



CHEMLOCK® PFA HOUSING

Less tool space, less handling, less hassle

Overview

Entegris' Chemlock® PFA housing offers a space-saving solution like no other cartridge filter housing available today. This revolutionary housing locks the cartridge into the bowl, allowing the bowl and cartridge to be removed as a single unit.

Easier Cartridge Changeout

Cartridge changeout has never been easier. The Chemlock bowl is used as a tool when installing and removing a cartridge. After the cartridge is inserted into the bowl, a ¼-turn locks the cartridge into place. The Chemlock bowl and cartridge filter can be installed into a Chemlock head, quickly and easily. By turning the locking ring, the cartridge is pushed vertically into the housing head, ensuring perfect alignment and double o-ring engagement every time. Operators do not have to touch the cartridge body during cartridge changeout, which minimizes exposure to chemicals and limits the possibility of process contamination.

Reduced Footprint

The Chemlock PFA housing has fully molded fittings in several fitting types and sizes, in an extremely compact housing head design. The Chemlock housing is offered in a universal (nominal 10") and 20" length to accommodate a wide variety of cartridges.

Improved Reliability

The cartridge locking feature prevents the cartridge from falling out or being pushed out by back pressure. Vertical installation ensures that o-rings will not roll.



Minimal Space Requirements

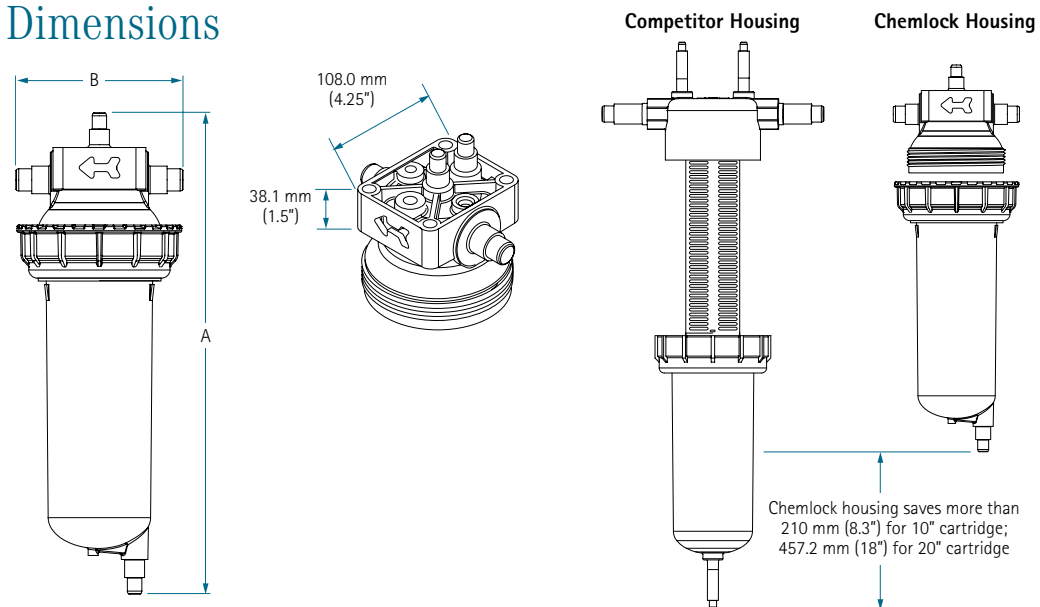
The compact design provides a vertical space-saving advantage for cartridge changeout. The Chemlock housing saves a minimum of 8" of vertical space over traditional housing installations. Cartridges can be removed with minimal clearance. Standard housings require dedicated space in the filtration system to lower a housing bowl below the cartridge. The fully molded Chemlock head also has the smallest footprint available anywhere.

Features	Benefits
Smaller footprint, "minimal-clearance" cartridge/bowl design	Tremendous tool space savings over traditional housings; requires less space for cartridge changeout.
Cartridge locks into bowl with simple ¼-turn twist	Lock-in cartridge reduces required overall footprint and cartridge changeout space. Turning the bowl locking ring perfectly seats the cartridge in the head with double o-ring engagement and straight alignment every time.
Compact head with molded-on fittings	Minimal footprint with fittings and configurations to ensure compatibility for most filtration applications.
Easier cartridge changeout	Provides virtually hands-free cartridge changeout for maximum safety and cleanliness. Allows quick installation and minimizes downtime while limiting the handling of hazardous chemicals during installation and disposal process, promoting a safer workplace.

