PRODUCT DATASHEET

PVDF Capsule Filters

PVDF capsules, 0.1 to 0.45 µm, lab to pilot scale





DETAIL – THREE CAPSULE SIZES

OVERVIEW

The Tech Inc. PVDF Capsule Filters combine a pleated PVDF, hydrophilic or hydrophobic cartridge and a polypropylene housing in one sealed, ready-to-use unit for low-binding filtration of protein solutions and solvent-bearing streams, and sterile venting with the hydrophobic version. There is no housing to clean or validate, and each size uses the same media from bench to pilot.

MODELS AND CONFIGURATIONS

- **Hydrophilic 0.22 µm** – protein and biologic solutions.
- **Hydrophobic 0.2 µm** – tank vents and gases.
- **0.45 µm** – clarification.
- **Sterile** – ready to use.

TYPICAL DESIGN DATA

Model series	TI-CF-PVDF-S, -M and -L
Media	Pleated PVDF, hydrophilic or hydrophobic
Pore sizes	0.1, 0.22 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

Protein and biologic solutions, solvent-containing liquids, tank and vessel venting, and compressed gases.

KEY ADVANTAGES

- **Low binding** – high product recovery
- **Solvent resistant** – mixed streams
- **Two versions** – liquids and gases

How to cite: PVDF Capsule Filters (model TI-CF; Tech Inc., Vaughan, Ontario, Canada). www.techincresearch.com/product-page/pvdf-capsule-filters

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

Offices: Chennai · Toronto · Tallinn · Al Khobar

mail@techincresearch.com · +1 (289) 622-1032 · www.techincresearch.com

Disclaimer: All products, designs and content are the property of Tech Inc. Tech Inc. reserves the right to change specifications and details without notice. Images are for representation only; the supplied equipment may differ in appearance. Data are typical; final design to client specification.