

## Fuente™ Final Filter For Beverage Applications

### Description

The Fuente water filter is designed to meet the highest requirements of water bottlers for removal of particles, cysts, oocysts and bacteria in water filtration applications. It is a 0.2 µm polyethersulfone membrane filter utilizing the unique Ultipleat® construction. Fuente filters last longer and provide high quality water at the lowest cost of ownership.

### Customer Benefits

- Excellent Water Quality
- Extended Filter Life
- Proven Performance
- Multiple Autoclave Cycles Tolerant
- Greater Differential Pressure Tolerant
- Small Footprint
- No Liquid Waste Discharge
- Lower Filtration Costs
- Integrity Testable



Filter Cartridges

### Features

- Patented Ultipleat Construction – Greater Filter Area and Higher Production Per Unit Footprint
- Filtration Media – Supor® Polyethersulfone
- 0.2µm Grade Membrane
- Built in Asymmetric Prefilter Layer for Longer Life and Lower Filtration Costs
- Differential Pressure Tolerant – 1 bar (14.5 psi) During Steam in Place

### Quality Standards

- Tested with *Brevundimonas diminuta* (ATCC 19146) at 10<sup>7</sup>/cm<sup>2</sup>
- Manufactured Under a Quality Management System Certified to ISO 9001:2000
- Meets EEC Directive 2002/72/EC
- Materials Per 21 CFR: 170-199



Housings

## Filter Specifications

### Materials of Construction

Membrane	Hydrophillic Polyethersulfone (PES)
Support Drainage	Polypropylene
Core/Cage End Caps	Polypropylene, TiO <sub>2</sub>
O-rings	Silicone Elastomer (standard)
Sealing Technology	Thermal Bonding, No Adhesives
Adaptor (Code 7)	Polypropylene with Stainless Steel Reinforcing Ring

### Nominal Filter Dimensions

Filtration Area	0.6 m <sup>2</sup> (6.5 ft <sup>2</sup> ) per 10" module
Outer Diameter	2.75" (70 mm)
Lengths Available	10" (254 mm); 20" (508 mm); 30" (762 mm); 40" (1016 mm)

### Operating Parameters\*

Clean Water Flow <sup>1</sup>	12.5 L/m (2.61 gpm) at 100 mbar (1.45 psi) differential pressure per 10"
Maximum Differential Pressure (to 40°C)	5.5 bar up to 104°F (40°C) (forward)
Maximum Differential Pressure (to 80°C)	4 bar up to 176°F (80°C) (forward)
Maximum Steam Sterilization Temperature <sup>2</sup>	287°F (142°C)
Maximum Hot Water Sanitization Temperature	185°F (85°C)
Chemical Sanitization	PAA (320 ppm total peroxides – 1000 hr)
Water Wet Forward Flow Test	2760 mbar (40 psi) test pressure; 17 mL/min. maximum limit

\* Applies to fully compatible fluids which do not soften, swell or adversely effect the product or its materials of construction.

<sup>1</sup> Typical performance with water at 68°F (20°C) (1cP) on a new filter in laboratory test.

<sup>2</sup> On wetted filters with slow exhaust.

## Part Numbers/Ordering Information

AB ● FF ■ W ◆

Code ●	Cartridge Lengths (nominal)
1	10" (254 mm)
2	20" (508 mm)
3	30" (762 mm)
4	40" (1016 mm)

Code ■	Cartridge Style
7	SOE Fin End, External 226 O-rings
3	SOE Flat End External 222 O-rings
8	SOE Fin End External 222 O-rings

Code ◆	O-ring Material
H4	Silicone elastomer
J	EPDM elastomer



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