HFX Series

HFX™ Series – Housing Filtration Excellence Engineered for Performance

HFX-SS-BF-MB™ – Stainless Steel Multi Bag Housing Product Highlights

FiltraCore Asia's **HFX-SS-BF-MB™ – Stainless Steel Multi-Bag Housings** are engineered for **high-flow, large-volume** liquid filtration where **uptime and reliability** are critical. Constructed from **SS304/SS316L** with optional **Duplex 2205/2507** or **Titanium Grades 2 & 7** for extreme corrosion environments, these housings deliver **robust mechanical strength**, **broad chemical compatibility**, and **long service life** under demanding process conditions.

Designed to accommodate multiple standard **#02 filter bags** in **2, 3, 4, 6, 8, 12, or 24-bag configurations**, the HFX-SS-BF-MB™ **reduces change-out frequency and downtime** versus single-bag systems. Each housing features precision-machined bag seats, perforated stainless support baskets, and positive sealing to **minimise bypass** and ensure **consistent filtrate clarity**.

An **optimised side-entry inlet and bottom outlet** promote efficient distribution with **low pressure drop** across all installed bags. **Heavy-duty swing-bolt or eye-bolt closures** with **davit-arm or spring-assisted covers** enable safe, ergonomic, rapid access for change-outs. Optional **steam-jacketed** or **heat-traced** designs support viscous or temperature-sensitive fluids, while **sanitary finishes (≤0.6 Ra µm polish or electropolish)** suit food, beverage, and pharmaceutical duties. **Available with ASME Section VIII Div. 1 or PED 2014/68/EU conformity** (optional stamping/nameplate on specified models), the HFX-SS-BF-MB™ delivers **safety, reliability, and long-term operating efficiency** for mission-critical processes.

Strength in Scale. Reliability in Flow. Confidence in Every Batch.

Applications - HFX-SS-BF-MB™ – Stainless Steel Multi Bag Housing

HFX-SS-BF-MB™ Stainless Steel Multi-Bag Housings provide high-flow, large-volume liquid filtration where uptime, reliability, and throughput are essential. Typical applications include:

- **Bulk chemical processing:** solvents, acids, alkalis, resins, intermediates; select 316L or Duplex for chloride-bearing duties
- **High-volume water & wastewater treatment:** intake protection, polishing, RO pre-treatment, and side-stream filtration
- **Food & beverage:** syrups, edible oils, brewing, CIP streams, and process water; sanitary finishes and compliant gaskets when required
- **Pharmaceuticals & biotechnology:** utilities and non-sterile process liquids; CIP/SIP-capable sanitary variants when specified
- **Paints, inks, coatings & adhesives:** large-scale blending and circulation; optional steam-jacket or heat-trace for viscosity control
- **Power & marine:** cooling water, condensate, ballast/fuel polishing; Duplex recommended for brine or seawater service
- **Industrial manufacturing:** lines where downtime reduction and high throughput are operational priorities

OEM Compatibility & Replacement Cross-Reference

HFX-SS-BF-MB™ Stainless Steel Multi-Bag Housings are designed to accept industry-standard #02 bag formats and common sealing geometries used across many multi-bag systems. They may be used as replacements[1] or upgrades when dimensional, connection, hydraulic, and pressure/temperature requirements are verified for the specific installation. Compatible product families include:

- **Eaton®** – MAXILINE™ / PROLINE™ / FLOWLINE™ multi-bag housings
- **Parker Hannifin®** – Fulflo® EB Multi-Bag series
- **Rosedale®** – multi-bag housings
- **Shelco®** – BFS series multi-bag stainless housings
- **Amazon Filters®** – 88 series multi-bag vessels
- **Filtration Group®** – multi-bag housing systems

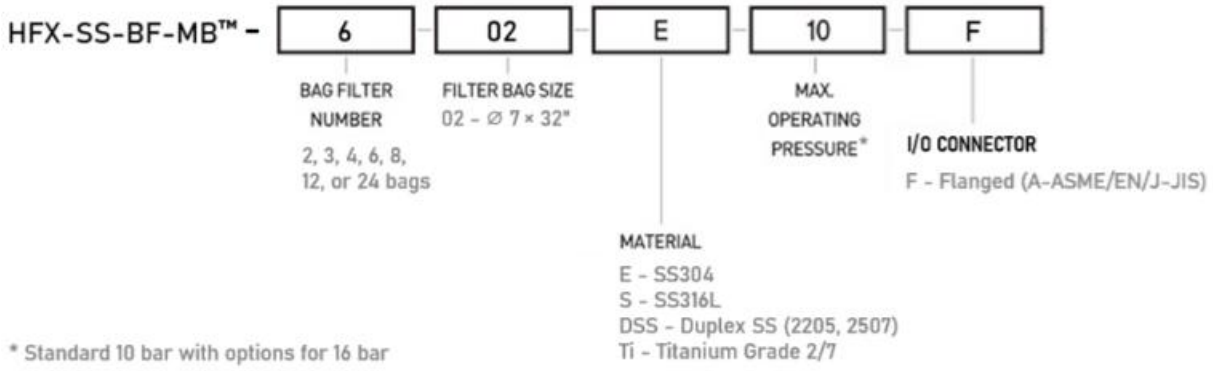
Other compatible OEM systems upon request

