



HFX™ Series – Housing Filtration Excellence Engineered for Performance

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

Filtracore Asia's **HFX-SS-CF-SC-HF™ – Stainless Steel High Flow Single Cartridge Housings** are purpose-built for **6" OD high-flow cartridges in 20", 40", and 60" lengths**, delivering **high capacity in a compact housing design**. Constructed from 304 or 316L



stainless steel (with Duplex SS 2205/2507 available for aggressive environments), these housings provide **mechanical robustness, broad chemical resistance, and long-term reliability** in municipal, industrial, and process-critical applications.

20" and 40" housings are supplied in **vertical orientation as standard**; **20", 40", and 60" models are available in either vertical or horizontal configuration as HFX-SS-SCH-HF™** to improve ergonomics and simplify cartridge change-outs. Swing-bolt or eye-bolt closures, with davit-assisted lids on 60" housings, provide fast, secure maintenance access, while perforated stainless-steel support baskets and precision-machined cartridge seats ensure positive sealing and minimal bypass.

All housings are **hydrostatically tested per applicable code requirements (ASME VIII UG-99 / PED)** and may be supplied with **ASME Section VIII Div. 1 or PED 2014/68/EU** certification. Finishes include industrial bead-blast (standard) or sanitary polish/electropolish for food, beverage, and pharmaceutical duties. **Food-contact compliant variants are available when specified and documented**, with **USP Class VI elastomers** offered.

Compact, high-capacity, and OEM-compatible, the HFX-SS-CF-SC-HF™ can provide **functional interchangeability** with high-flow housings from Pall®, Eaton®, Parker®, and Amazon Filters®, **provided dimensional and rating compatibility are verified for each installation**.

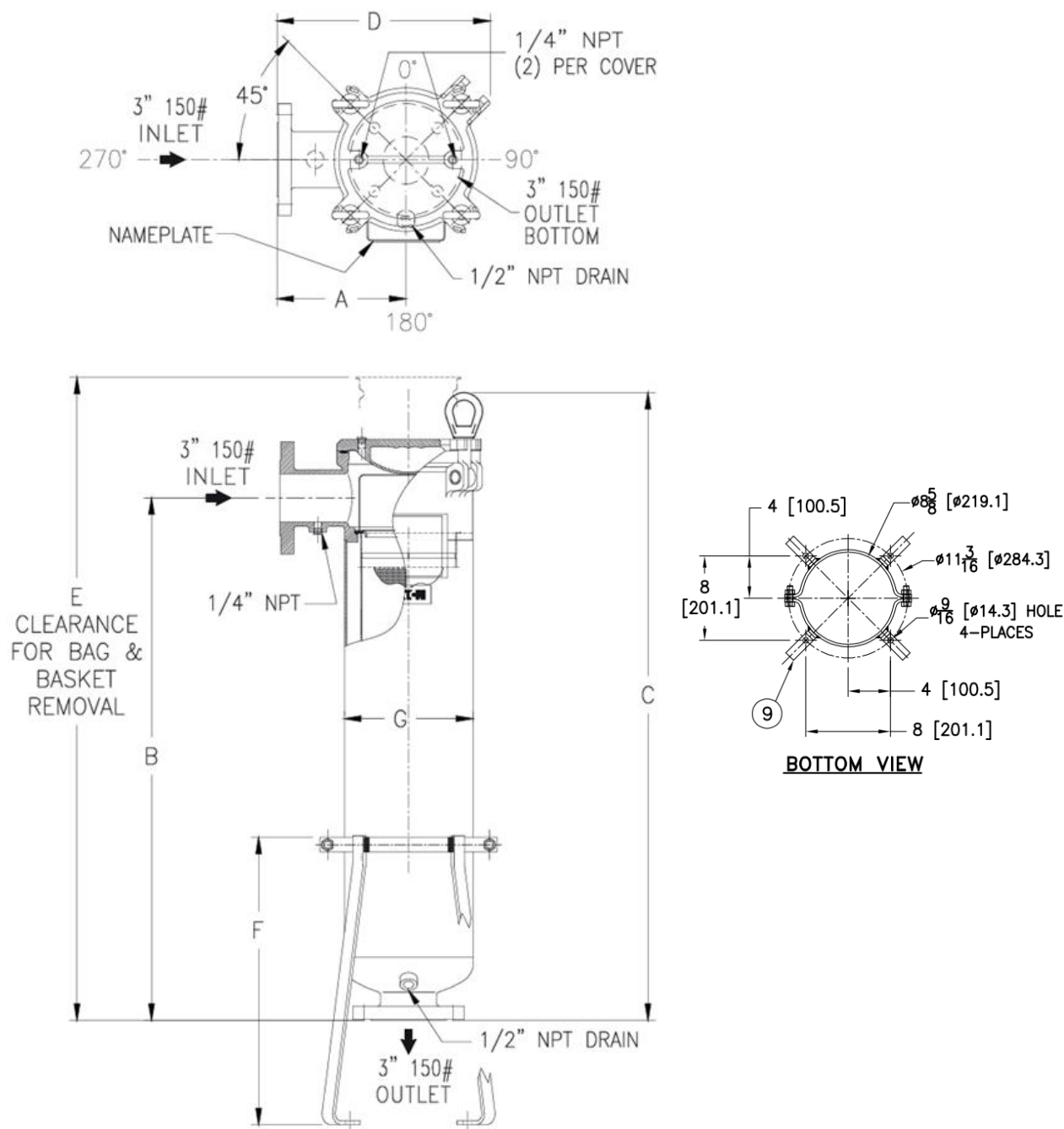
High Capacity. Flexible Orientation. Proven in Critical Applications.

