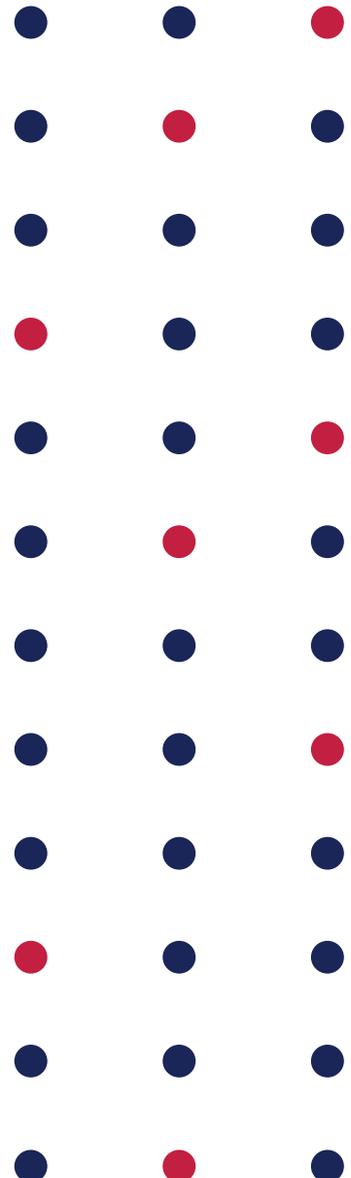
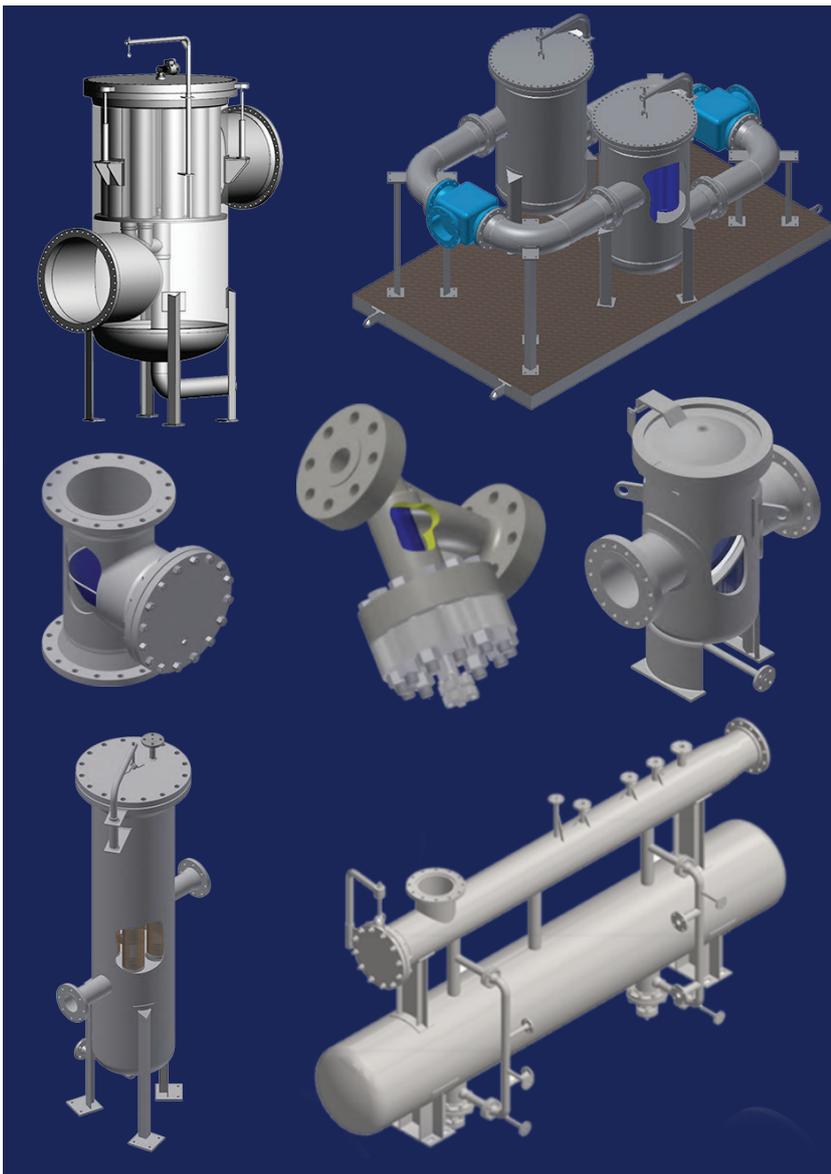


# Product Brochure



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## Automatic Self-Cleaning Filters Solid - Liquid Separation



### Salient Features

- For uninterrupted flow applications
- No routine service downtime of filter elements
- Filter ratings from 50 $\mu$ m and coarser
- Fully automatic operation as standard
- Online self-cleaning i.e. simultaneous filtration and self-cleaning cycles

### Advantages over Conventional Filters

- For uninterrupted flow applications
- No routine service downtime of filter elements
- Filter ratings from 50 $\mu$ m and coarser
- Fully automatic operation as standard
- Online self-cleaning i.e. simultaneous filtration and self-cleaning cycles

### Design Features

- Customized geometry filter elements aiding in higher efficiency of filtration and self-cleaning
- Low fluid loss during self-cleaning cycles
- Low pressure loss across the entire system
- Surface or depth filter media options resulting in optimal price-performance ratio
- Differential pressure automation or timer based automation based on customer requirement
- Low energy consumption through use of low power geared motors (as low as 90W) for high torque self-cleaning mechanism
- Customizable control system: relay based, PID based or PLC based control depending the extent of automation required by the customer
- Interface with plant DCS an option
- Cathodic protection as option to prolong service life of filter elements
- Built to ASME Sec VIII Div 1 as standard; ASME Code stamping as option
- ASME Sec IX compliant weld procedures/welders as standard
- Skid mounted two/three line system with actuated valves, stand-alone control system as option

## Key Competitive Advantage

SG Industrial's Self-Cleaning Filters are designed for online self-cleaning, that is, self-cleaning cycle is initiated when filtration cycle continues to be in progress. At no point in the self-cleaning operation, the filtered fluid flow is interrupted. This technology allows our design to be best suited for applications where fluid flow cannot be interrupted like upstream of seawater intake pumps, cooling water pumps or boilers and the like protecting our customer's assets.

