

# TFA Series

FILTERING CARTRIDGES  
PTFE MEMBRANE  
DIAMETER 2.71" (69 mm)



## CHARACTERISTICS:

- Pure PTFE membrane
- Naturally hydrophobic filter media
- High flow-rate
- High filtration area
- High dirt holding capacity
- Suitable for gas sterilization and corrosive liquids filtration
- Filtration direction from out to in as well as from in to out
- Available with five different end caps type
- Pure polypropylene hardware
- Wide range chemical compatibility
- Resin or glue free construction
- Thermo-weld assembly
- FDA approved material
- Endotoxicity, extractible and oxidizing agent limits  
In accordance with USP standard
- Manufactured in clean room
- Packing with antistatic materials
- Traceable lot number
- Integrity test carried out on 100% of production lots
- Absolute filtration rating from 0.1 to 1.2  $\mu\text{m}$

## MAIN APPLICATIONS:

- FINE CHEMICAL
- FOOD & BEVERAGE
- PHARMACEUTICAL
- BIOTECHNOLOGY
- HEALTH AND CARE
- MICROELECTRONIC
- GENERAL INDUSTRY

# ASCO FILTRI

**ASCO Filtri S.p.A.**

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**PTFE MEMBRANE**  
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## TECHNICAL DATA

**MAX. WORKING TEMPERATURE**  
**80 °C @ 4.1 bar**

## STERILIZATION / SANITIZATION

- 125 °C for 30' in autoclave without Delta-P
- 140 °C for 30' in line with steam
- Guaranteed 108 cycles of 30' at 121 °C
- 90 °C with hot water
- Chemical sanitizing agents
- At suggested concentration

## DIFFERENTIAL PRESSURE

- Cartridge replacement:  
2.0 bar @ 25 °C
- Max. allowable:  
Normal flux:  
4.1 bar @ 25 °C
- Reverse flux:  
2.1 bar @ 25 °C

## CONSTRUCTION MATERIAL

- Filter media:
  - PTFE membrane
- Support layers:
  - Polypropylene
- Hardware:
  - Polypropylene
- Gaskets:
  - Buna-n
  - EPDM
  - Viton
  - Silicone
  - FEP
  - PTFE (only DOE)

## DIMENSION

- External diameter:  
2.71" (69 mm)
- Length:  
5", 10", 20", 30", 40"

## FILTERING AREA

0.70 m<sup>2</sup> x 10"

## Flow-rate / Delta-P data:

Filtration (µm)	Liquids cP = 1	Air 1 barg @ 20 °C	Air 2 barg @ 20 °C
0.10	0.48	70	100
0.20	0.72	100	120
0.45	1.00	140	170
0.80	1.70	150	180
1.20	1.80	150	180

Liquids flow-rate (m<sup>3</sup>/h) - Initial Delta-P 0.1 bar.  
 Air flow-rate (lNm<sup>3</sup>/h) - Initial Delta-P 0.1 bar.

## Integrity test / diffusion:

For test execution mode and parameters contact ASCO Filtri.

## Bacteria challenge:

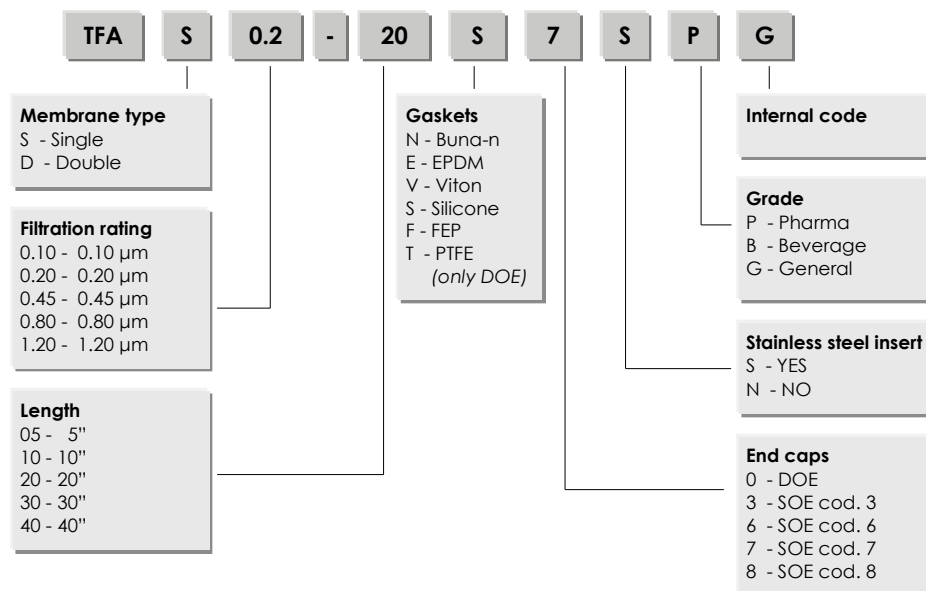
(µm)	Bacteria challenge	
0.10	-	Challenge with aerosol of bacteriophage T1
0.20	> 10 <sup>7</sup> LRV/cm <sup>2</sup>	Brevundimonas diminuta
0.45	> 10 <sup>7</sup> LRV/cm <sup>2</sup>	Serratia marcescens

According to HIMA / ASTM F838-83

## Available grade:

- P:** Pharma defined by HIMA standard parameters
- B:** Beverage defined by modified HIMA standard parameters (10<sup>7</sup> LRV/10" reference microorganism)
- G:** General defined by an absolute particles retention with β=5000

## Ordering information:



We reserve the right to change the data of this specification without notice.

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