



PANELGARD™ PSF, PSX AND PS40 CARTRIDGE AND DISPOSABLE FILTERS

*Hydrophilic polysulfone membrane for point-of-use
DI water and nonaggressive chemical filtration*

Overview

Entegris' Panelgard™ PSF and PSX filters are designed for DI water (ambient or up to 90°C) and applications where weak acids/bases are used. The cartridge's hydrophilic polysulfone membrane ensures a higher flow rate, particle retention and longer lifetime, leading to higher flows with low pressure drops, fewer filter changeouts and cleaner process water and chemicals for your application.

Superior Filtration Efficiency

Panelgard PSF and PSX filters are constructed of an asymmetric polysulfone membrane that delivers high flow rates, long life and enhanced particle removal performance. The increased membrane area of the PSX cartridge provides even higher flow rates in a long-life filter design. A variety of retention ratings are available to suit specific application needs.

Simple Installation and Replacements

Panelgard PSF and PSX filters simplify filter changeout and minimize downtime. The hydrophilic membrane eliminates the need for prewetting or flushing.



Superior Design and Construction

Panelgard PSF and PSX filters are designed for top performance filtration and are manufactured by Entegris in a world-class, ISO Quality Systems Standard facility.

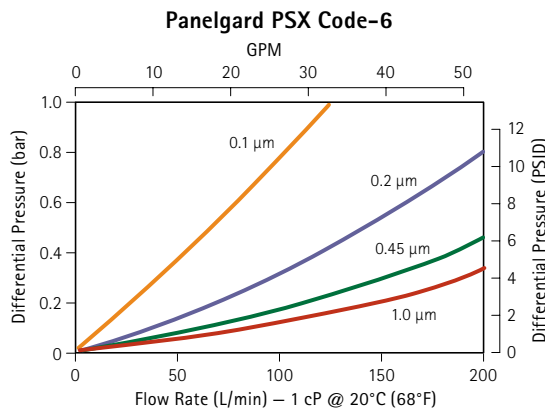
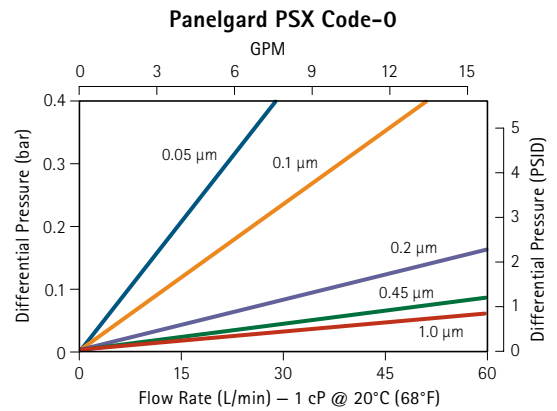
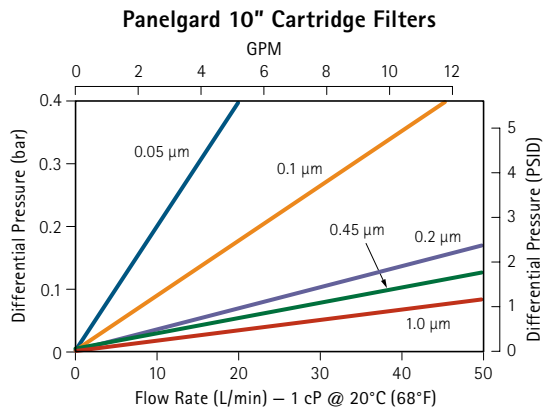
Features	Benefits
Hydrophilic, polysulfone membrane	Eliminates prewetting and flushing
	Saves time at changeout, increases equipment uptime and provides better, more consistent performance
	Compatible with weak acids, base and DI water
Asymmetric membrane structure	Asymmetric membrane structure provides high flow rates with lower differential pressure and a longer cartridge lifetime
High membrane-area cartridge with low pressure drop across the membrane	High flow and efficient particle removal
	Ensures rapid particle removal on one-pass and recirculating applications
All-polypropylene construction	Provides excellent chemical compatibility, long lifetime and reduced changeout and system startup times
PSF cartridges available in 10", 20" and 30" cartridge sizes	Available in sizes to fit most housings manufactured by Entegris, for one-source flexibility for all your ultrapure DI water needs

