

## Introduction

- All polypropylene housings are sturdy and chemically compatible
- Three membrane type media and two depth type media
- Wide range of retentive pore sizes
- All types available in three different lengths
- Diameter is standard 78 mm
- Selected media available presterilized

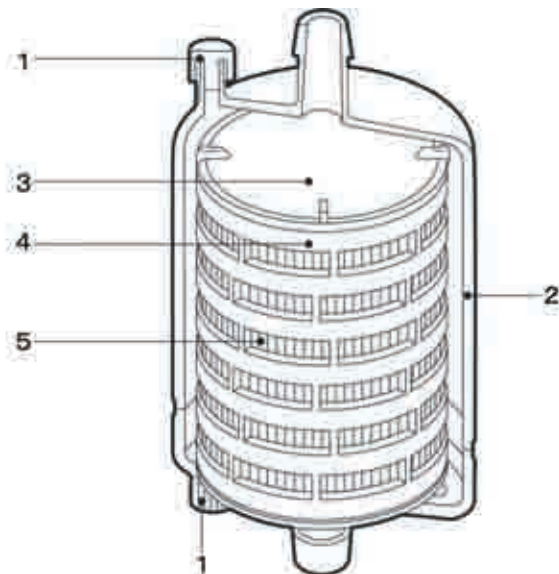
## Applications

- Filter tissue culture media, fermentation broths, ground water
- Can be set in serial mode to maximize throughput volumes
- Point-of-use sterile filtration
- Use capsules for pilot/prototype studies, scale up to the same media in cartridge format
- Cannot be used for gas filtration



## Product Overview

Media	Code	Characteristics	Media type	Pore size or Nominal Rating [μm]	Membrane layers	Filtration area per capsule [cm²]
PES	CCS	Hydrophilic	Membrane	0.20 - 0.45	Double	Up to 1800
PTFE	CCF	Hydrophobic	Membrane	0.05 - 1.0	Single/double	Up to 3600
PTFE	CCFH	Hydrophilic	Membrane	0.20	Single	Up to 3600
Polypropylene	CCP	Hydrophobic	Depth-type	0.8 - 30	-	Up to 2600
Glass	CCG	-	Depth-type	0.45 - 1.0	-	Up to 1200



- 1: Vent/drain  
2: Housing  
3: End cap  
4: Outer sleeve  
5: Pleated filter media



End Fixture B  
1/4" NPTM



End Fixture D  
1/2" NPTM



End Fixture H  
3/8" hose barb



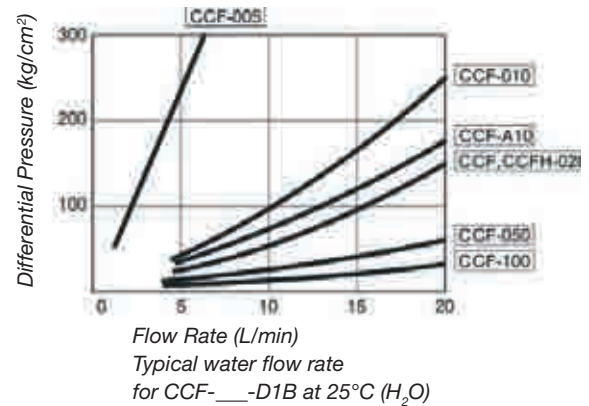
End Fixture N  
1 1/2" sanitary fitting

## PTFE Capsule Filters

### – Code CCF (Hydrophobic) and Code CCFH (Hydrophilic)

- **Compatible;** solvent and pH resistant
- **Hydrophobic:**
  - Supported membrane except CCF-A10 and CCF-005
  - Single layer except CCF-A10 and CCF-005 which has double layer
  - 5 pore sizes
  - Can be sterilized by autoclaving (121°C, 30 min.) or treatment with ethylene oxide (EtO)
- **Hydrophilic:**
  - Polyester membrane support
  - Single layer
  - 0.20 µm pore size

Note: Autoclaving or allowing membrane to dry will make it hydrophobic



## Applications

- Use serially as prefilter and final filter
- Corrosive fluids and gases, photoresists, and both alkalis and acids
- Hydrophobic:
  - Solvent filtration
  - Air venting
- Hydrophilic:
  - Solvents with higher surface tension
  - Heterogeneous fluid mixtures

## Specifications

Type Code	CCF-005	CCF-A10	CCF-010	CCF-020	CCF-050	CCF-100	CCFH-020
	Hydrophobic	Hydrophobic	Hydrophobic	Hydrophobic	Hydrophobic	Hydrophobic	Hydrophilic
Membrane layers	Double	Double	Single	Single	Single	Single	Single
Pore size [µm]	0.05	0.10	0.10	0.20	0.50	1.0	0.20
Bubble point (IPA) [kg/cm <sup>2</sup> ]	≥1.65	≥1.6	≥1.4	≥0.9	≥0.5	≥0.3	-
Max. Inlet Pressure	4 kg/cm <sup>2</sup>	4 kg/cm <sup>2</sup>	4 kg/cm <sup>2</sup>	4 kg/cm <sup>2</sup>	4 kg/cm <sup>2</sup>	4 kg/cm <sup>2</sup>	4 kg/cm <sup>2</sup>
Max. Operating Temperature	60°C	60°C	60°C	60°C	60°C	60°C	60°C
Length Code	Length [mm]*						
	Filtration Area [cm <sup>2</sup> ]						
C	102	900	900	570	570	570	570
D	129	1800	1800	1150	1150	1150	1150
E	201	3600	3600	2300	2300	2300	2300

\*Length given is for capsules with end fixture H.

## Ordering Information

CCF - [Pore Size Code] - [Filtration Area Code] 1 [End Fixture Code] (S)<sup>1</sup>

Pore Size Code	Filtration Area	End Fixture
005	C 570 cm <sup>2</sup>	B ¼" NPTM
010	D 1150 cm <sup>2</sup>	D <sup>2</sup> ½" NPTM
020	E 2300 cm <sup>2</sup>	H ⅜" Hose Barb
050		N 1½" Sanitary fitting
100		

CCFH - [Pore Size Code] - [Filtration Area Code] 1 [End Fixture Code] (S)<sup>1</sup>

Pore Size Code	Filtration Area	End Fixture
020	C 900 cm <sup>2</sup>	B ¼" NPTM
	D 1800 cm <sup>2</sup>	D <sup>2</sup> ½" NPTM
	E 3600 cm <sup>2</sup>	H ⅜" Hose Barb
		N 1½" Sanitary fitting

1) When ordering sterile units, specify "S" in the last position of the Cat. No.

2) When ordering length code "C" (filtration area), end fixture code "D" is not available.