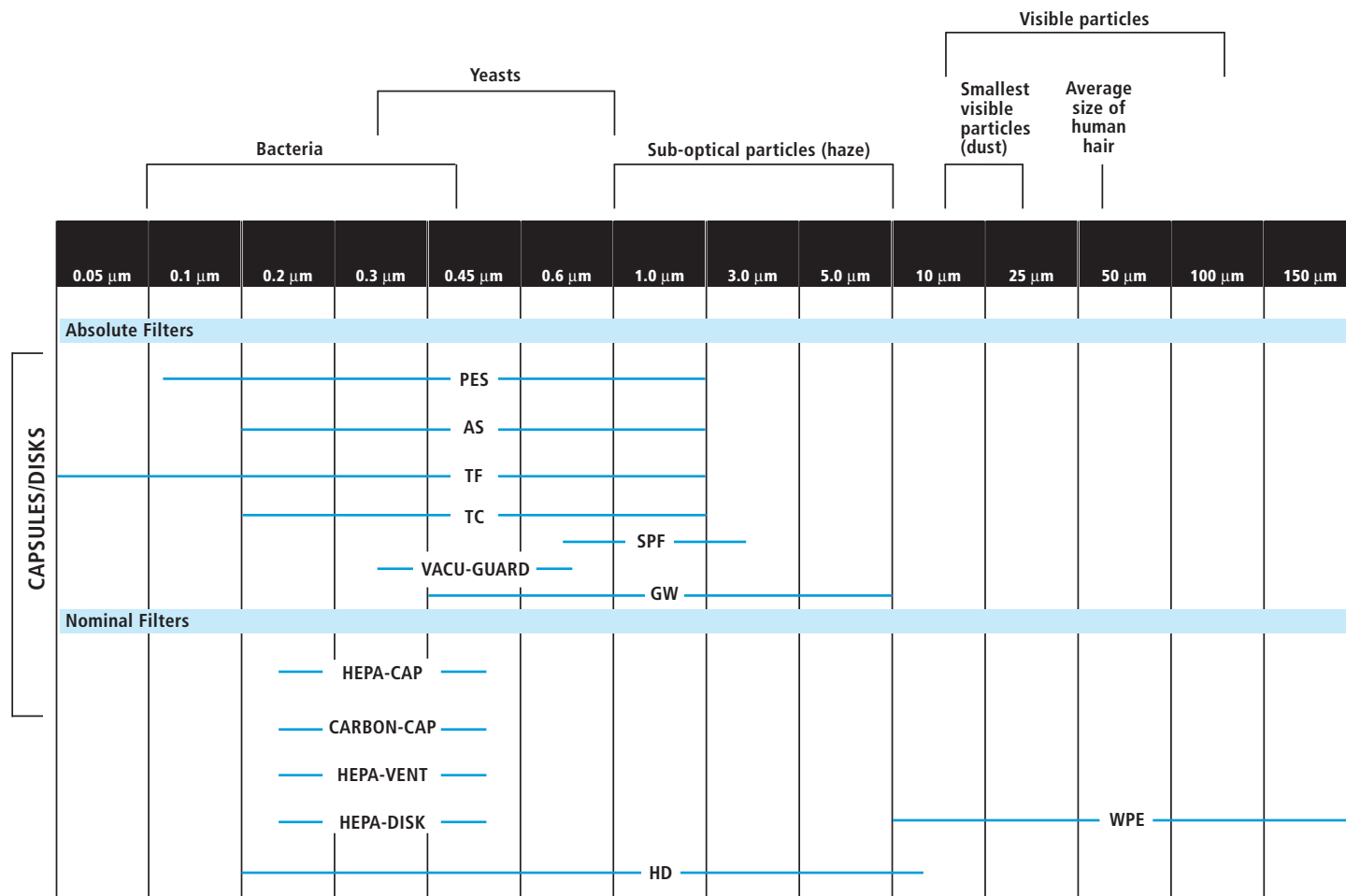


Capsule Filters

Product Overview



Polycap™

Whatman Polycap capsule filters are high surface area in-line devices for applications involving larger volumes of solution. The devices feature a high purity polypropylene housing which is free of adhesives or chemicals to ensure sample purity. They are available with a choice of pore sizes and are autoclavable (excluding products with a filling bell). Whatman offers a wide variety of Polycap filters to meet your specific needs.

