#### MICROCONTAMINATION CONTROL

# Chemlock<sup>®</sup> PP Housing

Less tool space, less handling, less hassle

## Ultimate Space-Saving Design

Entegris' Chemlock<sup>®</sup> PP housing offers a space-saving solution like no other cartridge filter housing available today. This revolutionary new 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 quarter 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 potentially hazardous exposure to chemicals.

## **Reduced Footprint**

The Chemlock PP 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") length and in a 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 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	Saves a minimum of 8 inches of vertical space over traditional housing installations; requires less space for cartridge changeout
Cartridge locks into bowl with a simple quarter-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 config- urations ensures compatibility with most filtration applications
Easier cartridge changeout	Virtually hands-free cartridge changeout provides 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

Head and bowl	Polypropylene (PP)	
O-ring	EPR, Viton <sup>®</sup>	
Locking ring (nonwetted part)	PVDF	
FNPT, Flaretek <sup>®</sup> , Union, Rc		
Code 0, dual 2-222 O-rings, and Chemlock cartridges with key		
Standard Drain Port Configurations	1" FNPT Drain Port Configurations	
Maximum inlet pressure:	Maximum inlet pressure:	
0.14 MPa (1.4 bar, 20 psi) @ 90°C (194°F)	0.14 MPa (1.4 bar, 20 psi) @ 90°C (194°F	
0.69 MPa (6.9 bar, 100 psi) @ 25°C (77°F)	0.55 MPa (5.5 bar, 80 psi) @ 25°C (77°F)	
Maximum operating temperature:	Maximum operating temperature:	
90°C (194°F)	90°C (194°F)	
Torque specifications validated using Chemlock torque wrench		
	Locking ring (nonwetted part) FNPT, Flaretek <sup>®</sup> , Union, Rc Code 0, dual 2-222 O-rings, and Chemloc Standard Drain Port Configurations Maximum inlet pressure: 0.14 MPa (1.4 bar, 20 psi) @ 90°C (194°F) 0.69 MPa (6.9 bar, 100 psi) @ 25°C (77°F) Maximum operating temperature: 90°C (194°F)	

#### Chemical compatibility -locking rings

	AQUEOUS ACIDS	AQUEOUS OXIDIZER	AQUEOUS BASES	SOLVENTS
	H <sub>2</sub> SO <sub>4</sub> , H <sub>3</sub> PO <sub>4</sub> , HNO <sub>3</sub>	H <sub>2</sub> O <sub>2</sub>	NH₄OH, TMAH, KOH	IPA, DMSO
PVDF	Recommended	Not recommended	Not recommended	Not recommended

\*Contact Entegris for locking ring compatibility with chemicals not listed.

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 part number depending on the product family. Standard cartridges (without the key) are still available under their usual part number.

Any standard 10" Code 0 cartridge can be used with the universal Chemlock PP housing. Only Chemlock cartridges can use the cartridge locking mechanism. Use of a Chemlock key or any other key with a third party cartridge voids the housing warranty and may infringe one or more Entegris U.S. and foreign patents, issued or pending. 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.

## DIMENSIONS



				Dimensions	
Inlet/outlet	Head vent/drain	Bowl vent/drain	A (10" housing)	A (20" housing)	В
3⁄4" Flaretek	1⁄2" Flaretek	1⁄2" Flaretek	450 mm (17.7")	700 mm (27.6")	163 mm (6.4")
1" Flaretek	1⁄2" Flaretek	1⁄2" Flaretek	450 mm (17.7")	700 mm (27.6")	173 mm (6.8")
3/4" FNPT	1/4" FNPT	1/4" FNPT	396 mm (15.6")	646 mm (25.4")	137 mm (5.4")
3/4" FNPT	1/4" FNPT	1" FNPT	_	644 mm (25.3")	137 mm (5.4")
<sup>3</sup> /4" Rc	1⁄4" Rc	1⁄4" Rc	396 mm (15.6")	646 mm (25.4")	137 mm (5.4")
1" Union	1/4" FNPT	1⁄4" FNPT	396 mm (15.6")	646 mm (25.4")	203 mm (8.0")