## Capacities

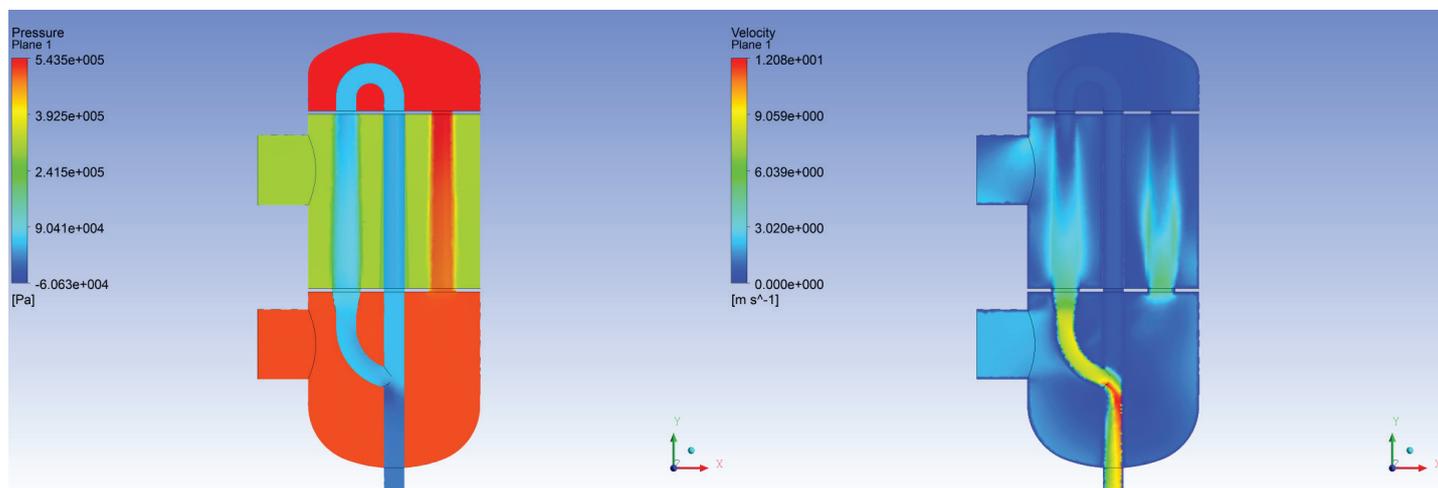
- Maximum height of single element – 2500mm
- Maximum flow capacity up to 8000 cubic meter per hour
- Maximum filter area per unit element – Up to 7 m<sup>2</sup>
- Vessel size up to 3m
- Pressure ratings up to #2500
- Removal of particles down to 50µm

## Industries Used In

- Oil & Gas Production
- Environmental
- Petroleum Refining
- Power Generation
- Petrochemical Mfg.
- Marine

## Possible Materials of Construction

- SA 516 Gr. 70N, SA 105N
- SA 106 Gr. B, SA 105N
- SA 333 Gr. 6, SA 350 Gr. LF2
- SA 240 TYP 316/316L, SA 182 Gr. F316/316L
- SA 240 TYP 304/304L, SA 182 Gr. F304/304L
- SA 240 TYP UNS S31803, SA 182 Gr. F51
- NACE MR 0175/ISO 15156 compliant materials
- Clad/weld overlay with exotic alloys
- Other carbon steels
- Low alloy steels
- Nickel alloys
- Copper alloys



## Cartridge Filters

### Solid - Gas, Solid - Liquid Separation



#### Salient Features

- Low operational cost (interchangeable elements)
- Low pressure drop across filter elements
- Quick open cover design for easy filter servicing
- Filter ratings from 0.3 $\mu$ m to 450 $\mu$ m
- Thread free sealing
- High dirt holding capacity for long service life

#### Capacities

- Maximum number of filter elements per housing  
Up to 240 elements (of Size S1X)
- Maximum height of unit element – 950mm
- Smallest (finest) filter rating – 0.3  $\mu$ m
- Maximum filter area per element – Up to 4.4 m<sup>2</sup>

#### Design Features

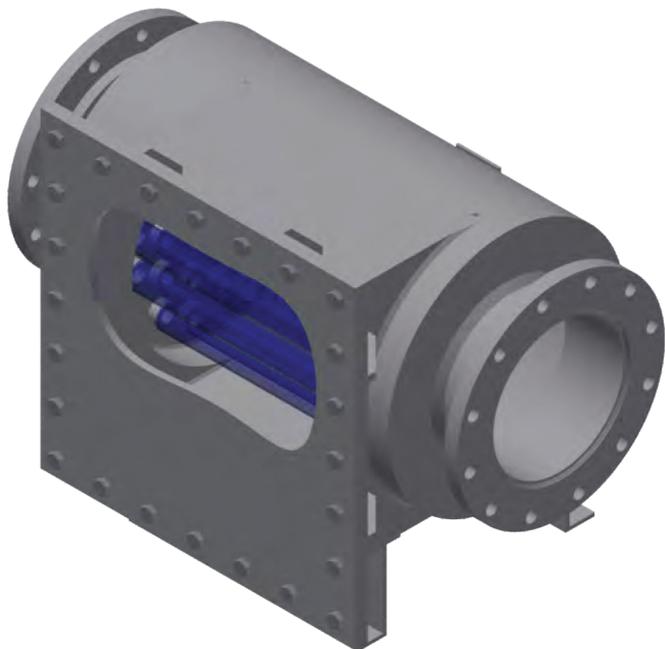
- Built to ASME VIII Div 1 standards; ASME Code stamping as option
- Vessel design for vacuum as option
- Filter elements conforming to ISO 2942 as option
- Filter elements in disposable or reusable configuration
- Customization of filter area (multi-element design) for optimal filtration performance
- Robust filter element design with 0.3 MPa collapse pressure as minimum

#### 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

#### Size & Pressure Ratings

- Up to 120"
- Up to ASME #2500




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## 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




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## Filter Element Materials of Construction

- Stainless steel woven mesh
- Alloy steel woven mesh
- Nonwoven cellulose fiber
- Stainless steel sintered woven mesh
- Nonwoven borosilicate micro-glass fiber
- Nonwoven polyethylene terephthalate fiber
- Nonwoven fluoro-polymer coated borosilicate micro-glass fiber




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## Industry Used In

- |                        |                  |
|------------------------|------------------|
| • Oil & Gas            | • Marine         |
| • Power Generation     | • Chemicals Mfg. |
| • Environmental        | • Metals Mining  |
| • Industrial Utilities | • Aviation       |

## Coalescer

### 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

#### Advantages over Conventional Filters

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

#### Design Features

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

#### Size

- Up to 120"

