

The Microcap Filter Capsule Range

For efficient, cost-effective filtration of liquids and gases in critical point-of-use applications, small to medium pharmaceutical batch processing and in laboratory processes.



*Photo 1
Range of filter capsules
for process filtration*

Filter capsule are designed to meet the growing demand for easy-to-use, disposable filters providing a convenient and reliable mode of operation.

Features and Benefits

- Wide choice of filtration media to suit application
- Variety of capsule sizes available
- Range of connections to suit customer requirements
- Range of pore sizes from 0.2 to 40 microns (depending on media)
- FDA-approved materials of construction manufactured from USP Class VI plastics
- Available in both sterile and non-sterile versions
- Manufactured under clean conditions in a controlled environment
- Filling bell option to avoid contamination during filling
- Disposable after use by incineration

Technical Information

- **Maximum operating pressure** : 3.9 bar g @30°C
- **Maximum recommended continuous operating temperature** : 80°C (180°F)
- **Sterilisation** : capsules can be repeatedly autoclaved for 30 minutes up to 121°C (250°F) maximum



Wide Choice of Materials

The Porvair Filtration Group filter capsules are available in a choice of materials specific to the application and the customer requirements, each offering their own advantages and benefits.

The PES Membrane Capsule

– for sterile applications and bioburden reduction of liquids

- Available as both a single-layer or with a built-in prefiltration layer
- Available in 0.2 or 0.45 micron absolute filtration ratings
- Bacterial Retention efficiency :
 - 0.2µm: LRV>7 for *B.diminuta*
 - 0.45µm: LRV>7 for *Sr.marcescens*
- Endotoxin Level :
 - <0.25 EU/ml using Limulus Amoebocyte Lysate (LAL) test
- Typical water flow rate :
 - 15 litres per minute for 0.2µm 5" module at 0.689 bar g (10psi)



The PP Capsule

– for pre-filtration and particulate removal

- Ideal for pre-filtration of biologicals, serum-based products, water and a wide range of solvents
- Broad chemical compatibility
- Can be used for pre-filtration of air or gas
- Available in various absolute filtration ratings : 0.5, 1, 2.5, 5, 10 and 40 microns
- Typical water flow rate :
 - 17 litres per minute for 1µm 5" module at 0.34 bar g (5psi)
 - 50 litres per minute for 2.5µm 5" module at 0.34 bar g (5psi)
 - 55 litres per minute for 5µm 5" module at 0.34 bar g (5psi)



The PTFE Membrane Capsule

– for sterile air/gas/vent and bioburden applications

- The industry standard capsule for sterile air filtration and venting
- Used in the sterile filtration of compatible solvents
- Available in 0.2 or 0.45 micron absolute filtration ratings
- Endotoxin Level :
 - <0.25 EU/ml using Limulus Amoebocyte Lysate (LAL) test
- Typical air flow rate :
 - 90 Nm³/hour for 0.2µm 5" module at 0.34bar g (5psi)



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