Technical Specifications

- **Model:** HFX-SS-CF-SC-HF™ – Stainless Steel High Flow Single Cartridge Housing
- **Cartridge Compatibility:** 6" OD high-flow cartridges (20", 40", 60" lengths)
- **Housing Material:** SS304 or SS316L (standard); Duplex SS 2205/2507 optional for chloride service; Titanium Grade 2 available on request for extreme corrosion service
- **Basket / Internals:** Perforated stainless-steel support basket and precision-machined cartridge seat (standard); electropolished option for hygienic service
- **Seal Options:** Buna-N, EPDM, Viton® (FKM), Silicone, PTFE, PTFE-encapsulated elastomers
- **Closure:** Swing-bolt or eye-bolt; davit arm standard on 60" housings
- **Inlet/Outlet Connections:** ANSI B16.5 Class 150 / EN 1092-1 PN16 flanges (DN80–DN150 depending on cartridge length); BSPT/NPT threaded vents & drains optional
- **Vent & Drain Ports:** ½" BSPT/NPT vent (top); 1" BSPT/NPT drain (bottom)
- **Pressure Ratings:** 10 bar (145 psi) @ 20 °C standard; 16 bar (232 psi) high-performance; up to 20 bar (290 psi) on request (subject to design)
- **Temperature Range:** –20 °C to 120 °C standard; up to 150 °C with PTFE or silicone seals for SIP duty (seal-dependent)
- **Design / Code:** ASME Sec. VIII Div. 1 or PED 2014/68/EU (optional stamped); hydrostatically tested per applicable code requirements (ASME VIII UG-99 / PED)
- **Surface Finish:** Industrial bead-blast (standard); sanitary polish $\leq 0.6 \mu\text{m Ra}$ or electropolish $\leq 0.4 \mu\text{m Ra}$ optional
- **Orientation:** 20" and 40" vertical standard; 20", 40", and 60" available vertical or horizontal (HFX-SS-SCH-HF™)
- **Compliance:** Food-contact compliant variants available when specified and documented; USP Class VI elastomers available
- **OEM Compatibility:** Compatible with industry-standard 6" OD high-flow formats used by Pall®, Eaton®, Parker®, and Amazon Filters®; verify port centres, nozzle class, footprint/height, hold-down/closure, and MAWP/temperature class before retrofit