#### Pressure Ratings

- Up to ASME #2500

#### Filter Ratings

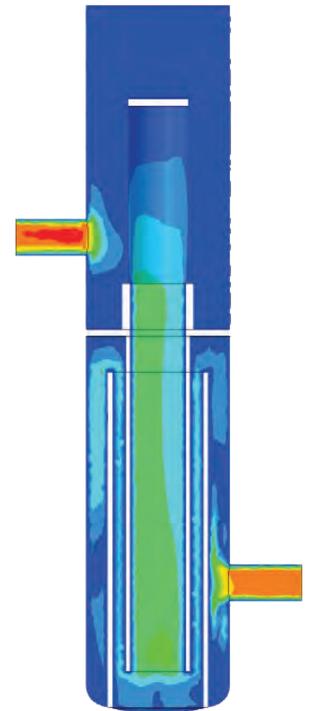
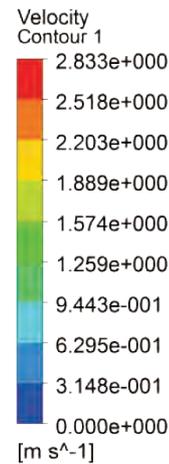
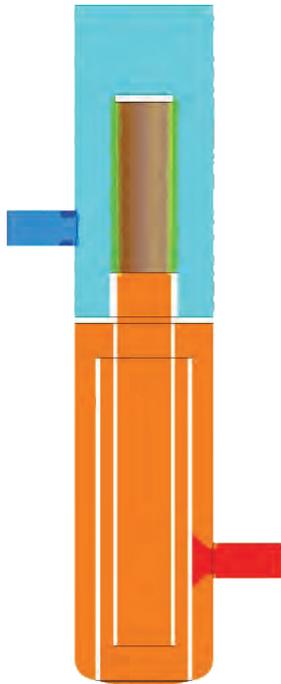
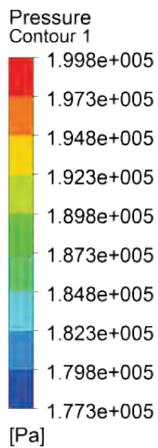
- 0.3  $\mu\text{m}$  to 300  $\mu\text{m}$

#### Industry Used In

- Oil & Gas
- Power Generation
- Environmental
- Industrial Utilities
- Marine
- Chemicals Mfg.
- Metals Mining
- Aviation

## Key Competitive Advantage

SG Industrial's Coafescer 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.



## Stock Housing Materials of Construction

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

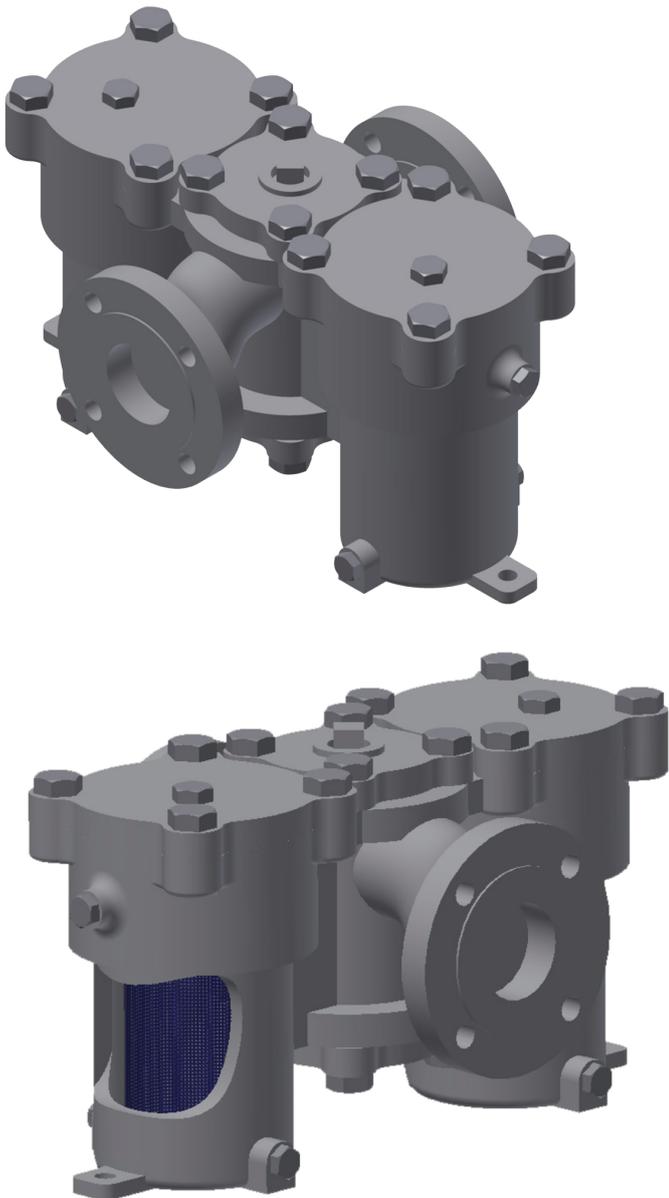
## Filter Element Materials of Construction

- Non metallic non-woven

## On-Order Housing Materials of Construction

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

## Duplex Basket Filters - Cast Solid - Gas, Solid - Liquid Separation



### Salient Features

- Compact end to end
- No shutdown time necessary for cleaning
- Online changeover to either filter vessel

### Stock Housing Materials of Construction

- ASTM A216 Gr. WCB
- ASTM A351 Gr. CF8
- ASTM A351 Gr. CF8M
- ASTM A351 Gr. CF3
- ASTM A351 Gr. CF3M

### Filter Element Materials of Construction

- Austenitic stainless steels
- Austenitic-ferritic stainless steels
- Nickel alloys
- Copper alloys

#### Design Features

- Gross filter area of 800% inlet cross section area
- Built to ASME B16.34/B31.3 standards
- Inline inlet and outlet nozzles

#### Size

- Up to 6"

#### End Connections

- Flanged
- Screwed • Socket Weld

#### Filter Ratings

- 10  $\mu\text{m}$  to 8000  $\mu\text{m}$

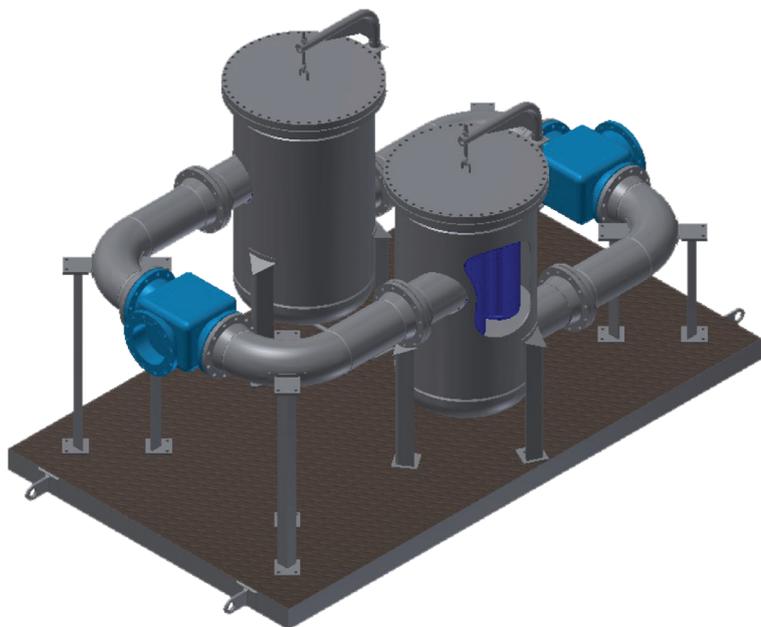
#### Pressure Ratings

- Up to ASME #300

### On-Order Housing Materials of Construction

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

## Duplex Basket Filters - Fabricated Solid - Gas, Solid - Liquid Separation



### Salient Features

- No shutdown time necessary for cleaning
- Online changeover to either filter vessel
- Dimensional flexibility (fabricated construction)
- Both inline and offline construction available

