

ALPHA

PRODUCTION SOLUTIONS

SKID MOUNTED PHASE SEPARATORS SOLUTIONS

Separators are an important component on onshore well pads and offshore platforms operations. Used in upstream oil and gas applications as test separator for periodic well testing or production separators for continuous production measurement have one goal, separate the oil from the gas and water and equipped with quality flow measurement get the information to:

- Know how the wells are performing and how much oil, water, and gas you're producing
- Fine-tune your recovery operation to maximize retrieval of hydrocarbons
- Manage the decline curve of your wells

Depending on operator strategy, can be either two-phase or three-phase and depending on the vessel orientation can be vertical or horizontal.

Vertical vessel

- a smaller plan area is required such as offshore platforms, FPSOs, etc.
- easier solids removal
- liquid removal efficiency does not vary with liquid level since area in vessel available for gas flow remains constant.

Horizontal vessel

- large liquid slugs such as production separators.
- restricted head room
- a low downward liquid velocity is required such as crude oil degassing or foam breakdown

Regardless vessel orientation or streams separation strategy all the SKID MOUNTED solutions are provided with:

- Vessels compliant with ASME VIII, Div.1 or Div. 2, H2S (NACE MR0175)
- Relief valves and Rupture discs to protect against overpressure
- Pneumatic control valves on gas and oil outlets
- Complete instrumentation for GAS/OIL/WATER outflow measurement
- Required valves, piping, platforms and supports for easy and safety operation
- Local control panel with signals and communication facilities to integrate with the MSV Compact Manifold and other process equipment

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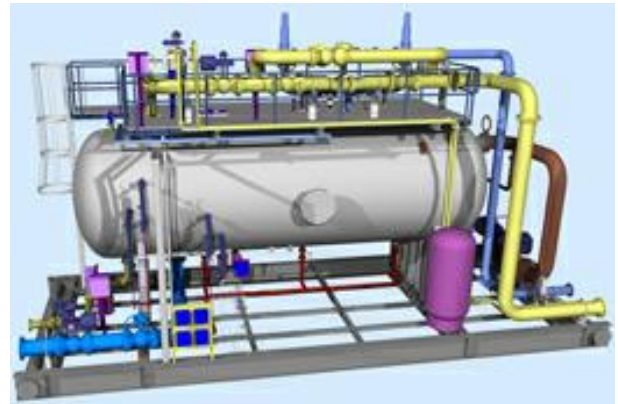
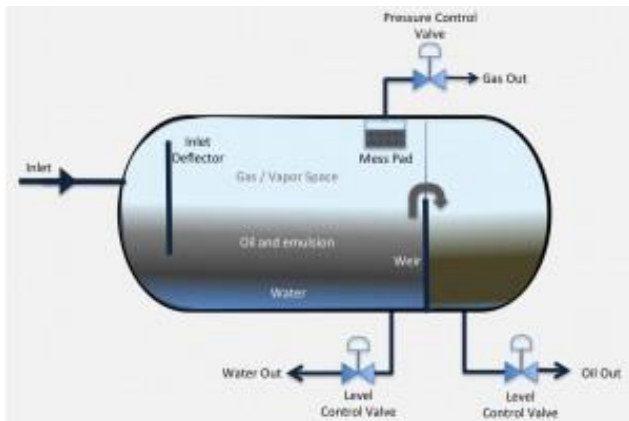
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SKID MOUNTED HORIZONTAL THREE PHASE SEPARATORS

Features

These separators are designed to provide efficient liquid to liquid and gas removal in well streams having high gas/oil ratios, constant flow and small liquid surge characteristic. They will effectively handle large liquid and gas flow rates and are easily applied to production three-phase separation.

- Wide range of vessel sizes for different flow rates
- Fitted with deflector plate, coalescing plates, foam and vortex breaker, weir plate, and mist extractor as required.
- Sand-jet line for fast cleaning
- Custom designs to meet or exceed Customer requirements



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SKID MOUNTED VERTICAL 2 & 3 PHASE SEPARATORS

Features

These separators are most often used in well streams with low to intermediate gas/liquid ratio, liquid surge and produced sand. Although are more expensive than similar capacity horizontals, have higher capacities in a small footprint and are applied when floor space is limited and expensive.

- Wide range of vessel sizes for different flow rates
- Fitted with optimized inlets and sand removal as required.
- Custom designs to meet or exceed Customer requirements