Features and Benefits

- High surface area capsule filters
- Stepped hose barbs connect simply and quickly into tubing lines for immediate use
- Do not require expensive hardware
- Lower risk of spillage and leaks compared with traditional methods
- One capsule can act as a prefilter to another
- Can be used to dispense filtrate directly into unpressurized containers



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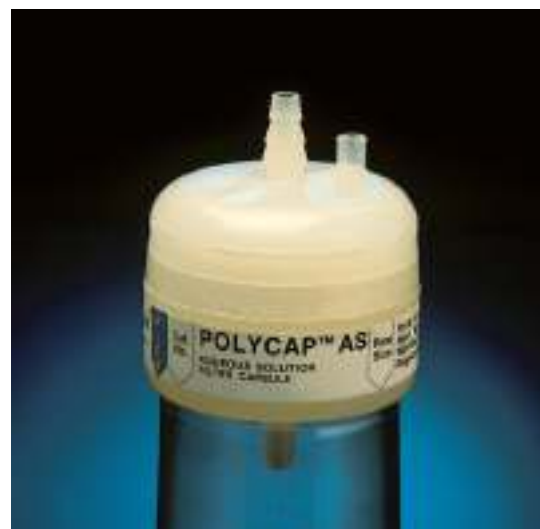
Polycap™ AS

Suitable for use with large volume aqueous samples, these capsules are pre-sterilized and are available with a filling bell to protect the outlet from contamination. The hose barb connections connect quickly and easily to 6–10 mm or 10–12 mm ID hoses. Also available with 1/4" MNPT inlets.

The devices contain a nylon membrane, which gives excellent flow rates and is very low in extractables. The capsules also contain a glass microfiber prefilter to prolong the life of the final filter and allow larger volumes and difficult samples to be filtered more easily.

Applications

- Salt solutions
- Cleaning/rinsing solutions
- Immunologicals
- Virus suspensions
- Buffers
- Nutrients
- Irrigation solutions



Ordering Information

Catalog Number	Membrane	Prefilter	Pore Size (µm)	Filtration Area (cm²)	Connections*		Flow Rate¹ liters/min @ 1.0 bar (14.5 psi)	Vent	Sterile	Quantity/ Pack
					Inlet	Outlet				
Polycap 36 AS										
6705-3602	Nylon	Glass microfiber	0.2	400	SB	SB	3.1	Yes	Yes	1
6705-3604	Nylon	Glass microfiber	0.45	400	SB	SB	3.7	Yes	Yes	1
6705-3610	Nylon	Glass microfiber	1.0	400	SB	SB	5.0	Yes	Yes	1
6708-3602	Nylon	Glass microfiber	0.2	400	1/2" SB	1/2" SB	—	Yes	Yes	1
6708-3604	Nylon	Glass microfiber	0.45	400	1/2" SB	1/2" SB	6.8	Yes	Yes	1
6709-3602	Nylon	Glass microfiber	0.2	400	MNPT	SB	—	Yes	Yes	1
6709-3604	Nylon	Glass microfiber	0.45	400	MNPT	SB	—	Yes	Yes	1
Polycap 36 AS with Filling Bell										
6706-3602	Nylon	Glass microfiber	0.2	400	SB	SB	3.0	Yes	Yes	1
Polycap 75 AS										
6705-7502	Nylon	Glass microfiber	0.2	820	SB	SB	4.0	Yes	Yes	1
6705-7504	Nylon	Glass microfiber	0.45	820	SB	SB	4.5	Yes	Yes	1
6705-7510	Nylon	Glass microfiber	1.0	820	1/2" SB	1/2" SB	18.2	Yes	Yes	1
6708-7502	Nylon	Glass microfiber	0.2	820	1/2" SB	1/2" SB	6.8	Yes	Yes	1
6708-7504	Nylon	Glass microfiber	0.45	820	1/2" SB	1/2" SB	11.0	Yes	Yes	1
6709-7502	Nylon	Glass microfiber	0.2	820	MNPT	1/2" SB	—	Yes	Yes	1
6709-7504	Nylon	Glass microfiber	0.45	820	MNPT	1/2" SB	—	Yes	Yes	1
Polycap 75 AS with Filling Bell										
6706-7502	Nylon	Glass microfiber	0.2	1000	SB	SB	4.0	Yes	Yes	1

¹ Typical values

* SB: Stepped barb for 6–10 mm 1/4"–3/8" tubing

1/2 SB: Stepped barb for 10–12 mm 3/8"–1/2" tubing

MNPT: Male National Pipe Thread

Polycap™ TF

Designed for use with organic solvents and chemically aggressive solutions. The devices contain a PTFE membrane. Polycap TF is available with standard hose barb and 1/4" MNPT connections.

