



HFX™ Series – Housing Filtration Excellence Engineered for Performance

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

Filtracore Asia's **HFX-SS-BF-MB™ – Stainless Steel Multi-Bag Housings** are designed for large-scale liquid filtration where high flow rates, durability, and operational safety are essential. Built from **304 or 316L stainless steel**, with **Duplex SS (2205/2507) available for aggressive service** and **Titanium offered only on special request**, these housings deliver robust performance across **chemical, water treatment, food & beverage, and pharmaceutical applications**.



Each unit holds **2 to 24 Size #02 bags (7" × 32") in parallel**, with precision-machined bag seats and perforated stainless support baskets ensuring **positive sealing, uniform flow distribution, and minimized bypass**. The **side-entry inlet and bottom outlet design** optimizes hydraulic efficiency, while **heavy-duty swing-bolt or eye-bolt closures with davit-arm assist** provide safe, ergonomic access for maintenance. Integrated **vent, drain, and differential-pressure ports** enable reliable operation and simplified monitoring.

The HFX-SS-BF-MB™ is available in **two pressure classes – 10 bar (145 psi) standard and 16 bar (232 psi) reinforced for high-demand service**. Finishes include **industrial bead-blast, sanitary polish (≤ 0.6 Ra μm), or electropolish (≤ 0.4 Ra μm)**, with options for **steam-jacketed or heat-traced designs**. All housings are **manufactured under orbital/TIG welding protocols, hydrostatically tested at 1.3 × design pressure**, and may be supplied with **ASME Section VIII or PED 2014/68/EU certification**. Wetted parts are **FDA-compliant**, with **USP Class VI elastomers** available for hygienic service.

By combining scalable flow capacity, code compliance, and industry-standard #02 bag geometry, the HFX-SS-BF-MB™ offers **functional interchangeability with leading multi-bag housings such as Eaton®, Amazon Filters®, Parker®, Rosedale®, and Shelco®**, provided dimensional and hydraulic compatibility are verified for each installation.

Engineered for Scale. Built for Uptime. Proven in Demanding Industries.

Technical Specifications

- **Model:** HFX-SS-BF-MB™ – Stainless Steel Multi-Bag Housing
- **Bag Compatibility:** Standard Size #02 (7" × 32") filter bags; compatible with felt, mesh, pleated, melt-blown, depth-loading, and absolute-rated media (1–1000 µm); precision-machined basket seats ensure positive sealing and minimise bypass
- **Configurations:** 2, 3, 4, 6, 8, 12, or 24 bag housings; flow capacity ~40–480 m³/h (water @ 25 °C, $\Delta P \leq 0.5$ bar); larger designs available on request
- **Housing Material:** SS304 or SS316L (standard); Duplex SS 2205/2507 for offshore/chloride service; Titanium Grades 2 or 7 available only on special request; shell and cover thickness per ASME/PED design codes
- **Basket Material:** Perforated stainless steel (SS304/SS316L), TIG welded and passivated; optional electropolish for sanitary service; typical perforation 3–4 mm for low ΔP
- **Seal Options:** Buna-N, EPDM, Silicone, Viton® (FKM), PTFE, PTFE-encapsulated; USP Class VI elastomers available
- **Closure System:** Swing-bolt or eye-bolt cover with davit arm (standard); optional hand-wheel swing-bolt for high-frequency access; covers equipped with safety bleed/vent ports
- **Inlet / Outlet Connections:** Side-entry inlet with bottom outlet (standard) for full drainage and uniform distribution; side-outlet configuration available for compact skid layouts; flanged ANSI Class 150 / EN 1092-1 PN16 (DN50–DN350 / 2"–14"); JIS B2220 and other standards available on request
- **Vent & Drain Ports:** ½" BSPT (RC) vent (NPT optional); 1½"–2" drain ports for safe depressurisation and complete vessel emptying; CIP/SIP compatible
- **Pressure Ratings:** 10 bar (145 psi) standard; 16 bar (232 psi) reinforced high-performance; economy 6 bar (87 psi) not typical for stainless multi-bag housings and generally omitted from catalogues
- **Temperature Range:** –20 °C to +150 °C continuous service (elastomer/alloy dependent)
- **Design Codes & Testing:** Designed per ASME Section VIII Div. 1 or PED 2014/68/EU; hydrostatically tested per applicable code requirements; weld maps, hydro certificates, and MTRs available
- **Surface Finish:** Industrial bead-blast (standard); sanitary polish (≤ 0.6 Ra µm); electropolish (≤ 0.4 Ra µm)
- **Mounting & Orientation:** Skid-ready heavy-duty legs with bolting pads; vertical orientation
- **Compliance:** Food-contact compliant variants available when specified and documented; USP Class VI elastomers optional; weld-only construction, no adhesives or coatings
- **OEM Compatibility:** Compatible with industry-standard #02 bag geometry used by Eaton®, Parker®, Amazon Filters®, Rosedale®, Filtration Group®, and Shelco®; verify port size/type and centres, nozzle class, footprint/height, closure/hold-down, basket geometry, and MAWP/temperature class before retrofit



