

CLEARFLOW™

Serial layers of depth media and membrane provide long lasting protection of final filters



Extended life and high retention efficiency make Clearflow™ an ideal filter for the clarification of particulate-laden solutions as commonly found in food and beverage production.

At the heart of the Clearflow™ design is a serial layer matrix of depth media and polyethersulfone (PES) membrane. This combination offers superior flow and long-lasting protection for downstream final filters. Clearflow™ cartridges are also non-fiber-releasing and will not unload contaminants, even under pulsing conditions.

Clearflow™ cartridges are available in 0.2, 0.5, or 0.8 µm nominal ratings, and with your choice of glass fiber or polypropylene prefiltration media. They are manufactured in a certified cleanroom environment. The Biological Grade version provides qualitative microbial retention. General Grade cartridges are for prefiltration applications, and are bulk packaged and economically priced.

BENEFITS

- Excellent particle retention provides for excellent protection of downstream filters
- High flow rate reduces processing time
- Long service life minimizes changeout frequency
- Integrity testable
- Steam Sterilizable

APPLICATIONS

Prefiltration/clarification of:

- Syrups
- Sweeteners
- Wine/beer/bottled water
- Viscous liquids

SPECIFICATIONS

Materials of Construction:

Either glass fiber or polypropylene depth media over with a PES membrane layer. Media support layers and cartridge structure are polypropylene.

All components meet USP-XXIV Class VI-121°C criteria and are thermally bonded to assure integrity and purity.

Maximum Operating Conditions:

Forward 60 psid (4.1 bar) @ 75°F (24°C)
Reverse 30 psid (2.0 bar) @ 75°F (24°C)

Steam Sterilizable and Sanitizable:

Cartridges can be steamed or autoclaved for at least 10 one-hour cycles @ 121°C (250°F). Cartridges can also be hot water or chemically sanitized in place using common sanitizing agents. Please contact Parker for detailed procedures.

Integrity Tested:

All biological grade elements are integrity tested by a diffusive flow method during manufacturing

Integrity Test Values:

FILTER RATING	BUBBLE POINT*		DIFFUSIONAL FLOW*		
			flow (ml/min)	TEST PRESSURE	
µm	psig	bar		psig	bar
0.2	30	21.	20	24	1.7
0.5	17	1.2	20	13	0.9
0.8	14	1.0	20	11	0.7

*Tested in deionized water

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PERFORMANCE ATTRIBUTES

Typical Water Flow Rates*

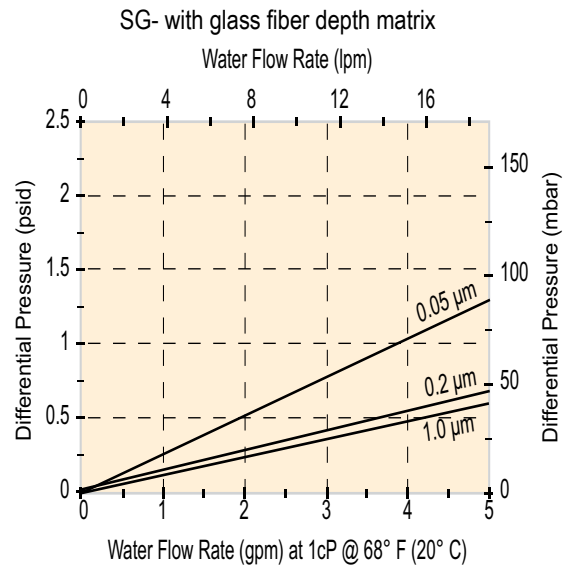
SG- with glass fiber depth matrix

0.2 µm	4.0 gpm/psid (21.96 lpm/100 mbar)
0.5 µm	7.5 gpm/psid (41.18 lpm/100 mbar)
0.8 µm	8.5 gpm/psid (46.67 lpm/100 mbar)

SP- with Polypro fiber depth matrix

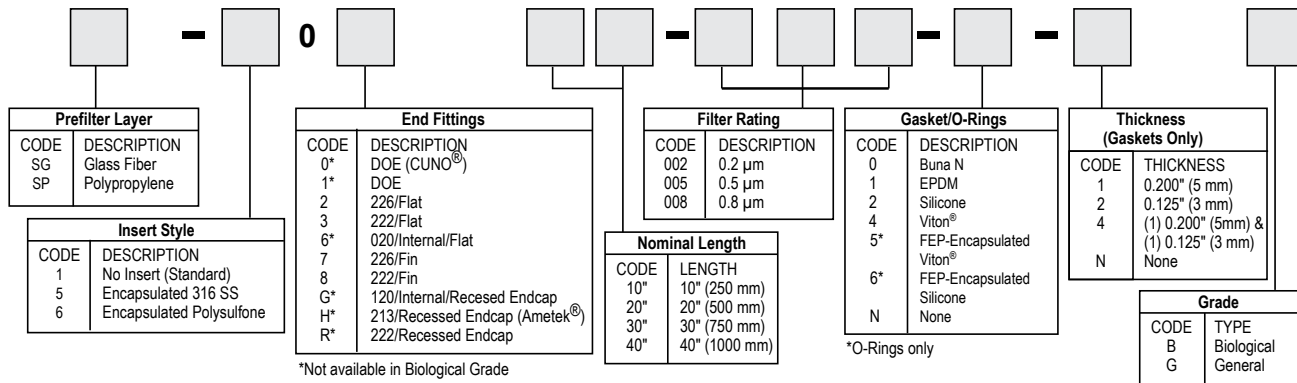
0.2 µm	2.0 gpm/psid (10.98 lpm/100 mbar)
0.5 µm	3.1 gpm/psid (17.02 lpm/100 mbar)

* For fluids with viscosity of 1cP, per 10 inch (250 mm) cartridge equivalent



ORDERING INFORMATION

Each cartridge is identified with a product number, pore size and lot number for traceability.



TECHNICAL SUPPORT AND PRODUCT INFORMATION

Parker provides our customers with unsurpassed product consistency and cost efficiency. Our experienced professionals can help you select the right solution for your application. Orders can be emailed directly to PAFsales@parker.com. For additional information contact your local distributor. Information on product specifications, applications and chemical compatibility can be found on our web site at www.parker.com or through the Oxnard office.

Parker designs and manufactures an extensive line of innovative solutions for specific applications in the Microelectronics, Biopharmaceutical, Food and Beverage, Coatings and Inks, Process and Chemical industries.

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Process Advanced Filtration Division
 2340 Eastman Avenue
 Oxnard, California, USA 93030
 Toll Free: +1 877 784 2234
 Phone: +1 805 604 3400
 Fax: +1 805 604 3401
PAFsales@parker.com
www.parker.com

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