

Pharmaceuticals & Biologicals



High-Value Filtration Systems

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Assurance of your product quality and purity must be consistent for every batch produced. Through our filtration platform we are able ensure cost effective solutions to support your critical processes and so enable you to bring your product to market. These platforms integrate proven services and technologies for the development and manufacture of pharmaceutical and biopharmaceutical products.

Masterfilter offers proven, reliable and high-quality membrane filter solutions. In close cooperation with our customers, we continuously strive to offer solutions to achieve the highest possible productivity and effectiveness in the pharmaceutical and biopharmaceutical industry.

MC – MasterCap

- Single-use filtration systems, save cleaning time and validation cost
- Available in 5", 10", 20" and 30" lengths
- T-style and inline versions available
- High throughput & 100 % integrity tested
- Sterilisable in autoclave
- Obtainable in DPES, PES, PVD, SLF, APK, NYPC, LGFK, etc. filtermedia



Applications

- Sterile filtration of injectables
- Biological products
- Sterile air and gas sterile filtration

DF – Disc filter

- Removal of particles and micro-organisms for liquids and gases
- Minimal hold-up volume
- Partical shedding
- Autoclavable



Applications

- Small volume filtration
- Medical products

MS – Sterile Gas SIP PTFE filter

- In situ integrity testable by WIT
- Low investment cost compared to a standard filter and stainless-steel housing system
- Steam sterilisable with long service life
- Able to operate at high gas pressures up to 6.9 bar



Applications

- Fermenter venting
- Venting
- Sterile air supply
- Fermentation

PF – Pharmaceutical Filter Housings

- Manufactured in accordance with European regulations
- Supplied with a wide range of connections
- Mechanically / electro polishing
- Surface finish Ra < 0,4 µm
- Sanitary / industrial



Applications

- Liquid filtration
- Gas filtration
- Vent filtration



SLF-T – Sterile PTFE Membrane Gas filter



- Permanently hydrophobic PTFE membrane
- Suitable for all integrity test procedures, incl. WIT test
- Pleated surface for high flow rate and long life
- Stringent in-line steam sterilisations (up to 150 cycles at 121 °C)
- Absolute rated filter

Applications

- Sterile gas filtration
- Venting
- Bioprocessing

NYPC – Dual Layer Hydrophilic Nylon Membrane filter



- Intrinsically water wettable
- Nylon 66+ enhanced filtration efficiency
- Nylon 66+ removal of endotoxins
- Low pressure drop and high flow rate
- Longer service life
- Integrity test values ensure a fully reliable filtration efficiency
- Double layer

Applications

- Injectable solutions
- LVP
- Biologic origin products
- Pharma grade water (PW & UPW)
- Antibiotics

PVD – Hydrophilic Polyvinylidene Fluoride Membrane



- Ultra low protein binding
- Low extractables
- Broad chemical compatibility
- Each element is integrity tested individually

Applications

- Ophthalmics
- Biological origin solutions
- Cold and hot WFI
- Blood proteins
- API
- Antibiotics

DPES – Hydrophilic Double Layer PES Membrane



- Excellent reliability of sterilisation
- Asymmetric pre-filter layer for longer life
- PH 1 -14
- Allows multiple autoclave cycles (up to 50 cycles)
- Each element is integrity tested individually

Applications

- Herbal injection
- Sterile API
- Vaccine
- Blood derivatives
- Ophthalmics
- Injectable solutions (LVP/ SVP)

APKM – Absolute Multi-layered PP filter



- High contaminant holding capacity
- Graded pore-size (5 to 7 PP layers) provides excellent flow rate and long service life
- Absolute rating from 0.2 to 70 microns
- Efficiency: 99.98%
- Low pressure drop
- 100 % PP offers compatibility with most chemicals, solvents, caustic and acids

Applications

- Fermentation
- API
- Fine chemicals

APK – Multi-layer Pleated Polypropylene filter



- Multiple layers melt-blown Polypropylene
- Pleated surface
- Superior flowrate
- Extended service life
- Absolute-rated filtration efficiency
- All polypropylene construction

Applications

- Blood proteins
- API
- Cell culture
- Ophthalmics
- Pharmaceutical water treatment



PFA – All – Polyfluorene filter



- All-fluoropolymer material of construction
- Superior resistance during chemical processing
- High temperature and pressure resistance
- High flowrate – low differential pressure
- Low extractables
- WIT in-line testable

Applications

- Outstanding resistance to solvents
- Outstanding resistance to oxidative products (e.g. ozone)
- High temperature liquids (> 100 °C)
- High temperature gases
- All kind of aggressive bases and solvents

SLF-HT – High Temperature Sterile PTFE Membrane Gas filter



- Permanently hydrophobic PTFE membrane
- Suitable for all integrity test procedures, incl. WIT test
- No alcohol required for pre-wetting
- Stringent in-line steam sterilisations (up to 100 cycles at 142 °C)
- Long service life at high temperature - 12 months at 100 °C

Applications

- Fermentation inlet air
- Aseptic package / blow – fill – seal
- Hot water for injection (WFI) tank vents
- Oxygen-enriched fermented air

LGFK – Micro Glas Fiber filter



- Absolute retention rate
- Long service life
- No adhesives or binders
- Low level of extractables
- Endotoxin level < 0.25 EU/ml
- All components meet USP for Class VI plastics at 121 °C

Applications

- Typical growth media
- Blood proteins
- Serum
- Orals
- Liquids containing gel

SLF-L – Hydrophobic PTFE Membrane



- Inherently hydrophobic PTFE
- Broad chemical compatibility
- High tolerance of aggressive acids and bases
- High flow rates
- Low extractables
- 100 % Integrity Test

Applications

- Organic-based antibiotic liquids
- API
- Solvents

HPK – High Flow Nominal Rated Pleated PP filter



- All polypropylene construction
- Broad chemical compatibilities
- Pleated surface provides superior flow rate and extended service life
- Available in nominal ratings from 0.1 to 50 microns for a range of precise size removal
- Pleated surface provides excellent flow rates

Applications

- Water purification
- Chemicals
- Pharmaceuticals
- Clarify filtration

PESE – Single Layer PES filter



- High dirt holding capacity
- Excellent flow rates and longer service life
- Low adsorption

Applications

- Bio-burden reduction
- Pre-filtration



Masterfilter was founded in 2012 to provide microfiltration solutions for the Food and Beverage, Pharmaceutical, Water, Chemicals and Digital Inks and Inks sectors globally. We offer a broad range of products used to filter contamination from liquids and gases. Our engineers have extensive expertise and experience in filtration, enabling us to continuously innovate and offer better products and solutions to the market.

From its origin, our foundation and ethos is based on a 'customer centric' approach. We strive to remove complexity in our operation and ensure that we are 'easy to work with' and approachable at all levels.

Accredited with ISO 9001, our mission is to be a trusted supplier of choice, through our technical expertise and high quality products.

The philosophy of Masterfilter

- Experienced team
- Customer oriented
- Market oriented
- Independent and flexible
- Always the best possible solution

High-Value Filtration Systems

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