Applications

- Biotechnology: sterile vents and exhausts for growth environments, in-line sterilization
- Laboratory: clean or sterile gases, solvents, reagents, drying gases
- Electronic: photoresists, solvents and gases for research
- Pharmaceutical: vents and in-line for laboratory systems

Ordering Information

Catalog Number	Membrane	Prefilter	Pore Size (µm)	Filtration Area (cm²)	Connections*		Flow Rate¹ liters/min @ 1.0 bar (14.5 psi)	Vent	Sterile	Quantity/ Pack
					Inlet	Outlet				
Polycap 36 TF										
6700-3602	PTFE	—	0.2	500	SB	SB	3.5	Yes	No	1
6700-3610	PTFE	Polypropylene	1.0	500	SB	SB	4.3	Yes	No	1
6710-3602	PTFE	—	0.2	500	1/2" SB	1/2" SB	4.7	Yes	No	1
6710-3604	PTFE	—	0.45	500	3/8"–1/2" SB	1/2" SB	—	Yes	No	1
6711-3601	PTFE	—	0.1	500	1/4" MNPT	SB	4.0	Yes	No	1
6711-3602	PTFE	—	0.2	500	1/4" MNPT	SB	4.5	Yes	No	1
6711-3604	PTFE	—	0.45	500	1/4" MNPT	SB	5.8	Yes	No	1
Polycap 75 TF										
6700-7501	PTFE	—	0.1	1000	SB	SB	4.6	Yes	No	1
6700-7502	PTFE	—	0.2	1000	SB	SB	4.1	Yes	No	1
6700-7504	PTFE	—	0.45	1000	SB	SB	7.8	Yes	No	1
6701-7510	PTFE	Polypropylene	1.0	1000	1/2" SB	1/2" SB	13.0	Yes	No	1
6710-7502	PTFE	—	0.2	1000	1/2" SB	1/2" SB	6.4	Yes	No	1
6710-7504	PTFE	—	0.45	1000	1/2" SB	1/2" SB	7.5	Yes	No	1
6711-7502	PTFE	—	0.2	1000	1/4" MNPT	SB	6.6	Yes	No	1
6711-7504	PTFE	—	0.45	1000	1/4" MNPT	SB	7.2	Yes	No	1
6711-7505	PTFE	—	0.05	1000	1/4" MNPT	SB	3.7	Yes	No	1

¹ Typical values

* SB: Stepped barb for 6–10 mm 1/4"–3/8" tubing

1/2" SB: Stepped barb for 10–12 mm 3/8"–1/2" tubing

MNPT: Male National Pipe Thread

NEW Polycap™ TC

Developed for the safe and efficient filtration of critical biological and tissue culture solutions. The capsule contains two layers of polyethersulfone membrane, which is inherently hydrophilic, low in extractables and has excellent flow rates. The membrane also exhibits low protein binding characteristics making it ideal for use with biologically sensitive solutions.

The device is supplied pre-sterilized and has a vent to evacuate any air to allow fast filtration. The outlet of the capsule

is protected to prevent touch contamination during set-up and has standard hose barb connections. Some capsules available with MNPT inlet fittings. Also available with filling bell for cleanliness assurance during filling.

Applications

- Pharmaceutical aqueous solutions
- Tissue culture media
- Reagent preparation
- Virus suspensions
- Particle counting solutions
- Cleaning, rinsing solutions



