MUELLER KLS-1C SEPARATOR

The KLS-1C vertical separator for pipeline quality gas is our most compact design making it ideal for metering skids and removal of carryover from amine and glycol contactor towers. The absence of a bulk removal section eliminates the need for a second dump valve and controls.

PRIMARY APPLICATIONS

- Compressor Suction and Discharge
- Gas Storage Injection and Withdrawal
- Upstream of Contactor Tower
- Downstream of Contactor Tower
- Upstream of Desiccant Bed
- Upstream of Metering
- Pipeline Interconnects

INDUSTRY LEADING TECHNOLOGY

The KLS Helical Coil Separator utilizes impingement, coalescence, and inertia to provide maximum contaminant removal efficiencies, outperforming all current traditionally accepted separation methods. The Mueller KLS has become the industry standard for removal of black powder, pipeline iron sulfides, iron oxides, lube oils, glycol, liquid hydrocarbons, condensate and salts.

Don’t waste resources disposing of contaminated and damaged filter/coalescing elements. The Mueller KLS Helical Coil Separator delivers ultra-high levels of contaminate removal without the use of old fashioned disposable filters. The KLS has no moving or disposable parts, enabling it to remain in service with no replacement down time during normal operation, significantly increasing gas throughput, while decreasing maintenance and operations costs. And with no toxic filter disposal, the KLS is by far the safest and most environmentally sound technology.

WARRANTY

Because of the KLS’s remarkable track record Mueller Environmental Designs confidently guarantees to meet separation criteria, and warranties against poor workmanship, material defects, or failure due to improper equipment selection.
UNSURPASSED PERFORMANCE

The KLS Helical Element imparts a high degree of swirl flow that is unaffected by either solids or liquids and is highly efficient at removing pipeline contaminants in slug, stratified, annular or spray flow regimes. It has been proven to remove 99.9% of solids and liquids 0.3 microns and larger. Over the past 15 years, the KLS has been improving operations at hundreds of installations in all segments of the gas industry from the well head to local distribution. Despite the harshest of conditions and the most challenging separation applications, from inlet slug catchers to gas measurement protection, no Mueller KLS device has ever failed.

ADVANTAGES OF THE KLS-1C

- Reduces operating and maintenance costs (no replacement filters or moving parts)
- Greatly reduces hazardous waste disposal costs and worker exposure
- Reduces "lost and unaccounted for gas" and eliminates gas meter measurement error
- Improves fuel efficiency (no incremental increase in compressor suction dp)
- Operates efficiently over a wide and varying flow conditions
- Increases glycol/amine lifecycle and eliminates fire and explosion in the reboiler

REQUIRED PROPOSAL DATA

- Operating pressure range:
  Maximum flow at lowest operating pressure
  Minimum flow at highest operating pressure
  Lowest flow at highest operating pressure
- Operating temperature range
- Types of contaminants
- Specific gravity
- Process applications:
  Upstream or downstream of compression?
  Has gas been dehydrated?
- ASME mechanical design specs including: pressure, temperature, corrosion allowance, MTDT