LFX Series

LFX™ Series – Liquid Filtration Excellence Engineered for Results

LFX-SS™ – Stainless Steel Mesh Filter Bags Product Highlights

FiltraCore Asia's **LFX-SS™ Stainless Steel Mesh Filter Bags** deliver durable, high-flow liquid filtration in environments where polymer bags can fail under heat, aggressive chemistry, or mechanical stress. Constructed from **304 or 316 stainless-steel woven mesh**, they provide excellent mechanical strength and thermal stability with broad chemical resistance **when correctly matched to the fluid chemistry** (e.g., **316/316L preferred in chloride-bearing streams to mitigate pitting/crevice corrosion and stress-corrosion cracking**).

Available in **nominal micron ratings from 5 µm to 2,000 µm**, LFX-SS™ bags offer precise surface filtration, **low differential pressure at coarse-to-mid grades**, and **zero fibre shedding**. Their washable, reusable design supports **backflushing, validated ultrasonic cleaning, or compatible chemical CIP/soaks**, extending service life and reducing total cost of ownership **(avoid chloride-rich oxidisers on 304/316; confirm cleaner compatibility with the alloy)**.

Engineered in **standard trade sizes (#01–#04)** with multiple collar/ring options, LFX-SS™ integrates with industry-standard housings and can be specified as alternatives based on size and sealing interface to stainless-mesh bags from leading suppliers, including **Eaton® (including legacy GAF® systems), Parker Hannifin®, Filtration Group®/FSI®, Rosedale®**, and **Shelco®**. This ensures fit and seal integrity **when the trade size, collar/ring style, and gasket materials are correctly matched**.

Durable. Reusable. Built for Demanding Applications.

Applications - LFX-SS™ – Stainless Steel Mesh Filter Bags

- **Automotive & Engine Applications** – Hot-oil straining, coolant or solvent recovery
- **Cement & Asphalt** – High-load slurry screening and additive handling
- **Electronics & Semiconductor** – High-purity fluid straining and chemical bath recirculation *(chloride-controlled systems)*
- **Food & Beverage** – Large-particle retention in oils, syrups, and process liquids *(where 304/316 stainless is food-contact compliant and cleaning agents are non-chloride)*
- **Industrial Manufacturing** – Resin and polymer straining, viscous-liquid filtration
- **Marine** – Reusable bag for bilge water, washdown, or oil-recovery systems
- **Metalworking & Surface Treatment** – Chip, scale, and sludge removal from oils and rinse tanks
- **Mining & Mineral Processing** – High-solids screening and oversize-particle retention
- **Plastics & Injection Moulding** – Melt filtration and pigment straining in high-temperature blends
- **Power Generation** – Condensate and boiler-fluid protection *(non-chloride service)*
- **Pulp & Paper** – Coarse fibre and particulate retention in loop water
- **Textiles & Dyeing** – Lint and particle control in dye houses
- **Water Treatment & Desalination** – Rugged pre-filtration and backwash systems, and other demanding industrial applications

OEM Compatibility & Replacement Cross-Reference

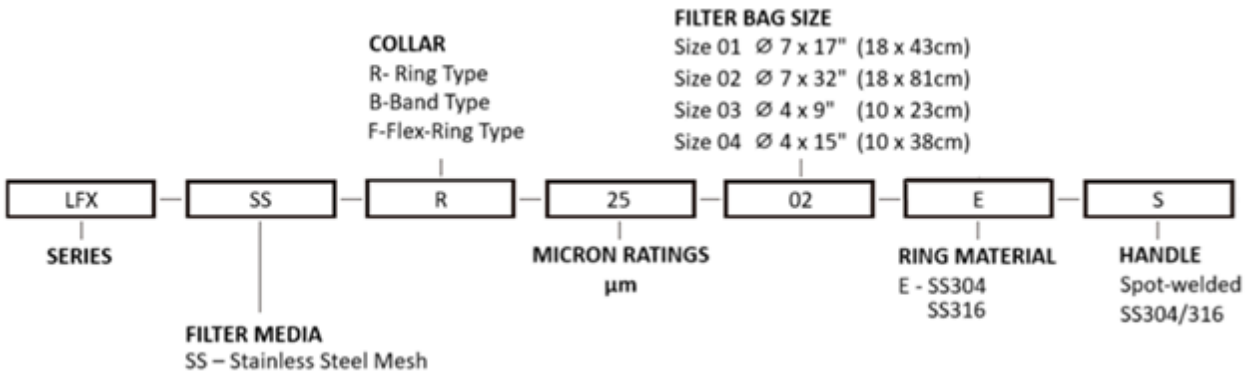
LFX-SS™ Stainless Steel Mesh Filter Bags are designed for standard trade sizes #01–#04 and can be specified as alternatives[1] to stainless-mesh bags from:

- **Eaton® (incl. legacy GAF®)** – stainless-steel wire-mesh filter bags
- **Parker Hannifin® – Fulflo®** stainless-steel mesh filter bags
- **Filtration Group® / FSI®** – stainless-steel wire-mesh bags (FSPN/FSI housings)
- **Rosedale®** – metal-mesh filter bags
- **Shelco®** – stainless-steel mesh filter bags
- **Pentair® (Pentek®)** – standard #01/#02 bag housings; use compatible stainless-mesh bags

Other compatible OEM systems upon request

Ordering Information - LFX-SS™ – Stainless Steel Mesh Filter Bags

- **Bag sizes (trade standard):**
  #01, #02, #03 and #04. Custom and extended-length versions available on request.
- **Alloy options:**
  304 stainless steel; 316/316L stainless steel for chloride-bearing or aggressive chemistries.
- **Micron ratings (surface-rated mesh):**
  5–2,000 µm standard (typical selections: 5, 10, 25, 50, 75, 100, 150, 200, 300, 500, 1,000, 2,000 µm).
- **Weave specification:**
  Plain weave (standard); Twill weave; Dutch/DW (for fine, high-strength or low-permeability service).
  Specify mesh count (wires per inch or per cm), wire diameter, and target open-area (%).
- **Construction:**
  Stainless-steel woven mesh body with stitched or spot-welded longitudinal seam as specified; edges bound for fray control. Assemblies are supplied passivated; electropolished finish available on request.
- **Top (sealing) options:**
  304/316 stainless-steel snap-ring (standard) with felt gasket; moulded collar/flange in polypropylene or polyester for moderate temperatures/chemistries; PTFE-coated stainless options on request. Select gasket/elastomer (EPDM, FKM, PTFE envelope) to suit service.
- **Bottom termination:**
  Flat stainless end (standard) or reinforced hem; other end configurations on request.
- **Identification & options:**
  Alloy/micron ID tags; pull handles; batch/lot traceability; custom labelling and packaging.
- **Compliance (variants):**
  Food-contact-compliant builds available (e.g., 304/316 stainless to relevant food-contact frameworks), subject to material/lot certification. Confirm gasket/elastomer compliance where required.
- **Service notes (ordering-critical):**
  Maximum temperature and chemical resistance are governed by the collar/gasket and housing, not the wire mesh alone. For chloride-bearing service, prefer 316/316L and verify cleaner/CIP compatibility. Mesh “micron” cut-points vary by wire diameter and open-area – select to the target cut-point and allowable ΔP, not label alone.



[1] *Compatibility basis: trade size, collar/ring style, restrainer-basket geometry, and gasket/elastomer selection. Mesh micron/open-area mappings vary by OEM (wire diameter, weave), so select by target cut-point and ΔP rather than nominal label alone. For chloride-bearing or aggressive chemistries, prefer 316/316L and verify cleaner/CIP compatibility.*

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