Key Features - HFX-SS-BF-MB™ – Stainless Steel Multi Bag Housing

- **Heavy-duty stainless-steel construction** – SS304/SS316L as standard; Duplex SS (2205/2507) or Titanium Grades 2 & 7 available on request for aggressive services, delivering corrosion resistance and durability.
- **Multi-bag architecture (2–24 bags)** – reduces change-out frequency, increases uptime, and lowers maintenance cost versus single-bag systems.
- **Side-entry inlet with bottom outlet** – optimised flow path to minimise pressure drop while distributing flow evenly across all installed bags.
- **Swing-bolt or eye-bolt cover with davit-arm assist** – enables safe, ergonomic, and rapid access for bag replacement.
- **Sanitary finish options** – polished/electropolished internal surfaces for food, beverage, and pharmaceutical duties.
- **High pressure and temperature capability** – suitable for demanding industrial processes within the housing's rated MAWP and temperature derating.
- **Low hold-up volume design** – reduces product loss, cleaning effort, and change-over downtime.
- **Conformity options** – ASME Section VIII Div. 1 or PED 2014/68/EU conformity available (hydrostatic testing per applicable code); removes any "guarantee" wording risk.
- **Industry-standard bag interface** – designed around #02 bag geometry to ease upgrades; verify port size/type and centres, nozzle class, footprint/height, closure/hold-down, basket geometry, and MAWP/temperature class before any drop-in retrofit.

Ordering Information - HFX-SS-BF-MB™ Stainless Steel Multi Bag Housing

- **Model:** HFX-SS-BF-MB™ Stainless Steel Multi-Bag Housing
- **Bag sizes:** Standard #02; other sizes (#01, #03, #04) available on request
- **Bag count:** 2, 3, 4, 6, 8, 12, or 24 bags per housing
- **Material of construction:** SS304 or SS316L (wetted and pressure-retaining parts); optional Duplex SS 2205/2507 or Titanium Grades 2 & 7 for aggressive services
- **Orientation:** Vertical (industry standard)
- **Inlet/outlet:** Side-entry inlet with bottom outlet; flanged connections per ASME B16.5 Class 150, EN 1092-1 PN16, or JIS B2220 10K; typical sizes DN50–DN350
- **Vent & drain ports:** ½″ BSPT (RC) female vent (NPT optional) for safe depressurisation; 1″ BSPT/NPT drain for complete liquid removal
- **Closure:** Swing-bolt or eye-bolt cover with davit arm (standard on multi-bag); spring-assisted hinged covers available on larger models
- **Seal options:** Buna-N, EPDM, Silicone, Viton® (FKM), PTFE, or PTFE-encapsulated elastomers
- **Surface finish:** Industrial bead-blast (standard); sanitary polish ≤0.6 µm Ra; electropolish ≤0.4 µm Ra optional for biotech/pharma service
- **Pressure rating:** 10 bar (145 psi) @ 20 °C standard; optional 16 bar (232 psi)
- **Accessories:** Differential-pressure ports, gauges, mounting skid, cleanroom packaging
- **Thermal options:** Steam-jacketed or heat-traced models available on request
- **Compliance:** Designed in accordance with ASME Section VIII Div. 1 or PED 2014/68/EU; code-stamped models available on request



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[1] Compatibility refers to bag size/diameter and typical ring/snap-fit sealing geometries only. Mechanical and hydraulic interchangeability is not guaranteed—before any retrofit, confirm port size/type and centres, nozzle class, mounting footprint/height, closure/hold-down, basket geometry, and MAWP/temperature class. FiltraCore Asia makes no claim of agency endorsement or full drop-in equivalence with the brands listed; final selection must be validated against the specific P&ID and datasheets.

All data, dimensions, and ratings are provided for general reference only. FiltraCore housings are designed and hydrotested in accordance with relevant industry standards; however, actual performance will vary with process conditions, media, and installation. Maximum operating pressure and temperature are subject to material selection, gasket/elastomer choice, and design code (ASME/PED, where applicable). Standard rating is 10 bar (145 psi) @ 20 °C, with a maximum operating temperature of 120 °C, or up to 150 °C with PTFE/silicone seals for SIP duty.

Chemical compatibility of housing materials, seals, and gaskets with the process fluid is the sole responsibility of the user; data provided are general guidelines derived from industry sources and laboratory testing, and actual performance may vary with concentration, temperature, and process variables.

Wetted parts in SS304/SS316L (optional Duplex SS 2205/2507 or Titanium Grade 2) provide broad resistance to aqueous solutions, hydrocarbons, and process chemicals not corrosive to stainless steel, while elastomer options (EPDM, Viton®, PTFE, PTFE-encapsulated) extend compatibility across most industrial and sanitary applications. For specific chemical resistance, consult the FiltraCore Chemical Resistance Guide or contact our technical team.

FiltraCore assumes no liability for improper use, chemical incompatibility, installation, or operation beyond published ratings. Specifications are subject to change without notice as part of continuous product improvement.

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