

# Capsule Filter UFTD

## Product description:

**ultrafilter** capsule filters are ready-to-use units for critical applications and for the filtration of small volume flows of gases and liquids.

The filter unit consists of a durable polypropylene housing and is available with various **ultrafilter** filter media (see pages 60 to 62) and with various pore sizes. The housings are thermally sealed, all materials correspond to the FDA requirements and are suitable for food contact. These filter elements have passed the toxicologic tests according to USP XX Class VI Plastic and can be sterilized several times in an autoclave. All filters have two ports for venting and draining and are available with different connections.

## Applications:

The **ultrafilter** capsule filter UFTD is used by the following industries as contamination control at the point of use:

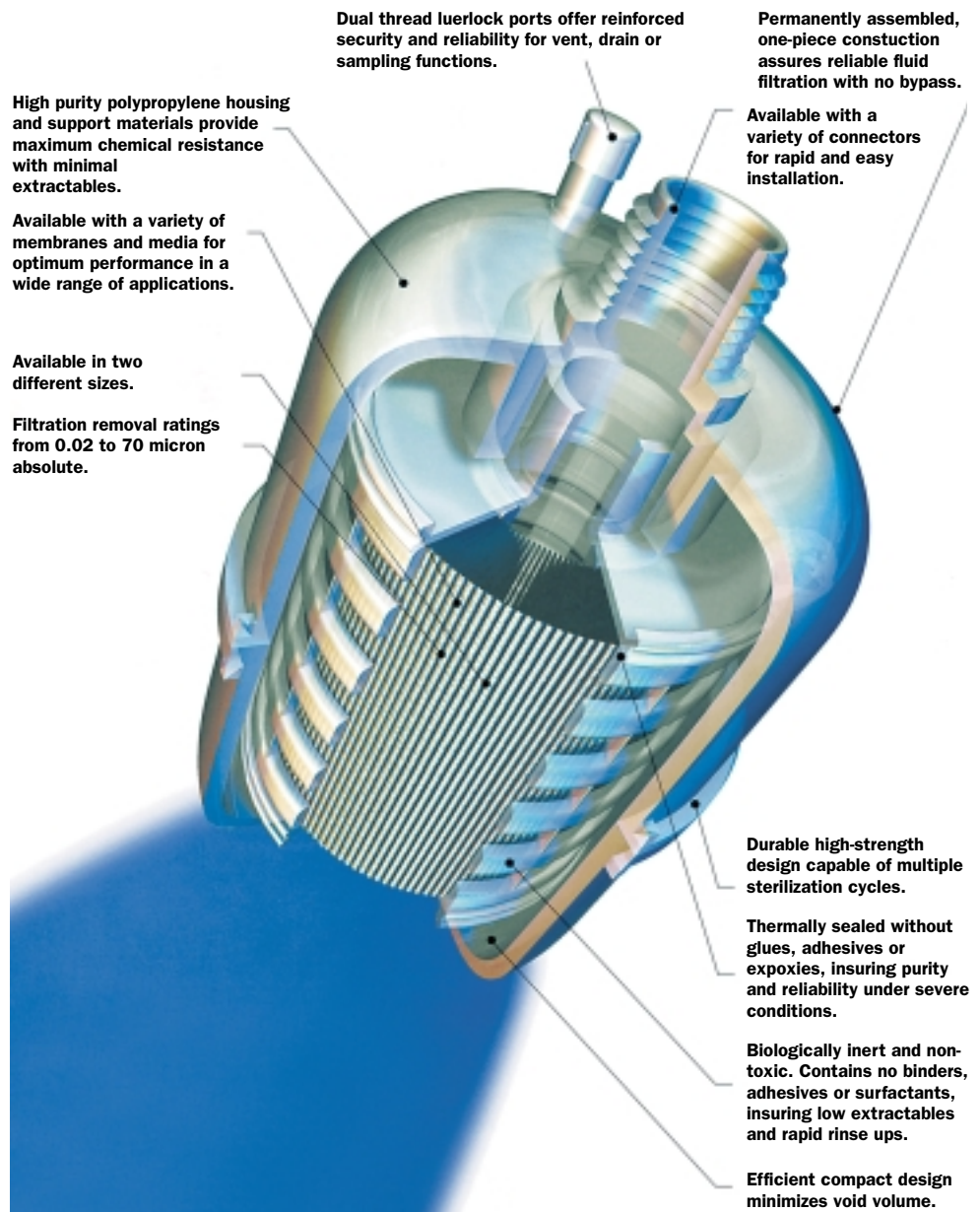
- Pharmaceutical industry
- Chemical industry
- Biotechnology
- Electronics
- Cosmetics
- Food and beverages
- Varnishes and inks