# ORDERING INFORMATION

# Chemlock PP housing heads, bowls, and kits

## Housing heads

Part number	Inlet/outlet	Vent/drain
YY66H0F4F	¾" Flaretek	½" Flaretek
YY66H4F4F	1" Flaretek	½" Flaretek
YY66H0A2A	3/4" FNPT	44" FNPT
YY66H4U1A	1" Union	¼" FNPT, vent only
YY66H4U2A	1" Union	4/4" FNPT
YY66H0R2R	¾" Rc	44" Rc

## Housing bowls

PART		
10" BOWL LENGTH	BOWL LENGTH 20" BOWL LENGTH	
PP	РР	Vent/drain
YY66B1280	YY66B2280	1⁄2" Flaretek
YY66B1170	YY66B2170	1/4" FNPT
-	YY66B2470	1" FNPT
YY66B1150	YY66B2150	1⁄4" Rc

## Housing kits (bowls and heads)

PART NUMBER				
10" bowl length	20" bowl length	Inlet/outlet	Head vent/drain	Bowl vent/drain
YY6610F4E	YY6620F4E	¾" Flaretek	1/2" Flaretek	1⁄2" Flaretek
YY6614F4E	YY6624F4E	1" Flaretek	1/2" Flaretek	1⁄2" Flaretek
YY6610A2E	YY6620A2E	3⁄4" FNPT	1/4" FNPT	1/4" FNPT
_	YY6620A4AE	3⁄4" FNPT	1/4" FNPT	1" FNPT
YY6610R5E	YY6620R5E	<sup>3</sup> /4" Rc	1⁄4" Rc	1⁄4" Rc
YY6614U1E	_	1" Union	1/4" FNPT, vent only	1/4" FNPT
YY6614U2E	_	1" Union	1/4" FNPT	1/4" FNPT

#### Accessories

Part number	Description	Quantity/pkg.
YY4600005	Chemlock wrench with integrated torque	1
YY4600006	Chemlock wrench head	1
YY4110106	Spare O-ring, 2-345, EPR	3
YY4110104	Spare O-ring, 2-345, Viton fluoropolymer resin	3
YY66BRACK	L-mounting bracket (for Chemlock/Chemgard <sup>™</sup> PP housings)	1

#### INSTALLATION



1. Insert cartridge into bowl.



2. Twist filter <sup>1</sup>/<sub>4</sub>-turn to lock.



3. Attach head to bowl.



4. Tighten locking ring to easily seat double O-rings.

WARNING: Use a Chemlock integrated housing wrench to ensure proper tightening. Failure to follow procedure can lead to safety risks including equipment failure and chemical exposure.

## RETROFITTING

Chemlock PP bowls are easily retrofitted to Chemgard housings. They are designed to fit with Entegris' T-Line PP Chemgard heads. 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 <u>entegris.com</u> and select the <u>Contact Us</u> link to find the customer service 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 <u>entegris.com</u> and select the <u>Terms & Conditions</u> link in the footer.



Corporate Headquarters 129 Concord Road Billerica, MA 01821 USA 
 Customer Service

 Tel
 +1
 952
 556
 4181

 Fax
 +1
 952
 556
 8022

 Toll Free
 800
 394
 4083

Entegris<sup>®</sup>, the Entegris Rings Design<sup>®</sup>, and other product names are trademarks of Entegris, Inc. as listed on <u>entegris.com/trademarks</u>. All third-party product names, logos, and company names are trademarks or registered trademarks of their respective owners. Use of them does not imply any affiliation, sponsorship, or endorsement by the trademark owner.

©2004-2022 Entegris, Inc. | All rights reserved. | Printed in the USA | 4411-5551ENT-0822