

FBT Series Filter Housings

8-ROUND FILTER HOUSING

for sanitary liquid filtration



FBT Series

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Description

FBT Series sanitary housings are designed specifically for liquid filtration in the food and beverage industry¹.

- Enhanced cleanability and microbiological safety due to crevice-free, polished and hygienic design
- Corrosion resistance and durability with 316L stainless steel wetted parts and high-quality welds
- Cost-effective without sacrificing quality and performance

FBT Housings are available in a standard sanitary design allowing a variety of connection options, or in a 3-A sanitary design, which meets the requirements of 3-A Sanitary Standards #10-04.

Features and Benefits

- T-style multi-round housing
- Suitable for flow rates up to 820 liters/min (216 USgpm) depending upon cartridge type and size
- Suitable for CIP and SIP
- Beveled housing tubesheet and aseptic-style housing seal provides enhanced drainability and a crevice-free connection between the housing head and bowl
- Electropolished head and elbows and mirror polished bowl ensures optimal cleanability in critical areas while maintaining cost-effectiveness
- New cartridge locking design features additional cut-outs to traditional half-moon portions of the Code 7 bayonet locks, enhancing cleanability and drainability, (Figure 1)
- Operator-friendly V-Band housing closure simplifies handling
- Housings with clamp coupling and butt weld connection options meet the design requirements of 3-A Sanitary Standards #10-04
- Design satisfies EC Pressure Equipment Directive (PED) 97/23/EC, ATEX 94/9/EC Group II Category 2

FBT Series Filter Housings

Technical Information

Specifications

•	
Minimum / Maximum Operating Pressure ²	-1 to 10 bar (-14.5 to 150 psig)
Minimum / Maximum Operating Temperature 3,5	Fluorocarbon Elastomer and Silicone seals -10 to 150 °C (14 to 300 °F) EPR seals -10 to 121 °C (14 to 250 °F)
Steam Sterilization 3,5	Fluorocarbon Elastomer and Silicone seals 3.7 bar / 150 °C max (53 psig / 300 °F) EPR seals 1 bar / 121 °C max (14.5 psig / 250 °F)
Materials of Construction	Wetted parts 316L stainless steel
Housing Seal Options 1,4	Fluorocarbon Elastomer Silicone EPR
Surface Finish	≤ 0.8 micron Ra (≤ 32 Ra microinches)
Connections	DIN 11851 Clamp Coupling Butt Weld
Filter Cartridge Compatibility ⁵	Pall Code 2 or Code 7 single open-end
Design Specification	Design capability of 4 times maximum operating pressure. Each housing is hydrostatically tested to 1.6 times maximum

- ¹ Please contact Pall to ensure the products meet specific National Legislation and/or Regional Regulatory requirements for food contact use.
- ² Maximum operating pressure ratings are vessel ratings only. Safe operating temperature and pressure will depend on filter cartridge and seal used. For compatibility details, please contact Pall.
- ³ For applications involving fluids below 0 °C (32 °F), please contact Pall.
- ⁴ Check local pressure vessel code requirements.
- ⁵ Refer to Pall Food and Beverage filter cartridge literature for additional guidelines on use.



Figure 1a: Sanitary 3-A design option with clamp coupling or butt weld connections satisfies the requirements of 3-A Standard #10-04.



Figure 1b: Housing interior design ensures optimal cleanability in critical areas.

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Technical Information

FBT08 and FBT08 3-A Series Housings

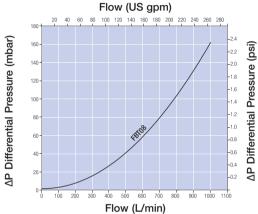
Nominal Dimensions in mm (inches) - for specific dimensions, please contact Pall

Code	Cartridge Height	Α	В	C - Element Removal	D - DIN Connection	D - Clamp Connection	D - Butt Weld Connection
10	254 (10)	928 (36.5)	638 (25.1)	310 (12.2)	476.5 (18.8)	476.5 (18.8)	420.5 (16.6)
20	508 (20)	1178 (46.4)	888 (35.0)	560 (22.0)	476.5 (18.8)	476.5 (18.8)	420.5 (16.6)
30	762 (30)	1428 (56.2)	1138 (44.8)	810 (31.9)	476.5 (18.8)	476.5 (18.8)	420.5 (16.6)
40	1016 (40)	1678 (66.1)	1388 (54.6)	1060 (41.7)	476.5 (18.8)	476.5 (18.8)	420.5 (16.6)

