

# Coalescer Filter Separators

Liquid - Gas, Liquid - Liquid Separation



## Salient Features

- Removal of solid particles up to 0.3 micron at 99.5% efficiency
- Removal of liquid particles up to 0.3 micron at 99.96% efficiency
- Suitable for phase separation of unstable as well as stable emulsions

## Size

- Up to 120"

## Filter Element Materials of Construction

- Non metallic non-woven

## Advantages over Conventional Separators

- Suitable for emulsions with surface/interfacial tension less than 20 dyne/cm
- Suitable at rated as well as turndown velocities
- Suitable for separation of atomized droplets
- Requires small floor space

## Pressure Ratings

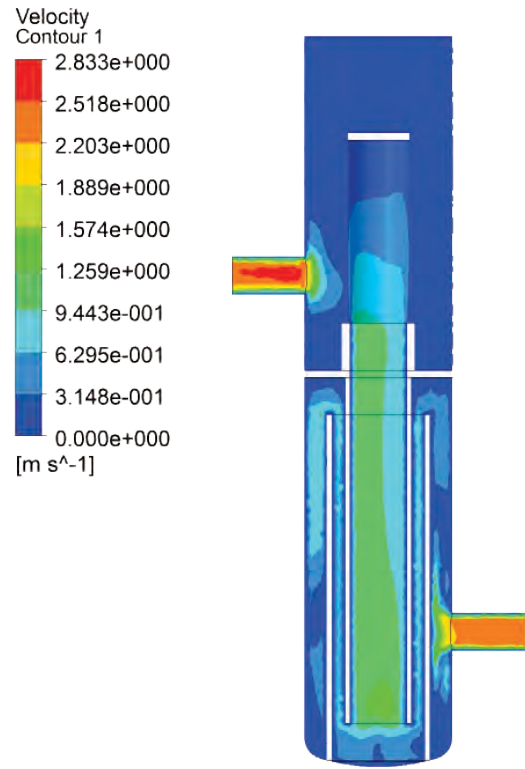
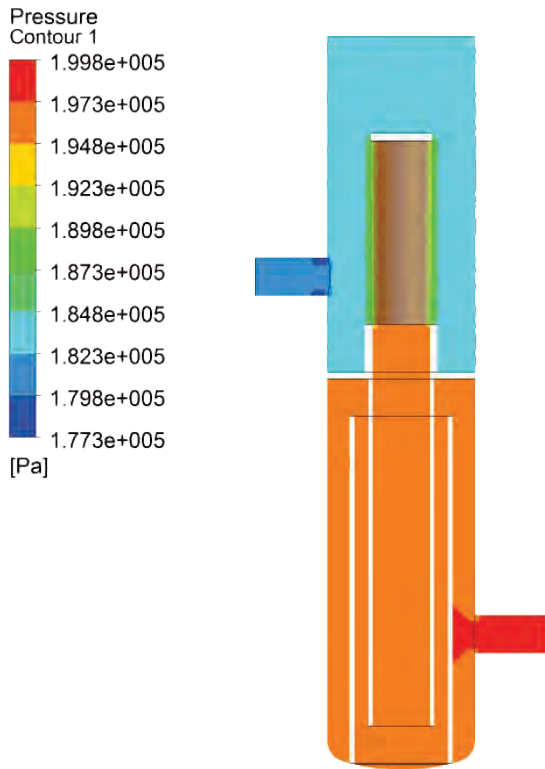
- Up to ASME #2500

## Filter Ratings

- 0.3  $\mu\text{m}$  to 300  $\mu\text{m}$

## Key Competitive Advantage

Sungov's Coalescer Filter Separators have dual chamber separation unlike the competition. Initial inlet chamber utilizes inertial impaction separation technology to remove large droplets and the subsequent chamber utilizes adsorption separation technology to remove atomized droplets.



## Design Features

- Filter media with hydrophobic properties for water repellency
- Filter media with oleophobic properties for oil repellency
- Product performance independent of velocity variations unlike conventional separators
- Simultaneous solids filtration and phase separation thereby requiring smaller footprint
- Elements with stainless steel support for robust strength
- Built to ASME VIII Div 1 standard; ASME Code stamping as option
- Thread free sealing hence suitable for all fluids

## Stock Housing Materials of Construction

- ASTM A106 Gr. B
- ASTM A105
- ASTM A312 TP304
- ASTM A182 Gr. F304
- ASTM A312 TP316
- ASTM A182 Gr. F316
- ASTM A240 Type 304/316

## On-order Housing Materials of Construction

- Other Carbon steels
- Other low temperature carbon steels
- Low alloy steels
- Martensitic stainless steels
- Austenitic-ferritic stainless steels
- Nickel alloys
- Copper alloys

## Industry Used In

- ◆ Oil & Gas
- ◆ Power Generation
- ◆ Environmental
- ◆ Industrial Utilities
- ◆ Marine
- ◆ Chemicals Manufacturing
- ◆ Metals Mining
- ◆ Aviation



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