HFX Series

HFX™ Series – Housing Filtration Excellence Engineered for Performance

HFX-SS-BF-SB™ – Stainless Steel Single Bag Housing Product Highlights

FiltraCore Asia's **HFX-SS-BF-SB™ – Stainless Steel Single-Bag Housings** deliver robust, hygienic liquid filtration for chemical, industrial and sanitary process streams. Fabricated in **SS304 or SS316L** (with **Duplex 2205** for aggressive services and **super duplex on request**), the housing provides high mechanical integrity under elevated **pressure and temperature**, with performance defined by the selected **code rating, closure and gasket**.

The design accommodates **standard #01 and #02 filter bags** – covering micron ratings from **~1 to 1000 µm** in **felt/depth, mesh or pleated** media. A **perforated stainless-steel support basket** maintains bag alignment and seal compression. Configurations include **side-inlet (HFX-SS-BF-SB-BFS™)** and **top-inlet (HFX-SS-BF-SB-BFT™)** bodies, with closures offered as **quick-clamp, screw-cap, or swing/eye-bolt** for rapid access and safe re-seating.

For hygiene-critical service, housings are available with **sanitary polish (target ≤0.6 µm Ra)** or **electropolish (target ≤0.4 µm Ra)** to support validated **CIP/SIP** routines and food/pharma compliance when specified. **Steam-jacketed** or **heat-traced** options help stabilise viscosity and temperature in demanding duties. **Vent and drain ports, differential-pressure (DP) taps** and **low hold-up volume** support efficient operation, monitoring and maintenance.

Conformity options include **ASME Section VIII** or **PED 2014/68/EU** (model dependent), with **3-A sanitary** and **ATEX** variants **available when specified and documented**. Designed around **industry-standard #1/#2 bag interfaces**, the HFX-SS-BF-SB™ simplifies upgrades and replacements – **verify port centres, footprint and closure style** for drop-in retrofits. The result is a stainless-steel housing combining **engineered strength, hygienic surfaces and serviceability** for reliable single-bag filtration.

Strength in Steel. Reliability in Every Drop.

Applications - HFX-SS-BF-SB™ – Stainless Steel Single Bag Housing

HFX-SS-BF-SB™ Stainless Steel Single Bag Housings provide robust, hygienic liquid filtration where high mechanical strength, chemical resistance, and cleanable stainless construction are essential. Typical applications include:

- **Chemical processing:** filtration of acids, alkalis, solvents, resins, and intermediates; select 316L or Duplex for chloride-rich or high-pressure duties
- **Water & wastewater treatment:** intake protection, polishing, and RO pre-treatment for municipal, industrial, and reuse systems
- **Food & beverage:** syrups, edible oils, and CIP solutions requiring sanitary finishes and compliant gaskets
- **Pharmaceuticals & biotechnology:** utilities and non-sterile process streams, with CIP/SIP-capable sanitary variants where required
- **Paints, inks, coatings & adhesives:** high-viscosity blends; optional steam-jacket or heat-trace for temperature control
- **Power & marine:** cooling water, condensate, and fuel/oil polishing; Duplex recommended for brine or seawater service
- **General industrial liquids:** processes demanding stainless-steel integrity, hygiene, and long service life

OEM Compatibility & Replacement Cross-Reference

HFX-SS-BF-SB™ – Stainless Steel Single-Bag Housings are designed to accept industry-standard #1 and #2 filter-bag formats and common sealing geometries used across many stainless single-bag systems. They may be used as replacements[1] or upgrades once dimensional, connection, pressure/temperature, and surface-finish requirements are verified for the specific installation. Typical comparable product families include:

Eaton® – TOPLINE® / FLOWLINE® / SIDELINE® stainless single-bag housings
Parker Hannifin® – Fulflo® EB (single-bag) / FB series stainless bag housings
Rosedale® – stainless single-bag filter housings (e.g., 8/16/24 series where applicable)
Shelco® – BF series stainless single-bag housings
Amazon Filters® – 84/85/86A/86B/89 series stainless single-bag housings

Other compatible OEM systems upon request

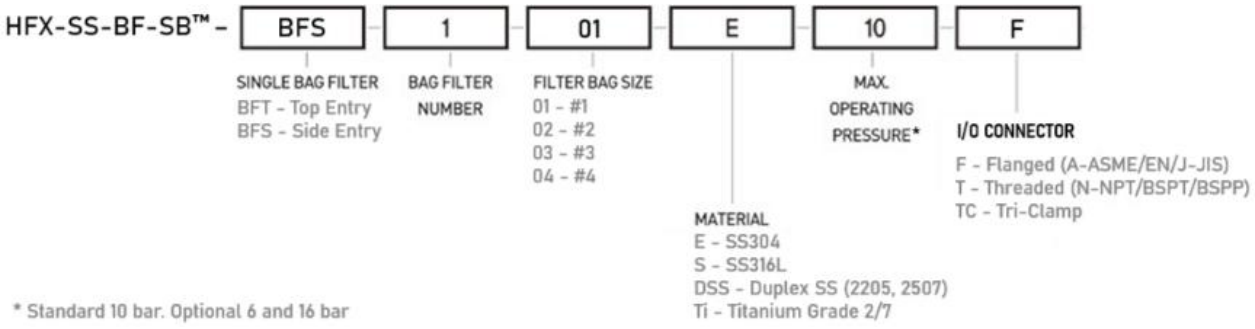
Key Features - HFX-SS-BF-SB™ – BFT Top Entry Stainless Steel Single Bag Housing

