



HFX™ Series – Housing Filtration Excellence Engineered for Performance

HFX-SS-CF-SC-HF™ – Stainless Steel High Flow Single Cartridge Housing Product Highlights

Filtracore Asia's **HFX-SS-CF-SC-HF™ – Stainless Steel High Flow Single Cartridge Housings** are engineered for **large-diameter, high-flow cartridges** where **compact, high-**



capacity filtration is essential. Constructed from **304 or 316L stainless steel**, with optional **Duplex SS (2205/2507)**, these housings deliver **robust mechanical strength, broad chemical resistance**, and **long service life** in demanding industrial and sanitary applications.

Designed for **6" OD high-flow cartridges** in **20", 40", and 60"** lengths, each housing achieves **up to ~40 m³/h per cartridge** (water @ 25 °C, $\Delta P \leq 0.5$ bar), providing a compact alternative to multi-cartridge housings.

Perforated stainless support baskets and **precision-machined cartridge seats** ensure secure sealing, alignment, and **minimal bypass**, while **swing-bolt or eye-bolt closures** (davit arm standard on 60" models) enable safe, ergonomic access.

To maximise installation flexibility, **20" and 40" housings** are supplied **vertical as standard**, and **20", 40", and 60" models** are available in **vertical or horizontal configuration (HFX-SS-SCH-HF™)** – an option that enhances ergonomics and simplifies maintenance when handling long cartridges, reducing the need for ladders or catwalks.

Optional **sanitary finishes** (≤ 0.6 Ra μm polish or ≤ 0.4 Ra μm electropolish) support food, beverage, and pharmaceutical duties, while **ASME Section VIII Div. 1 / PED-conforming versions** are available **when specified and documented** for regulated facilities.

High Capacity. Flexible Orientation. Proven in Critical Applications.

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

- **Municipal and industrial water treatment** (intake, polishing, RO pretreatment)
- **Power generation** (condensate, cooling water, boiler feed)
- **Food & beverage** (process water, syrups, beverages, CIP streams)
- **Pharmaceuticals & biotech** (utility water, non-sterile process streams)
- **Chemicals and petrochemicals** (bulk intermediates, solvents, resins)
- **Marine & offshore** (desalination, ballast, produced water)
- **General industrial liquids** requiring high flow capacity with minimal footprint, and **other demanding industrial applications**

OEM Compatibility & Replacement Cross-Reference

FiltraCore Asia's **HFX-SS-CF-SC-HF™ – Stainless Steel High Flow Single Cartridge Housings** are designed to **accept industry-standard 6" OD high-flow cartridges** and may be specified as dimensionally and functionally compatible¹ with housings from:

- **Pall® Ultiplex®** High Flow housings
- **Eaton® TOPCART®** High Flow housings
- **Amazon Filters®** High Flow housings

Other compatible OEM systems upon request



Key Features - HF_X-SS-CF-SC-HF™ – Stainless Steel High Flow Single Cartridge Housing

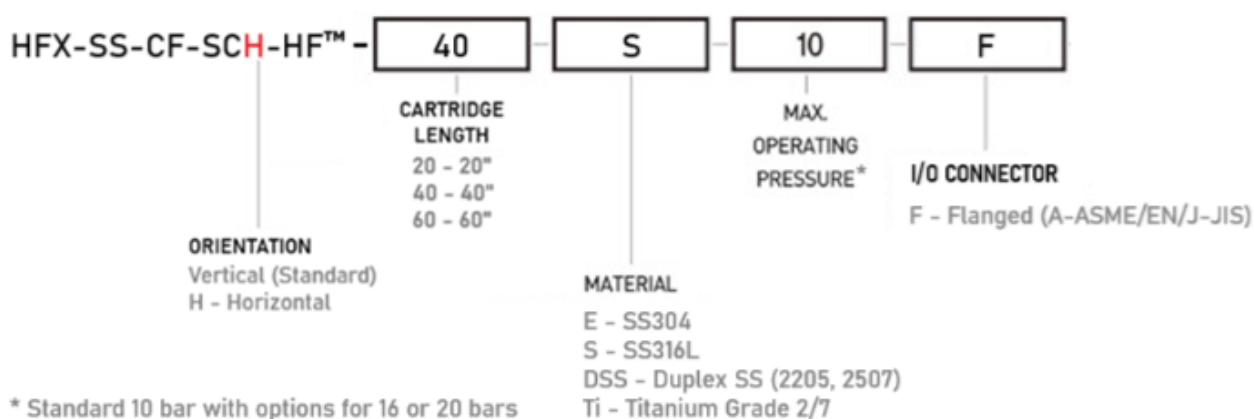
- **Heavy-duty stainless construction** (SS304/SS316L standard; Duplex SS 2205/2507 optional; Titanium on request) ensures corrosion resistance and long service life