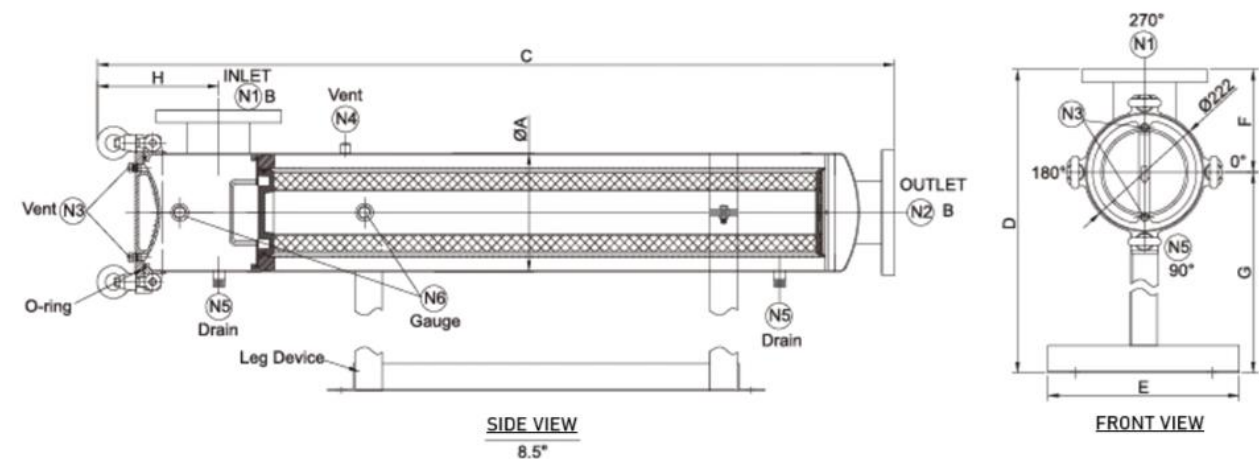
HFX-SS-CF-SC-HF™ – Stainless Steel High Flow Single Cartridge Housing (Vertical)



Model	Cartridge Length (in)	Housing Weight (kg)	Dimensions – inch (mm)						
			A	B	C	D	E	F	G
HFX-SS-CF-SC-HF™ -20	20	51.7	8.68 (220)	35.00 (889)	42.12 (1,070)	14.37 (365)	69 (1,753)	19.25 (489)	8.62 (219)
HFX-SS-CF-SC-HF™ -40	40	58.9	8.68 (220)	48.65 (1,236)	55.75 (1,416)	14.37 (365)	89 (2,261)	19.25 (489)	8.62 (219)

Dimensions for reference only and approximate. Exact dimensions for installation purposes available on request.

HFX-SS-CF-SCH-HF™ – Stainless Steel High Flow Single Cartridge Housing (Horizontal)



Model	Cartridge Length (in)	Housing Weight (kg)	Dimensions – inch (mm)							
			ØA	B	C	D	E	F	G	H
HFX-SS-CF-SCH-HF™ -20	20	49.7	8.5 (216)	3 (76)	37.7 (960)	27 (688)	13.7 (350)	7.4 (188)	19.6 (500)	8.7 (223)
HFX-SS-CF-SCH-HF™ -40	40	57.4	8.5 (216)	3 (76)	57.4 (1,460)	27 (688)	13.7 (350)	7.4 (188)	19.6 (500)	8.7 (223)
HFX-SS-CF-SCH-HF™ -60	60	63.4	8.5 (216)	4 (102)	77.5 (1,971)	27 (688)	13.7 (350)	7.4 (188)	19.6 (500)	8.7 (223)

Dimensions for reference only and approximate. Exact dimensions for installation purposes available on request.



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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