Specifications

Materials:	Head, molded-on fittings, bowl, plugs	PFA 440 HP or equivalent
	O-ring	E-FKM
	Locking ring (nonwetted part)	PVDF or GFPP (glass-filled polypropylene)
	Mounting hardware – nuts and bolts (nonwetted parts)	PVDF
Fluid connections:	See Ordering Information	
Cartridge connections:	Code 0 (dual 2-222 o-rings)	
Operating conditions:	Maximum inlet pressure	0.3 MPa (3.0 bar, 43 psi) @ 100°C (212°F)
		0.75 MPa (7.5 bar, 110 psi) @ 25°C (77°F)
	Maximum operating temperature	100°C (212°F)

Dimensions



Inlet/Outlet	Vent/Drain	Dimensions		
		B	A (11" Housing)	A (20" Housing)
3/4" Flaretek®	1/4" Flaretek	156 mm (6.2")	450 mm (17.7")	696 mm (27.4")
3/4" Flaretek	1/2" Flaretek	156 mm (6.2")	434 mm (17.1")	681 mm (26.8")
1" Flaretek	1/2" Flaretek	168 mm (6.6")	434 mm (17.1")	681 mm (26.8")
3/4" pipe	1/4" pipe	201 mm (7.9")	416 mm (16.4")	663 mm (26.1")
3/4" pipe	—	201 mm (7.9")	398 mm (15.7")	644 mm (25.4")
3/4" NPT	1/4" NPT	134 mm (5.3")	378 mm (15.0")	622 mm (24.5")
3/4" Super*	1/2" Super*	178 mm (7.0")	431 mm (17.0")	683 mm (26.9")
1" Super*	1/2" Super*	156 mm (6.1")	431 mm (17.0")	683 mm (26.9")
3/4" S300**	1/2" S300**	170 mm (6.7")	431 mm (17.0")	678 mm (26.7")
1" S300**	1/2" S300**	152 mm (6.0")	431 mm (17.0")	678 mm (26.7")
1" S300**	1/4" S300**	170 mm (6.7")	438 mm (17.2")	686 mm (27.0")
3/4" S300**	1/4" S300**	152 mm (6.0")	438 mm (17.2")	686 mm (27.0")
1" Primelock™	1/4" Primelock	222 mm (8.7")	444 mm (17.5")	694 mm (27.3")
3/4" Primelock	1/4" Primelock	212 mm (8.4")	444 mm (17.5")	694 mm (27.3")

*Super Type Pillar® fittings

**Super 300 Type Pillar fittings

Ordering Information

Chemlock PFA Heads, Bowls and Kits

T-LINE HOUSING HEADS PART NUMBER

	Inlet/Outlet Fitting	Vent/Drain Fitting
YY56 HL 10L	3/4" Primelock	1/4" Primelock
YY56 HL 14L	1" Primelock	1/4" Primelock
YY56 HF 10F	3/4" Flaretek	1/4" Flaretek
YY56 HF 20F	3/4" Flaretek	1/2" Flaretek
YY56 HF 24F	1" Flaretek	1/2" Flaretek
YY56 HP 103	3/4" S300**	1/4" S300**
YY56 HP 143	1" S300**	1/4" S300**
YY56 HP 203	3/4" S300**	1/2" S300**
YY56 HP 243	1" S300**	1/2" S300**
YY56 HP 20P	3/4" Super*	1/2" Super*
YY56 HP 24P	1" Super*	1/2" Super*
YY56 HF 20A	3/4" FNPT	1/4" FNPT
YY56 HB 20B	3/4" pipe	1/4" pipe
YY56 HO 00B	3/4" pipe	—

HOUSING BOWLS PART NUMBER

11" Bowl Length		20" Bowl Length		30" Bowl Length	
Locking Ring Material					Vent/Drain Fitting
PVDF	GFPP	PVDF	GFPP	PVDF	
YY56 11 160	—	YY56 20 160	—	—	1/4" FNPT
YY56 11 170	—	YY56 20 170	—	—	1/4" pipe
YY56 11 180	YY56 11 180GF	YY56 20 180	YY56 20 180GF	—	1/4" Flaretek
YY56 11 280	YY56 11 280GF	YY56 20 280	YY56 20 280GF	YY56 30 280	1/2" Flaretek
YY56 11 250	YY56 11 250GF	YY56 20 250	YY56 20 250GF	—	1/2" Super*
YY56 11 253	YY56 11 253GF	YY56 20 253	YY56 20 253GF	—	1/2" S300**
YY56 11 153	YY56 11 153GF	—	—	—	1/4" S300**
YY56 11 190	YY56 11 190GF	YY56 20 190	YY56 20 190GF	—	1/4" PrimeLock