### 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

### Filter Element Materials of Construction

- Austenitic stainless steels
- Austenitic-ferritic stainless steels
- Nickel alloys
- Copper alloys

### Design Features

- Generous gross filter area for low pressure drop
- Three way or two way isolation valves options
- Built to ASME Sec VIII Div 1/B31.3 standards
- ASME Code stamping as option (filter vessel)

### Size

- Up to 24"

### Pressure Ratings

- Up to ASME #2500

### Filter Ratings

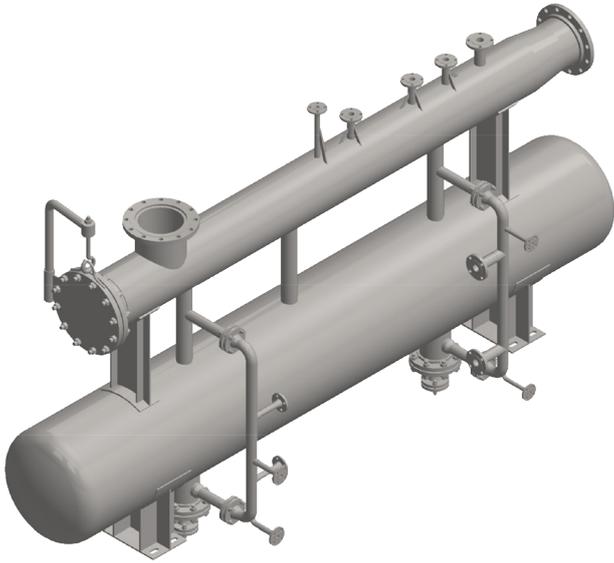
- 5  $\mu\text{m}$  to 8000  $\mu\text{m}$

### End Connections

- Flanged
- Butt Weld

# Filter Separators

## Liquid - Gas 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 separation of water and liquid hydrocarbons from gas
- Suitable for sour service

### Advantages over Conventional Separators

- Suitable at rated as well as turndown velocities
- Suitable for separation of atomized droplets
- Suitable for emulsions with surface tension less than 50 dyne/cm
- Requires smaller settling zones due to larger coalesced droplets, hence smaller vessel/footprint as well

### Design Features

- Specially structured filtering & coalescing media with high coalescing area to achieve low pressure drop
- Coalescing media with sequentially larger pore-size to improve drainage of coalesced droplets
- Elements with stainless steel support as standard for robust strength as option
- Elements with stainless steel support for robust strength
- Liquid phase boot as standard for easy draining using level alarms
- Thread free sealing for special service requirements as option
- Vessels built to ASME Sec VIII Div. 1 or Div. 2 with Code stamping as option

### Applications

- Solids/water/hydrocarbon condensate removal from fuel gas upstream of gas turbine/generators
- Solids/water/hydrocarbon condensate removal from process gas upstream of compressors
- Solids/water/hydrocarbon condensate removal in city gas distribution grids

## Key Competitive Advantage

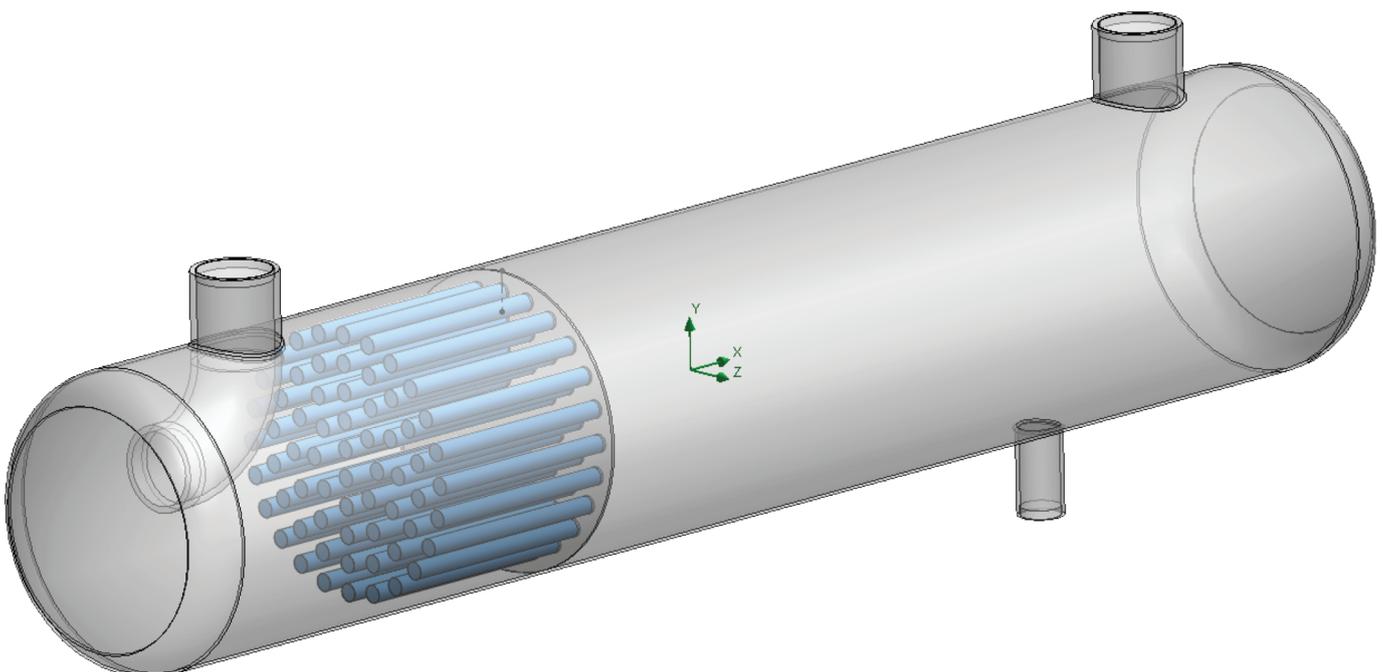
SG Industrial's Horizontal Separators have the option of incorporating an inlet separation device, a filtration chamber for solids separation along with high efficiency coalescing filter separators and demister pad/vane pack for handling a wide range of solid-liquid-gas separations. Together, these embellishments result in a longer service life of vessel internals and consequentially lesser downtime. Furthermore, the fact that SG Industrial's manufactures its own filter/coalescer elements inside a clean room facility facilitates bespoke, optimally engineered solutions.