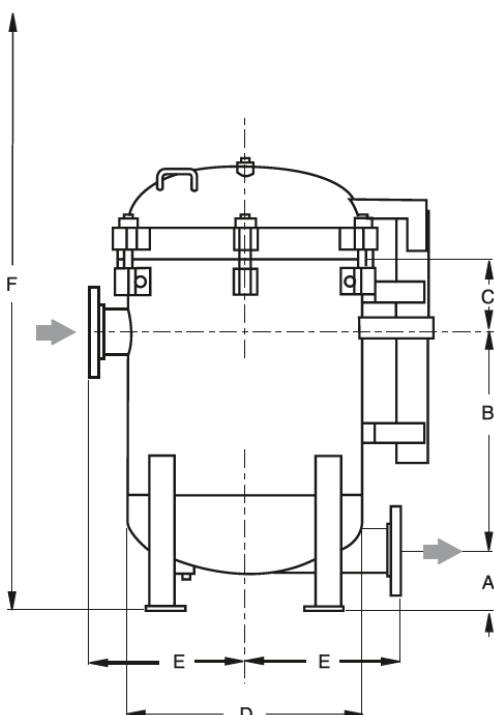
Dimensions – inch (mm)						
Model	A	B	C	D	E	F
HFX-SS-BF-MB-4	250	560	205	559	400	1,800
HFX-SS-BF-MB-6	250	570	245	800	520	2,020
HFX-SS-BF-MB-8	250	600	395	950	625	2,500

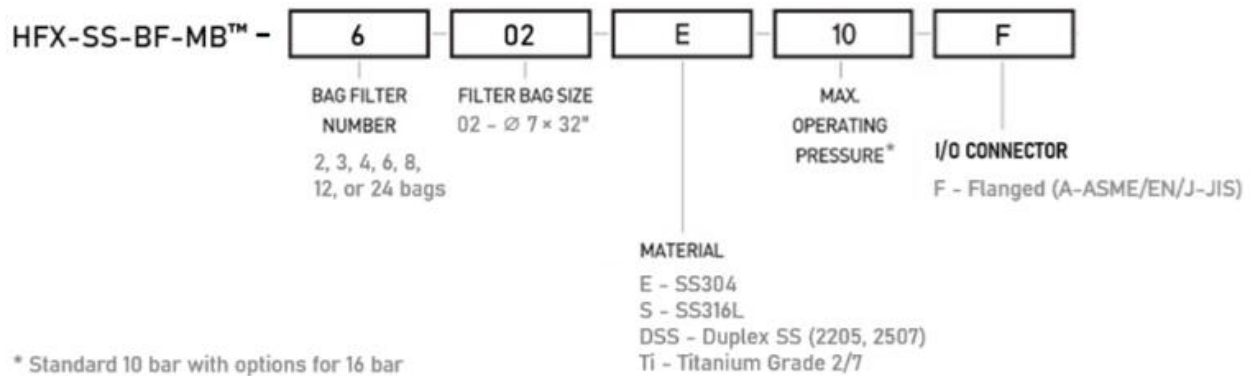
Dimensions for reference only and approximate. Exact dimensions for installation purposes available on request.

