



Food and Beverage

VFS Series Filter Housings

For Vent Applications



Description

VFS Series filter housings are specifically designed for venting applications in the food and beverage industry.

The in-line flow pattern of VFS housings ensures minimized pressure drop and user-friendly filter cartridge change-outs. They can be equipped with a variety of air/gas filter cartridges to address the various needs of the industry, efficiently protecting product and processes from airborne contamination.

Features and Benefits

Simplified design,

Optimized flow dynamics

- Convenient configuration, easy to install on containers and tanks
- Minimized pressure drop for lower cost of ownership

Fully self-draining

- Sanitary design, ease of use, satisfying standard F&B requirements

Simple bowl closure system

- Operator-friendly handling during change-outs and maintenance

Variety of sizes and connection styles

- Choice and convenience for easy assembly

Specifications

Component	Description
Maximum Operating Temperature ^{1,2}	120° C (248° F)
Materials of Construction	Wetted parts 1.4301 (AISI 304 stainless steel)
Surface Finish	E1 Design: ≤ 2.0 micron Ra (≤ 79 Ra microinches)
	BE Design: ≤ 0.4 micron Ra (≤ 16 Ra microinches)
Connections ³	DIN 11851
	Clamp coupling – IDF ferrule
Filter Cartridge Compatibility ⁴	Pall Code 2 or Code 7 single open-end

¹ Maximum operating pressure and temperature ratings are vessel ratings only. Safe operation will also depend on filter element and seal use. For compatibility details, please contact Pall.

² For applications requiring in-line steam sterilization, please contact Pall for suitable housing series to use.

³ For other connection types, please contact Pall.

⁴ Refer to Pall Food and Beverage filter element literature for additional guidelines on use.



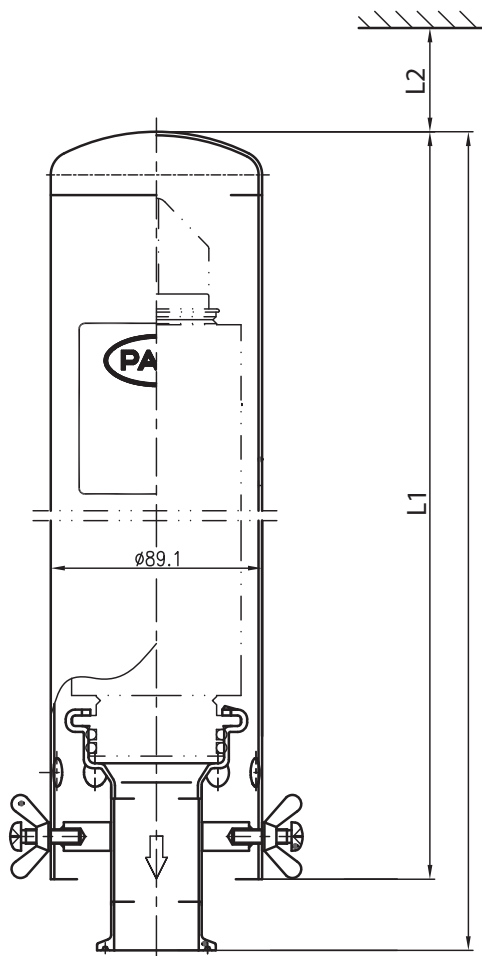
VFS Series Filter Housings

Technical Information

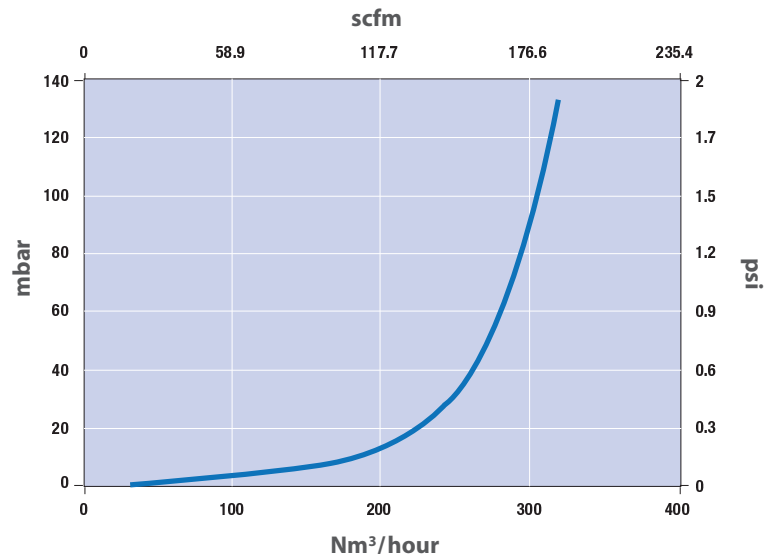
Nominal Dimensions in mm (inches) –

For specific dimensions and other connection types, please contact Pall.

Code	Cartridge height	L1 Bowl height	L2 Clearance height	L3 – Clamp coupling	L3 – DIN connection
05	127 (5)	280 (11.0)	280 (11.0)	310 (12.2)	330 (13.0)
1	254 (10)	400 (15.7)	400 (15.7)	430 (16.9)	400 (15.7)
2	508 (20)	650 (25.6)	650 (25.6)	680 (26.8)	700 (27.6)
3	762 (30)	895 (35.2)	895 (35.2)	925 (36.4)	945 (37.2)



Typical Air Flow Rates / Pressure Drop Characteristics⁵ At Atmospheric Vent Conditions



⁵ The in-line design of the Pall VFS series vent housing ensures exceptionally low pressure drop. Pall recommends using the gas filter cartridge pressure drop when calculating the system pressure drop with maximum gas flow capacity under actual conditions. For proper vent sizing, especially in the case of pressure or vacuum-sensitive vessels, please contact Pall. Installation of appropriate rupture discs is highly recommended.

Volume and Weight

Code	Volume L (US Gal)	Weight kg (lb)	
		L2 – Clamp coupling	L2 – DIN connection
05	1.7 (0.45)	1.8 (3.97)	2.5 (5.51)
1	2.4 (0.63)	2.2 (4.85)	3.0 (6.61)
2	3.8 (1.00)	3.1 (6.83)	3.8 (8.38)
3	5.0 (1.32)	3.8 (8.38)	4.6 (10.14)

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

Part Number: VFS 01 G7

Table 1

Table 2

Table 3

Example Part Number: VFS 011G731E1

Table 1: Cartridge Height

Code	Height
05	127 mm (5")
1	254 mm (10")
2	508 mm (20")
3	762 mm (30")

Table 2: Connection to Vessel

Code	Description
23	Clamp coupling 1.5" – IDF
31	Clamp coupling 2.0" – IDF
NW50	NW50 DIN 11851 (male)
SNW50	NW50 DIN 11851 (female)

Table 3: Surface Finish

Code	Description
E1	≤ 2.0 μm Ra (← 79 Ra μinches)
BE	≤ 0.4 μm Ra (≤ 16 Ra μinches)



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Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to www.pall.com/contact

Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

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