HOUSING KITS (BOWL + HEAD) PART NUMBER

11" Bowl Length		20" Bowl Length		Inlet/Outlet Fitting	Vent/Drain Fitting
Locking Ring Material					
PVDF	GFPP	PVDF	GFPP		
YY56 11 20A	—	YY56 20 10NS	—	3/4" FNPT	1/4" FNPT
YY56 11 20B	—	YY56 20 20B	—	3/4" pipe	1/4" pipe
YY56 11 20E	YY56 11 G0E	YY56 20 20E	YY56 20 G0E	3/4" Flaretek	1/4" Flaretek
YY56 11 20F	YY56 11 G0F	YY56 20 20F	YY56 20 G0F	3/4" Flaretek	1/2" Flaretek
YY56 11 21F	YY56 11 G1F	YY56 20 21F	YY56 20 G1F	1" Flaretek	1/2" Flaretek
YY56 11 20P	YY56 11 G0P	YY56 20 20P	YY56 20 G0P	3/4" Super*	1/2" Super*
YY56 11 203	YY56 11 G03	YY56 20 203	YY56 20 G03	3/4" S300**	1/2" S300*
YY56 11 213	YY56 11 G13	YY56 20 213	YY56 20 G13	1" S300**	1/2" S300**

Accessories Part Number

Part No.	Description	Quantity/Pkg.
YY56 101 02	Spare o-ring, 2-344, E-FKM	3
YY46 101 08	Spare o-ring, 2-344, Kalrez® 4079 perfluoroelastomer resin	1
YY56 101 0RJ	Spare o-ring, 2-344 Kalrez 6375 perfluoroelastomer resin	1
P01002J	Spare o-ring, 2-344, Viton® fluoropolymer resin	1
YY35 10 103	Spare o-ring, 2-344 EP	5
YY46 000 04	Chemlock/Chemgard™ integrated housing wrench	1
YY56 000 10	Spare mounting hardware kit: (4) PVDF 3/8" - 16 × 63.5 mm (2.5") hex head cap screw (4) PVDF nuts 3/8" - 16	1 kit
YY46 101 90	L-mounting bracket	1

*Super Type Pillar fittings **Super 300 Type Pillar fittings

Note: See the last page of this data sheet for locking ring compatibility and warning.

Compatibility

Part Number	O-ring	Torque (N•m)	Temp (°C)	Solvents	Acid	Base	Oxidizers	Notes
YY56 10 102	E-FKM (TEV)	45	<100	C	A	C	A	Teflon® encapsulation provides better cleanliness and compatibility; however, due to diffusion, avoid polar solvents, amines and anhydrous ammonia
YY46 10 108	Kalrez 4079	28.5	<100	A	A	A	B	Excellent; avoid amines, steam and ethylene oxide
YY56 10 10RJ	Kalrez 6375	28.5	<100	A	A	A	A	Excellent compatibility
P01002J	Viton	28.5	<100	D	A	D	B	Avoid polar solvents, amines and anhydrous ammonia
YY35 10 103	EP	28.5	<60	C	B	B	C	Good resistance to mild acids, detergents, alkalis; fair to poor resistance to solvents

Locking Ring	Organic Solvents	Acid	Base	Oxidizers	Notes
GFPP	A	A	A	B	For bases (TMAH, NH ₄ OH...) and most organic solvents (NMP, cyclohexane...)
PVDF	D	A	D	A	Standard locking ring — for acidic and oxidizing (H ₂ O ₂) chemicals and water

A = Good; B = Fair; C = Poor; D = Not recommended

The distinction above is a general guideline based on the relative compatibility in common chemicals. For product recommendations in specific chemicals or if you can't find the configuration you need, please contact your customer representative.

WARNING! Using a locking ring that is not fully compatible with your chemical may result in a seriously hazardous condition due to sudden breakage of the locking ring and chemical exposure.

