PRODUCT DATASHEET

PTFE Capsule Filters

PTFE capsules, 0.05 to 0.45 µm, lab to pilot scale





DETAIL – THREE CAPSULE SIZES

OVERVIEW

The Tech Inc. PTFE Capsule Filters combine a pleated hydrophobic PTFE cartridge and a polypropylene housing in one sealed, ready-to-use unit for sterile filtration of air and gases, tank and fermenter venting, and filtration of aggressive solvents and acids. There is no housing to clean or validate, and each size uses the same media from bench to pilot.

MODELS AND CONFIGURATIONS

- **0.2 µm vent capsule** – tank and fermenter venting.
- **0.05 µm** – high-purity gases.
- **Solvent capsule** – aggressive chemicals.
- **Autoclavable** – repeated steam cycles.

TYPICAL DESIGN DATA

Model series	TI-CF-PTFE-S, -M and -L
Media	Pleated hydrophobic PTFE
Pore sizes	0.05, 0.2 and 0.45 µm
Filter area	About 0.02 m² (S), 0.1 m² (M) and 0.6 m² (L)
Housing	Polypropylene, with vent and drain
Connections	Hose barb, 1/4 inch NPT, 1.5 inch sanitary
Maximum pressure	About 4 bar at 25 °C
Sterilisation	Gamma-irradiated or autoclavable, by version

APPLICATIONS

Fermenter and tank vents, compressed air and gases, aggressive solvents, acids and bases.

KEY ADVANTAGES

- **Universal chemical resistance** – solvents, acids and bases
- **Hydrophobic barrier** – keeps vents dry
- **Steam stable** – repeated autoclaving

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Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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