	PFA
Cover	PFA
Cover nut	PVDF
Socket nut	PFA
O-ring	FFKM
Inlet / outlet	3/4 in
Drain connection	1/2 in

FEATURES

- PFA body and cover
- Dedicated vent and drain connections

APPLICATIONS

- Facility chemical-filtration points

SELECTION NOTES

- High-temperature strong-acid claims conflict with NR entries in the source compatibility table. Confirm chemicals, concentration, temperature and the complete wetted-material list during selection.
- The pressure table contains the text 0.3bMpa and the 2-1/2 in vent entry also requires checking; neither is presented as a confirmed dimension or assembly rating.

Technical source: supplied product manual, physical PDF pages 79.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

PFSA2

PFSA2 graded PP cartridges

Multilayer nanofiber filtration structure for particle control in display processes.

TECHNICAL SPECIFICATIONS

Filter medium	PP
Cage / core / end caps	PP
Lengths	5 / 10 / 20 / 30 in
Pore-size options	0.5 / 1 / 1.5 / 2 / 10 / 20 / 40 / 70 / 90 µm
Maximum operating temperature	80 °C
Maximum differential pressure	4 bar @ 20 °C; 2.4 bar @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat

FEATURES

- Multilayer graded PP structure
- No adhesive or surfactant

APPLICATIONS

- Display-process liquids
- Liquids with high suspended-particle loads
- Colloidal and viscous liquids

Technical source: supplied product manual, physical PDF pages 80.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

EAPS

EAPS PES process-water cartridges

Asymmetric hydrophilic PES membrane for water filtration in display and electronics processes.

TECHNICAL SPECIFICATIONS

Membrane	PES
Outer / inner diameter	69 / 33 mm
Lengths	5 / 10 / 20 / 30 in
Pore-size options	0.05 / 0.1 / 0.2 / 0.45 / 0.65 / 0.8 µm
Filtration area	≥ 0.32 m² / 5 in; ≥ 0.65 m² / 10 in
Cage / end caps / drainage	PP
Core options	PP / 316L
Maximum forward differential pressure	5.2 bar @ 25 °C; 1.9 bar @ 82 °C
Maximum reverse differential pressure	2.1 bar @ 25 °C

FEATURES

- Asymmetric hydrophilic PES membrane
- Thermally welded without adhesives

APPLICATIONS

- Electronics process water
- Ultrapure-water filtration points
- Confirmed mild-acid and mild-alkali solutions

SELECTION NOTES

- The ambiguous 0120=0.12 µm entry in the source ordering table is not included.

Technical source: supplied product manual, physical PDF pages 81.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

PRNA

PRNA PP cartridges for photoresist

Multilayer PP nanofiber structure for particle and colloid filtration in display photoresist processes.

TECHNICAL SPECIFICATIONS

Filter medium	PP
Cage / core / end caps	PP
Filter-layer structure	Five fine nanofiber membrane layers
Maximum operating temperature	80 °C
Maximum differential pressure	4 bar @ 20 °C; 2.4 bar @ 80 °C

FEATURES

- Outside-to-inside graded filtration structure
- No added adhesive or surfactant

APPLICATIONS

- Display photoresist filtration
- Colloid and deformable-particle control

SELECTION NOTES

- The heading and body identify PRNA, but the ordering table labels the model PFSA2. Pore size, connections, length and seal combinations have not been transcribed from that table and require a controlled PRNA ordering specification.

Technical source: supplied product manual, physical PDF pages 82.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

PSSF

PSSF pleated stainless-steel mesh / felt cartridges

Pleated stainless-steel mesh or metal-fiber felt with multiple diameters, lengths and connections.

TECHNICAL SPECIFICATIONS

Main filter layer	Stainless-steel mesh or felt
Support mesh	40-mesh 304 / 316L
End caps / connections	304 / 316L
Diameter options	25 / 30 / 50 / 65 / 70 mm
Lengths	5 / 10 / 20 / 30 / 40 in
Filtration-rating options	1 / 3 / 5 / 7 / 10 / 25 / 40 / 60 / 90 µm
End connections	DOE / 222 fin / 226 fin / 222 flat / threaded

FEATURES

- 304 / 316L structural components
- Single- or double-open-end options
- Backwashable, with cleaning methods selected for the fluid

APPLICATIONS

- Display-process liquid filtration
- Filtration points requiring backwashing
- Filtration requiring structural strength

SELECTION NOTES

- The source gives inconsistent 480 °C and -200-600 °C statements; no assembly temperature range is presented as confirmed.