Chemlock cartridges are compatible with the Chemlock PFA and Chemlock PP housings. Cartridges can be ordered by adding either a "K" or a "Y" to the end of a standard cartridge catalog number depending on the product family. Standard cartridges (without the key) are still available under their usual catalog number.

Any standard 10" Code 0 cartridge can be used with the universal Chemlock PFA housing. Only Chemlock cartridges can utilize the cartridge locking mechanism. Use of a Chemlock key or any other key with a third party cartridge shall void the warranty of the housing and may infringe one or more of Entegris' pending or issued U.S. and foreign patents. Such patents and warranties do not apply to use of third party cartridges without any key.

Refer to individual cartridge datasheets on www.entegris.com for cartridge ordering information.

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 the Customer Service link for the center nearest you.

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Installation*



* IMPORTANT: To ensure a leak-free seal, it is indispensable to follow the instructions from the Chemlock installation manual. To view an electronic file of this manual, go to www.entegris.com.

Retrofitting

PFA Chemlock bowls are easily retrofitted to Chemgard T-line housings. They are designed to fit with Entegris' T-line PFA Chemgard heads (Chemlock bowls are not compatible with U-line and in-line Chemgard housings).

An installed Chemgard housing may be retrofitted with a Chemlock bowl and cartridge.

Terms and Conditions of Sale

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

**CHEMLOCK® PFA HOUSINGS***Installation and use manual*

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Introduction

Entegris' Chemlock® PFA housing offers a space-saving solution like no other cartridge filter housing available today. This revolutionary housing locks the cartridge into the bowl, allowing the bowl and cartridge to be removed as a single unit.

Safety

Special considerations and precautions are included in the manual, as described below. Contact Entegris with any questions regarding the safe and proper use of your equipment.



DANGER! Indicates a hazardous situation that, if not avoided, could result in death or serious injury.



WARNING: Indicates a potential hazardous situation that, if not avoided, could result in death or serious injury as well as irreparable damage to the equipment.



CAUTION: Indicates a potential hazardous situation that, if not avoided, could result in minor to moderate injury as well as minor to moderate damage to the equipment.



WARNING: Only technically qualified personnel should install the housing.



WARNING: CHEMICAL HAZARDS
DOUBLE-CONTAINMENT is required when used with toxic and hazardous chemicals. All filter housings, filters and other pressurized vessels must be double-contained to prevent serious personal injury.

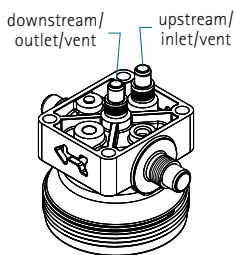
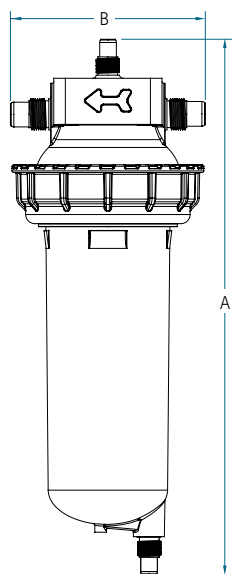


SAFETY CLOTHING, eye protection and safety apparatus appropriate for the liquids in use must be worn during component changeout and startup. Perform all operations with standard liquid handling procedures in accordance with all local codes for safety and ventilation.

Facility Requirements

Housing should be plumbed with ability to isolate both upstream and downstream flows as required for filter changeout.

Dimensions



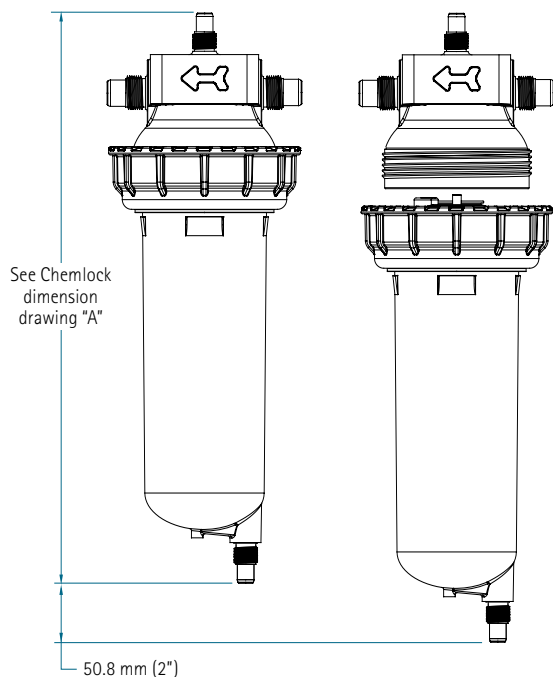
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* Super Type Pillar® Fittings

** Super 300 Type Pillar Fitting

Minimum Space Requirements

A minimum installation clearance of dimension "A" plus an additional 50.8 mm (2.0") is required for removal and installation of Chemlock cartridges.



