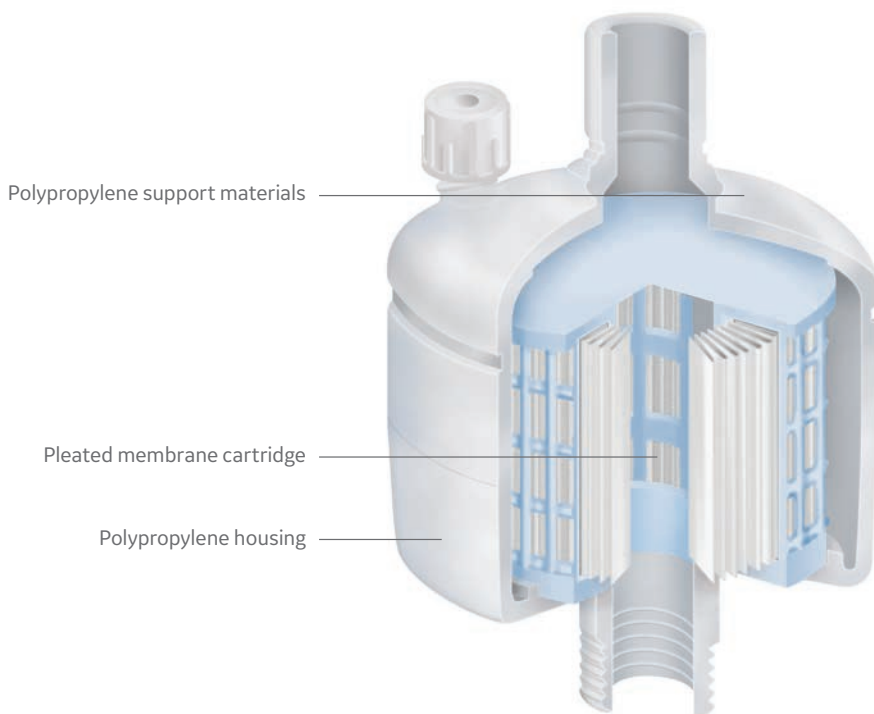




Whatman™ purification solutions

Whatman capsule filters supporting cell culture include the Whatman Polycap TC for lysate pre-clearance and Whatman PolyVENT for bioreactor venting. Whatman capsules are manufactured with tightly controlled pore size specifications and pleated with surface area maximizing techniques in order to ensure maximum filtration efficiency for the capsule's size.



Polycap TC

Polycap TC are disposable, dual layer Polyethersulfone (PES) membrane filtration capsules that provide efficient filtration for critical aqueous solutions. The PES membrane is inherently hydrophilic, has excellent flow rates, low extractables, is biosafe, and exhibits low protein binding.



Technical specification

Housing:	Polypropylene
Vent:	On inlet
Membrane:	Polyethersulfone (PES)
Support system:	Polypropylene
Sealing:	Heat fused
Maximum pressure:	4.1 bar (60 psi)
Flow direction:	If there is a prefilter, it is located on the inlet side and flow should follow arrows
Nonpyrogenic:	LAL tested, nonreactive
Biosafety:	Materials pass USP Class VI

Sterilization:	Certain filter devices have been sterilized.* They may be autoclaved once at a minimum of 121°C for 20 min (maximum 132°C). However, an integrity test should be performed after autoclaving. [*Sterile and nonsterile options offered.]
Nominal filtration area:	36 mm capsule: ~ 440 cm ² (72 in ²) 75 mm capsule: ~ 930 cm ² (144 in ²) 150 mm capsule ~ 1900 cm ² (302 in ²)
Water bubble point (final membrane):	0.1 µm membrane: > 3.2 bar (46 psi) 0.2 µm membrane: > 2.7 bar (40 psi) 0.45 µm membrane: > 2.1 bar (30 psi) 1.0 µm membrane: > 1.1 bar (16 psi)

PolyVENT

PolyVENT is an integral filter product for sterile venting of vessels, fermentors, and tanks. These devices are constructed from a single, standardized set of materials—a 0.2 µm PTFE membrane and polypropylene housing—to simplify the approval process.



Technical specification

Housing:	Polypropylene
Filter media:	PTFE
Pore size:	0.2 µm
Vent:	On inlet
Support system:	Polypropylene
Sealing:	Heat fused
Maximum pressure:	2 bar (29 psi) — forward direction
Water breakthrough:	2 bar (29 psi)/15 seconds
Flow direction:	Supported bidirectionally. Certain applications may require orientation, (i.e., vents). The pressure rating is not the same in both directions. Reverse flow only for low pressure applications.

Biosafety:	Materials pass USP Class VI
Sterilization:	Can be autoclaved at 121°C for 20 min (maximum 132°C). Multiple autoclave cycles are possible. However, the responsibility for reuse is with the operator. The device should be protected from cross contamination. An integrity test should be performed after autoclaving. Compatible with EtO sterilization.
Nominal filtration area:	36 mm capsule: 500 cm ² 75 mm capsule: 1000 cm ² 150 mm capsule: 2000 cm ²

Ordering information

Inlet							
Outlet							

PolyVENT							
0.2 µm	36 mm	6713-5036 [‡]	2103 [‡]				
	75 mm		6713-1075 [‡]				
	150 mm		2107 [‡]				2108 [‡]
Polycap TC, PES membrane							
0.2/0.1 µm	36 mm	6714-3601 ^{* ‡}					
	75 mm	6714-7501 ^{* ‡}					
	150 mm		6717-9501 ^{* ‡}				
0.2/0.2 µm	36 mm (bell)	6715-3601 ^{* ‡}					
	75 mm	6714-3602 ^{* ‡}					
	150 mm	6714-7502 ^{* ‡}					
0.8/0.2 µm	36 mm (bell)	6715-3602 ^{* ‡}					
	75 mm (bell)	6715-7502 ^{* ‡}					
	150 mm (bell)		6718-9502 ^{* ‡}				6704-9502 [§]
0.6/0.45 µm	36 mm	6714-3604 ^{* ‡}					
	75 mm		6717-7504 ^{* ‡}				
	150 mm		6717-9504 ^{* ‡}				
1.0/1.0 µm	36 mm (bell)	6715-3604 ^{* ‡}					
	75 mm		6717-7510 ^{* ‡}				

* Indicates sterile products

§ 5 per pack

‡ 1 per pack

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