## Materials of Construction

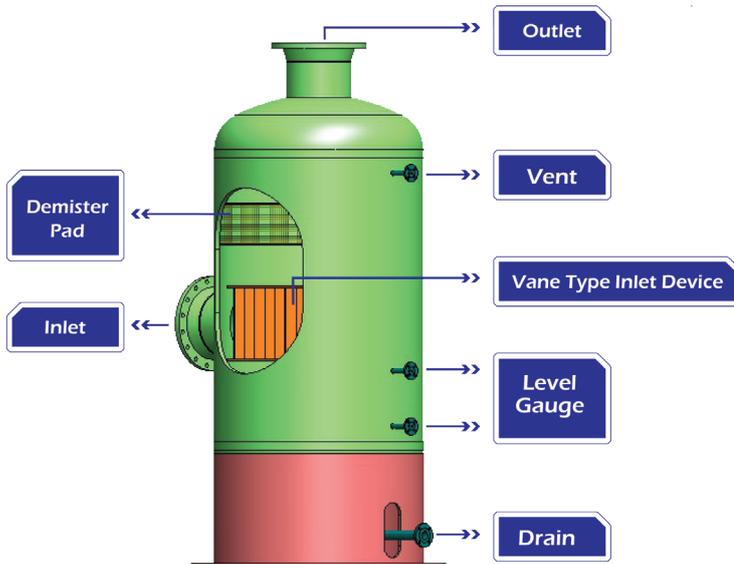
- NACE MR 0175/ISO 15156 compliant carbon steel materials like SA 516 Gr. 70N, SA 105N; Corrosion Resistant Alloys like dual certified SA 240 TYP 316/316L, SA 240 TYP UNS S31803; Clad/weld overlay with exotic alloys as options

## Industry Used In

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



## Knockout Drums (Scrubber Separators) Liquid - Gas, Liquid - Gas - Solid Separation



### Salient Features

- Removal of solid particles up to 10 micron at 99.5% efficiency
- Removal of liquid droplets up to 10 micron at 99.5% efficiency
- Mechanical design as per ASME Sec VIII Div 1 as standard; ASME Code stamping as option
- NACE MR0175 compliance as option

### Application

Knockout drums or scrubbers are used in separation of heterogeneous mixtures of two or more phases. The primary separation is achieved by leveraging the differences in rate of settling of different density constituent phases.

### 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

### Internals Materials of Construction

- Austenitic stainless steel
- Austenitic-ferritic stainless steels
- Nickel or Copper alloys

### On-order Housing Materials of Construction

- Other carbon steels
- Carbon steels with HIC testing
- Low alloy steels
- Austenitic-ferritic stainless steels

### Advantages over Conventional Filters

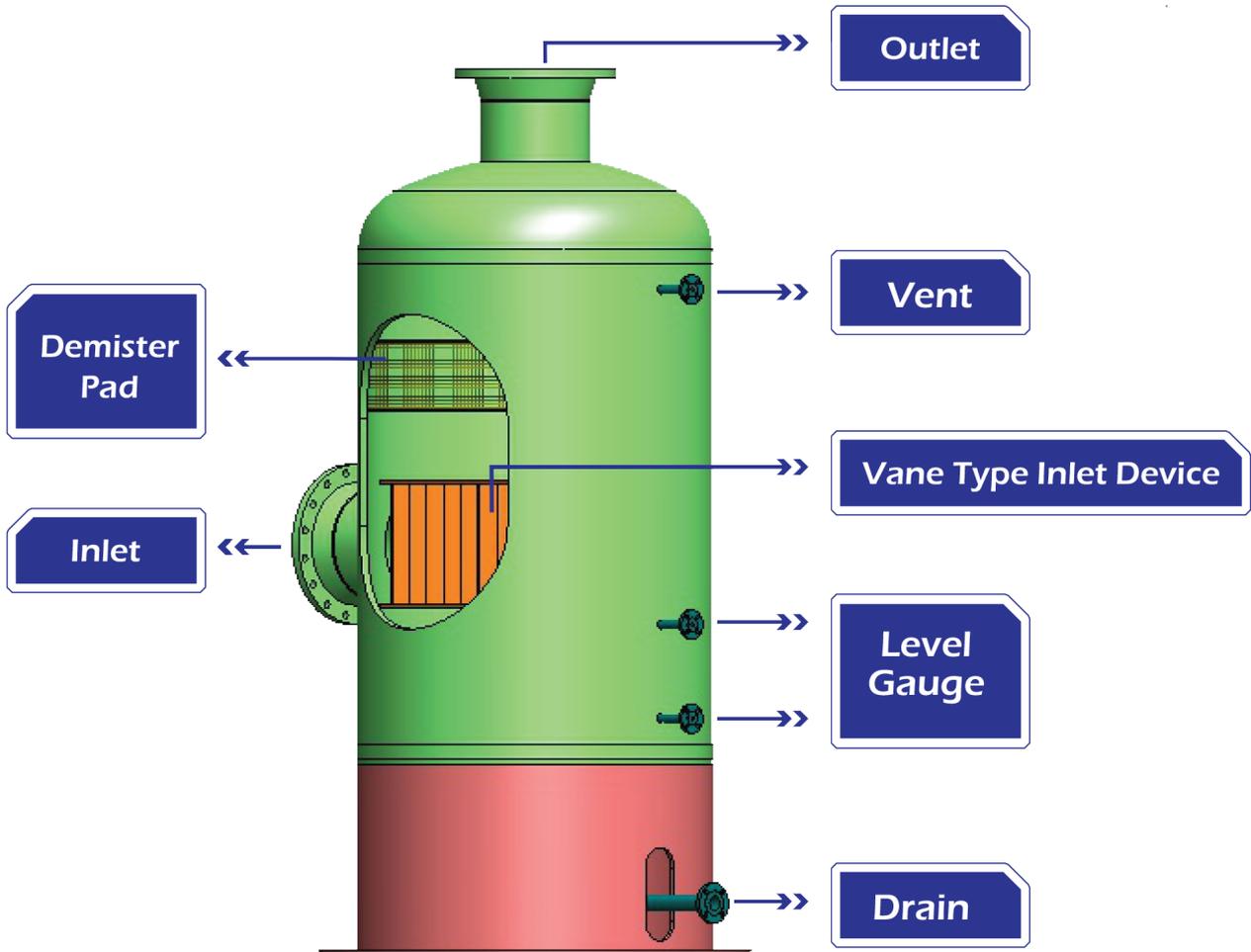
- Suitable for high capacities
- Low maintenance (fit & forget approach)
- Performance improves during turndown
- Horizontal or vertical installation Vessel Size Pressure Rating

### Vessel Size

- Up to 120"

### Pressure Ratings

- Up to ASME #2500



### Zones of Operation

- Inlet distribution or coarse separation zone
- Liquid holding zone
- Fine separation zone

