

Polyflow[®]-CMP

All-polypropylene nominal-rated depth cartridges for CMP slurry filtration

Polyflow[®]-CMP depth cartridges have been developed to reduce post-CMP defectivity by removing undesirable large particles and gels from a wide variety of CMP slurries. Its high dirt-loading, random-fiber depth media provides consistent particle retention in ratings from 0.2 μm to 30 μm without removing a significant amount of smaller 'working particles'. The cartridges are thermally bonded from 100% virgin polypropylene to ensure low extractables and chemical compatibility with both acidic and alkaline slurries.

Configurations are available in lengths from 5" to 40" with 10 fitting options. The specially-designed depth media maximizes flow rate and service life to reduce downtime associated with change-outs.



Benefits

- Removes undesirable large particles while retaining working slurry particles
- Chemically compatible with both acidic and alkaline slurries
- High flow rate and long service life reduce system downtime
- Superior particle retention protects downstream filters and reduces overall filtration costs

Applications

- Colloidal silica CMP slurry
- POU, distribution loop and supply
 - Oxide
 - Copper
 - Polysilicon

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[®]-CMP

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, 5µm, 10µm, and 30µm

Effective Filtration Area

3.6ft² (0.33 m²) 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)

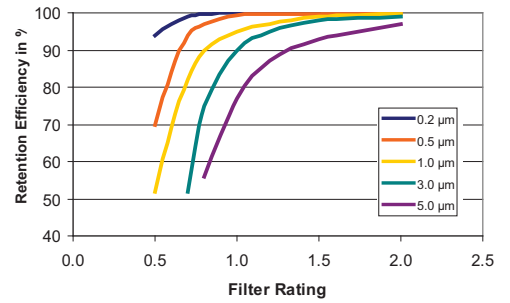
Performance Attributes

Water Flow rates, Typical *

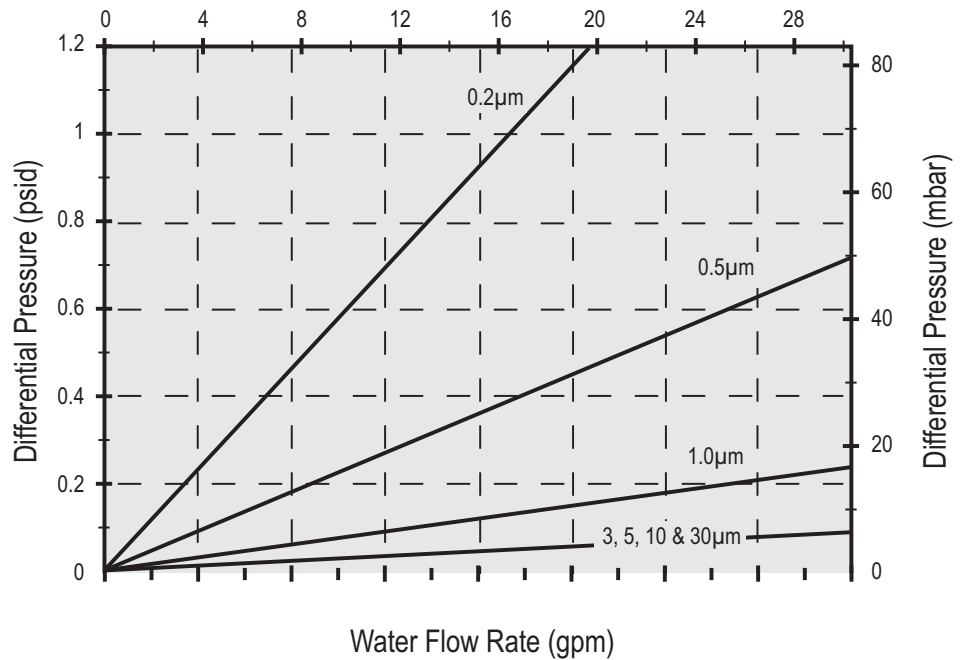
0.2µm 4.2gpm/psid (23.3lpm/100mbar)
 0.5µm 11.0gpm/psid (60.4lpm/100mbar)
 1.0µm 33.0gpm/psid (181.1lpm/100mbar)
 3.0µm 70.0gpm/psid (384.2lpm/100mbar)
 5.0µm 70.0gpm/psid (384.2lpm/100mbar)
 10.0µm 70.0gpm/psid (384.2lpm/100mbar)
 30.0µm 70.0gpm/psid (384.2lpm/100mbar)

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

Retention Efficiency



10-inch (250mm) Cartridge
Water Flow Rate (lpm)



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	226/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

Specifications are subject to change without notification.

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