Technical source: supplied product manual, physical PDF pages 83.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

130

130 high-flow wet-process cartridges

Large-area 10-inch series for display-panel wet processes, with PP, PES or PTFE filtration media.

TECHNICAL SPECIFICATIONS

Filter medium	PP / PES / PTFE
Length	10 in
Filtration area	$\geq 2 \text{ m}^2$
PTFE pore-size options	0.2 / 0.5 / 1 / 3 / 5 / 10 μm
PES pore-size options	0.05 / 0.1 / 0.2 / 0.45 / 0.65 / 1.2 μm
PP pore-size options	0.5 / 1 / 1.5 / 3 / 5 / 10 / 20 / 40 μm
Maximum operating temperature	80 °C
Maximum differential pressure	4 bar @ 20 °C; 2.4 bar @ 80 °C

FEATURES

- Multiple media configurations
- PP cage, core and end caps

APPLICATIONS

- Display-panel wet processing
- High-flow process points

SELECTION NOTES

- Size the flow against pore size, fluid and pressure drop; the undefined standard-condition flow is not used as a guaranteed value.

Technical source: supplied product manual, physical PDF pages 84.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

ELPF / ELPFH

ELPF / ELPFH precision PTFE cartridges

PTFE membrane with PP structural components, offered in hydrophobic and hydrophilic versions for different process liquids.

TECHNICAL SPECIFICATIONS

Filter medium	ELPF: hydrophobic PTFE; ELPFH: hydrophilic PTFE
Cage / core / end caps	PP
Lengths	5 / 10 / 20 / 30 / 40 in
Pore-size options	0.02 / 0.05 / 0.1 / 0.2 / 0.5 / 1 / 3 / 5 / 10 µm
Maximum operating temperature	80 °C
Maximum differential pressure	4 bar @ 20 °C; 2.4 bar @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat

FEATURES

- Hydrophobic and hydrophilic versions
- Hydrophilic version for direct filtration of aqueous liquids

APPLICATIONS

- Display wet processing
- Etchants and stripping fluids
- Aqueous process liquids

SELECTION NOTES

- Confirm chemical compatibility of the complete wetted path against concentration, temperature and seal configuration.

Technical source: supplied product manual, physical PDF pages 85.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

HF150P

HF150P high-flow PTFE cartridges

A 152 mm diameter PTFE filtration series for display wet processes, with inside-to-outside flow.

TECHNICAL SPECIFICATIONS

Membrane	PTFE
Outer diameter	152 mm
Explicitly listed lengths	20 / 40 in
Filtration-area entry	6 m ² / 20 in
Maximum operating temperature	82 °C
Maximum differential pressure	3.5 bar @ 21 °C (inside-to-outside)

FEATURES

- Inside-to-outside flow
- Pleated filtration structure

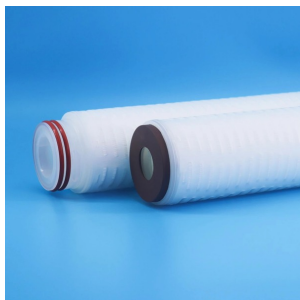
APPLICATIONS

- Display wet processing
- Etchants and stripping fluids subject to compatibility confirmation

SELECTION NOTES

- The body also mentions 60-inch flow and three lengths, while the length table lists only 20 / 40 inches. Neither a 60-inch configuration nor flow under undefined conditions is presented as a specification.
- The coreless description differs from the PP-core materials entry. Confirm core structure, pore-size codes, connections and seals during selection.

Technical source: supplied product manual, physical PDF pages 86.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

CLPF / CLPFH

CLPF / CLPFH precision PTFE cartridges

PTFE membrane with PP structural components, offered in hydrophobic and hydrophilic versions for different process liquids.

