



HF_X™ Series – Housing Filtration Excellence Engineered for Performance

HF_X-SS-CF-SC™ – Stainless Steel Standard Flow Single Cartridge Housing Product Highlights

Filtracore Asia's **HF_X-SS-CF-SC™ – Stainless Steel Standard Flow Single Cartridge Housings** are designed for industry-standard **2.5" OD cartridges** in 10", 20", 30", and 40" lengths. Engineered for point-of-use and low-to-medium flow applications, they deliver robust mechanical strength, secure cartridge sealing, and consistent filtrate quality across a wide range of process industries.



Constructed from **SS304 or SS316L stainless steel** as standard, with **Duplex SS (2205/2507)** available for aggressive chloride service, these housings provide excellent chemical resistance and long service life. **Titanium Grades 2 and 7** are available only on special request for extreme halogen or seawater chemistries. Precision-machined cartridge adaptors and stainless-steel internals ensure positive sealing with **DOE, 222, or 226 end connections**, minimizing bypass and ensuring repeatable performance.

Operator-friendly **clamp closures** are standard, while **swing-bolt or eye-bolt lids** are offered for higher-pressure or large-format housings. Optional sanitary finishes (**≤0.6 Ra µm polish or ≤0.4 Ra µm electropolish**) support compliance in food, beverage, and pharmaceutical environments. Each unit is hydrostatically tested per the applicable code requirements (ASME VIII UG-99 / PED) and may be supplied in accordance with **ASME Section VIII Div. 1 or PED 2014/68/EU** for regulated applications.

Compact, durable, and designed to integrate with industry-standard housings, the HF_X-SS-CF-SC™ can serve as a functional replacement for equivalent single cartridge housings from **Shelco®, Parker Hannifin®, Amazon Filters®, and Eaton®**, subject to application validation.

Compact Strength. Reliable Sealing. Proven Across Industries.

Applications - HFX-SS-CF-SC™ – Stainless Steel Standard Flow Single Cartridge Housing

- **Municipal & industrial water treatment** (pretreatment, polishing, RO guard filtration)
- **Food & beverage** (ingredient water, syrups, soft drinks, brewing, CIP rinse water)
- **Pharmaceuticals & biotech** (utility water, intermediates, non-sterile process streams)
- **Chemicals & petrochemicals** (acids, solvents, fine chemical polishing)
- **Microelectronics & semiconductor** (DI water, chemical blends, process rinse fluids)
- **General industrial liquids** requiring compact, point-of-use single-cartridge filtration, and other demanding industrial applications

OEM Compatibility & Replacement Cross-Reference

FiltraCore Asia's **HFX-SS-CF-SC™ – Stainless Steel Standard Flow Single Cartridge Housings** are designed to integrate with standard industry cartridge housings and may be specified as alternatives for equivalent models from:

- **Pall®** – IOL Series single-round housings
- **Parker Hannifin®** – Fulflo® BSSB single cartridge housings
- **Eaton®** – ECOCART™/TOPCART™ single cartridge housings
- **Amazon Filters®** – 51 / 52 Series single cartridge housings
- **Shelco®** – RH Series single cartridge housings

Other compatible OEM systems upon request



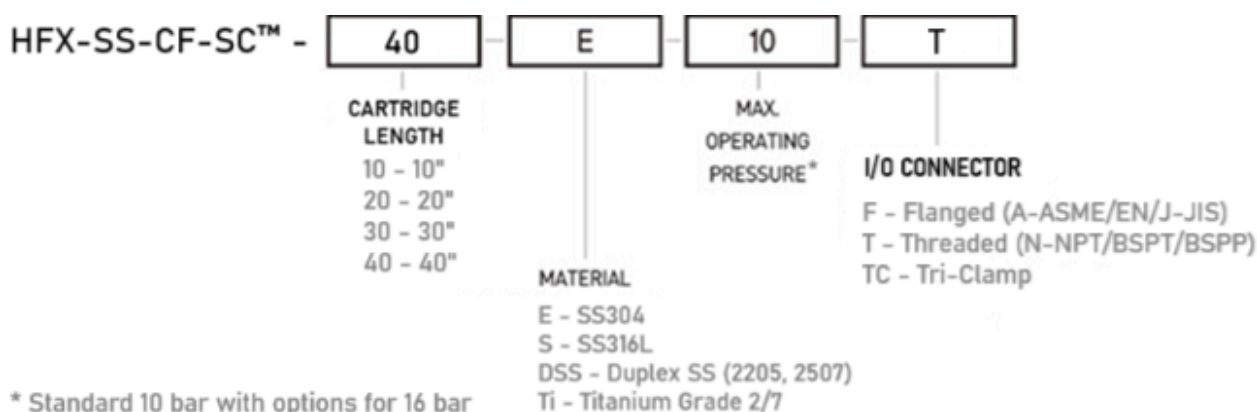
Key Features - HFX-SS-CF-SC™ – Stainless Steel Standard Flow Single Cartridge Housing