### Internals for Coarse Separation Zone

- Vane type inlet device
- Multi-cyclone

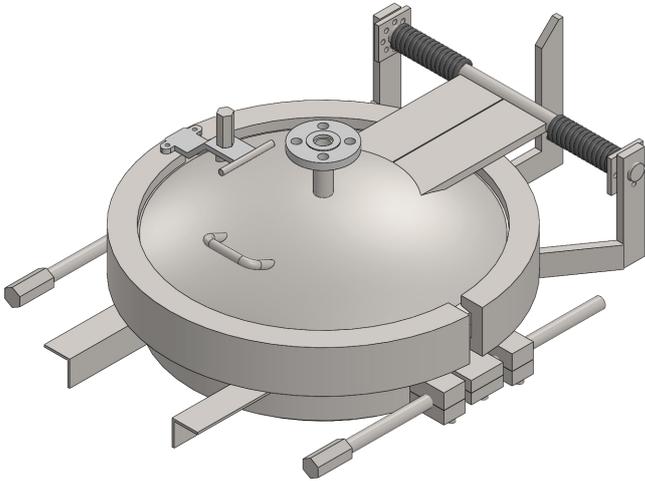
### Internals for Fine Separation Zone

- Vane pack
- Demister pad / Wire mesh On-order Housing Materials of Construct

### Industry Used In

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

## Quick Open Closures Clamp Type

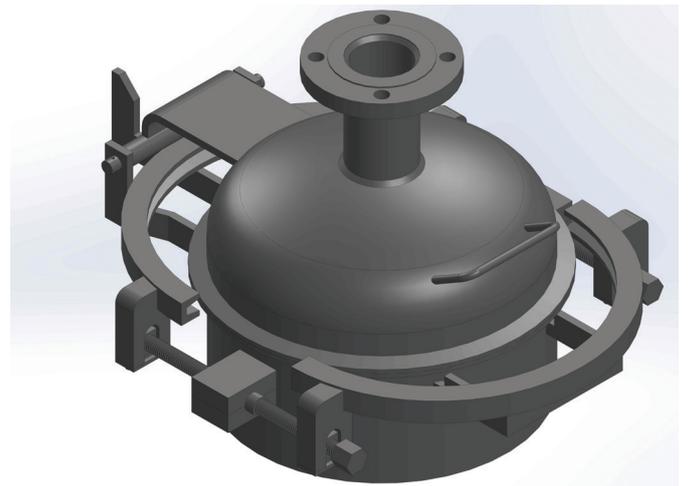
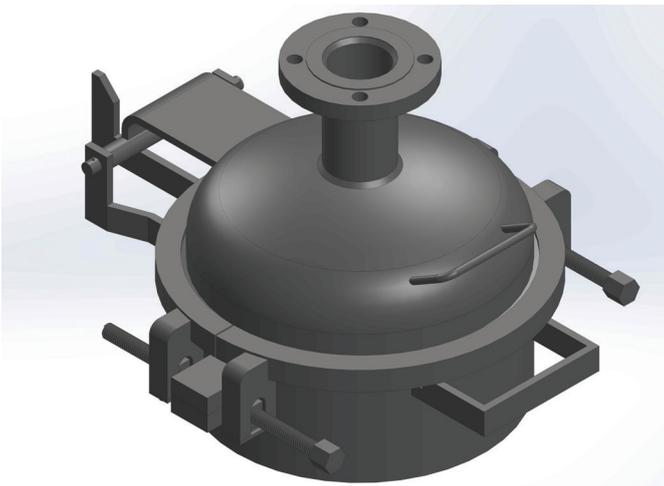


### Salient Features

- Opens in minutes compared to conventional bolted flanged closures
- Requires basic to no tools to operate & maintain
- Closures designed to meet ASME BPVC Section VIII Div. 1
- Finite element analysis software optimized design
- Sizes available from DN300 to DN750
- Pressure ratings available from ASME Class 150 & Class 300
- Fluid service compatible O ring options
- Closures built with Code stamping as option
- Horizontal or vertical configuration

### Applications

- On process vessels like filters, separators, coalescers, strainers
- On pipeline equipment like pig launchers & receivers



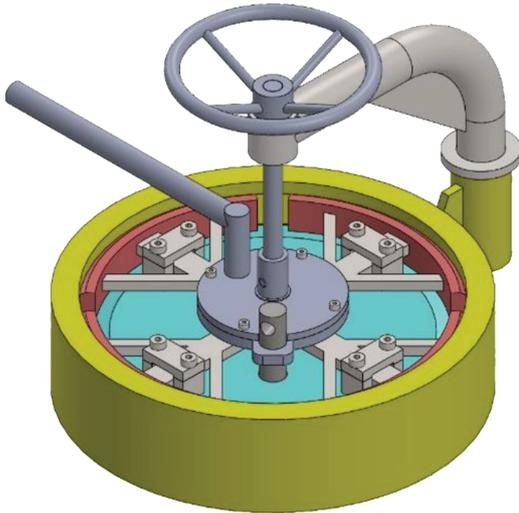
### Materials of Construction

- ASTM A350 LF2 / ASTM A516 70N (Hub & Door)
- ASTM A182 F316 / ASTM A240 Typ 316 (Hub & Door)
- Viton O ring
- Other materials of construction on request
- NACE MR 0175 / TM 0824 compliant materials on request

### Industry Used In

- Oil & Gas
- Petrochemical Mfg.
- Aviation
- Aetroleum Refining
- Environmental
- Marine

## Quick Open Closures Seg-Band 2 Type



### Salient Features

- Opens in minutes compared to conventional bolted flanged closures
- Requires no tools to operate & maintain
- Closures designed to meet ASME BPVC Section VIII Div. 1
- Finite element analysis software optimized design
- Sizes available from DN150 to DN1200
- Pressure ratings available from ASME Class 150 to Class 1500
- Fluid service compatible seal options
- Closures built with Code stamping as option
- Weld overlay on sealing surfaces as option
- Pressure warning bolt as per UG-35

### Applications

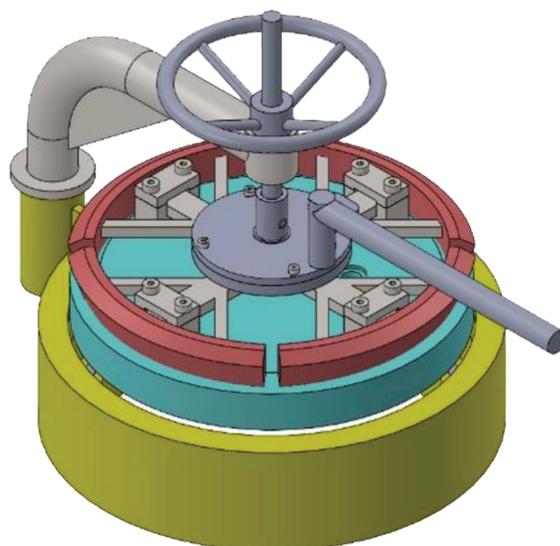
- On process vessels like filters, separators, coalescers, strainers
- On pipeline equipment like pig launchers & receivers