Model	No. of Filter Bags	Flow Rate [~] (m³/h)	Housing Volume (Litre)	Housing Weight (Kg) [~]	I/O Connections
HFX-SS-BF-MB-2	2	31	108	180	3" DN80 PN16
HFX-SS-BF-MB-3	3	51	151	227	4" DN 100 PN16
HFX-SS-BF-MB-4	4	160	261	279	4" DN 100 PN16
HFX-SS-BF-MB-6	6	204	341	367	6" DN150 PN16
HFX-SS-BF-MB-8	8	320	440	465	8" DN200 PN16
HFX-SS-BF-MB-12	12	480	770	645	10" DN250 PN16
HFX-SS-BF-MB-24	24	1,022	2,158	1,270	14" DN350 PN16

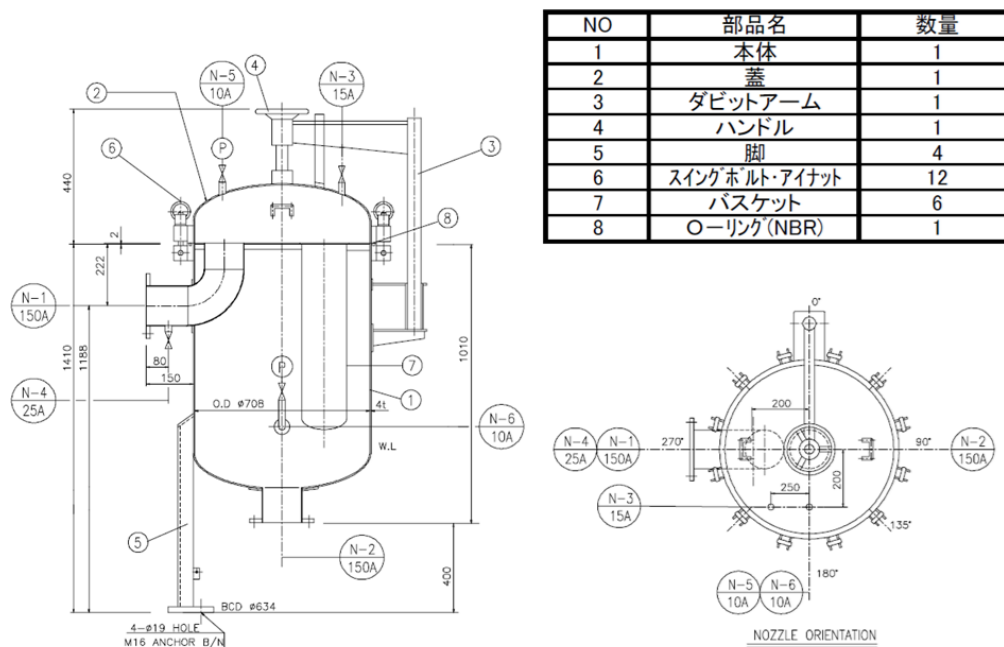
[~]Flow rate data based on clean water at 25 °C and initial $\Delta P \leq 0.5$ bar. Actual flow capacity depends on fluid viscosity, solids loading, and bag micron rating. Dimensions are typical and vary slightly by closure type (swing-bolt, eye-bolt) and flange size. Custom designs available on request.

Performance data is based on standard bag size #02. Maximum operating pressure: 10 bar (145 psi). Maximum operating temperature: 120 °C (248 °F). Ratings may vary depending on housing design, materials of construction, and selected gasket/closure options. Always confirm specifications for your application before use





マルチバッグフィルターハウジング HFX-SS-BF-MB™-6-02-E-10-J



上記寸法はあくまでも概略寸法であり、設計寸法としては使用しないで下さい。

仕様		HFX-SS-BF-MB™-6-02-E-10-J
(予告なく変更することがあります。)		
最大流量(m3/h)		240
フィルター表面積(m ²)		3
バスケット(サイズ12)本数		6
フィルターハウジング容量(l)		430
概略フィルターハウジング重量(kg)		approx.250
概略設置高(cm)		approx.230
概略設置面積(cm)		approx.120×180
設置方法		4本固定脚
材質	ハウジング	SUS304(接液部)
	バスケット	SUS304
	開閉部	SS400(アイボルト・スイングナット)
	その他	SUS304
最大使用圧力		Max 10 bar at 150°C
取合(接続)	N1(流入側)/N2(流出側)	150A JIS 10K SOFF フランジ
	N3(ベント用)	15A PT ソケット
	N4(ドレイン用)	25A PT ソケット
	N5/N6(圧力計用)	10A PT ソケット
内外面表面処理		バフ研磨#200
蓋開閉方式		ダビット式

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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