UFTD-L



UFTD-S



Technical alterations reserved (Date 10/00)

# General technical data:

Materials:	
Filter housing:	Polypropylene
Filter medium:	Polypropylene microfiber Polyethersulfone membrane Polypropylene membrane Teflon* membrane
Support material:	Polypropylene
Sealing:	thermally sealed

According to the CFR (Code of Federal Regulations) guidelines, Title 21, all materials are suitable and approved for the use in contact with food.

Effective filtration area:	
UFTD-L:	2 ft <sup>2</sup>
UFTD-S:	1 ft <sup>2</sup>

Operating pressure:
Gas applications 75 psig at 100°F
Applications with liquids : 50 psig at 100°F

Operating temperature:
32 °F–100 °F

Maximum temperature:
160 °F at 35 psig

Dimensions:		
Model	Diameter	Length
UFTD-L	2.75"	6.9"
UFTD-S	2.75"	4.5"

Connections:
Both sizes are available with the following connections: 3/8" hosebarb 1/4" MNPT 3/8" MNPT 3/8" FNPT

The models dispose of two valves for aeration and de-aeration or discharge and sampling of test portions.

Sterilization:
Autoclave: 250 °F–260 °F for 30–60 minutes

**Remark:** The capsule filters may be sterilized several times in an autoclave without losing their integrity.  
A in-line sterilization with saturated steam is not possible.

## UFTD-PP100

One way capsule filter with a polypropylene depth filter medium and an absolute retention rate

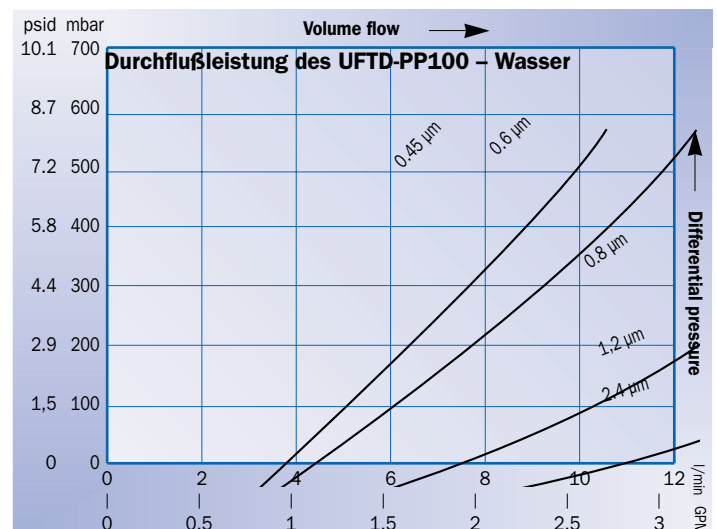
Retention rate (µm):			
PP100	Percent removal		
	100%	99%	90%
0.45	0.45	0.40	< 0.30
0.6	0.60	0.56	0.38
0.8	0.80	0.72	0.50
1.2	1.20	1.10	0.70
2.4	2.40	2.30	2.00
5	5.00	4.50	3.00
7	7.00	6.50	5.00
10	10.00	9.50	7.50
20	20.00	19.00	12.00
30	30.00	26.00	16.00
40	40.00	35.00	28.00

### Absolute retention rates:

0.45 µm, 0.6 µm, 0.8 µm, 1.2 µm, 2.4 µm, 5 µm, 7 µm, 10 µm, 20 µm, 30 µm, 40 µm

### Flow rate of the UFTD-PP100 – water

Data shown is for UFTD-S style capsule with 3/8" connections.



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