CAG-Clean Capsule Filter

Introduce：

The CAG Clean filters are made entirely of polypropylene and designed to filter liquid process chemicals at flow rate of less than 10 liters per minute. The disposable filter which is fully encapsulated in a compact and easy-to-handle housing shell is cost effective for low-volume filtration. All the products are manufactured, tested, and packaged in a cleanroom to ensure the cleanliness.

Specification：

Medium: 100% polypropylene.
Support, shell, drainage, core and caps: 100% polypropylene
Sealing method: thermal welding, eliminating adhesive extractable
Vent at highest location
Drain at lowest location
Toxicity:
Complies with USP XXI Class VI for plastics.
Non-toxic per WI-38 Human Cell Cytotoxicity Test.
All materials meet FDA regulations for food contact.

Configurations	Typical Application
Absolute Micron Rating	Chemical delivery system
0.2, 0.45, 0.65, 1.0, 1.5, 5.0, 10, 20, 30, 40	Filtration of solvents
Beta Ration=5000; 99.98% removal efficiency	Mixed acids
Filtration Area	UHP water
1.3ft2 (0.12m2)	Photoresists
Length: 4.5” (114mm), 4.9” (124mm)	Sterile tank venting
Cartridge outside diameter: 2.83 (72mm)	Bioreactor inlet and outlet filtration
Length of medium: 2.5”(63.5mm), 5” (127mm)	Bulk and POU gases
	Compressed gases

Code Principle：

CAG - PP - B20 - X - 25

Capsule Code

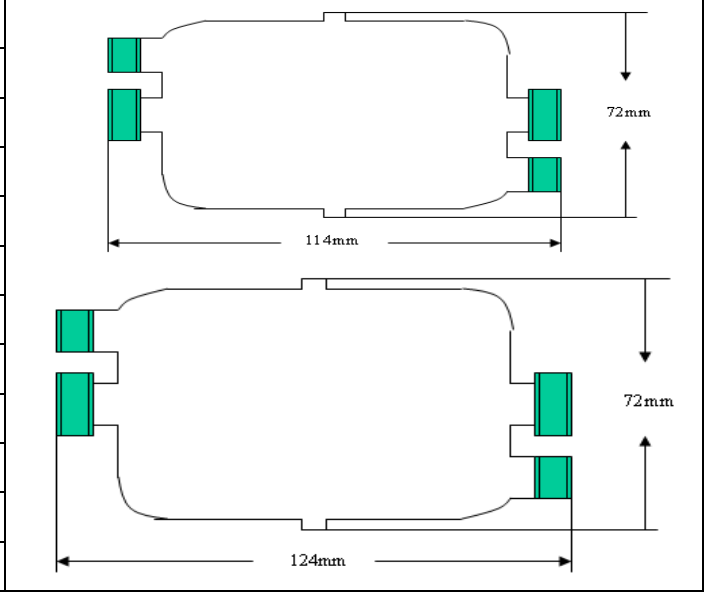
Media Material
PP: Polypropylene
PS: Polyethersulfone
TF: PTFE
DF: PVDF

Micron Rating
B20: 0.2μm
B45: 0.45μm
B65: 0.65um
C10: 1μm
C15: 1.5um
C50: 5μm
D10: 10um
D20: 20um
D30: 30um
D40: 40um

Connection In/Outlet , Vent / Drain
U: 1/2”, 1/4” NPT
V: 1/4”, 1/4” NPT
W: 3/8”, 1/4” SW*
X: 1/4”, 1/4” SW
Y: 1/2”, 1/4” SW
Z : 1/4”, 1/8” SW

Length of medium
25: 2.5”
50: 5”

* SW means Swagelok which is a trademark of Swagelok Co.,

Operating Conditions	Dimension
Recommended Change out P	
►35psid (2.4bar)	
►Maximum temperature: 200℉(93℃)	
Maximum differential pressure	
►Forward: 70psid @ 77℉ (4.8bar @ 25℃)	
40psid @ 176℉(2.8bar @ 80℃)	
►Reverse: 45psid @ 77℉(3.0bar @ 25℃)	
22psid @ 200℉(1.5bar @ 93℃)	
Sterilization	
►Autoclaved 20cycles/30min.	
►Steamed 2.0bar forward @ 121℃	
1.5bar reverse @ 121℃	

Initial Pressure Drop：