



CHEMGARD™ IN-LINE HOUSINGS

Metal-free housings for high-purity chemical and water applications

Overview

Developed from the Mykrolis® microcontamination control technologies, Entegris' Chemgard™ in-line filter housings, constructed of Teflon® fluoropolymer resin, are designed to process fluids used to manufacture contamination-sensitive semiconductor devices. The housing's durable construction, leak-proof design, low profile and overall design for efficient integration into current processes ensures that it will last for the lifetime of the fab with minimal cost of ownership.

Noncontaminating, Metal-free

Chemgard in-line filter housings are designed and manufactured with no metal parts, threads or components; no metal parts are required for installation. The use of nonmetal parts eliminates the risk of ionic contaminants.

Superior Sealing Mechanism

Chemgard in-line filter housings utilize an external o-ring and nonrotating bowl that ensure a leakproof, torsion-free seal. The locking ring design prevents contamination from the o-ring from entering your process. The leakproof design provides reliable operation to ensure minimal downtime. Filter installation is easy.

Low Cost of Ownership

The unique o-ring seal and closure ensure integrity and safety. The housing design provides extremely low hold up volume with minimal installation space.



Versatile Installation

Chemgard in-line filter housings are available with Flaretek® compatible fittings and inlet/outlet connections for simple and quick installation and removal. The drain and vent locations allow versatility during installation.

Ideal for Cleanroom Use

The smooth housing surfaces are ideal for cleanroom conditions where low particle contamination is essential. Each housing is double-bagged to ensure contamination-free installation.

Features	Benefits
External o-ring and nonrotating bowl	Enables faster filter installation in a truly leakproof, torsion-free seal to ensure maximum system uptime and lowest cost of ownership.
Small footprint, in-line design	Minimal footprint in-line design provides space savings.
Low hold up volume	Reduces chemical waste during cartridge changeout.
Superior cleanliness and durability with Teflon fluoropolymer construction	Ideal for use in high-purity chemical applications. Ensures longest life in even the most demanding applications.

Specifications

Materials:	PFA head and bowl	Teflon fluoropolymer resin
	O-ring	Teflon fluoropolymer encapsulated Viton® fluoroelastomer (TEV)
	Locking ring	PVDF (nonwetted part)
Connections:	Cartridge	Code 0, 2-222 o-rings
	Inlet/outlet	3/4" or 1" Flaretek fittings
	Vent and drain	1/4" Flaretek fittings
Maximum operating conditions:	Maximum operating pressure	0.3 MPa (3 bar, 43 PSID) @ 100°C
		0.75 MPa (7.5 bar, 110 PSID) @ 25°C
	Maximum operating temperature	100°C (212°F)
Dimensions:	Length	367 mm (14.43")
	Width	146 mm (5.74")

Ordering Information

Part Number	Description	Qty
YY46 N02 OK	Chemgard in-line housing	
YY46 B1 F0F	Chemgard in-line bowl, 3/4" flare inlet, 1/4" flare vent	
YY46 H1 F0F	Chemgard in-line head, 3/4" flare inlet, 1/4" flare vent	
YY46 B1 F4F	Chemgard in-line bowl, 1" flare inlet, 1/4" flare vent	
YY46 H1 F4F	Chemgard in-line head, 1" flare inlet, 1/4" flare vent	
Accessories		
YY46 000 04	Chemlock®/Chemgard integrated housing wrench	
YY55 000 05	PFA plugs, 1/4" NPTM	4/pk
YY46 101 02	O-rings, TEV, 2-344	3/pk
YY46 101 08	O-rings, Kalrez® perfluorinated elastomer, 2-344	1

For More Information

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