Ordering Information

Catalog Number	Membrane/ Media	Pore Size (µm)	Filtration Area (cm²)	Connections*		Water Flow Rate¹ liters/min @ 1.0 bar (14.5 psi)	Vent	Sterile	Quantity/ Pack
				Inlet	Outlet				
Polycap 36 TC									
6714-3601	PES	0.2/0.1	550	SB	SB	3.5	Yes	Yes	1
6714-3602	PES	0.2/0.2	550	SB	SB	5.3	Yes	Yes	1
6714-3604	PES	0.65/0.45	550	SB	SB	9.0	Yes	Yes	1
6714-3610	PES	1.0/1.0	550	SB	SB	12.0	Yes	Yes	1
Polycap 36 TC with Bell									
6715-3601	PES	0.2/0.1	550	SB	SB	3.5	Yes	Yes	1
6715-3602	PES	0.2/0.2	550	SB	SB	5.3	Yes	Yes	1
6715-3682	PES	0.8/0.2	380	SB	SB	7.6	Yes	Yes	1
6716-3602	PES	0.2/0.2	550	MNPT	SB	—	Yes	Yes	1
6715-3604	PES	0.65/0.45	550	SB	SB	9.0	Yes	Yes	1
Polycap 75 TC									
6714-7501	PES	0.2/0.1	1100	SB	SB	7.0	Yes	Yes	1
6714-7502	PES	0.2/0.2	1100	SB	SB	11.5	Yes	Yes	1
6717-7504	PES	0.65/0.45	1100	1/2" SB	1/2" SB	17	Yes	Yes	1
6714-7504	PES	0.65/0.45	1100	SB	SB	26	Yes	Yes	1
6717-7510	PES	1.0/1.0	1100	1/2" SB	1/2" SB	—	Yes	Yes	1
Polycap 75 TC with Bell									
6715-7501	PES	0.2/0.1	1100	SB	SB	7.0	Yes	Yes	1
6715-7502	PES	0.2/0.2	1100	SB	SB	11.5	Yes	Yes	1
6715-7582	PES	0.8/0.2	760	SB	SB	15.2	Yes	Yes	1
6716-7502	PES	0.2/0.2	1100	MNPT	SB	—	Yes	Yes	1
6718-7504	PES	0.65/0.45	1100	1/2" SB	SB	17	Yes	Yes	1

¹ Typical values

*SB: Stepped barb for 6–10 mm 1/4"–3/8" tubing

1/2" SB: Stepped barb for 10–12 mm 3/8"–1/2" tubing

MNPT: Male National Pipe Thread

Ordering Information continued

Catalog Number	Membrane/ Media	Pore Size (µm)	Filtration Area (cm²)	Connections*		Water Flow Rate¹ liters/min @ 1.0 bar (14.5 psi)	Vent	Sterile	Quantity/ Pack
				Inlet	Outlet				
Polycap 150 TC									
6717-9501	PES	0.2/0.1	2200	1/2" SB	1/2" SB	17	Yes	Yes	1
6717-9502	PES	0.2/0.2	2200	1/2" SB	1/2" SB	26	Yes	Yes	1
6717-9504	PES	0.65/0.45	2200	1/2" SB	1/2" SB	37	Yes	Yes	1
6717-9510	PES	1.0/1.0	2200	1/2" SB	1/2" SB	40	Yes	Yes	1
Polycap 150 TC with Bell									
6718-9502	PES	0.2/0.2	2200	1/2" SB	SB	26	Yes	Yes	1
6718-9582	PES	0.8/0.2	1140	1/2" SB	SB	—	Yes	Yes	1

¹ Typical values

*SB: Stepped barb for 6–10 mm 1/4"–3/8" tubing

1/2" SB: Stepped barb for 10–12 mm 3/8"–1/2" tubing

Polycap™ HD

Ideal for the filtration of aqueous and solvent samples at a range of pore sizes from 1 µm to 20 µm. The high loading depth filter design allows for clean-up of solution with high debris content. The capsules are available in two sizes and have standard hose barb connections for use with 6–10 mm or 10–12 mm ID hoses.

Applications

- Fine filtration
- Prefiltration
- Sample preparation
- Solvents
- Buffers
- Reagents



Ordering Information

Catalog Number	Membrane	Prefilter	Pore Size (µm)	Filtration Area (cm²)	Connections*		Flow Rate¹ liters/min @ 1.0 bar (14.5 psi)	Vent	Sterile	Quantity/ Pack
					Inlet	Outlet				
Polycap 36 HD										
6703-3610	PP	No	1.0	400	SB	SB	4.0	No	No	1
6703-3650	PP	No	5.0	400	SB	SB	5.5	No	No	1
6703-3611	PP	No	10.0	400	SB	SB	6.5	No	No	1
6703-3621	PP	No	20.0	400	SB	SB	9.0	No	No	1
Polycap 75 HD										
6703-7510	PP	No	1.0	820	1/2" SB	1/2" SB	8.0	No	No	1
6703-7550	PP	No	5.0	820	1/2" SB	1/2" SB	14.0	No	No	1
6703-7511	PP	No	10.0	820	1/2" SB	1/2" SB	21.0	No	No	1
6703-7521	PP	No	20.0	820	1/2" SB	1/2" SB	>30.0	No	No	1