Cartridge Installation

Mounting Procedure

Components are double-wrapped for cleanroom use. Handle components according to your cleanroom procedures.

Suggested Mounting Method #1: Customer-supplied Mounting Plate

1. Use supplied screws and nuts to secure the housing head to your equipment or facility mounting bracket (Figure 1).
2. The Chemlock housing can be installed either bowl **UP** or bowl **DOWN**.

Mounting Bracket Template

Use Figure 2 as a guide for drilling holes into a customer-supplied mounting plate, when mounting the Chemlock head.

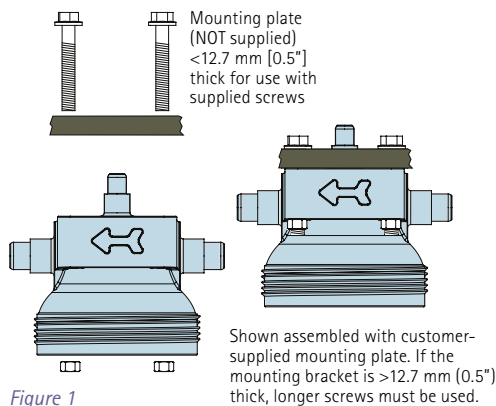


Figure 1

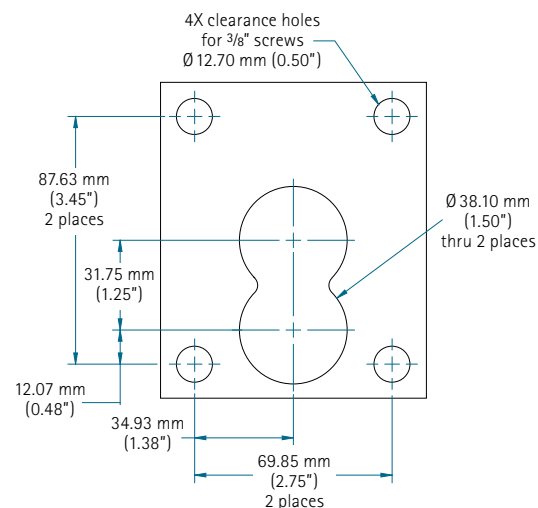
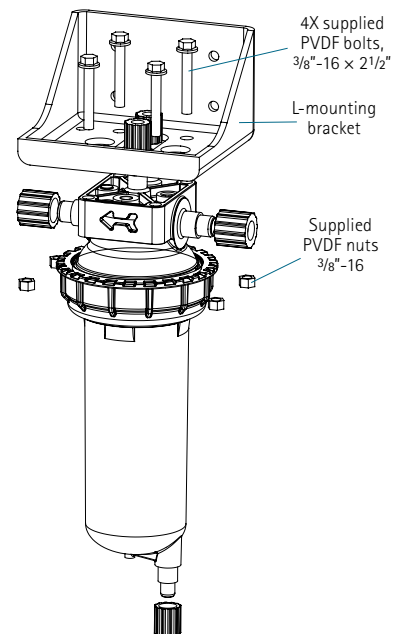
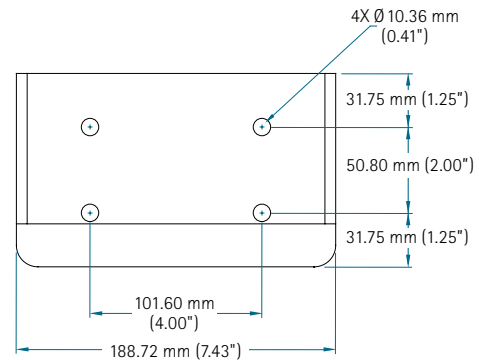


Figure 2

Suggested Mounting Method #2: L-Bracket Mounting

1. Use supplied screws and nuts to secure the housing head to the L-Bracket #YY46 10 190, available from Entegris. The Chemlock housing can be installed either bowl **UP** or bowl **DOWN**.