- **Robust stainless-steel construction** – SS304/SS316L as standard; Duplex 2205 for chloride-bearing/aggressive services; super duplex (2507) or titanium on request. *Match material to media, temperature and pressure to avoid corrosion/SCC.*
- **Side-entry nozzle configuration** – compact footprint with simplified piping tie-ins for skid-mounted and space-limited layouts.
- **Precision-machined bag seat with perforated stainless support basket** – maintains alignment and seal compression to minimise bypass and protect downstream equipment.
- **Secure closures** – quick-clamp, swing-bolt or eye-bolt options for fast, safe access; select to suit pressure/temperature class and cleaning method.
- **Industrial or sanitary finishes** – bead-blast/mechanical polish for general duty; sanitary polish (target ≤0.6 µm Ra) or electropolish (target ≤0.4 µm Ra) for hygiene-critical service (measured when specified).
- **Pressure/temperature capable** – models up to 10–16 bar at 20 °C with appropriate temperature derating; service up to 150–200 °C is gasket/closure dependent.
- **Dimensional compatibility with industry-standard #1/#2 bag interfaces** – eases upgrades/replacements; verify port size/type and centres, footprint/height, closure style and rating before any drop-in retrofit.

Ordering Information - HFX-SS-BF-SB™ – Stainless Steel Single Bag Housing

- **Model:** HFX-SS-BF-SB™ – Stainless Steel Single Bag Housing
- **Size / Element:** #01 (7″ × 16″) or #02 (7″ × 32″) bag. Size #03 and #04 available on request
- **Bag Interface:** Accepts industry-standard #1/#2 bag geometries (felt/depth, mesh, pleated) across common micron ratings
- **Support Basket:** Perforated stainless-steel basket (SS316L standard) for bag support and seal compression
- **Material of Construction:** SS304 or SS316L (wetted and pressure-retaining parts); Duplex SS (2205/2507) optional for aggressive service; Titanium (Grades 2 and 7) available on request for extreme corrosion environments; super duplex on request for severe chloride or corrosive conditions
- **Orientation:** Standard vertical orientation
- **Inlet / Outlet Orientation:** Side-inlet (BFS) or top-inlet (BFT) bodies
- **Connections:** Threaded (NPT per ASME B1.20.1, BSPT/BSPP per ISO 7-1 / ISO 228-1) or flanged (ANSI B16.5 Class 150, EN 1092-1 PN16, JIS B2220 10K). Optional sanitary Tri-Clamp (ISO 2852). Typical nozzle sizes 1–2 in; nozzle class to match system rating
- **Vent & Drain Ports:** Integrated vent (top) and drain (bottom) for safe depressurisation, sampling, cleaning, and fluid removal; differential-pressure taps optional
- **Closure Options:** Quick-clamp, screw-cap, or swing-bolt/eye-bolt; davit-assisted lids optional on larger housings; select closure to suit pressure, temperature, and cleaning method
- **Seal Options (Gaskets):** EPDM, Buna-N, Silicone, Viton® (FKM), PTFE-encapsulated/elastomer blends; others on request (temperature and chemical limits depend on gasket selection)

- **Surface Finish:** Industrial bead-blast (standard); mechanically polished industrial finish optional; sanitary polish (≤ 0.6 Ra µm) or electropolish (≤ 0.4 Ra µm) when specified (measured values recorded per order)
- **Pressure Rating:** Up to 10–16 bar at 20 °C (model- and code-dependent); apply temperature derating and observe nozzle class limits
- **Temperature Range:** Up to 150–200 °C service depending on closure and gasket selection; steam or thermal shock only if validated for such service
- **Mounting:** Base-mounted with legs or skid feet; suitable for floor or skid installation
- **Accessories:** Optional differential-pressure ports, pressure gauges, mounting legs/base, and cleanroom packaging
- **Thermal Options:** Steam-jacketed or heat-traced designs available on request
- **Compliance / Code:** Designed and manufactured in accordance with ASME Section VIII Div. 1; PED 2014/68/EU code-stamping available; 3-A Sanitary and ATEX-compliant models optional
- **Compliance Options:** ASME Section VIII or PED 2014/68/EU conformity (model dependent); 3-A sanitary and ATEX variants available when specified and documented
- **Notes:** Verify port size/type and centres, mounting footprint/height, closure style/hold-down, basket geometry, MAWP and temperature class for each installation; select materials and seals to match media, CIP/SIP chemistry, and regulatory requirements.



[1] Compatibility refers only to bag size (#1/#2) and typical ring/snap-fit sealing geometries. Mechanical and hydraulic interchangeability is not guaranteed—before any retrofit, confirm port size/type and centres, nozzle rating, mounting footprint/height, closure style/hold-down, basket geometry, and MAWP/temperature class. For sanitary service, also verify surface finish (Ra), drainability, elastomer certification, and any 3-A/ASME-BPE geometry requirements. 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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