

ProcessGard® NP Cartridge and Disposable Filters

Depth filters with high flow and excellent broad range retention efficiency

ProcessGard® NP cartridge filters are multilayer pleated depth filters with a nonwoven polypropylene membrane. Suitable applications include prefiltering for flat panel display wet processing or electronic parts plating processes.

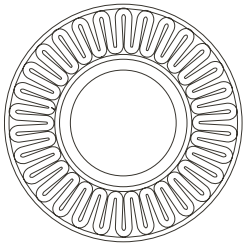
Superior Retention Efficiency

ProcessGard NP filters retain contaminants by means of a multi-stage, graded-density design.

A full range of retention ratings with high retention efficiency allows you to optimize these filters for your specific process stream.

Superior Chemical Compatibility

ProcessGard NP filters are constructed of durable polypropylene and offer excellent chemical and heat resistance. Polypropylene and glass fibers are used for 0.5 µm and 1 µm.



Pleated depth filter for longer life and higher flow rates.



APPLICATIONS

- Thin-film transistor LCD: wet etching, stripping, developer, and cleaning
- Twisted pneumatic/Super twisted pneumatic LCDs: wet etching, stripping, developer, and cleaning
- Color filter: wet etching, developer, stripping, and cleaning

FEATURES & BENEFITS

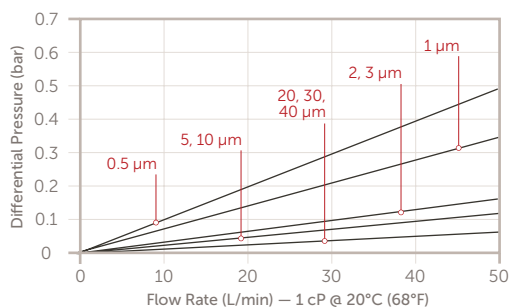
Surface and depth filter design	Delivers superior particle and gel holding capability
	Ensures longer life over non-depth filters
Strong construction of polypropylene supports	Provide clean and durable performance
Thermoplastic bonding with no adhesives	Ensure superior downstream cleanliness
Available in a range of retention ratings, lengths, and manifold adapter codes	Superior retention of colloids and particles ensuring low particle counts to protect your process
Available in various configurations	Fits most available housings

SPECIFICATIONS

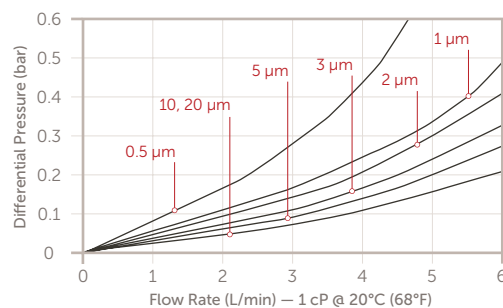
Materials of construction	Membrane	2.0 to 40 μm = Polypropylene
		0.5 to 1.0 μm = Polypropylene and glass fibers
	Supports, cage, core, sleeves, and end caps	Polypropylene
	Cartridges	O-rings: EPDM, FKM, and E-FKM Gasket: EPDM and FKM
Dimensions	Cartridge diameter	70 mm
	Code 0 (2-222) 10"	261.5 mm
	Code 0 (2-222) 20"	514 mm
	Code F (gaskets) 10"	250 mm
	Code F (gaskets) 20"	500 mm
Disposable connections	6.35 mm (1/4") compression seals	
Maximum operating conditions	Maximum differential pressure:	
	Cartridge: 0.5 MPa (5.0 bar, 70 psid) @ 25°C (77°F)	
	Maximum inlet pressure:	
	Disposable: 0.27 MPa (2.7 bar, 40 psid) @ 25°C (77°F)	
	Maximum operating temperature:	
	Cartridge: 80°C (176°F)	
	Disposable: 38°C (100°F)	

PERFORMANCE DATA

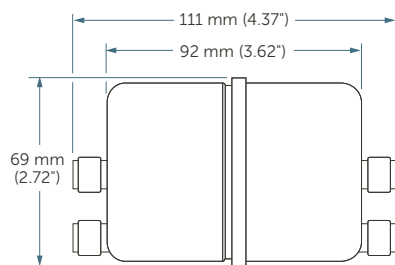
ProcessGard NP Cartridge Filters



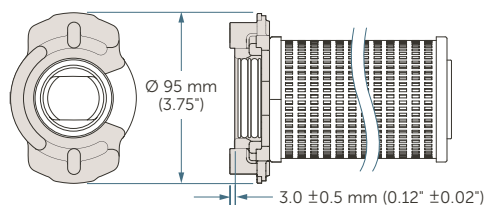
ProcessGard NP Disposable Filters



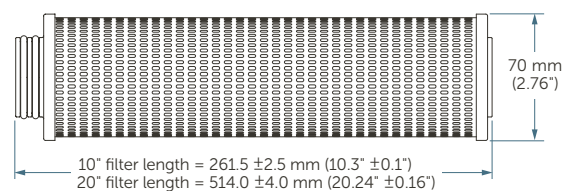
DIMENSIONS



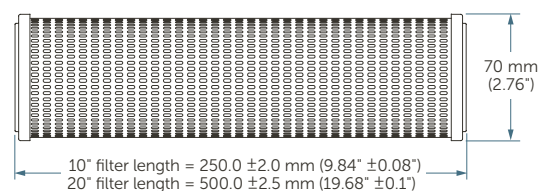
End View of Chemlock® Key on Cartridge



Code 0



Code F



ORDERING INFORMATION

ProcessGuard NP Cartridge Filters: part number*

P	N	1	Y	
				Optional additional digit Y = With Chemlock key PP (10" Code-0 only)
				O-ring V = FKM E = EPDM T = Encapsulated – FKM
				Length 10 = 10" 20 = 20"
				Type F = Flat gasket O = O-ring code 0 (2-222)
				Retention rating A5 = 0.5 µm 1H = 10 µm 10 = 1.0 µm 2H = 20 µm 20 = 2.0 µm 3H = 30 µm 30 = 3.0 µm 4H = 40 µm 50 = 5.0 µm

ProcessGuard NP Disposable Filters: part number

P	N	OS1S3	
			Delivered 3-pack
			Retention rating A5 = 0.5 µm 50 = 5.0 µm 10 = 1.0 µm 1H = 10 µm 20 = 2.0 µm 2H = 20 µm 30 = 3.0 µm

Disposable Filter Accessories

Part number	Description
CW00 OS4 AV	Air vent set
CW00 OS4 20	Adapter set for inlet/outlet for connection with non-metal compression fittings

*Contact Entegris for available part numbers.

FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit [entegris.com](https://www.entegris.com) and select the [Contact Us](#) 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 [entegris.com](https://www.entegris.com) and select the [Terms & Conditions](#) 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®, the Entegris Rings Design®, and other product names are trademarks of Entegris, Inc. as listed on [entegris.com/trademarks](https://www.entegris.com/trademarks). 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.

©2003-2024 Entegris, Inc. | All rights reserved. | Printed in the USA | 4412-5060ENT-0624