Install the O-ring

CAUTION: Replace the o-ring every time the housing is opened.

1. Verify that the o-ring is installed in the housing.
If not, properly seat an o-ring into the housing bowl, as described below.
2. Prewet the housing o-ring with a fluid compatible with your process chemical (such as DI water, IPA, etc.) to aid in installation and ensure a proper seal.
3. For best results, heat the o-ring to 60°C prior to installation. Heat the o-ring by immersing in hot water for 2 minutes, or by placing the o-ring 25 mm (1") below a 250-watt heat lamp for 1 minute. Install the o-ring while it is still warm.
4. For all housings, handle the o-ring with care. Insert the o-ring into the groove and push the o-ring securely and evenly in place. **DO NOT** roll or twist the o-ring.
5. To remove the old o-ring, slide the hook end of the housing wrench tool under the o-ring, then slide the tool around the bowl.

CAUTION: Use caution when removing the o-ring. Contacting the o-ring seal areas with the removal tool can damage the sealing surface.

To view a video showing correct procedures for o-ring replacement and housing installation, go to www.entebris.com in the Chemlock Housing section.



Installation of the o-ring onto the Chemlock housing using clean gloves to minimize possibility of contamination.



Removal of o-ring from Chemlock housing using the hook on the housing wrench.

Install the Filter

Install a filter in the housing bowl and tighten the bowl to the housing head:

1. Cut open the bottom of the bag only.



2. To ensure cleanliness, hold the cartridge by the bag, and insert it into the housing bowl.



3. Using the end of the bag, the two finger tabs on the key can be used to turn the cartridge 1/4 turn; then lock the cartridge in place.

NOTE: Lock the cartridge in place by turning it clockwise.



4. Attach and tighten the bowl to the housing head. The housing can be mounted in either a bowl **Up** or bowl **Down** position.



5. Adjust the torque setting to 45 N•m if using an E-FKM o-ring. For other o-ring types, 28.5 N•m.



Once set, twist the lever at the end of the wrench clockwise to **LOCK** the setting in place.



6. Tighten the housing ring until the torque wrench clicks. Stop and retighten until another click is heard.



7. Wait 5 minutes before continuing. After waiting 5 minutes, retighten the locking ring according to the previous step (#6.) You may see the locking ring move again. This is normal.
8. Reset the torque setting to 10 N•m for storage.



Housing Integrity Testing

Prior to usage, the piping system should be tested to check for leaks. Follow your facility leak checking protocols.

WARNING: IF SYSTEM IS SHUT DOWN, IT IS NECESSARY TO RETIGHTEN THE HOUSING (see previous steps) IN ORDER TO PREVENT LEAKS.

CAUTION: DO NOT tighten or adjust the plumbing at elevated temperatures (>100°C) as you may overtighten the fittings and create excessive stress and leakage either at elevated temperatures or during changes in system temperature.

NOTE: Yearly calibration of the wrench is recommended.

Include periodic seal integrity testing in your system's preventative maintenance schedule.

Cartridge Removal

! WARNING: Wear chemically-resistant garments and eye protection during cartridge changeout and startup.

1. Isolate and drain the housing. If necessary, allow the housing to cool to a workable temperature.
2. Use the housing wrench to loosen the housing ring.



3. Remove the bowl from the head.



4. Turn the cartridge key to unlock the cartridge from the bowl.



5. Lift the cartridge out of the bowl or tip the bowl to gently slide the cartridge out of the bowl.



To view a video showing correct procedures for o-ring replacement and housing installation, go to www.entegris.com in the Chemlock Housing section.

Ordering Information

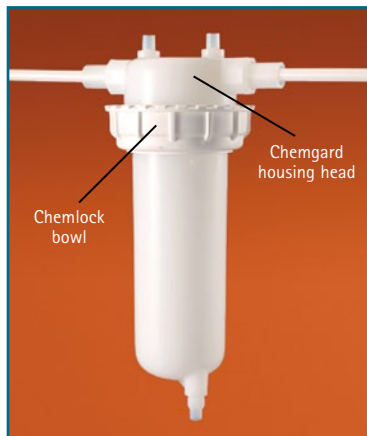
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PFA Chemlock bowls are designed to fit with Entegris T-line PFA Chemgard heads. An installed Chemgard housing may be retrofitted with a Chemlock bowl and cartridge.



