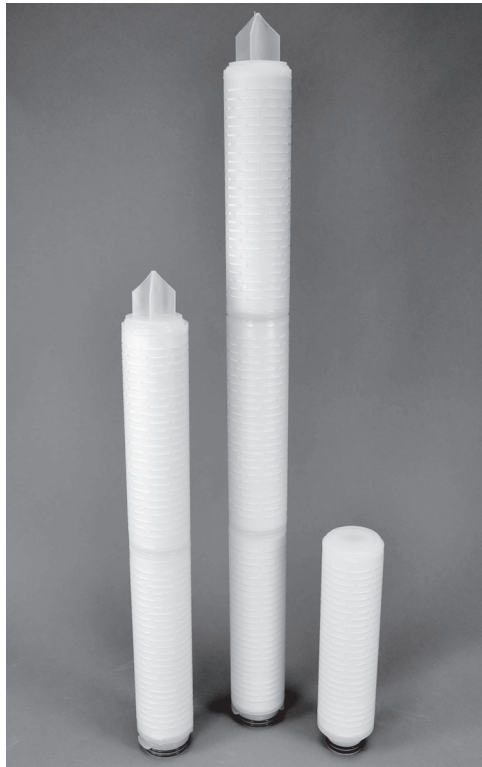


# BIO - PRO

Filtration For Bioprocessing

# Teflo-Clear™

High Surface Area Hydrophobic PTFE Cartridges



## DESCRIPTION

Purolator's **BIO-PRO Teflo-Clear™** pleated PTFE membrane cartridges are carefully constructed for the Bio-Pharm, beverage, and fine chemical industries to provide secure reliable filtration for gases and solvents.

**Teflo-Clear™** is constructed with high throughput, single layered PTFE membrane for high flow rates in critical applications, such as tank venting where instantaneous air flow is required. **Teflo-Clear™** can provide sterile air for pneumatic conveying of liquid products where the introduction of airborne bacteria can destroy valuable products.

**Teflo-Clear™** is excellent for filtering solvents that would damage other membrane materials. The polypropylene support materials in combination with the PTFE membrane give the filters a broad chemical resistance spectrum while maintaining complete integrity. **Teflo-Clear™** 0.2 µm filter is validated for absolute bacterial retention with the challenge data correlated to Water Intrusion Testing.

## APPLICATIONS

- Instrument and Clean Process Air
- Sterile Filtration of Air and Gas
- Sterile Filtration of Solvents
- Industrial Fermentation
- Containment Filter for Kill Tanks
- Vent for Autoclaves, Stills, and WFI Tanks
- Bulk Tank Vents
- Clean Gases
- Fermentation Gases
- Sterile Venting

## FEATURES AND BENEFITS

- High Flow Rates, Low Pressure Drop
- Bacterial Challenge Tested
- Validated for Multiple Steaming Cycles
- Single Layer PTFE Construction
- Integrity Testable
- Available in 10, 20, 30, and 40 Inch Lengths
- Encapsulated Stainless Steel Ring Available for Steam Sterilizing

## MATERIALS OF CONSTRUCTION

|                     |                     |
|---------------------|---------------------|
| Filter Membrane     | Hydrophobic PTFE    |
| Support Media       | Polypropylene       |
| Cage, Core, Endcaps | Polypropylene       |
| O-Rings, Gaskets    | EPR, Silicone, PTFE |

## OPERATING CONDITIONS

|                            |                                   |
|----------------------------|-----------------------------------|
| Maximum Operating Pressure | 60 psid (4 bar)<br>68 °F (20 °C)  |
| Maximum Operating Pressure | 30 psid (2 bar)<br>140 °F (60 °C) |

## INTEGRITY

|                                     | A   | B   | C   | D   |
|-------------------------------------|-----|-----|-----|-----|
| Max Water Intrusion at 30 psid (mL) | 0.6 | 2.4 | 4.2 | 7.3 |
| Min Bubble Point 70/30 IPA (psi)    | 50  | 36  | 20  | 14  |
| Min Bubble Point 70/30 IPA (bar)    | 20  | 20  | 20  | 20  |

