ANDERSON TM A Division Of The Clark•Reliance Corporation

ACF Series Coalescer Filter

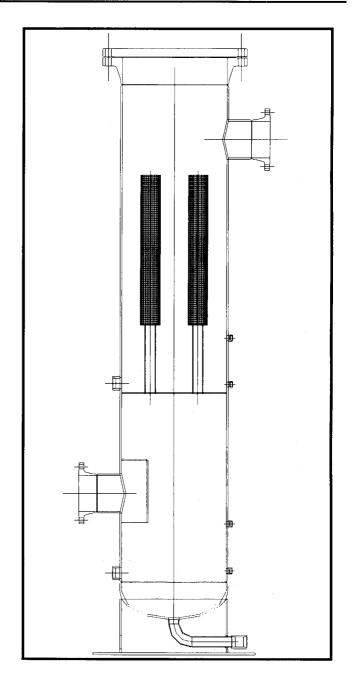
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- Provides Optimum Protection for Downstream Equipment.
- Maximum Removal of Liquids and Solids from Air or Gas Processing Streams.
- 99.98% Removal of Solid Particulate and Aerosol Mists 0.3 Microns or Larger.
- Beta Ratios in Excess of 5,000.
- Multi-stage Separation Design.
- Long Service Life, Low Maintenance and Minimal Downtime with Easily Accessible Coalescing Elements.
- Reduce Maintenance and Operating Costs Associated with Contaminated Gas.

Typical Applications:

Anderson Coalescing Filters are used in applications where sub-micron and aerosol mists must be removed from a gas stream.

- Gas Compressor Discharge removes lubricating oil mist from compressor discharge.
- Gas Injection System removes submicron solids and lube oil which could damage the formation in gas injection systems for storage or enhanced oil recovery projects.
- Solid Dessicant or Molecular Sieve Beds protects from contamination by regeneration gas, lube oils, glycols, and amines.
- Propane refrigeration system Separates lube oil from propane.
- Compressor Engines removes virtually all contaminants from fuel for compressor engines.
- Glycol Carryover removes glycol carryover downstream of glycol contactors.
- Gas Membrane Separator provides maximum protection prior to expensive gas/gas membrane separation.



- Burner Protection removal of liquids and solids in fuel gas that can plug burner tips in heaters and fired reboilers.
- Meters/Gas Operated Instruments/ Pressure Regulators - Protects and maintains performance of equipment from fouling by oils and solids.

Principal of Operation

The Anderson Coalescing Filter is a multi-stage separator that provides maximum solid and liquid removal. The primary stage of separation is designed for removal of large particulate and liquid loads through gravitational and centrifugal force. If a high solid or liquid load (slugging) is present, additional separation internals are available to provide bulk removal and extend the life of the coalescing element.

The final stage of separation consists of one or more multi-special layered fiberglass/ polypropylene coalescer elements. The entrainment laden gas flows from the inside to the outside of the coalescer elements. The innermost layer acts as a pre-filter to remove submicron solids. The fibers of the middle layer capture the fine liquid droplets suspended in the gas and cause the droplets to run together and form large droplets within the depth of the filter. These large droplets emerge on the outer surface of the coalescer and drain by gravity to the lower collection chamber. The clean gas passes from the coalescer elements and exits through the vessel outlet.

Design Features/Options:

- Designed in accordance with ASME Pressure Vessel Code, Section VIII, Division I.
- Custom designed for any application, size, material, or design pressure.
- Access to coalescer elements achieved through vessel closure. Several styles of quick opening closures available.
- Primary configuration is a vertical upflow. Vertical downflow or horizontal configurations are available in special situations
- Large dirt holding capacity
- Low pressure drop
- Low maintenance with minimal downtime

