



TFF FLUID PATHS · SECOND-SOURCE DISPOSABLES

Filtration Assemblies

Custom single-use filtration sets—clarification through sterile — designed, documented, and assembled to your process

Every filtration set is engineered around your fluid path — your filters, your tubing, your connections, your documentation. We draw it, you approve it, and we build it in an ISO Class 7 cleanroom — so what ships is exactly what you signed off.



APPLICATIONS

Clarification

Depth-filter and prefilter assemblies for particulate reduction, harvest clarification, and debris removal — with venting, sampling, and optional downstream membrane filtration.

Bioburden Reduction

Membrane assemblies that reduce microbial load and fine particles ahead of intermediate holds or final filtration — for inline use across vessels, skids, and transfers.

Sterile Filtration

Sterilizing-grade assemblies for buffers, media, and process fluids —single or redundant filters, integrity- test ports, and outlets to bags, bottles, vessels, or filling lines.

FILTERS & MEMBRANES

- Sterilizing-grade PES(Sartorius) and PVDF (Meissner) capsules at 0.2 μm
- Polypropylene prefilters and depth-filter media for clarification
- Hydrophobic vent and barrier filters for tanks and headspace
- Prefilter and bioburden-reduction ratings matched to your load

ASSEMBLY CONFIGURATIONS

- Single or redundant sterilizing filtration
- Prefilter-to-final-filter trains sized to your stream
- Inline sampling, venting, and pressure-monitoring ports
- Pre/post-use integrity-test provisions

CONNECTIONS & INTEGRATION

- Aseptic connectors and sanitary (tri-clamp) fittings
- Tubing selected, sized, and routed to your specification
- Inlets and outlets to bags, bottles, vessels, skids, and filling lines
- Drop-in integration with existing single-use trains

FORMATS & BUILD

- Configured for development, scale-up, and GMP
- Capsule formats spanning bench to process scale
- Gamma-irradiated assemblies (ISO 11137) when specified
- Assembled and packaged in an ISO Class 7 cleanroom