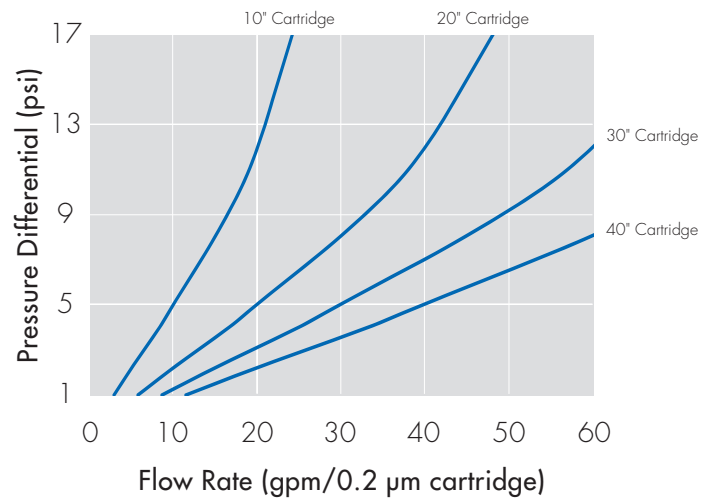
## NOMINAL DIMENSIONS

|                                    | 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 <sup>2</sup> ) | 6.7 | 13.4 | 20.1 | 26.8 |
| Filtration Area (m <sup>2</sup> )  | 0.6 | 1.2  | 1.9  | 2.5  |

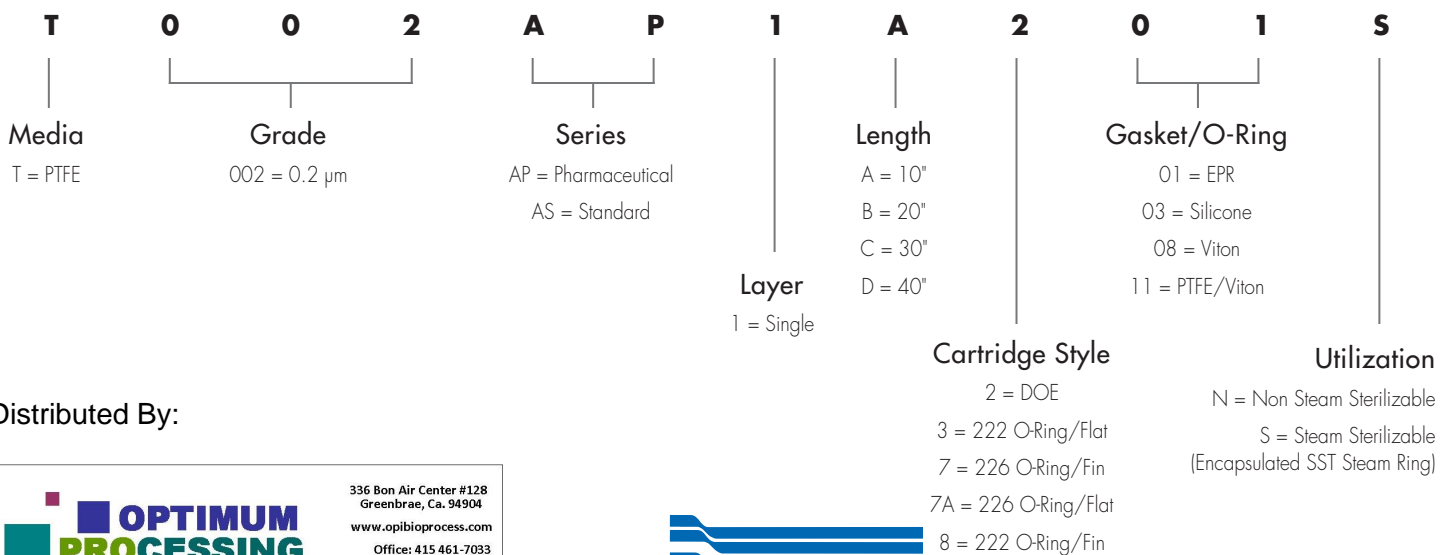
## STERILIZATION

|               |   |
|---------------|---|
| Autoclave     | 30 Minutes, 259 °F (126 °C)             |
| In-line Steam | 200 cycles, 30 Minutes, 275 °F (135 °C) |


## FLOW RATE



## CARTRIDGE SELECTION GUIDE






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  DISPOSABLE BIOPROCESSING
  BIOFUELS



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