### Industry Used In

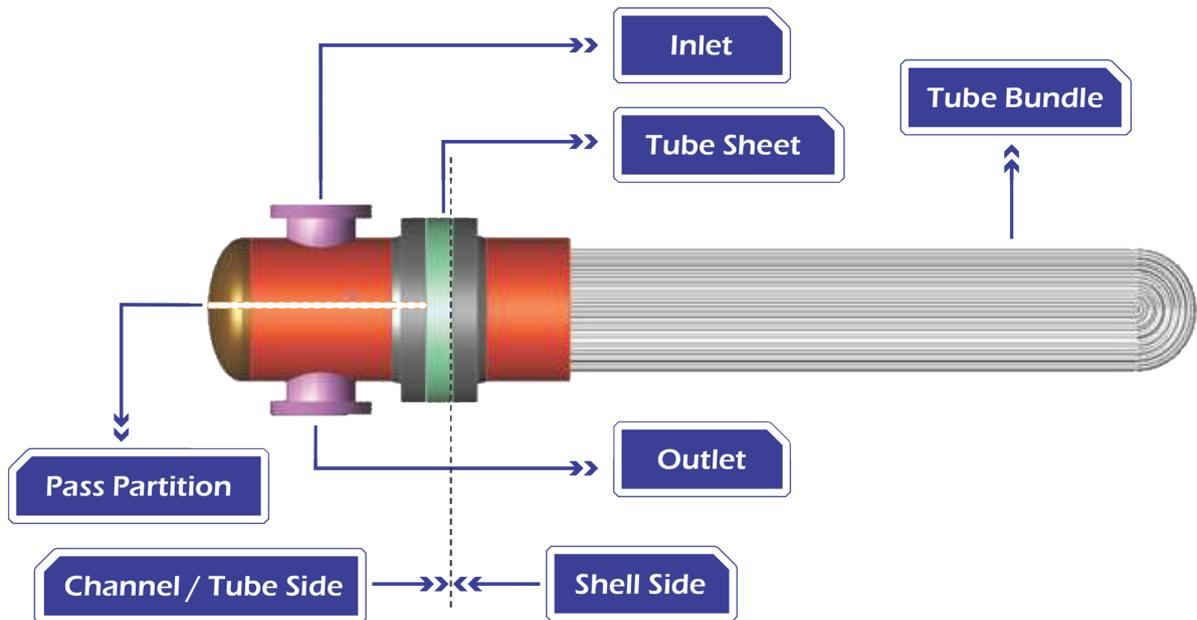
- Oil & Gas
- Petrochemical Mfg.
- Aetroleum Refining
- Environmental
- Aviation
- Marine

### Standard Materials of Construction

- SA 350 / SA 516 / SA 694 (Hub, Door, Ring)
- SA182 / SA 240 (Hub, Door, Ring)
- Self-energizing seal (NBR / Viton)
- Other materials of construction on request
- NACE MR 0175 / TM 0824 compliant materials on request



## Shell & Tube Heat Exchangers



### Salient Features

- In-house capability for mechanical and thermal design
- Suitable for high and low pressure applications
- Suitable for high and low temperature applications
- Easy maintenance
- Complete system design can be offered if required
- Clean room facilities for exotic alloy welding
- Close tolerance machining for improved performance
- ASME Sec IX qualified welders as standard

### Vessel Size

- Up to 120"

### Pressure Ratings

- Up to ASME #2500

### Tube Materials of Construction

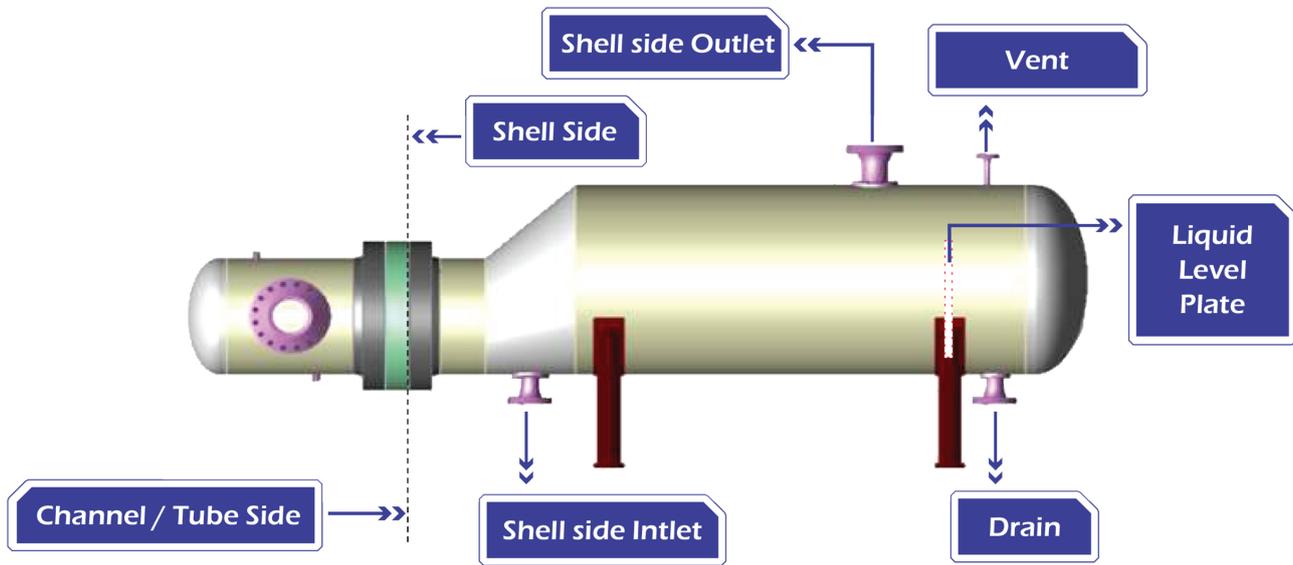
- ASTM A179
- ASTM A213

### Design Features

- Designed to ASME Sec VIII Div 1 & TEMA as standard; ASME Code stamping as option
- Computer software verified mechanical design using PV Elite®
- Computer software verified thermal design using HTRI Exchanger Suite®
- Horizontal installation
- Custom design to API 660 as option
- Finite element analysis if required
- Corrosion resistant alloys suitable for intended service
- NACE MR0175 compliance as option

### Industry Used In

- Oil & Gas
- Power plants
- Natural gas processing plants
- Compressed air or gas systems
- Petrochemical & Chemical plants
- Steel, cement and fertilizer plants



## Shell & Tube Sheet Materials of Construction

- ASTM A106 Gr. B
- ASTM A516 Gr. 70N
- ASTM A105N
- ASTM A312 TP304/304L/316/316L
- ASTM A182 Gr. F304/F304L
- ASTM A182 Gr. F316/316L
- ASTM A240 Type 304/304L/316/316L
- ASTM A266 Gr. 2

## Other Materials of Construction

- Other carbon steels including low temp. steels
- Austenitic-ferritic stainless steels
- Nickel alloys
- Copper alloys
- Titanium alloys

## Inspection & Testing

- Weld inspection by certified welding inspectors
- NDE performance & interpretation by ASNT Level II certified inspectors
- RT & LPT examination as standard, MT & UT examination as option/supplement
- Helium leak testing as option
- PMI testing as standard
- Metallographic examination as option
- Eddy current testing of tubes as option
- In-situ hardness testing as option

