



CHEMGARD™ PVDF HOUSINGS

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



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

Overview

Developed from the Mykrolis® microcontamination control technologies, Entegris' Chemgard™ PVDF filter housings are designed to meet the high-purity standard for process fluids used to manufacture contamination-sensitive semiconductor devices, LCDs and other critical components. The housing's PVDF construction is durable and economical.

Noncontaminating, Metal-free

Chemgard PVDF housings are designed and manufactured with no metal parts, threads or components; no metal parts are required for installation. The use of nonmetal parts virtually eliminates the risk of ionic contamination.

Superior Sealing Mechanism

Chemgard PVDF housings utilize an external o-ring and nonrotating bowl that ensure a leak-proof, torsion-free seal. The locking ring design prevents potential contamination from the o-ring from entering into 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.

Accommodates a Wide Range of Filters

Chemgard PVDF housings are offered in 10", 12" and 20" sizes to accommodate a wide variety of Entegris' and competitors' filters.

Versatile Installation

Chemgard PVDF housings are available with butt weld tube and NPTF inlet/outlet connections. 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
Available with butt weld and NPTF inlet/outlet connections	Allows versatility during installation.
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.
PVDF construction	Durable and economical housing that can withstand high-pressure applications.

Specifications

Materials:	Head and bowl	PVDF
	Locking ring	PVDF
	Plugs	PFA
	O-ring	Viton® fluoroelastomer (2-345)
Connections:	Cartridge	Code 0, 2-222 o-rings; optional 2-222 to 2-118 adapter available
	Inlet/outlet	3/4" NPTF, 3/4" or 1" butt weld tube
	Vent and drain	1/4" NPTF or 1/4" butt weld pipe
Maximum operating conditions:	Maximum operating pressure	0.3 MPa (3 bar, 43 PSI) @ 100°C
		1.0 MPa (10 bar, 145 PSI) @ 25°C
	Maximum operating temperature	100°C (212°F)

Dimensions

Type	Length	Width (Inlet to Outlet)
10" YY41 101 OA	169 mm (6.65")	344 mm (13.54")
12" YY41 121 OA	409 mm (16.10")	169 mm (6.65")
20" YY41 221 OA	594 mm (23.38")	169 mm (6.65")

Ordering Information

Part Number			Chemgard PVDF Housing with
10"	12" Universal	20" Universal	
YY41 101 0A(J)	YY41 121 0A(J)	YY41 221 0A	3/4" NPTF fitting 1/4" NPTF vent/drain

Replacement Parts

T-LINE HOUSING HEADS

Part Number	Vent Fitting	Inlet/Outlet Fitting
YY41 HA2 0A	1/4" NPTF	3/4" NPTF
YY41 HB2 0B	1/4" BW	3/4" BW
YY41 HB2 0L	1/4" BW	3/4" BW long
YY41 HB2 4B	1/4" BW	1" BW

HOUSING BOWLS

Part Number	Drain Fitting
10" Bowl Length	
YY41 101 70	1/4" BW
YY41 101 60	1/4" NPTF
12" Universal Bowl Length	
YY41 121 70	1/4" BW
YY41 121 60	1/4" NPTF
20" Universal Bowl Length	
YY41 221 70	1/4" BW
YY41 221 60	1/4" NPTF

Accessories

Part Number	Description	Qty
YY41 101 04	O-rings, Viton® 2-345	3/pk
YY41 101 06	O-rings, EPR 2-345	3/pk
YY45 101 40	10" cartridge adapter	2/pk
YY46 221 90	20" cartridge adapter	1
YY45 101 80	O-ring adapter, 2-222 to 2-118 (for use with small diameter filters)	2/pk
YY55 000 05	Plugs, PFA 1/4" NPT	4/pk
YY36 101 80	Mounting clamp and bolts	1
YY46 101 90	Mounting bracket, PVDF	1
YY46 000 04	Chemlock®/Chemgard integrated wrench	1

Note: Chemgard housings include vent and drain plugs and a cartridge adapter for the 12" and 20" versions. Entegris recommends the use of a Chemgard housing wrench to ensure proper sealing of the housing.

For More Information

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit www.entegris.com and select "Regional Customer Service Centers" for the center nearest you.

Terms and Conditions of Sale

All purchases are subject to Entegris' "Terms and Conditions of Sale." To view and print this information, visit Entegris' website at www.entegris.com and select the Legal Notices link from the footer found on the home page.

Entegris®, Mykrolis®, Chemlock® and Chemgard™ are trademarks of Entegris, Inc. Viton® is a registered trademark of DuPont Dow Elastomers.

ENTEGRIS, INC.

Corporate Headquarters / 3500 Lyman Boulevard / Chaska, Minnesota 55318 USA
Customer Service Tel. 952-556-4181 / Customer Service Fax 952-556-8022
www.entegris.com