

DESCRIPTION

Purolator's **BIO-PRO Poly-Clear** filter cartridges deliver high efficiency and consistent filtration of fluids in a wide range of critical applications. **Poly-Clear** filter cartridges are constructed of pleated melt blown filter media that provide absolute removal of particles from 0.6 to 50 μm . The high surface area **Poly-Clear** filters ensure long service life and low initial pressure drops.

All cartridge hardware components are high purity polypropylene materials for use in critical process applications. **Poly-Clear** cartridges are manufactured and assembled in a clean room environment to minimize the possibility of contamination. **Poly-Clear** series cartridges are available in a wide range of configurations to fit most commercially available filter housings.

FEATURES AND BENEFITS

- Filter cartridges are constructed of microfiber melt blown media to provide high area, surfactant-free and non-fiber releasing filtration.
- Multi-layered filter media is optimized for high efficiency particle removal and high contaminant holding capacity resulting in longer on-stream life cycles.
- 100% polypropylene materials of construction provide wide chemical compatibility with acids, bases, salts, and most organic solvents. The high purity construction assures quick rinse up in high purity applications.
- All materials of construction are FDA-listed for food and beverage contact according to CFR Title 21 and comply with USP Class VI toxicity tests for plastics.
- Durable, thermal bonded construction ensures cartridge integrity under severe operating conditions. No adhesives, binders, lubricants, or anti-static agents are used in the manufacturing process.
- Pharmaceutical grade offers 100% lot traceability and can be autoclaved or steam sterilized.

MATERIALS OF CONSTRUCTION

Media	Polypropylene
Support Layers	Polypropylene
Core, Cage, End Caps	Polypropylene
Gasket, O-Ring	Ethylene Propylene, Silicone, Buna-N, Neoprene, Teflon, Viton

OPERATING CONDITIONS

Maximum Operating Temperature	185 °F (85 °C)
Maximum Differential Pressure	80 psid (5.5 bar) 70 °F (21 °C)
Maximum Forward Differential Pressure	35 psid (2.4 bar) 175 °F (80 °C)
Maximum Reverse Differential Pressure	50 psid (3.4 bar) 70 °F (21 °C)

NOMINAL DIMENSIONS

	A	B	C	D
Diameter (in)	2.7	2.7	2.7	2.7
Diameter (cm)	6.9	6.9	6.9	6.9
Length (in)	10	20	30	40
Length (cm)	25	51	76	102
Filtration Area (ft ²)	6.2	12.4	18.6	24.8
Filtration Area (m ²)	0.6	1.2	1.7	2.3


SANITIZATION

Max 10 Cycles	30 Minutes, 250 °F (121 °C)
Max 1 Cycle	30 Minutes, 279 °F (126 °C)

CARTRIDGE SELECTION GUIDE

P	0	0	6	S	A	3	0	1	N
Media	Grade			Series	Length	Cartridge Style	O-Ring		Utilization
P = Polypropylene	006 = 0.6 µm 012 = 1.2 µm 025 = 2.5 µm 050 = 5.0 µm 100 = 10.0 µm 200 = 20.0 µm 500 = 50.0 µm 500 = 50.0 µm			S = Standard P = Pharmaceutical	A = 10" B = 20" C = 30" D = 40"	2 = DOE 3 = 222 O-Ring/Fin 4 = Internal O20 Ring/Flat 6 = DOE/Internal 120 Ring 7 = 226 O-Ring/Fin 7a = 226 O-Ring/Flat 8 = 222 O-Ring/Fin	01 = EPR 02 = Neoprene 03 = Silicone 04 = Buna-N 08 = Viton 09 = Teflon Gasket 11 = Teflon/Viton		N = Non Steam Sterilizable S = Encapsulated SST Steam Ring



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FILTRATION  DISPOSABLE BIOPROCESSING  BIOFUELS



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