



Chemgard[™] PVDF Housings

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



*Available in a variety of fittings.

Delivering Quality Performance

Mykrolis's Chemgard PVDF filter housings are designed to meet the high purity standard for process fluids used to manufacture contamination-sensitive semiconductor devices. The housing's PVDF construction is durable and economical.

Non-contaminating, 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 non-metal parts eliminates the risk of ionic contamination.

Superior Sealing Mechanism

Chemgard PVDF housings utilize an external O-ring and non-rotating bowl that ensure a leak-proof, torsion-free seal. The locking ring design prevents contamination from the O-ring from entering into your process. The leak-proof 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 holdup volume with minimal installation space.

Accommodates a Wide Range of Filters

Chemgard PVDF housings are offered in 10-, 12-, and 20-inch sizes to accommodate a wide variety of Mykrolis's and competitor's 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.

Product Features

Available with butt weld and NPTF inlet/outlet connections

External O-ring and non-rotating bowl

PVDF construction

Product Benefits

Allow versatility during installation.

Enables faster filter installation in a truly leak-proof, torsion-free seal to ensure maximum system uptime and lowest cost of ownership.

Durable and economical housing that can withstand high pressure applications.

Chemgard PVDF Housings - Ordering Information

Ordering Information

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

Chemgard PVDF Housing with	Part #		
	10"	12" Universal	20" Universal
3/4" NPTF fitting, 1/4" NPTF vent/drain	YY41 101 0A	YY41 121 0A	YY41 221 0A
3/4" Butt weld pipe fitting, 1/4" Butt weld vent/drain	YY41 101 0B	YY41 121 0B	YY41 221 0B
3/4" Long Butt weld pipe fitting, 1/4" Butt weld vent/drain	YY41 101 0L	YY41 121 0L	YY41 221 0L
3/4" Long Butt weld pipe fitting, 3/8" Butt weld vent 1/4" NPT bowl drain	YY41 101 AL	-	-
1" Butt weld pipe fitting, 3/8" Butt weld vent/drain	YY41 101 4B	YY41 121 4B	YY41 221 4B

Replacement Parts

Type	Length	Width (inlet to outlet)
10"	YY41 101 0A	344 mm
	YY41 101 0B	230 mm
	YY41 101 0L	366 mm
	YY41 101 AL	
	YY41 101 4B	230 mm
12"	YY41 121 0A	169 mm
	YY41 121 0B	230 mm
	YY41 121 0L	366 mm
	YY41 121 4B	
	YY41 221 0A	169 mm
20"	YY41 221 0B	230 mm
	YY41 221 0L	366 mm
	YY41 221 4B	
	YY41 221 4B	230 mm

Housing Bowls

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

Housing Heads	Inlet/Outlet Fittings	Vent Fitting	Housing Head Part #
T-Line Heads	3/4" NPTF	1/4" NPTF	YY41 HA2 0A
	3/4" BW	1/4" BW	YY41 HB2 0B
	3/4" BW long	1/4" BW	YY41 HB2 0L
	1" BW	1/4" BW	YY41 HB2 4B

Accessories

	Designation	Quantity	Part #
O-rings	Viton 2-345	3/pk	YY41 101 04
	EPR 2-345	3/pk	YY41 101 06
Length Adapter	10" PFA cartridge adapter	2/pk	YY4510140
Length Adapter	20" cartridge adapter	1/pk	YY46 221 90
O-Ring Adapter	2-222 to 2-118 (for use with small diameter filters)	2/pk	YY45 101 80
Plugs	PFA 1/4" NPT	4/pk	YY55 000 05
Clamp	Mounting clamp and bolts	1/pk	YY36 101 80
Mounting brackets	PVDF	1/pk	YY46 101 90
Wrench	Chemlock™ / Chemgard wrench and O-ring extractor	1/pk	YY46 000 03

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



Consult our applications specialists with any questions.
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