



## PROCLEAR PP DEMICAP Disposable Capsules

- liquid filters
- polypropylene media

**PROCLEAR PP disposable capsules are designed for a wide range of prefiltration duties within the production of pharmaceuticals and are particularly suited to applications where chemical compatibility is an issue.**

The optimum pleat configuration and graded density polypropylene media used in PROCLEAR PP disposable capsules ensure the filters have the highest possible throughput to blockage resulting in long service life.

The PROCLEAR PP range of disposable capsules is fully supported by a comprehensive validation guide to simplify its specification into new and existing processes.

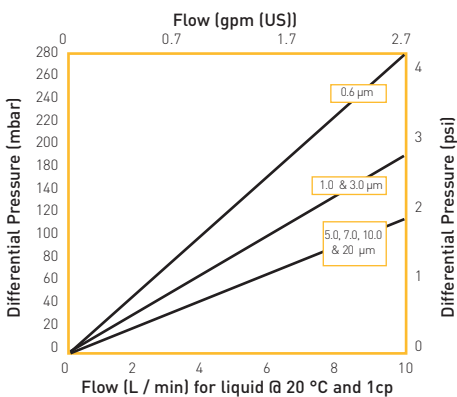


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### Features and Benefits

- Graded density polypropylene media for high capacity
- All polypropylene construction
- Extremely robust to withstand aggressive conditions
- Can be gamma-irradiated and autoclaved

## Performance Characteristics



For A size for a given flow rate divide B size differential pressure by 2  
For E size for a given flow rate multiply B size differential pressure by 2

Capsule flow rates (B size)

## Specifications

### Materials of Construction

- Filtration Membrane: Polypropylene
- Upstream Support: Polypropylene
- Downstream Support: Polypropylene
- Core: Polypropylene
- Sleeve: Polypropylene
- Capsule Body: Polypropylene
- Capsules Vent Seals: Silicone
- Filling Bell: Polycarbonate

### Recommended Operating Conditions

PROCLEAR PP disposable capsules may be operated up to a temperature of 40 °C (104 °F) at line pressures up to 5.0 bar (72 psig).

### Effective Filtration Area (EFA)

- A Size up to 0.20 m<sup>2</sup> (2.2 ft<sup>2</sup>)
- B Size up to 0.10 m<sup>2</sup> (1.1 ft<sup>2</sup>)
- E Size up to 0.05 m<sup>2</sup> (0.6 ft<sup>2</sup>)

### Autoclave Sterilisation

PROCLEAR PP disposable capsule filters can be autoclaved for 10 x 30 minute cycles at 134 °C (273 °F).

### Gamma-irradiation

PROCLEAR PP disposable capsule filters can be gamma-irradiated up to a maximum dosage of 40 kGy.

### Biological Safety

Materials conform to the relevant requirements of 21CFR Part 177 and current USP Plastics Class VI - 121 °C and ISO10993 equivalents.

### Non-Volatile Extractables (NVE)

Total NVEs extracted in the first 5 litre flush of purified water for an A size capsule are <7 mg.

### Oxidisable Substances

PROCLEAR PP disposable capsules meet current USP and EP quality standards for sterile purified water for oxidisable substances following a <1 litre water flush.

### TOC / Conductivity

The filtrate quality from a A size PROCLEAR PP conforms to the requirements of current USP <643> (TOC) and USP <645> (conductivity) within the first 200 ml flush of purified water.

### Endotoxins

Aqueous extracts from the A size PROCLEAR PP capsule contain < 0.125 EU / ml when tested in accordance with the Limulus Amoebocyte Lysate test.

### Pharmaceutical Validation

A full validation guide is available upon request from Laboratory Services Group (LSG).

## Ordering Information

Code	Length (Nominal)	Code	Micron	Code	Inlet Connection	Code	Outlet Connection	Code	Variant	Code	Grade	Code	Specification	Code	Accessory
E	4.4" (113 mm)	96	0.6 µm	T	1" Tri-Clamp	T	1" Tri-Clamp	P	Pharmaceutical	N	Non-sterile	3	Pack of 3	FB*	Filling Bell
B	5.5" (140 mm)	01	1.0 µm	N	1/2" NPT Male	N	1/2" NPT Male	S	Pre Sterilised (>25 kGy)						
A	7.9" (200 mm)	03	3.0 µm	H	1/2" Hosebarb	H	1/2" Hosebarb								
		05	5.0 µm	G	Stepped Hosebarb	G	Stepped Hosebarb								
		07	7.0 µm	M	1/4" NPT Male	M	1/4" NPT Male								
		10	10.0 µm	Q	Walther QC	Q	Walther QC								
		20	20.0 µm	R	Grommel / QC	R	Grommel / QC								
				V	3/8" NPT Male	V	3/8" NPT Male								

Ratings based on efficiencies of > or = 99.98% using internal test procedure  
SOP018 based on ASTM F795-88 1993.

\*G and H styles only

## Inlet / Outlet Connection Styles



1" Tri-Clamp



Stepped Hosebarb



1/4" NPTM Thread



1/2" Hosebarb



1/2" NPTM Thread

### Other Available Formats



Filter Discs



Syringe Filters



MURUSTM  
Large Scale  
Disposable  
Capsules



Filter Cartridges