## Application

Shell & tube type heat exchangers achieve heating, cooling, condensing or evaporation of distinct fluid streams by transfer of thermal energy through conductive tube bundles enclosed in a shell. One fluid flows through the tubes and another between the shell and the tubes. The thermal energy is conducted across the tube walls from one fluid to the other. Baffles placed in the shell ensure improved heat transfer between the fluid streams

## Simplex Basket Filters - Cast Solid - Gas, Solid - Liquid Separation



### Salient Features

- Easy maintenance
- Quick open cover design as option
- Widest size range
- Efficient design for optimal cost

### Design Features

- Single piece cast construction
- Gross filter area of 7-8 times inlet cross section
- Built to ASME B16.34/B31.3 standards
- Proof tested housing design

### Size

- Up to 12"

### Pressure Ratings

- Up to ASME #300

### 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

### 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

### Filter Element Materials of Construction

- Austenitic stainless steels
- Austenitic-ferritic stainless steels
- Nickel alloys
- Copper alloys

### Industry Used In

- Oil & Gas
- Power Generation
- Environmental
- Industrial Utilities
- Marine
- Chemicals Mfg.
- Metals Mining
- Aviation

### Filter Ratings

- 150  $\mu$ m to 8000  $\mu$ m

### End Connections

- Flanged
- Butt Weld

## Simplex Basket Filters - Fabricated Solid - Gas, Solid - Liquid Separation



### Salient Features

- Dimensional and design flexibility
- High flow rate handling capacity
- Customized cover design for easy service

### Design Features

- Generous gross filter area for low pressure drop
- Built to ASME Sec VIII Div 1/B31.3 standards
- ASME Code stamping as option

### Size

- Up to 120"

### Pressure Ratings

- Up to ASME #2500,
- Up to API 6A 15K

### 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

### 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

### Filter Element Materials of Construction

- Austenitic stainless steels
- Austenitic-ferritic stainless steels
- Nickel alloys
- Copper alloys

### Industry Used In

- Oil & Gas
- Power Generation
- Environmental
- Industrial Utilities
- Marine
- Chemicals Mfg.
- Metals Mining
- Aviation

### Filter Ratings

- 150  $\mu\text{m}$  to 8000  $\mu\text{m}$

### End Connections

- Flanged
- Butt Weld

## T Strainers - Cast & Fabricated Solid - Liquid Separation



### Salient Features

- Low Cost
- Quick delivery due to use of standard fittings
- Flexible Construction

### Design Features

- Suited for coarse filtration and low flows
- Built to ASME B31.3 standards
- ASME B16.9 equal tees standard
- ASME B16.5/B16.47 flanges standard

### Size

- Up to 60"

### Filter Ratings

- 2000  $\mu\text{m}$  to 8000  $\mu\text{m}$

### Pressure Ratings

- Up to ASME #2500, API 10K

### Industry Used In

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

### 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

### Filter Element Materials of Construction

- Austenitic stainless steels
- Austenitic-ferritic stainless steels
- Nickel alloys
- Copper alloys

### 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

## Conical Strainers

### Solid - Gas, Solid - Liquid Separation



#### Salient Features

- Easy to maintain and replaceable
- Horizontal or vertical installation
- Installable in existing pipeline (no extra space required)

#### Design Features

- Built to ASME 16.5/B16.47 standards
- API 6A standards also available
- Gross filter area of 600% as minimum

#### Size

- Up to 40"

#### Pressure Ratings

- Up to ASME #2500, API 15K

#### Filter Ratings

- 75  $\mu\text{m}$  – 10000  $\mu\text{m}$

#### End Connections

- Flanged (FF/RF)
- Flanged (RTJ)

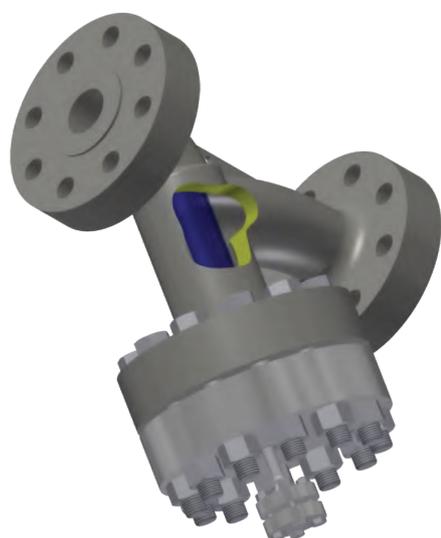
#### Materials of Construction

- Austenitic stainless steels
- Austenitic-ferritic stainless steels
- Nickel alloys
- Copper alloys

#### Industry Used In

- |                    |                 |                        |                 |
|--------------------|-----------------|------------------------|-----------------|
| • Oil & Gas        | • Marine        | • Environmental        | • Metals Mining |
| • Power Generation | • Chemicals Mfg | • Industrial Utilities | • Aviation      |

## Y Strainers - Cast Solid - Gas, Solid - Liquid Separation



### Salient Features

- Compact end-to-end dimension
- Suitable for horizontal or vertical mounting
- No fluid bypass (machined seat)
- Efficient design for optimal cost

### Design Features

- Single piece cast construction
- Gross filter area of 7-8 times inlet cross section
- Built to ASME B16.34/B31.3 standards
- Proof tested housing design

### Size

- Up to 18"

### Filter Ratings

- 150  $\mu\text{m}$  to 8000  $\mu\text{m}$

### End Connections

- Flanged
- Butt Weld
- Screwed
- Socket Weld

### Pressure Ratings

- Up to ASME #2500,
- Up to API 10K

### 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

### Stock Housing Materials of Construction

- ASTM A105
- ASTM A216 Gr. WCB
- ASTM A352 Gr. LCC
- ASTM A351 Gr. CF8
- ASTM A351 Gr. CF8M
- ASTM A351 Gr. CF3
- ASTM A351 Gr. CF3M

### Filter Element Materials of Construction

- Austenitic stainless steels
- Austenitic-ferritic stainless steels
- Nickel alloys
- Copper alloys

### Industry Used In

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

## Y Strainers - Fabricated Solid - Gas, Solid - Liquid Separation



### Salient Features

- Dimensional and design flexibility
- High flow rate handling capacity
- Customized cover design for easy service

### Design Features

- Generous gross filter area for low pressure drop
- Built to ASME Sec VIII Div 1/B31.3 standards
- Vessel design for vacuum as option

### 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 Mfg
- Metals Mining
- Aviation

### 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

### Filter Element Materials of Construction

- Austenitic stainless steels
- Austenitic-ferritic stainless steels
- Nickel alloys
- Copper alloys

### Size

- Up to 30"

### Filter Ratings

- 150  $\mu$ m to 8000  $\mu$ m

### End Connections

- Flanged
- Butt Weld

### Pressure Ratings

- Up to ASME #2500,
- Up to API 6A 15K



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