TECHNICAL SPECIFICATIONS

Filter medium	CLPF: hydrophobic PTFE; CLPFH: hydrophilic PTFE
Cage / core / end caps	PP
Lengths	5 / 10 / 20 / 30 / 40 in
Pore-size options	0.02 / 0.05 / 0.1 / 0.2 / 0.5 / 1 / 3 / 5 / 10 µm
Maximum operating temperature	80 °C
Maximum differential pressure	4 bar @ 20 °C; 2.4 bar @ 80 °C
End connections	DOE / 222 fin / 226 fin / 222 flat

FEATURES

- Hydrophobic and hydrophilic versions
- Hydrophilic version for direct filtration of aqueous liquids

APPLICATIONS

- Electronic chemicals
- Organic solvents
- Etchants and stripping fluids

SELECTION NOTES

- Confirm chemical compatibility of the complete wetted path against concentration, temperature and seal configuration.

Technical source: supplied product manual, physical PDF pages 87.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

AET / AETI

AET / AETI PTFE chemical-filter cartridges

Electronic-chemical filtration series with a hydrophilic PTFE membrane configuration in AETI.

TECHNICAL SPECIFICATIONS

AET membrane	PTFE
AETI membrane	Hydrophilic PTFE
Pore-size options	0.02 / 0.05 / 0.1 / 0.2 / 0.5 / 1 / 3 / 5 / 10 µm
Lengths	10 / 20 / 30 / 40 in
End connections	DOE / 222 fin / 226 fin / 222 flat / 226 flat

FEATURES

- PTFE membrane series
- Hydrophilic membrane configuration available

APPLICATIONS

- Electronic-chemical filtration
- Aqueous chemical fluids (AETI)

SELECTION NOTES

- The fully fluorinated construction description differs from the PVDF cage / core / end-cap entry, and the membrane table retains ELPF / ELPFH labels. No fully fluorinated assembly claim or confirmed structural material is inferred.
- Confirm structural materials, wetted path and assembly temperature / pressure limits for the final model.

Technical source: supplied product manual, physical PDF pages 88.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

PFA / PFAI

PFA / PFAI PTFE membrane cartridges

Chemical-filtration series combining PTFE membrane and PFA structural components, with hydrophilic PTFE in PFAI.

TECHNICAL SPECIFICATIONS

PFA-series membrane	PTFE
PFAI-series membrane	Hydrophilic PTFE
Cage / core / end caps	PFA
Pore-size options	0.05 / 0.1 / 0.2 / 0.45 / 1 µm
Lengths	10 / 20 / 30 / 40 in
Maximum differential pressure at 21 °C	4.2 bar
Recommended replacement pressure drop at 21 °C	2.4 bar

FEATURES

- PTFE membrane with PFA structural components
- Hydrophilic membrane version available

APPLICATIONS

- Chemical process liquids
- Semiconductor chemical filtration

SELECTION NOTES

- The maximum-temperature field instead contains 1.2 bar @190 °C, and the membrane table retains ELPF / ELPFH labels. The 190 °C value is not treated as a standalone temperature rating; confirm the complete assembly derating curve.
- Confirm chemical compatibility for the actual fluid, concentration, temperature and seal configuration; no near-universal compatibility claim is made.

Technical source: supplied product manual, physical PDF pages 89.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

CEPP

CEPP PP cartridges for electronic chemicals

PP nanofiber filtration series for particle control in electronic chemicals and process water.

TECHNICAL SPECIFICATIONS

Filter medium	PP
Cage / core / end caps	PP
Filter-layer type	Nanofiber
Maximum operating temperature	80 °C
Maximum differential pressure	4 bar @ 20 °C; 2.4 bar @ 80 °C

FEATURES

- Thermally welded construction
- No added adhesive

APPLICATIONS

- Electronic chemicals
- Process water
- Solvents subject to compatibility confirmation

SELECTION NOTES

- The ordering table identifies CMPP, and 2500=250 µm conflicts with the stated 0.1-25 µm range. Its pore sizes, lengths, connections and seals are not treated as confirmed CEPP specifications.
- Confirm model options and ionic-extractables data during selection.