- **Model:** HFX-SS-CF-SC™ – Stainless Steel Standard Flow Single Cartridge Housing
- **Cartridge Compatibility:** 2.5" OD cartridges in 10", 20", 30", and 40" lengths; DOE, 222, and 226 end connections supported
- **Housing Material:** SS304 or SS316L (wetted and pressure parts); Duplex SS 2205 optional; Titanium (Grades 2 or 7) available on request for extreme corrosion duty
- **Internals / Basket:** Precision-machined stainless adaptors and supports; electropolished option for sanitary service
- **Seal Options:** Buna-N, EPDM, Silicone, Viton® (FKM), PTFE, and PTFE-encapsulated elastomers
- **Closure Options:** Quick-clamp (sanitary models); swing-bolt or eye-bolt (industrial models); secure sealing design to minimize bypass
- **Inlet/Outlet Connections:** Flanged (ANSI B16.5 Class 150, EN 1092-1 PN16, JIS B2220 10K) standard; threaded NPT/BSPT/BSPP available on request; sanitary Tri-Clamp (ISO 2852) optional
- **Vent & Drain Ports:** ½" BSPT/NPT vent (top); ½"–1" BSPT/NPT drain (bottom) for complete drainage and safe depressurization
- **Pressure Rating:** 10 bar (145 psi) @ 20 °C standard; up to 16 bar (232 psi) available on reinforced designs
- **Temperature Range:** –20 °C to +150 °C (depending on elastomer and alloy selection)
- **Design / Code Compliance:** Designed in accordance with ASME Section VIII Div. 1 or PED 2014/68/EU; hydrotested at 1.3 × design pressure
- **Surface Finish:** Industrial bead-blast (standard); sanitary polish ≤0.6 Ra µm; electropolish ≤0.4 Ra µm for pharma/biotech service
- **Mounting:** Vertical orientation (standard); skid-mounted or custom orientations available on request
- **Compliance:** Food-contact compliant variants available when specified and documented (resin/elastomers/finish); USP Class VI elastomers available; weld-only construction (no adhesives)
- **OEM Compatibility:** Functional interchangeability provided dimensional and hydraulic compatibility are verified for each installation for Shelco® RH Series, Parker Hannifin® Fulflo® BSSB, Eaton® ECOCART™/TOPCART™, Amazon Filters® 51/52 Series, Pall® IOL Series



Ordering Information - HFX-SS-CF-SC™ – Stainless Steel Standard Flow Single Cartridge Housing

- **Model:** HFX-SS-CF-SC™ – Stainless Steel Standard Flow Single Cartridge Housing
- **Cartridge Compatibility:** 2.5" OD cartridges in 10", 20", 30", and 40" lengths; supports DOE, 222, and 226 end-cap styles
- **Material of Construction:** SS304 or SS316L (standard); Duplex SS 2205/2507 optional; Titanium available only on special request for highly aggressive chemistries
- **Closure:** Clamp (sanitary/light duty), swing-bolt, or eye-bolt (industrial/high-pressure duty)
- **Seal Options:** Buna-N, EPDM, Silicone, Viton® (FKM), PTFE, PTFE-encapsulated elastomers (USP Class VI available for biopharma)
- **Inlet/Outlet Connections:** ½"–2" threaded (NPT per ASME B1.20.1, BSPT per ISO 7-1, BSPP per ISO 228-1) standard; optional sanitary Tri-Clamp (ISO 2852) or flanged (ASME B16.5 Class 150 / EN 1092-1 PN16) available on request
- **Vent & Drain Ports:** ¼"–½" BSPT/NPT vent (top) for safe depressurization; ½"–1" BSPT/NPT drain (bottom) for complete vessel emptying
- **Pressure Ratings:** 10 bar (145 psi) standard; 16 bar (232 psi) high-performance version available (with swing-bolt/eye-bolt closure) for demanding chemical and industrial applications
- **Temperature Range:** –20 °C to 120 °C (standard); up to 150 °C with PTFE or Silicone seals for SIP/CIP duty
- **Surface Finish:** Industrial bead-blast (standard); sanitary polish ≤0.6 Ra µm; electropolish ≤0.4 Ra µm optional for hygienic applications
- **Orientation:** Vertical installation only (industry standard)
- **Compliance / Code:** ASME Section VIII Div. 1 / PED 2014/68/EU (optional stamping); hydrostatically tested per the applicable code requirements (ASME VIII UG-99 / PED)



¹ Compatibility is based on dimensional and functional equivalence for common cartridge formats (DOE, 222/226). End-user validation is recommended prior to substitution.

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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