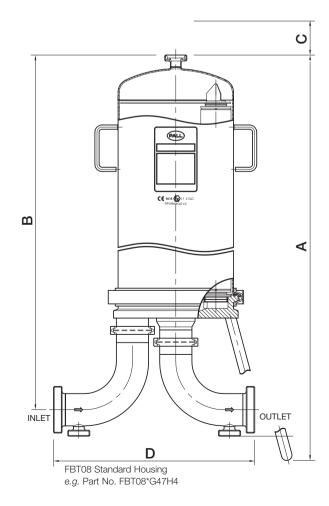
Volume and Weight

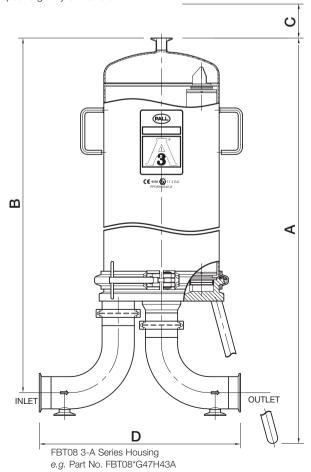
Code	Volume L (US Gal)	Weight kg (lb)
10	17.3 (4.6)	39 (86)
20	31.3 (8.3)	44 (97)
30	45.3 (12.0)	49 (108)
40	59.3 (15.7)	54 (119)

Typical Water Flow / Pressure Drop Characteristics*



* The flow/pressure drop curve refers to the empty housing only, for water at 20 °C (68 °F). For other liquids, multiply housing pressure drop by the specific gravity of the fluid.





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Ordering Information

This is a guide to the part numbering structure and possible options only. For availability of specific options, please contact Pall.

Part Number: FBT 08

T 08 ____

G

Table 2 Table 3 Table 4

Example Part Number: FBT 08 1

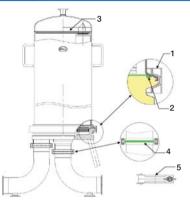
Note: See bold reference codes in the tables

Table 1

Code	Cartridge Height
1	254 mm (10")
2	508 mm (20")
3	762 mm (30")
4	1016 mm (40")

Table 3

Code	Housing Seal Options
Н	Fluorocarbon Elastomer
H4	Silicone
J	EPR



Spare Parts

Description	Quantity	Material	Part No.
Bowl seal [2]	1	Н	KORHPW-684
Bowl seal [2]	1	H4	KORH4PW-684
Bowl seal [2]	1	J	KORJPW-684
3" Clamp seal [4]	2	Н	KLS00108
3" Clamp seal [4]	2	H4	KLS00102
3" Clamp seal [4]	2	J	KLS00103
Retaining plate [3]	1	316L s/s	ACS0974AM
Bowl clamp (std) [1]	1	304 s/s	ACS0972DO
Bowl clamp [1] (3-A Series)	1	304 s/s	ACS0977DS
3" V-clamp ^[5] (std and 3-A Series)	2	304 s/s	ACS0973DM

Table 2

Code	Inlet / Outlet	Vent	Drain
NW50	NW50 DIN 11851	NW25 DIN 11851	NW25 DIN 11851
47	3" Clamp Coupling	1" Clamp Coupling	1" Clamp Coupling
99	Butt Weld 76.2 x 1.6	Butt Weld 25.4 x 1.6	Butt Weld 12.7 x 1.6

Table 4

Code	Housing Design		
Blank	Standard		
3A	3-A Series		

Note: Housings with clamp coupling and butt weld connection options are available in both Standard and 3-A Series design. Housings with DIN connections are only available in Standard design.

G NW50 H4









Figure 2 Figure 3 Figure 4 Accessories pictured are shown in DIN 11851 option.

Figure 5

Optional Accessories

Description	Connections [†]	Seal Material	Part Number	Connections [†]	Seal Material	Part Number
Vent Kit - Gauge (Figure 2)	NW25 (DIN 11851)	H H4 J	ACS0949AM ACS0950AU ACS0951AM	1" Clamp Coupling	H H4 J	ACS0958AM ACS0959AU ACS0960AM
Vent Kit - Stäubli* Vent Valve (Figure 3)	NW25 (DIN 11851)	H H4 J	ACS0952AM ACS0953AU ACS0954AM	1" Clamp Coupling	H H4 J	ACS0961AM ACS0962AU ACS0963AM
Vent Kit - Stäubli* Vent Tee (Figure 4)	NW25 (DIN 11851)	H H4 J	ACS0946AM ACS0947AU ACS0948AM	1" Clamp Coupling	H H4 J	ACS0955AM ACS0956AU ACS0957AM
Drain Kit - Hosetail Valve (Figure 5, 2 required per housing)	NW25 (DIN 11851)	H H4 J	ACS0981CM ACS0982CU ACS0983CX	1" Clamp Coupling	H H4 J	ACS0978CM ACS0979CU ACS0980CX

[†] Connection kits are supplied either with DIN 11851 connection type or clamp coupling type. Please choose the desired option. Seal material options are H (Fluorocarbon Elastomer), H4 (Silicone) and J (EPR).



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