Technical source: supplied product manual, physical PDF pages 90.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

HDLPF / HDAPS

HDLPF / HDAPS filtration series for disk-drive processes

The source presents an asymmetric PES membrane series for disk-drive processes; model names in the heading and body require reconciliation.

TECHNICAL SPECIFICATIONS

Filter membrane	Asymmetric PES
End caps / core / cage	PP
Filtration-area entry	0.64 m ² / Ø68 mm, 10 in
Maximum operating temperature	90 °C
Maximum differential pressure	4 bar @ 21 °C; 2.4 bar @ 90 °C
Cleaning-solution entry	2% NaOH, ≤65 °C

FEATURES

- Asymmetric PES membrane structure
- PP structural components

APPLICATIONS

- Disk-drive process filtration

SELECTION NOTES

- The heading uses HDLPF, the body and ordering table use HDAPS, and HDSPS is also mentioned. The names are retained side by side without assuming interchangeable ordering identities.
- Confirm model mapping, pore size, length, integrity-test wetting conditions and sterilization procedure during selection. Comparative claims such as 3-5 times longer life are not adopted.

Technical source: supplied product manual, physical PDF pages 91.
Confirm the supplied configuration against the current controlled model documents.

No separate product photograph

K (60 mm)

K-series 60 mm capsule platform

The 60 mm housing-diameter option in the K capsule series; confirm the specific membrane, length and connection combination during selection.

TECHNICAL SPECIFICATIONS

Series code	K
Housing-diameter option	60 mm

FEATURES

- K-series capsule format
- 60 mm housing option

APPLICATIONS

- Sample and process-liquid filtration

SELECTION NOTES

- Page 97 explicitly lists format K and housing option 60=60 mm, but provides no separate K60 product image or area configuration. This entry does not assume that every combination in the general ordering table applies to the 60 mm option.
- Confirm filtration area, length, membrane / pore-size combination, connections and model-specific temperature / pressure conditions during selection.

Technical source: supplied product manual, physical PDF pages 94, 97.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

K68

K68 capsule filters

Integrated capsule platform configured for process volume, membrane and connections.

TECHNICAL SPECIFICATIONS

Housing diameter	68 mm
Lengths	2 / 4 in
Filtration area	2 in: 1200 cm ² ; 4 in: 2400 cm ²
Housing / drainage / structural components	PP
Maximum operating temperature	60 °C
Maximum operating pressure	0.55 MPa @ 38 °C
Autoclave sterilization	121 °C / 30 min / 3 cycles; no steam-in-place
Sanitary clamp connections	T2 / 25TC; T5 / 50TC

FEATURES

- Integrated PP housing
- PES / PP / PTFE and other membrane options

APPLICATIONS

- Aqueous samples and process liquids
- Culture media and pharmaceutical liquids
- Solvents subject to compatibility confirmation

SELECTION NOTES

- Confirm membrane, pore-size combination and sterilization compatibility for the final model; gas and liquid ratings are not interchangeable.

Technical source: supplied product manual, physical PDF pages 94, 95, 96, 97.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

K85

K85 capsule filters

Integrated capsule platform configured for process volume, membrane and connections.

TECHNICAL SPECIFICATIONS

Housing diameter	85 mm
Lengths	5 / 10 / 20 / 30 in
Filtration area	5 in: 0.32 m ² ; 10 in: 0.65 m ² ; 20 in: 1.3 m ² ; 30 in: 1.95 m ²
Housing / drainage / structural components	PP
Maximum operating temperature	60 °C
Maximum operating pressure	0.55 MPa @ 38 °C
Autoclave sterilization	121 °C / 30 min / 3 cycles; no steam-in-place
Sanitary clamp connections	T5 / 50TC

FEATURES

- Integrated PP housing
- PES / PP / PTFE and other membrane options

APPLICATIONS

- Aqueous samples and process liquids
- Culture media and pharmaceutical liquids
- Solvents subject to compatibility confirmation

SELECTION NOTES

- Confirm membrane, pore-size combination and sterilization compatibility for the final model; gas and liquid ratings are not interchangeable.