Panelgard PSF and PSX Cartridge Filters

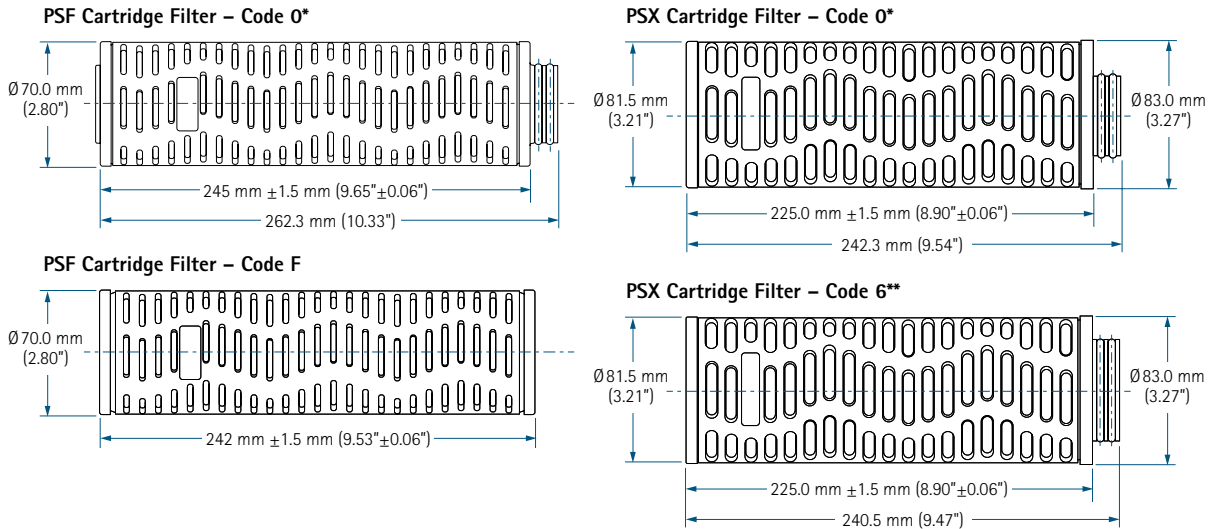
Specifications

Materials:	Membrane	Hydrophilic polysulfone		
	Supports, core, cage, end caps	Polypropylene		
	O-rings	PSF	EPDM, FKM, E-FKM	
		PSX	EPDM, E-FKM	
	Chemlock® key	Polypropylene		
Connections:	Cartridges	PSF	Code 0 (AS568A-222)	Code F (flat gasket)
		PSX	Code 0 (AS568A-222)	Code 6 (AS568A-226)
Operating conditions:	Maximum forward differential pressure	0.34 MPa (3.4 bar, 49 PSID) @ 20°C		
		0.14 MPa (1.4 bar, 20 PSID) @ 90°C		
	Maximum reverse differential pressure	0.24 MPa (2.4 bar, 35 PSID) @ 20°C		
	Maximum operating temperature	90°C (194°F)		
Membrane area:	PSF 10"	7,000 cm ² (7.5 ft ²)		
	PSF 20"	14,000 cm ² (15.1 ft ²)		
	PSF 30"	21,000 cm ² (22.6 ft ²)		
	PSX 10"	10,000 cm ² (10.8 ft ²)		
Particle retention:	0.05, 0.1, 0.2, 0.45 and 1.0 µm retention ratings			

Performance Data



Dimensions



*Code 0 dimensions are without Chemlock key

**Code 6 cartridge filter can be used with Chemgard™ 226 PP housing ONLY

Ordering Information

PANELGARD PSF CARTRIDGE FILTERS

Pore Size (µm)	Seal Length	Code 0		Code F	
		EPDM	FKM	EPDM	FKM
0.05 (Z)	10"	PGSZ01PLE(Y)*	PGSZ01PLV	–	–
	20"	–	PGSZ02PLV	–	–
0.1 (V)	10"	PGSV01PLE(Y)	PGSV01PLV	PGSVF1PLE	PGSVF1PLV
	20"	PGSV02PLE	PGSV02PLV	PGSVF2PLE	–
	30"	PGSV03PLE	PGSV03PLV	–	–
0.2 (G)	10"	PGSG01PLE(Y)	PGSG01PLV	PGSGF1PLE	PGSGF1PLV
	20"	PGSG02PLE	PGSG02PLV	PGSGF2PLE	–
	30"	PGSG03PLE	PGSG03PLV	–	–
0.45 (H)	10"	PGSH01PLE(Y)	PGSH01PLV	PGSHF1PLE	PGSHF1PLV
	20"	PGSH02PLE	PGSH02PLV	PGSHF2PLE	PGSHF2PLV
	30"	PGSH03PLE	PGSH03PLV	PGSHF3PLE	–
1.0 (A)	10"	PGSA01PLE	PGSA01PLV	–	–

