

Polyflow®



Absolute-rated polypropylene depth cartridges for electronics applications

Polyflow® cartridges are optimized for use in electronics applications. They feature a random-fiber polypropylene depth matrix that provides excellent retention efficiencies and onstream life. The unique calendering process produces depth media with an absolute rating and superior dirt-holding capacity.

These cartridges are thermally bonded from 100% virgin polypropylene to ensure a high level of cleanliness and chemical compatibility.



Benefits

- High-retention depth matrix
- High flow rate
- Wide variety of configurations and ratings
- Economical prefiltration

Applications

- Solder plating
- Prefiltration of electronics-grade chemicals
- DI 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.

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.



ENGINEERING YOUR SUCCESS.

Polyflow®

Specifications

Materials of Construction

Depth media : Polypropylene
 Support layers : Polypropylene
 Structure : Polypropylene

Effective Filtration Area

2.4ft² (0.22 m²) 5" (130mm) cartridges
 4.9ft² (0.46 m²) 10" (250mm) cartridges

Filtration Efficiency

The 0.6µm offers typical retention up to 99% efficient. 1.2µm, 2.5µm, 5µm, 10µm, 20µm, and 40µm are up to 99.9% efficient at specified pore size.

Cartridge Extractables

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

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

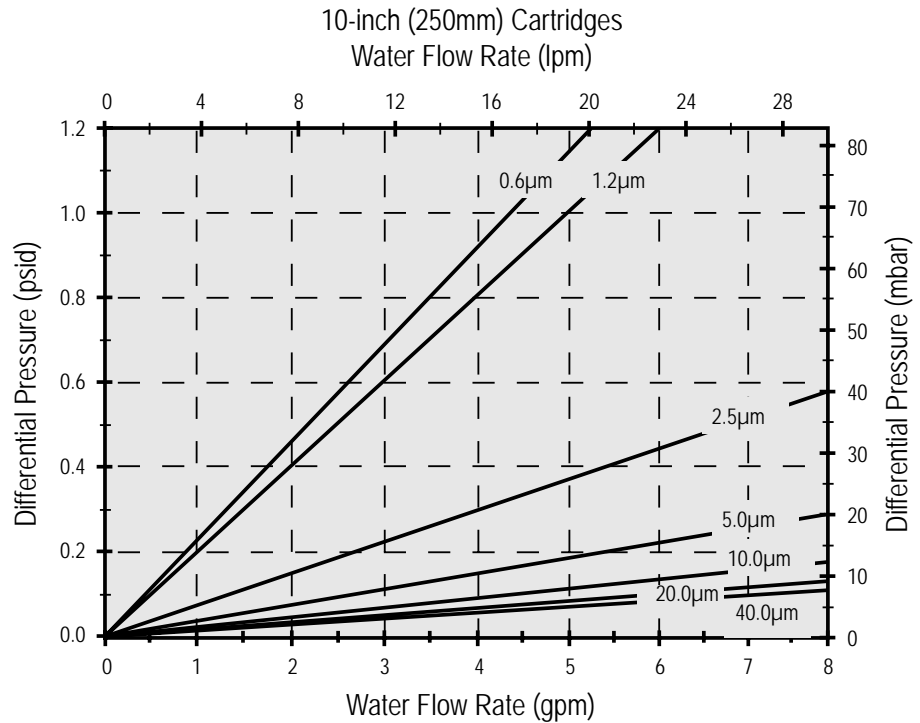
160°F (71°C)

Performance Attributes

Water Flow rates, Typical *

0.6µm	4.2gpm/psid (23.3lpm/100mbar)	10.0µm	40.0gpm/psid (219.6lpm/100mbar)
1.2µm	5.0gpm/psid (27.4lpm/100mbar)	20.0µm	50.0gpm/psid (274.4lpm/100mbar)
2.5µm	13.5gpm/psid (74.1lpm/100mbar)	40.0µm	60.0gpm/psid (329.3lpm/100mbar)
5.0µm	26.0gpm/psid (142.7lpm/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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Insert Style		End Fitting		Nominal Length		Filter Rating		Gasket/O-Rings		Thickness (Gaskets Only)	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	LENGTH	CODE	MICRON	CODE	MATERIAL	CODE	THICKNESS
1	None (STD)	0	DOE (CUNO)	05	5" (125mm)	006	0.6µm	0	Buna N	1	0.200" (5mm)
5	Encapsulated 316L Stainless Steel	1	DOE	10	10" (250mm)	012	1.2µm	1	EPDM	2	0.125" (3mm)
6	Encapsulated Polysulfone	2	226/Flat	20	20" (500mm)	025	2.5µm	2	Silicone	4	(1) 0.200" (5mm) & (1) 0.125" (3mm)
A	1/2" Shortened on 222 Fitting	3	222/Flat	30	30" (750mm)	050	5.0µm	4	Viton®	N	No Gasket
		6	020/Internal/Flat	40	40" (1,000mm)	100	10.0µm	5*	FEP Encapsulated Viton		
		7	226/Fin			200	20.0µm	6*	FEP Encapsulated Silicone		
		8	222/Fin			400	40.0µm	N	None		
		G	120/Internal/Recessed Endcap								
		H	213/Recessed Endcap (Ametek)								
		R	222/Recessed Endcap								

*O-rings only



FLOW TECH CORPORATION
 (Toll Free) 877.375.1290
 7601 Stadium Drive Kalamazoo, MI 49009
www.flowtechfilters.com