FLOATING SUCTION LINES AND SKIMMER UNITS

When withdrawing product from storage tanks the quality of the product withdrawn is extremely important. Quite often the bottom part of the product stored in the tank will contain contaminants, such as water (rainwater) or sludge (corrosion scales and other pollutants). To avoid withdrawing this contaminated product from storage tanks floating suction lines are the ideal solution. Installations with special suction solutions for storage tanks are also known in slops tanks, where oil skimmers are used to withdraw the top part of the liquid column. Usually this is the lighter hydrocarbon parts. Floating suction lines and skimmer arrangements can be fitted in conventional fixed roof storage tanks, external floating roof tanks and internal floating roof tanks.

Safety
When requested our extensive experience and profound knowledge of relevant codes as API 650, EPA and EEMUA will ensure a sound approach on the basis of an extensive tank inspection and survey.

Manual lifting arrangements to lift the floating suction line or skimmer can be offered.

Solutions
- Withdrawing clean product
- Reduce product impurities
- Available in different metals and arrangements
- Diameters from 2” to 30”
- Different swivel joints possible, such as U-type and central-type balanced design
- Maintenance free
- Compatible with all stored products, including 100% aromatics

Highlights
- Designed for each specific tank:
  - General arrangement of the floating suction line, depending on:
    - the height to diameter ratio of the tank
    - specific gravity of the stored product
    - withdrawal rate from the tank
    - other tank hardware present inside the tank
    - orientation of the floating suction line
- Expected service life in excess of 20 years
- Easy installation, full installation manuals and project support available
- Assembly is either pressure tested before shipment or prior to commissioning
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Construction
All suitable materials can be used (typical materials are aluminium, carbon steel and stainless steel grades).

Optional Accessories
- Position indicator for the floating suction line or skimmer unit
- Sampling tubes along the floating suction or skimmer unit, allowing product sampling at different liquid levels
- Integrated strainer, to prevent heavy contaminants from entering the suction line
- Manual lifting arrangement, allowing the floating suction line or the skimmer unit to be raised

Engineering
During the engineering phase our team of engineers will review local emission requirements, safety aspects and tank geometry to tailor the product to each specific tank. Important properties, such as material selection are taken into consideration for optimal performance of the product. Proper material selection ensures a long term maintenance free service life.

Materials
Used materials have to withstand the stored product as well as the elements for longer periods of time. CTS will provide an optimum solution that is suitable for dealing with these specific conditions. Completely in line with our sustainability vision all emission requirements will play a major role in the decisions we make during design.

All our product information and specifications are drafted with care but can be subject to change. We reserve the right to change product specifications.