

Description

The HFE filter housings are designed to accommodate the Pall High-Flow Emflon® filter cartridges. Typical applications include bulk nitrogen (N₂) and compressed dry air (CDA) used in the semiconductor, flat panel display and photovoltaic manufacturing processes.

Features & Benefits

- Holds 1 or 3 cartridges
- Available in 508 mm (20 in) or 1,016 mm (40 in) lengths
- Flow rates from 1,000 Nm³/h (588 scfm) to 20,000 Nm³/h (11,770 scfm) and above
- Bolted closure with clamp option
- Lifting davit standard with 3-around housings
- Connections are in-line "T" configuration
- Options to meet high or standard purity specifications



Specifications

Housing	304L or 316L Stainless Steel
Surface Treatment	Electropolished or cleaned for oxygen service ¹
Internal Surface Finish	< 0.25 µm (10 µin) or < 0.63 µm (25 µin) Ra
O-ring Seal	Fluorocarbon (standard), other options available upon request
Connections	80A up to 400A JIS Flange and butt weld connections 2" up to 6" ANSI Flange and butt weld connections Others available upon request
Maximum Operating Pressure	Standard Pressure 1.7 MPa @ 100°C (250 psig @ 212°F) High Pressure Option 2.5 MPa @ 100°C (363 psig @ 212°F)

¹ Housing with Emflon filters are not for use in oxygen service.

Certifications

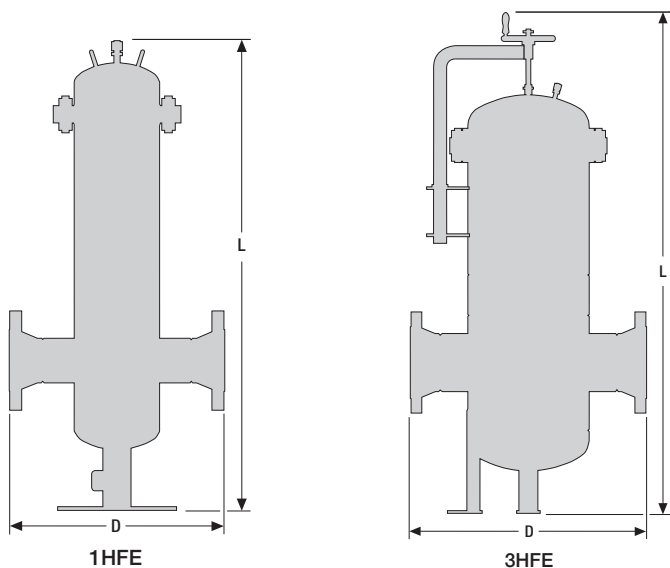
EU Pressure Equipment Directive: Housings have been evaluated for compliance with the European Union's Pressure Equipment Directive 97/28/EC and are CE marked (please refer to CE marked housing options on page 2)

ASME: Housings are designed, manufactured and stamped in accordance with the ASME Code (please refer to ASME code stamped housing options on page 2)

Leak Rating

100% helium leak tested to 10⁻⁶ atm-cm³/s

Dimensions



	Number of Cartridges	Filter Length	Nomina Length (L)	Nomina Diameter (D)
1HFE1	1	508 mm (20 in)	1218 mm (47.9 in)	553 mm (21.8 in)
1HFE2	1	1,016 mm (40 in)	1715 mm (67.5 in)	553 mm (21.8 in)
3HFE1	3	508 mm (20 in)	1913 mm (75.3 in)	889 mm (35.0 in)
3HFE2	3	1,016 mm (40 in)	2410 mm (94.9 in)	889 mm (35.0 in)

Please contact Pall Microelectronics for detailed dimensions on specific housing part numbers.

Part Numbers / Ordering Information

1 HFE **2** **3** - **G** **4** **5** **6** **7** **8** - **9** - **10**

Table 1

Code	Number of Cartridges Per Housing
1	1
3	3

Table 2

Code	Filter Length
2	508 mm (20 in)
4	1,016 mm (40 in)

Table 3

Code	Material
4	304L SST
6	316L SST

Table 4

Code	Interior Finish
Blank	As received
L	0.25 µm (10 µin) R _a
LL	0.63 µm (25 µin) R _a

Table 5

Code	Design Pressure
None	1.7 MPa (250 psig)
H	2.5 MPa (363 psig)

Table 6

Code	Connection Size and Style
2T	2 inch x 0.065 inch wall butt weld tube
3T	3 inch x 0.065 inch wall butt weld tube
3F	3 inch Sch 40 300# ANSI RFWN flange
4T	4 inch x 0.083 inch wall butt weld tube
4F	4 inch Sch 40 300# ANSI RFWN flange
6P	6 inch Sch 40 butt weld pipe
6F	6 inch Sch 40 300# ANSI RFWN flange
8P	8 inch Sch 40 butt weld pipe
8F	8 inch Sch 40 300# ANSI RFWN flange

Table 7

Code	Description
1	CE marked
2	ASME Section VII Div I
3	CE and ASME

Table 8

Code	Option
Blank	Electropolished
C9	O ₂ Cleaned

Table 9

Code	O-ring material
H	FKM-1
H1	PTFE Encapsulated FKM-1

Table 10

Code	Option
Blank	Bolted closure
C	Clamp style closure