

Polyflow®-G

All-polypropylene nominal-rated depth cartridges for economical prefiltration

Polyflow®-G depth media has been developed for a wide variety of general process applications from fluid clarification to general prefiltration. Its high dirt-loading, random-fiber polypropylene depth media provides consistent particle retention.

Polyflow®-G is thermally bonded from 100% virgin polypropylene to ensure clean filtrates and excellent chemical and thermal compatibility in the most demanding processing conditions.

Polyflow®-G leads in overall reduction of filtration costs when compared to spunbonded, stringwound, and nominally-rated pleated prefilter cartridges. Its longer filtration life reduces downtime due to fewer change-outs.



Benefits

- High flow rate and long service life reduce processing time
- Broad chemical compatibility allows use in most applications
- Thermally bonded construction minimizes extractables for cleaner filtrates

Applications

- Solvent filtration
- Liquid clarification
- Recirculating liquids
- General water filtration
- Reagent grade chemicals
- RO/DI prefiltration
- Waste water

Parker Hannifin Corporation provides our customers with unsurpassed product consistency and cost-efficiency. Our experienced professionals can help you select the right solution for your application. For more information or to place an order, 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 your nearest **Parker Hannifin Corporation** office.

Parker Hannifin Corporation designs and manufactures an extensive line of innovative solutions for specific applications in the Microelectronics, Biopharmaceutical, Food and Beverage, Industrial and Chemical industries.



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Polyflow[®]-G

Specifications

Materials of Construction

Depth media : Polypropylene
 Support layers : Polypropylene
 Structure : Polypropylene

All components are thermally bonded to ensure integrity and to reduce extractables.

Nominal Filter Ratings

0.2µm, 0.5µm, 1µm, 3µm, 10µm, and 30µm

Effective Filtration Area

3.6ft² (0.33 m²) per 10" (250mm) cartridge

Cartridge Extractables

NVR < 35mg per 10" (250mm) cartridge

Biological Safety

All components meet USP specifications for Class VI-121°C Plastics criteria.

Maximum Differential Pressure/ Temperature

Forward: 80psid (5.5bar) @ 75°F (24°C)

Reverse: 40psid (2.8bar) @ 75°F (24°C)
 15psid (1.0bar) @ 140°F (60°C)

Maximum Operating Temperature

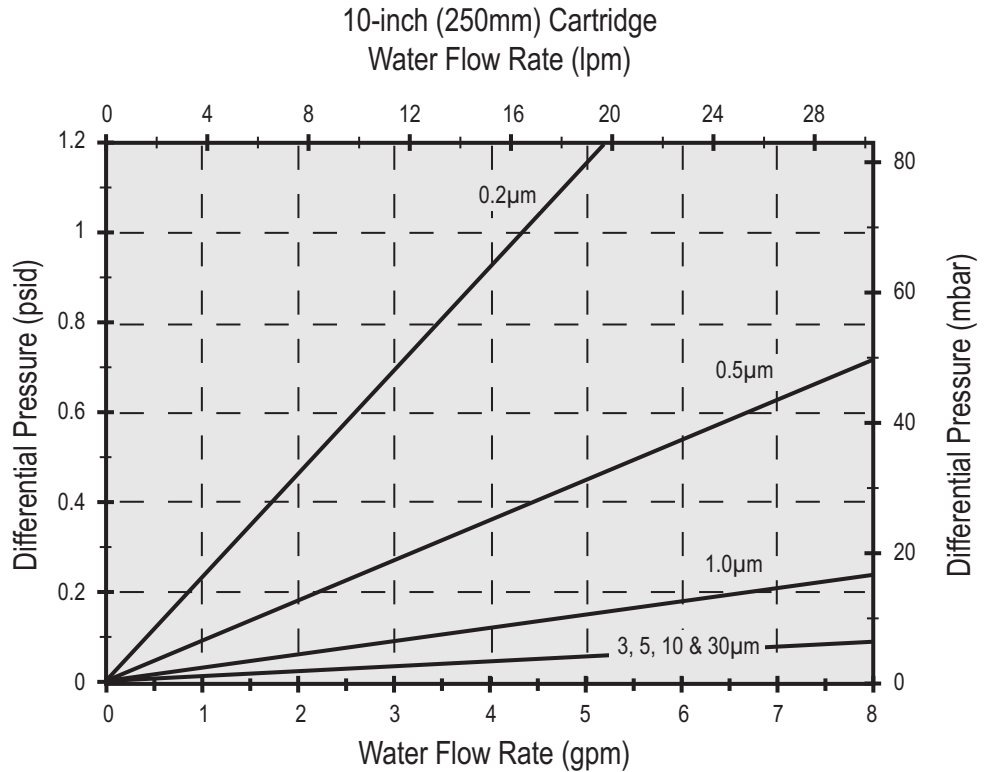
160°F (71°C)

Performance Attributes

Water Flow rates, Typical *

0.2µm	4.2gpm/psid (23.3lpm/100mbar)	5.0µm	70.0gpm/psid (384.2lpm/100mbar)
0.5µm	11.0gpm/psid (60.4lpm/100mbar)	10.0µm	70.0gpm/psid (384.2lpm/100mbar)
1.0µm	33.0gpm/psid (181.1lpm/100mbar)	30.0µm	70.0gpm/psid (384.2lpm/100mbar)
3.0µm	70.0gpm/psid (384.2lpm/100mbar)		

*Per 10-inch (250 mm) cartridge equivalent.



Ordering Information

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

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Style		End Fitting		Nominal Length		Filter Rating		Gasket/O-Rings		Gasket Thickness	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	LENGTH	CODE	MICRON	CODE	MATERIAL	CODE	DESCRIPTION
1	None	0	DOE (CUNO [®])	05	5" (125mm)	002	0.2µm	0	Buna N (Standard)	1	0.200" (5mm)
A	1/2" Shortened on 222 Fitting	1	DOE	10	10" (250mm)	005	0.5µm	1	EPDM	2	0.125" (3mm)
		2	222/Flat	20	20" (500mm)	010	1.0µm	2	Silicone	4	(1) 0.200" (5mm) & (1) 0.125" (3mm)
		3	222/Flat	30	30" (750mm)	030	3.0µm	4	Viton [®]	N	None
		6	020/Internal/Flat	40	40" (1,000mm)	050	5.0µm	5*	FEP Encapsulated Viton [®]		
		7	226/Fin			100	10.0µm	6*	FEP Encapsulated Silicone		
		8	222/Fin			300	30.0µm	N	None		
		G	120/Internal/Recessed End cap								
		H	213/Recessed End cap (Ametek)								
		R	222/Recessed End cap								

*O-Rings only

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