

BIO-PRO

Filtration For Bioprocessing

Capsule-Clear DC

Purolator Depth-Clear™ Media Capsules



MATERIALS OF CONSTRUCTION

Sealing Method	Thermal Bonding
Capsule	Polypropylene
Inlet and Outlet	Polypropylene
Media Support	Polypropylene
Depth-Clear Media	Cellulose, Binding Resin; Diatomaceous Earth or Carbon

OPERATING CONDITIONS

Max. Operating Temperature	176 °F (80 °C)
Max. Forward Differential Pressure	36 psid (2.5 bar) @ 122 °F (50 °C)
Max. Forward Differential Pressure	17 psid (1.2 bar) @ 176 °F (80 °C)

DESCRIPTION

Purolator's **BIO-PRO** Capsule-Clear DC Cellulose Depth Media filter capsules have been designed for simple, quick, and efficient filtration of fluids used in laboratory, pilot, and small scale applications. The compact design of the filter capsule reduces hold-up volume and minimizes exposure to hazardous chemicals. No adhesives, binders, or surfactants are used in the manufacturing process. The unit is thermally sealed to ensure integrity and is available in effective filtration areas from 120 cm² to 900 cm². Each capsule is vented with two o-ring sealed bleed valves and has 10 different fittings offered for the capsule inlet and outlet.

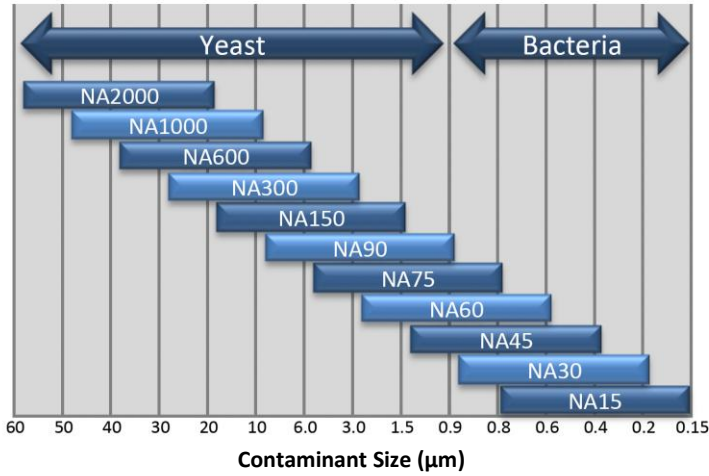
APPLICATIONS

- Blood Products
- Vaccines
- Monoclonal Antibodies
- Small Volume Clarification
- Cell Separation
- Chemicals
- Purified Protein
- Diagnostics
- Pharmaceuticals
- Sera

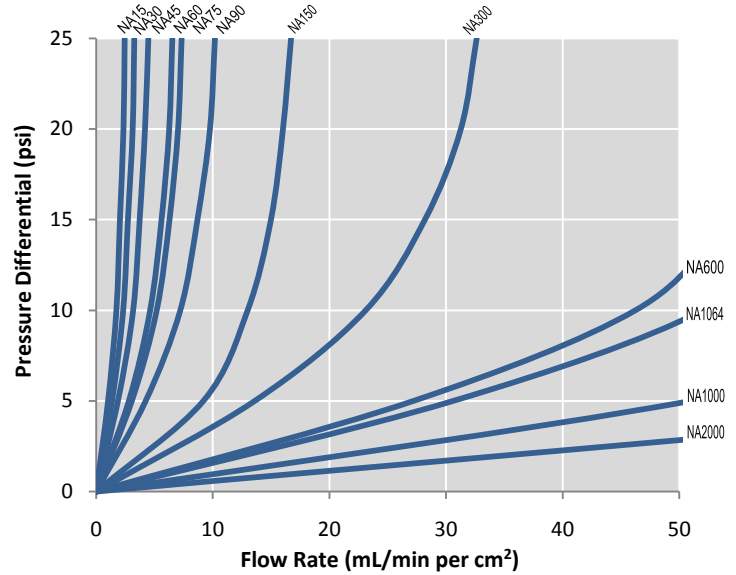
FEATURES AND BENEFITS

- Available fitting connections include hose barb, NPT, tri-clamp, compression, luer lock, quick coupling, and filling bell.
- All materials of construction meet the requirements of USP Biological Test for Plastics, Class VI, 121 °C and meet the FDA requirements for food contact use as detailed in 21 CFR.
- Capsule filters are assembled at an ISO 9001 facility in a Class 10,000 clean room.
- Can be autoclaved for 60 minutes at 259 °F (126 °C)

EFFICIENCY



FLOW RATE



CAPSULE SELECTION GUIDE

W	N A	1 0 0 0
Style	Media	Grade
W = Capsule	NA = Depth-Clear	15 = 0.15 μm
		30 = 0.3 μm
		45 = 0.45 μm
		60 = 0.6 μm
		75 = 0.75 μm
		90 = 0.9 μm
		150 = 1.5 μm
		300 = 3.0 μm
		600 = 6.0 μm
		1000 = 10 μm
		2000 = 20 μm
		1064 = Carbon

K P	1	A	A
Series	Filtration Area	Inlet	Outlet
KP = Pharmaceutical	1 = 120 cm²	A = ¼" HB	A = ¼" HB
KPLE = Low Extractable Pharmaceutical	2 = 250 cm²	B = ½" HB	B = ½" HB
	3 = 450 cm²	C = ¼" MNPT	C = ¼" MNPT
KC = Carbon	4 = 900 cm²	E = 1 ½" TC	E = 1 ½" TC
		F = ⅛" HB	F = ⅛" HB
		G = ⅜" HB	G = ⅜" HB
		O = ½" T.C.	O = ½" T.C.
		Q = ¼" M QC	Q = ¼" M QC
		w/M.Latch	w/M.Latch
		R = ¼" F QC	R = ¼" F QC
		w/M.Latch	w/M.Latch
			GV = ⅜" HB
			+ Filling Bell



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