- **High-flow cartridge format** (6" OD, 20" / 40" / 60" lengths) enables up to ~40 m³/h per cartridge (water @ 25 °C, ΔP ≤ 0.5 bar), reducing consumables and change-outs
- **Compact footprint** compared to multi-cartridge housings, ideal for space-constrained systems
- **Orientation flexibility** – 20" and 40" units available in vertical design; 20", 40", and 60" units available in horizontal or vertical configurations. Horizontal layouts enhance ergonomics and simplify maintenance, eliminating the need for ladders or catwalks during cartridge change-outs
- **Positive sealing design** with precision-machined cartridge seats ensures minimal bypass and consistent filtrate quality
- **Safe, operator-friendly closures** (swing-bolt, eye-bolt, davit-assisted for 60" housings) enable quick, secure cartridge access
- **Optional sanitary finishes** (≤0.6 Ra μm polish or ≤0.4 Ra μm electropolish) support food, beverage, and pharmaceutical installations
- **Code compliance** (ASME Section VIII Div. 1 / PED 2014/68/EU) and hydrostatic testing at 1.3 × design pressure guarantee safety and performance integrity
- **OEM-compatible dimensions** enable functional replacement with major high-flow housing brands provided dimensional and rating compatibility are verified for each installation
- **Low total cost of ownership** through extended service life and reduced cartridge consumption

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

- **Model:** HFX-SS-CF-SC-HF™ – Stainless Steel High Flow Single Cartridge Housing (HFX-SS-SCH-HF™ for horizontal configuration)
- **Cartridge Compatibility:** Industry-standard 6" OD high-flow cartridges in 20", 40", and 60" lengths
- **Material of Construction:** SS304 or SS316L (wetted & pressure-retaining parts) standard; Duplex SS 2205/2507 optional; Titanium available on request for aggressive service
- **Closure:** Swing-bolt or eye-bolt (standard for pressure-rated service); clamp-type optional for low-pressure/light-duty use; davit arm supplied as standard on 60" housings
- **Seal Options:** Buna-N, EPDM, Silicone, Viton® (FKM), PTFE, or PTFE-encapsulated elastomers
- **Inlet/Outlet Connections:** ANSI B16.5 Class 150 / EN 1092-1 PN16 flanged, typically DN80–DN150 depending on cartridge length and flow; BSPT/NPT threaded available for vents/drains only
- **Vent & Drain Ports:** ½" BSPT/NPT vent (top); 1" BSPT/NPT drain (bottom) for safe depressurization and complete liquid removal
- **Pressure Ratings:** 10 bar (145 psi) standard; 16 bar (232 psi) reinforced version available; higher ratings (up to 20 bar) possible on custom designs
- **Temperature Range:** –20 °C to +120 °C standard; up to +150 °C with PTFE or silicone seals for SIP duty (seal-dependent)
- **Cartridge Support:** Perforated stainless-steel support basket (standard) ensures alignment, stability, and positive sealing of 6" OD high-flow cartridges
- **Surface Finish:** Industrial bead-blast (standard); sanitary polish (≤0.6 Ra µm) or electropolish (≤0.4 Ra µm) optional for hygienic service
- **Orientation:** 20" and 40" housings available in vertical configuration; 20", 40", and 60" housings available in either vertical or horizontal configuration (HFX-SS-SCH-HF™)
- **Compliance/Code:** Designed to ASME Section VIII Div. 1 or PED 2014/68/EU (optional code stamping); hydrostatically tested per the applicable code requirements (ASME VIII UG-99 / PED)



¹ Compatibility references relate to cartridge format and typical sealing geometries only. Mechanical/hydraulic interchangeability is not guaranteed—before retrofit, verify port size/type and centres, nozzle class, footprint/height, closure/hold-down, basket/adaptor geometry, gasket/elastomer, and MAWP/temperature class, as well as flow/ Δp at operating viscosity. Code stamping (ASME/PED), sanitary finish (Ra), and documentation are per ordered configuration.

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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