Product Warranties

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Pillar is a registered trademark of Nippon Pillar Packing Company, Inc.

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Reduced Footprint

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Improved Reliability

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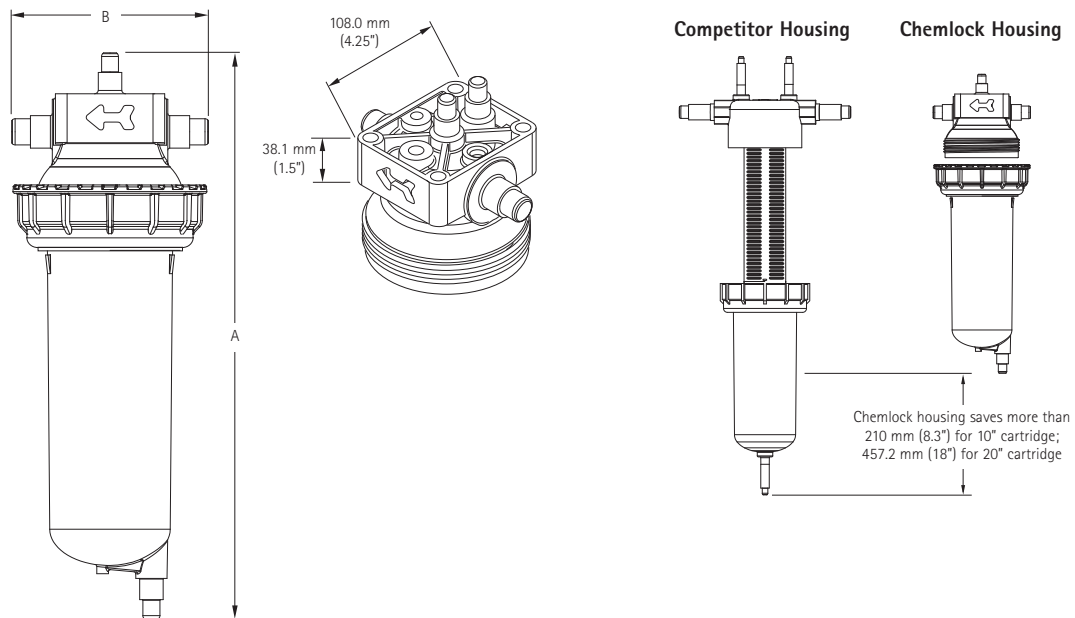
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Features	Benefits
Smaller footprint, "minimal-clearance" cartridge/bowl design	Tremendous tool space savings over traditional housings; requires less space for cartridge changeout.
Cartridge locks into bowl with simple ¼ turn twist	Lock-in cartridge reduces required overall footprint and cartridge changeout space. Turning the bowl locking ring perfectly seats the cartridge in the head with double o-ring engagement and straight alignment every time.
Compact head with molded-on fittings	Minimal footprint with fittings and configurations to ensure compatibility for most filtration applications.
Easier cartridge changeout	Provides virtually hands-free cartridge changeout for maximum safety and cleanliness. Allows quick installation and minimizes downtime while limiting the handling of hazardous chemicals during installation and disposal process, promoting a safer workplace.

Specifications

Materials:	Head, molded-on fittings, bowl, plugs	Teflon® fluoropolymer PFA 440 HP or equivalent
	O-ring	Teflon fluoropolymer encapsulated Viton® fluoroelastomer o-ring (TEV)
	Locking ring	PVDF (nonwetted part)
	Mounting hardware (nuts and bolts)	PVDF (nonwetted parts)
Fluid connections:	See Ordering Information.	
Cartridge connections:	Code 0, 2-222 o-ring	
Operating conditions:	Maximum inlet pressure	0.3 MPa (3.0 bar, 43 PSI) @ 100°C
		0.75 MPa (7.5 bar, 110 PSI) @ 25°C
	Maximum operating temperature	100°C (212°F)

Dimensions



Inlet/Outlet	Vent/Drain	Dimensions		
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3/4" Super*	1/2" Super*	178 mm (7.0")	431 mm (17.0")	683 mm (26.9")
1" Super*	1/2" Super*	156 mm (6.1")	431 mm (17.0")	683 mm (26.9")
3/4" S300**	1/2" S300**	170 mm (6.7")	431 mm (17.0")	678 mm (26.7")

