



DESCRIPTION

Purolator's **BIO-PRO** Capsule-Clear PP filters are manufactured with advanced graded density polypropylene media designed to provide sharp particle cut offs and are compatible with a broad range of chemicals and pH extremes. The filters are intended as clarification filters and pre-filters to membrane filters where high flow rates and high throughputs are a requirement. We provide 20 different end fittings including quick disconnects.

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.
- Capsules are 99% retentive at the stated micron rating.
- Capsule filters are assembled at an ISO 9001 Facility in a Class 10,000 clean room.

MATERIALS OF CONSTRUCTION

Media	Polypropylene
Supports	Polypropylene
Capsule, Core	Polypropylene
Inlet, Outlet	Polypropylene
Sealing Method	Thermal Bonding

OPERATING CONDITIONS

Maximum Operating Temperature	176 °F (80 °C)
Maximum Forward Differential Pressure	73 psid (5.0 bar) 68 °F (20 °C)
Maximum Forward Differential Pressure	36 psid (2.5 bar) 122 °F (50 °C)
Maximum Forward Differential Pressure	17 psid (1.2 bar) 176 °F (80 °C)
Maximum Reverse Differential Pressure	44 psid (3.0 bar) 68 °F (20 °C)

STERILIZATION

Autoclave	60 Minutes, 259 °F (126 °C), up to 6x
Gamma Irradiation	Capsules will withstand irradiation to 45 kGy


FLOW RATE

	Size 1 (550 cm ²)	Size 2 (1,100 cm ²)	Size 3 (2,050 cm ²)	Size 4 (4,100 cm ²)
WP006S1 with 1.5" Tri Clamps	1.51 lpm/2 psid	2.64 lpm/2 psid	5.63 lpm/2 psid	12.0 lpm/2 psid
WP012S1 with 1.5" Tri Clamps	2.65 lpm/2 psid	4.72 lpm/2 psid	9.45 lpm/2 psid	12.0 lpm/1 psid
WP025S1 with 1.5" Tri Clamps	5.63 lpm/2 psid	9.45 lpm/2 psid	9.45 lpm/1 psid	12.0 lpm/<1 psid
WP050S1 with 1.5" Tri Clamps	9.45 lpm/1 psid	12.0 lpm/<1 psid	12.0 lpm/<1 psid	12.0 lpm/<1 psid
WP100S1 with 1.5" Tri Clamps	12.0 lpm/1 psid	12.0 lpm/<1 psid	12.0 lpm/<1 psid	12.0 lpm/<1 psid
WP300S1 with 1.5" Tri Clamps	12.0 lpm/<1 psid	12.0 lpm/<1 psid	12.0 lpm/<1 psid	12.0 lpm/<1 psid
WP500S1 with 1.5" Tri Clamps	12.0 lpm/<1 psid	12.0 lpm/<1 psid	12.0 lpm/<1 psid	12.0 lpm/<1 psid
WP700S1 with 1.5" Tri Clamps	12.0 lpm/<1 psid	12.0 lpm/<1 psid	12.0 lpm/<1 psid	12.0 lpm/<1 psid

CAPSULE SELECTION GUIDE



W	P	O	O	I	S	I	I	A	A
Style	Media	Grade			Series	Layer	EFA	Inlet	Outlet
W = Capsule	P = Polypropylene	006 = 0.6 μm			S = Standard	1 = Single	1 = 600 cm ²	A = ¼" to ⅜" HB	A = ¼" to ⅜" HB
		012 = 1.2 μm					2 = 1,200 cm ²	B = ½" HB	B = ½" HB
		025 = 2.5 μm					3 = 2,400 cm ²	C = ¼" MNPT	C = ¼" MNPT
		050 = 5 μm					4 = 4,800 cm ²	D = ¼" FNPT	D = ¼" FNPT
		100 = 10 μm						E = 1 ½" T.C.	E = 1 ½" T.C.
		200 = 20 μm						F = ⅛" HB	F = ⅛" HB
		300 = 30 μm						G = ⅜" HB	G = ⅜" HB
		500 = 50 μm						H = ⅛" FNPT	H = ⅛" FNPT
		700 = 70 μm						I = ½" MNPT	I = ½" MNPT
								J = ⅜" FNPT	J = ⅜" FNPT
								K = ¼" Compression	K = ¼" Compression
								L = ⅜" Compression	L = ⅜" Compression
								M = ½" Compression	M = ½" Compression
								N = Large F Luer	N = Large F Luer
								O = ½" T.C.	O = ½" T.C.
								P = ⅛" Q.C. F M.L.	P = ⅛" Q.C. F M.L.
								Q = ¼" Q.C. M for M.L.	Q = ¼" Q.C. M for M.L.
								R = ¼" Q.C. F M.L.	R = ¼" Q.C. F M.L.
								T = ½" Q.C. M for M.L.	T = ½" Q.C. M for M.L.
								GV = ⅜" HB + Filling Bell	GV = ⅜" HB + Filling Bell

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