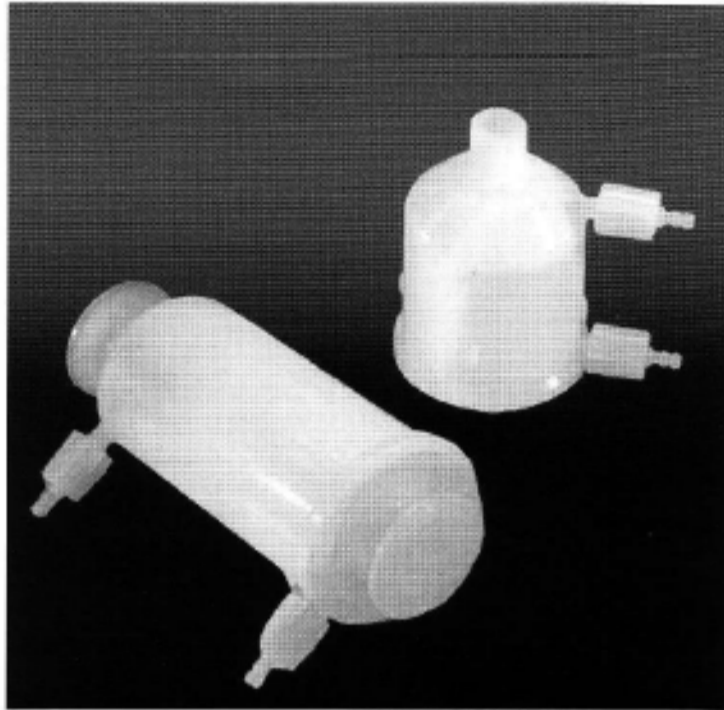


# POLYFLOW® MINI-CAPSULES

Encapsulated filters with polypropylene matrix for small-volume prefiltration applications



Polyflow® Capsules feature a random fiber polypropylene depth matrix that provides superior retention efficiencies. In addition, the unique calendaring process produces depth media with unsurpassed dirt-holding capacity that extends filter service life. Longer life leads to increased savings by requiring fewer filter Changeouts.

Polyflow® capsules are available in three sizes, enabling users to match the filters to actual batch sizes and minimize system hold-up volume. Cost savings result from the reduction of lost product, and by scaling the process properly to avoid excess filter capacity.

The encapsulated design maximizes efficiency by providing faster, easier Changeout without laborious cleaning procedures. Eliminating the need to open reusable housings for cartridge replacement minimizes the chance of introducing contamination into the process.

## BENEFITS

- High flow rate reduces processing time
- Long service life minimizes Changeout frequency
- Broad chemical compatibility enables use in most applications
- High retention efficiency provides excellent protection for downstream filters
- Non-pyrogenic (per LAL test) for use in critical applications
- Custom ordering option allows different inlet/outlet fittings for specific needs

## APPLICATIONS

- General water filtration
- Vent filtration

## SPECIFICATIONS

### Materials of Construction:

Depth media	Polypropylene
Support layers	Polypropylene
Structure	Polypropylene
Housing	Polypropylene

All components meet USP-XXIV Class VI-121°C criteria, and are thermally bonded to ensure integrity and reduce extractables

### Maximum Differential Pressure/Temperature:

Forward	70 psid (4.8 bar) @ 75°F (24°C)
	35 psid (2.4 bar) @ 140°F (60°C)
	20 psid (1.4 bar) @ 167°F (75°C)
Reverse	30 psid (2.1 bar) @ 75°F (24°C)

### Effective Filtration Areas:

See reverse side for details

### Filtration Efficiency:

1.2 µm, 2.5 µm, 5.0 µm, and 10.0 µm are 99.9% efficient at the specified pore size. The 0.6 µm capsule offers typical retention efficiency of up to 99%

### Cartridge Extractables:

NVR < 3 mg per 10 inch (250 mm) capsule

### Autoclavable and Sanitizable:

Can be autoclaved for up to 25 cycles at 275°F (135°C), or sanitized using most common cleaning agents

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## PERFORMANCE ATTRIBUTES

FILTER RATING	CAPSULE SIZE	NOMINAL EFA		TYPICAL WATER FLOW RATE*		TYPICAL AIR FLOW RATE	
		ft <sup>2</sup>	cm <sup>2</sup>	gpm/psid	lpm/100 mbar	scfm/psid	Nm <sup>3</sup> /hr/100 mbar
0.6 µm	Half	0.4	371	0.4	2.2	3.4	8.4
	Standard	0.7	650	0.8	4.4	5.9	14.6
	Double	0.9	836	1.0	5.5	7.6	18.8
1.2 µm	Half	0.6	371	0.8	4.4	4.5	11.1
	Standard	1.1	1021	1.4	7.7	8.3	20.5
	Double	1.6	1486	2.1	11.5	12.0	24.0
2.5 µm	Half	0.8	743	1.3	7.1	6.2	15.3
	Standard	1.5	1393	2.5	13.7	11.6	28.7
	Double	2.0	1858	3.3	18.1	15.4	38.1
5 µm	Half	0.8	743	2.3	12.6	7.6	18.8
	Standard	1.6	1486	4.5	24.7	15.2	37.6
	Double	2.1	1950	6.0	32.9	20.0	49.5
10 µm	Half	0.9	836	2.8	15.3	8.7	21.4
	Standard	1.6	1486	5.0	27.5	20.3	50.0
	Double	2.1	1950	6.5	35.7	26.6	65.7

\*For fluids with viscosity of 1 cP and capsules with sanitary fittings.

## ORDERING INFORMATION

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

22 — C [ ] B [ ] — [ ] — [ ]

Size		Inlet / Outlet		Filter Rating		Vent O-Ring	
CODE	DESCRIPTION	CODE	END FITTING	CODE	MICRON	CODE	MATERIAL
H	Half Size	B	1/4" Hose Barb	006	0.6 µm	0	Buna N
S	Standard Size	H	1/2" Hose Barb	012	1.2 µm	1	EPDM
D	Double Size	S	1-1/2" Sanitary Flange	025	2.5 µm	2	Silicone
		D	Quick-Disconnect	050	5.0 µm	4	Viton®
		P	1/4" NPT (Male)	100	10.0 µm	N	None
		J	1/2" NPT (Male)				
		K	3/8" NPT (Female)				
		G	Swagelok® 1/2"				

## 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](mailto: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](http://www.parker.com) or through the Oxnard office.

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