PANELGARD PSX CARTRIDGE FILTERS

Pore Size (µm)	Seal Length	Code 0		Code F	
		EPDM	E-FKM	EPDM	E-FKM
0.05 (Z)	10"	–	PGSZ01P01(Y)	–	–
0.1 (V)	10"	–	PGSV01P01(Y)	PGSV61PE1	PGSV61P01
	20"	PGSV02PE1(Y)	–	–	–
0.2 (G)	10"	–	PGSG01PLV	PGSG61PE1	PGSG61P01
	20"	PGSG02PE1(Y)	–	–	–
0.45 (H)	10"	–	PGSH01P01(Y)	PGSH61PE1	PGSH61P01
1.0 (A)	10"	–	PGSA01P01(Y)	PGSA61PE1	PGSA61P01

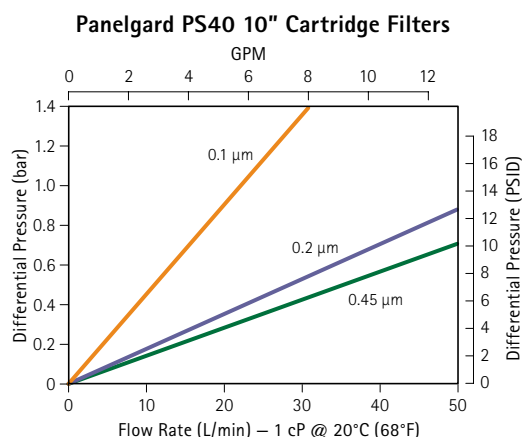
*Chemlock key is attached when "Y" is added to the end of item number.

Panelgard PS40 Cartridge and Disposable Filters

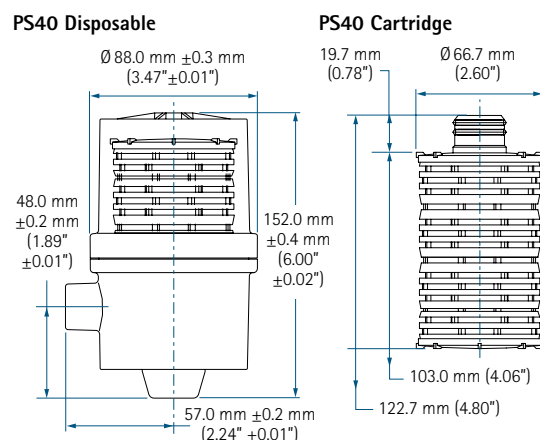
Specifications

Materials:	Membrane	Hydrophilic polysulfone	
	Supports	Cartridge	High-density polypropylene
	Supports, core, sleeve	Disposable	High-density polypropylene
	Housing	Disposable	Polysulfone
	O-rings	Cartridge	EPDM (AS568A-118)
		Disposable	EPDM (AS568A-118)
Connections:	Cartridges	N/A	
	Disposable	Inlet/outlet – 1/2" NPT; vent – 1/4" NPT	
Operating conditions:	Maximum inlet pressure	Disposable	0.34 MPa (3.4 bar, 49 PSID) @ 25°C
	Maximum forward differential pressure		0.27 MPa (2.7 bar, 39 PSID) @ 25°C
	Maximum operating temperature		60°C (140°F)
Membrane area:	3,200 cm ² (3.5 ft ²)		
Particle retention:	0.1, 0.2 and 0.45 µm retention ratings.		

Performance Data



Dimensions



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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Ordering Information

Panelgard PS40 Cartridge and Disposable Filters

Part Number

PGS_040

Retention Rating
 V = 0.1 µm
 G = 0.2 µm
 H = 0.45 µm

Type
 E1 = Cartridge
 FJ = Disposable

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ENTEGRIS, INC.

Corporate Headquarters | 129 Concord Road | Billerica, MA 01821 USA
 Customer Service Tel. +1 952 556 4181 | Customer Service Fax +1 952 556 8022
 In North America 800 394 4083 | www.entegris.com