Technical source: supplied product manual, physical PDF pages 94, 96, 97.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

GLY

GLY stainless-steel filter housings

Single-cartridge housing for lower-flow process liquids, with horizontal ports and a clamp closure.

TECHNICAL SPECIFICATIONS

Housing material	304 / 316L
Cartridge lengths	5 / 10 / 20 / 30 in
Cartridge count	Single cartridge
Maximum operating pressure	0.6 MPa
Maximum operating temperature	150 °C
Internal surface roughness	Ra < 0.4 µm
External surface roughness	Ra < 0.8 µm
Vent / drain connection	1/4 in hose connection
Seal options	Silicone / EPDM / FKM
Cartridge end connection	DOE / 222 / 226

FEATURES

- 304 / 316L housing options
- Dedicated vent and drain ports

APPLICATIONS

- Pharmaceutical processing
- Food and beverage processing
- Process-liquid filtration

SELECTION NOTES

- Maximum temperature and pressure are not assumed to apply simultaneously; confirm the housing, cartridge and seal assembly rating.

Technical source: supplied product manual, physical PDF pages 99.

Confirm the supplied configuration against the current controlled model documents.



GLD

GLD stainless-steel filter housings

Multicartridge sanitary-design housing configurable by cartridge count and length.

Series image from supplied manual

TECHNICAL SPECIFICATIONS

Housing material	304 / 316L
Cartridge lengths	10 / 20 / 30 / 40 in
Cartridge count	3 / 5 / 7 / 9 / 12 / 15 cartridges
Maximum operating pressure	0.6 MPa
Maximum operating temperature	150 °C
Internal surface roughness	Ra < 0.4 µm
External surface roughness	Ra < 0.8 µm
Vent / drain connection	1/4 in hose connection
Seal options	Silicone / EPDM / FKM
Cartridge end connection	DOE / 222 / 226

FEATURES

- 304 / 316L housing options
- Dedicated vent and drain ports

APPLICATIONS

- Pharmaceutical processing
- Food and beverage processing
- Process-liquid filtration

SELECTION NOTES

- Maximum temperature and pressure are not assumed to apply simultaneously; confirm the housing, cartridge and seal assembly rating.

Technical source: supplied product manual, physical PDF pages 100.
Confirm the supplied configuration against the current controlled model documents.



GLG

GLG stainless-steel filter housings

Compact in-line housing with top inlet and bottom outlet for gas or liquid filtration points.

Series image from supplied manual

TECHNICAL SPECIFICATIONS

Housing material	304 / 316L
Cartridge lengths	5 / 10 / 20 / 30 in
Cartridge count	Single cartridge
Maximum operating pressure	0.6 MPa
Maximum operating temperature	150 °C
Internal surface roughness	Ra < 0.4 µm
External surface roughness	Ra < 0.8 µm
Vent / drain connection	1/4 in hose connection
Seal options	Silicone / EPDM / FKM
Cartridge end connection	DOE / 222 / 226

FEATURES

- 304 / 316L housing options
- Dedicated vent and drain ports

APPLICATIONS

- Pharmaceutical processing
- Food and beverage processing
- Gas and liquid piping

SELECTION NOTES

- Maximum temperature and pressure are not assumed to apply simultaneously; confirm the housing, cartridge and seal assembly rating.

Technical source: supplied product manual, physical PDF pages 101.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

HFL

HFL high-flow cartridges

Large-diameter, long-format filtration platform for process water and bulk fluid treatment.

TECHNICAL SPECIFICATIONS

Filter medium	PP; HFL S glass-fiber version available
Outer diameter	152 mm
Lengths	20 / 40 / 60 in
PP filtration-rating options	0.5 / 1 / 5 / 10 / 20 / 40 / 70 / 100 µm
Structural components	PP
Maximum operating temperature	80 °C
Maximum differential pressure	2.4 bar @ 20 °C
Recommended replacement pressure drop	2.2 bar @ 20 °C
Seal options	EPDM / FKM

FEATURES

- Inside-to-outside flow with a single open end
- Handling feature for cartridge replacement

APPLICATIONS

- Bulk fluid filtration
- Process and packaged water
- Beer trap filtration

SELECTION NOTES

- Determine flow using the fluid, pore size, cartridge length and allowable pressure drop.

