

Hall Pyke



Capsule Filtration

Hall Pyke Capsules

The SMART choice for filtration

Hall Pyke Capsules

Hall Pyke capsules are designed and manufactured by Critical Process for small flow and encapsulated disposable cartridge requirements. CP capsules are offered in a wide range of pleated and depth medias and offered in four grades; general, food / beverage, electronic and pharmaceutical. Each Capsule has been designed to hold the maximum amount of filter media that can be completely and effectively utilized in a capsule. CP capsules lower the cost of filtration and reduce the need for high cost metallic housings. They are well suited for liquids and gas applications with the same attention to quality, traceability, validation and testing.

Construction Materials¹

Housing:	Polypropylene	
Filtration Media:	Membranes	Depth Pleated
	Polyethersulfone	Polypropylene
	Nylon	Fiberglass
	Polypropylene	
	PTFE	

Sanitization / Sterilization

Filtered Hot Water: 1940F (90°C)
Autoclave: 2600F (127°C), 30 min, multiple cycles

Chemical Sanitization:

Industry standard concentrations of hydrogen peroxide, paracetic acid, sodium hypochlorite and other selected chemicals. Sanitization protocols designed to extend the useful life of CP capsules are available from Critical Process Filtration, Inc.[®].

Pre Sterilized:

CP capsules are offered in both a non and pre sterilized grade.

Filtration Media Support:	Polypropylene
Support Components:	Polypropylene
Sealing Method:	Heat - Fused

¹All materials of construction are FDA accepted. Final assemblies have been validated to pass USP class 6 Toxicology extractable tests, oxidizable substances for plastics, endotoxin level and other quality

Inlet & Outlet Options

1/4" Female NPT	1/2" Male NPT
1/4" Male NPT	Sanitary
3/8" Female NPT	Hose Barb.
1/2" Female NPT	

Vent & Drain

Standard with LuerLok[®] ports and caps



Maximum Operating Parameters

Liquid Operational Pressure: 80 psi (5.5 bar) at 20°C.
 Gases Operational Pressure: 60 psi (4.1 bar) at 20°C.
 Forward Differential Pressure: 50 psi (3.4 bar) at 20°C.
 Reverse Differential Pressure: 40 psi (2.7 bar) at 20°C.
 Operating Temperature: 110°F (43°C) at ≤ 30 psi (1.4 bar) in water.
 Recommended Change Out Pressure: 20 psid (2.4 bar)

Pore Size

Removal Ratings: 0.03 to 100 microns

Dimensions

Nominal Length: (length based on capsules with hose barb connections)					
Capsule	2"	5"	10"	20"	30"
Inches	5"	8 5/8"	13 3/8"	22 7/8"	32 7/16"
cm	12.7	22.0	33.9	58.2	82.4

Surface Area					
Feet	1.0ft ²	3.0ft ²	6.8ft ²	on request	on request
cm	930cm ²	2788cm ²	6318cm ²	on request	on request

Outside Diameter: 3.50 inches (8.9 cm) nominal



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