¹ Typical values

*SB: Stepped barb for 6–10 mm 1/4"–3/8" tubing

1/2" SB: Stepped barb for 10–12 mm 3/8"–1/2" tubing

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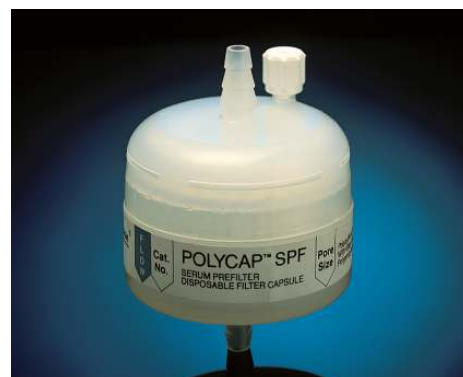
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Polycap™ SPF

Specifically designed to prefilter serum in preparation for final filtration or sterilization. The capsule contains layers of glass microfiber, ultrafine glass microfiber and a final 1.0 µm polyethersulfone membrane for the easy filtration of heavily loaded samples. Polycap SPF is available in two sizes and has hose barb connections for use with 6–10 mm ID hoses.

Applications

- Serum prefiltration
- Tissue culture
- Immunoassay methods
- Diagnostic standards/controls



Ordering Information

Catalog Number	Membrane	Prefilter	Pore Size (µm)	Filtration Area (cm²)	Connections*		Flow Rate¹ liters/min @ 1.0 bar (14.5 psi)	Vent	Sterile	Quantity/ Pack
					Inlet	Outlet				
Polycap 36 SPF										
6705-3600	PES	Glass microfiber	1.0	260	SB	SB	4.0	Yes	No	1
Polycap 75 SPF										
6705-7500	PES	Glass microfiber	1.0	535	SB	SB	13	Yes	No	1

¹ Typical values

*SB: Stepped barb for 6–10 mm 1/4"–3/8" tubing.

NEW Polycap™ GW

The new Whatman Polycap GW high-capacity capsule is the perfect choice for sample filtration for ground water analysis. Widely used by organizations who must meet strict environmental protocol standards, Polycap GW capsules combine consistent high quality, durability

and ease-of-use. Polycap GW capsules are certified for low metal extractables and suitable for the EPA Method 3005 filtration procedure.

Applications

- Filter ground water samples before dissolved metal analysis



Ordering Information

Catalog Number	Membrane/ Media	Pore Size (µm)	Filtration Area (cm²)	Connections*		Water Flow Rate¹ liters/min @ 1.0 bar (14.5 psi)	Vent	Sterile	Quantity/ Pack
				Inlet	Outlet				
Polycap GW									
6714-6004	PES	0.45	600	SB	SB	60	Inlet	Yes	1
6703-6010	PP	1.0	600	SB	SB	60	Inlet	Yes	1
6703-6050	PP	5.0	600	SB	SB	60	Inlet	Yes	1
6724-6004	PES	0.45	600	SB	SB	60	Inlet	Yes	100
6723-6010	PP	1.0	600	SB	SB	60	Inlet	Yes	100
6723-6050	PP	5.0	600	SB	SB	60	Inlet	Yes	100

¹ Typical values

*SB: Stepped barb for 6–10 mm 1/4"–3/8" tubing.

Carbon Cap™

The Whatman Carbon Cap in-line capsule device is ideal for applications involving compressed air lines, vacuum pumps or instrument exhaust emissions. Carbon Cap features a high purity polypropylene housing with hose barb connections to connect to a 12 mm ID hose.

The capsule contains a high purity granular activated carbon and has a pleated glass microfiber HEPA filter at the base of the unit which retains 99.97% of all particles greater than 0.3 µm.

Features and Benefits

- Large surface area of activated carbon for effective operation
- Two sizes of capsule available to suit your specific application

Applications

- Water, chemical and reagent purification
- Removes noxious odors, oil mists and contaminants
- Decolorizing and oil clarification
- Compressed air lines and vacuum pumps
- Instrument outlet exhausts
- Eliminates a potential health hazard from the workplace



Typical Data

	Carbon Cap 75	Carbon Cap 150
Media	Activated carbon + HEPA	Activated carbon + HEPA
Surface Area	26000 m ²	82000 m ²
Dimensions	96 mm x 66 mm (overall length 166 mm)	183 mm x 66 mm (overall length 252 mm)
Connectors	12 mm OD 1/2" hose barb	10–12 mm OD 3/8"–1/2" SB
Air Flow Rate (SLPM) 0.02 bar (0.3 psi)	72.0	57.5
0.11 bar (1.6 psi)	212.0	150.0
Water Flow Rate (LPM) 0.35 bar (5 psi)	8.8	4.5

Ordering Information

Catalog Number	Description	Quantity/Pack
6704-7500	Carbon Cap 75	1
6704-1500	Carbon Cap 150	1