Technical source: supplied product manual, physical PDF pages 103, 104.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

HFM

HFM high-flow cartridges

Large-diameter, long-format filtration platform for process water and bulk fluid treatment.

TECHNICAL SPECIFICATIONS

Filter medium	PP
Outer diameter	165 mm
Lengths	20 / 40 / 60 in
PP filtration-rating options	0.5 / 1 / 5 / 10 / 20 / 40 / 70 / 100 µm
Structural components	PP
Maximum operating temperature	80 °C
Maximum differential pressure	2.4 bar @ 20 °C
Recommended replacement pressure drop	2.2 bar @ 20 °C
Seal options	EPDM / FKM

FEATURES

- Outside-to-inside flow with a PP support core
- Handling feature for cartridge replacement

APPLICATIONS

- RO / UF pretreatment
- Process and packaged water
- Beverage-liquid filtration

SELECTION NOTES

- Determine flow using the fluid, pore size, cartridge length and allowable pressure drop.

Technical source: supplied product manual, physical PDF pages 105.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

HFK

HFK high-flow cartridges

Large-diameter, long-format filtration platform for process water and bulk fluid treatment.

TECHNICAL SPECIFICATIONS

Filter medium	PP
Outer diameter	152 mm
Lengths	20 / 40 / 60 in
PP filtration-rating options	0.5 / 1 / 5 / 10 / 20 / 40 / 70 / 100 µm
Structural components	PP
Maximum operating temperature	80 °C
Maximum differential pressure	2.4 bar @ 20 °C
Recommended replacement pressure drop	2.2 bar @ 20 °C
Seal options	EPDM / FKM

FEATURES

- Pleated PP medium with single- or double-seal options
- Multiple pore sizes and lengths

APPLICATIONS

- RO / UF pretreatment
- Process and packaged water
- Beverage-liquid filtration

SELECTION NOTES

- Determine flow using the fluid, pore size, cartridge length and allowable pressure drop.

Technical source: supplied product manual, physical PDF pages 106.

Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

RPL

RPL PP meltblown cartridges

Thermally bonded fine polypropylene fibers form a graded depth structure for process-liquid particle prefiltration.

TECHNICAL SPECIFICATIONS

Filter medium	PP
Outer diameter	63 mm
Inner diameter	28 / 30 mm
Lengths	10 / 20 / 30 / 40 in
Filtration-rating options	1 / 3 / 5 / 10 / 20 / 30 / 50 / 75 / 100 µm
Maximum operating temperature	50 °C
Maximum differential pressure	2.0 bar @ 21 °C
Core options	No core / reinforced PP / stainless steel

FEATURES

- No chemical adhesive
- Depth structure graded from coarse outside to fine inside

APPLICATIONS

- Prefiltration before reverse osmosis
- Industrial water
- Plating-solution and ink prefiltration

Technical source: supplied product manual, physical PDF pages 107.
Confirm the supplied configuration against the current controlled model documents.



Series image from supplied manual

RPL

RPL wound depth cartridges

Yarn wound around a support core forms a depth structure, with PP, cotton or glass-fiber media selected for the fluid.

TECHNICAL SPECIFICATIONS

Media options	PP yarn / absorbent cotton / glass fiber
Core materials	PP / 304 / 316
Outer diameter	60 / 63 / 115 mm
Inner diameter	28 / 30 mm
Lengths	5 / 9.75 / 10 / 20 / 30 / 40 / 60 / 70 in
Filtration-rating options	1 / 3 / 5 / 10 / 20 / 30 / 50 / 75 / 100 µm
Media temperature entries	PP ≤ 60 °C; cotton ≤ 120 °C; glass fiber ≤ 200 °C

FEATURES

- Multiple media and core combinations
- Graded pore depth structure

APPLICATIONS

- Domestic and industrial water
- Chemical process solutions
- Oils and plating solutions

SELECTION NOTES

- Media temperature entries are not an assembly rating for every core and seal combination.

Technical source: supplied product manual, physical PDF pages 108.

Confirm the supplied configuration against the current controlled model documents.