

Megaplast™ In-Line PFA Filter Housing

Description

The Megaplast In-Line PFA filter housing is designed to meet the stringent cleanliness and compatibility requirements of ultrapure chemicals. The housing is designed to provide excellent mechanical characteristics without utilizing any metallic components.

- High-purity design
- Low hold-up volume
- Closure threads are on the "dry" side
- Closure nut is free-floating, insuring a good closure seal
- High temperature and pressure rating
- Cleaned and packaged under controlled cleanroom conditions
- Accepts Code 3 filter cartridges
- Unique true in-line flow path
- Small envelope design enables easier installation inside cabinets and benches
- Bowl does not rotate against O-ring seal when securing head

Specifications

Materials¹

- One piece molded PFA head
- One piece molded PFA bowl
- Closure nut: PVDF (PTFE Optional)
- Mounting bolts: stainless steel M6 x 14 mm bolts
- O-ring: FEP encapsulated fluoroelastomer and Kalrez²

Configurations

- Connection Options:³
3/8 in., 1/2 in., 3/4 in., 1 in. flare style (male)
- Code 3 cartridge adaptor (222 double O-ring / flat end)
- Vent / Drain: 1/4 in. flare style
- 127 mm / 5 in., 254 mm / 10 in.



Operating Conditions

- Maximum Operating Pressure:
81 psig @ 86°F / 5.6 bar @ 30°C;
41 psig @ 203°F / 2.8 bar @ 95°C
15 psig @ 302°F / 1.0 bar @ 150°C⁴
(above 95°C with the PTFE collar nut only)

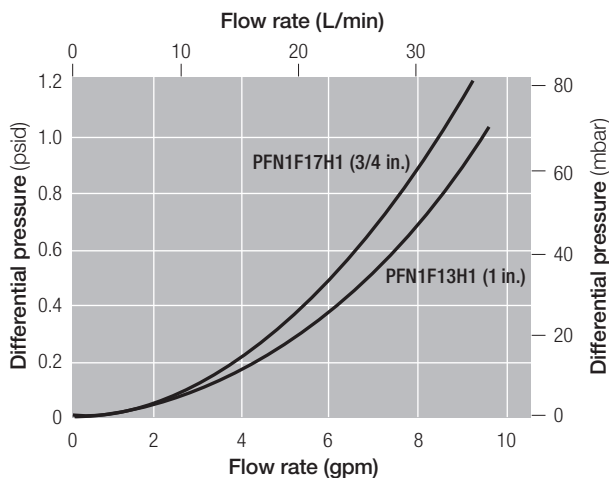
¹ PFOA free fluoropolymer

² Kalrez is a trademark of DuPont Dow Elastomers.

³ Other options may be available as a special order.

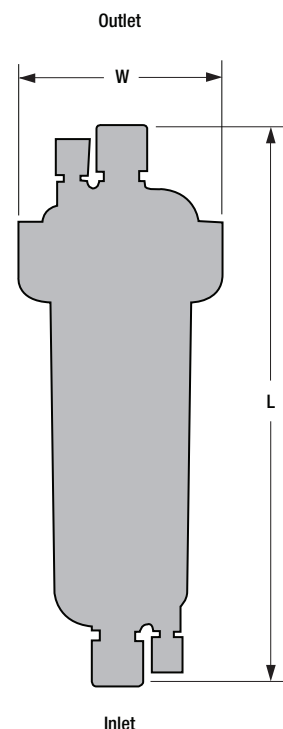
⁴ PTFE collar nut required for temperature above 95°C to 150°C maximum.

Pressure Drop vs. Liquid Flow Rate⁵



⁵ For liquids other than water, multiply the pressure drop by the specific gravity of the fluid.

Dimensions



Collar Nut Option	Width (W) mm / in.
PVDF Collar Nut	140 / 5.5
PTFE Collar Nut	145 / 5.7

Ordering Information⁶

Part Number	Description	Vent Drain	Length (L) (mm / in.)
PFN04F08H1	3/8 in. Male flare style, 127 mm / 5 in. Bowl, FEP Encapsulated Fluoroelastomer O-Ring	1/4 in. Male flare style	242 / 9.5
PFN04F13H1	3/4 in. Male flare style, 127 mm / 5 in. Bowl, FEP Encapsulated Fluoroelastomer O-Ring	1/4 in. Male flare style	242 / 9.5
PFN04F13H11	3/8 in. Male flare style, 127 mm / 5 in. Bowl, Kalrez O-Ring	1/4 in. Male flare style	242 / 9.5
PFN1F09H1	1/2 in. Male flare style, 254 mm / 10 in. Bowl, FEP Encapsulated Fluoroelastomer O-Ring	1/4 in. Male flare style	390 / 15.4
PFN1F13H1	3/4 in. Male flare style, 127 mm / 5 in. Bowl, FEP Encapsulated Fluoroelastomer O-Ring	1/4 in. Male flare style	390 / 15.4
PFN1F13H11	3/4 in. Male flare style, 254 mm / 10 in. Bowl, Kalrez O-Ring	1/4 in. Male flare style	390 / 15.4
PFN1F17H1	1 in. Male flare style, 254 mm / 10 in. Bowl, FEP Encapsulated Fluoroelastomer O-Ring	1/4 in. Male flare style	390 / 15.4
PFN1F17H11	1 in. Male flare style, 254 mm / 10 in. Bowl, Kalrez O-Ring	1/4 in. Male flare style	390 / 15.4

⁶ All styles are available with a PTFE collar nut for high temperature applications. For this option, add a "P" to the part number after PFN to read PFNP.

Unit conversion: 1 bar = 100 kilopascals



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