*Super Type Pillar® fittings

**Super 300 Type Pillar fittings

Ordering Information

Chemlock PFA Heads, Bowls and Kits

T-LINE HOUSING HEADS

Part Number	Inlet/Outlet Fitting	Vent/Drain Fitting
YY56 HP 203	3/4" S300 Type Pillar	1/2" S300 Type Pillar
YY56 HP 20P	3/4" Super Type Pillar	1/2" Super Type Pillar
YY56 HP 24P	1" Super Type Pillar	1/2" Super Type Pillar
YY56 HB 20B	3/4" pipe	1/4" pipe
YY56 HO 00B	3/4" pipe	—
YY56 HF 20F	3/4" Flaretek	1/2" Flaretek
YY56 HF 24F	1" Flaretek	1/2" Flaretek
YY56 HA 20A	3/4" FNPT	1/4" FNPT

HOUSING BOWLS

Part Number		
11" Bowl Length	20" Bowl Length	Vent/Drain Fitting
YY56 11 160	YY56 20 160	1/4" FNPT
YY56 11 170	YY56 20 170	1/4" pipe
YY56 11 180	YY56 20 180	1/4" Flaretek
YY56 11 280	YY56 20 280	1/2" Flaretek
YY56 11 250	YY56 20 250	1/2" Super Type Pillar
YY56 11 253	YY56 20 253	1/2" S300 Type Pillar

HOUSING KITS (BOWLS AND HEADS)

Part Number			
11" Bowl Length	20" Bowl Length	Inlet/Outlet Fitting	Vent/Drain Fitting
YY56 11 20A	YY56 20 20A	3/4" FNPT	1/4" FNPT
YY56 11 20B	YY56 20 20B	3/4" pipe	1/4" pipe
YY56 11 20F	YY56 20 20F	3/4" Flaretek	1/2" Flaretek
YY56 11 21F	YY56 20 21F	1" Flaretek	1/2" Flaretek
YY56 11 20P	YY56 20 20P	3/4" Super Type Pillar	1/2" Super Type Pillar
YY56 11 203	YY56 20 203	3/4" Super 300 Type Pillar	1/2" Super 300 Type Pillar

Accessories

Part Number	Description	Quantity/Pkg.
YY46 000 04	Chemlock/Chemgard™ integrated housing wrench	1
YY56 000 10	Spare mounting hardware kit: (4) PVDF 3/8"-16 x 63.5 mm (2.5") hex head cap screw (4) PVDF nuts 3/8"-16	1 kit
YY46 101 02	Spare o-ring, 2-344, TEV	3
YY46 101 08	Spare o-ring, 2-344, Kalrez® perfluoroelastomer resin	1
P01002J	Spare o-ring, 2-344, Viton fluoropolymer resin	1
YY46 101 90	L-mounting bracket	1

Ordering Information (continued)

Chemlock cartridges are compatible with the Chemlock PFA and Chemlock PP housings. Cartridges can be ordered by adding either a “K” or a “Y” to the end of a standard cartridge catalog number depending on the product family. Standard cartridges (without the key) are still available under their 9-digit catalog number.

Any standard 10” Code 0 cartridge can be used with the universal Chemlock PFA housing. Only Chemlock cartridges can utilize the cartridge

locking mechanism. Use of a Chemlock key or any other key with a third party cartridge shall void the warranty of the housing and may infringe one or more of Entegris’ pending or issued U.S. and foreign patents. Such patents and warranty do not apply to use of third party cartridge without any key.

Refer to individual cartridge datasheets on www.entegris.com for cartridge ordering information.

Installation



1. Insert cartridge into bowl.



2. Twist filter 1/4 turn to lock.



3. Attach head to bowl.



4. Tighten locking ring to easily seat double o-rings. Use a Chemlock/Chemgard integrated housing wrench to ensure proper tightening.

Retrofitting

PFA Chemlock bowls are easily retrofitted to Chemgard T-Line housings. They are designed to fit with Entegris’ T-line PFA Chemgard heads (Chemlock bowls are not compatible with U-line and in-line Chemgard housings).

An installed Chemgard housing may be retrofitted with a Chemlock bowl and cartridge.

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 the “Customer Service” link for the center nearest you.

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