

3 Phase Separator ANSI 300



Description

The Three Phase Separators are designed to separate and measure water, gas, and oil rates. The Separators are equipped with internal components (inlet deflector, vane pack, coalescer, wave breaker, adjustable weir plates, and mist extractor) that facilitate and improve the phases separation and with complete instrumentation (relief valves, level & pressure controllers, control valves, measuring equipment, and safety devices) that allow us to provide our customers with accurate information concerning the well performance.

All of our equipment has full traceability for each component, and are designed according ASME and NACE codes.

Features

- Separators ANSI 300
- Water and Oil lines designed with by-pass lines, measurement, and control devices
- Dual PSV (Pressure Safety Valve System) with relief line to the back of the skid.
- High and low level alarms/pilots
- High and Low pressure alarms/pilots
- Certified skid and crash frame for offshore operations
- Mounted on trailers for onshore operations



Operating Specification

LENGTH	10 ft.
MAX. WORKING PRESSURE	720 psi
GAS CAPACITY	35 mmscf/d
LIQUID CAPACITY	12,000 bbl.
RELIEF SET PRESSURE PSV1 – PSV 2	720 psi – 740 psi
INLET	4 in. 602 WECO
GAS OUTLET	3 in. 602 WECO
WATER OUTLET	2 in. 602 WECO
OIL OUTLET	3 in. 602 WECO
RELIEF OUTLET	4 in. 602 WECO
WATER FLOW METER	Turbine
OIL FLOW METER	Turbine
GAS ORIFICE METER	4 in. Daniels Sr.
SKID DIMENSIONS L x W x H	20 ft. x 8 ft. x 10 ft.
WEIGHT	18,000 lbs.

Applications

- Well Testing
- Well Clean-ups
- Frac Flowback
- Pipeline Cleaning/Pigging

Vessel Capacity Characteristics

- Composition and Characteristics of the fluid that is going to be separate.
- Pressure and Temperature conditions
- Flow and Gas rates

Additional Information

Test Unit fitted with:

- Deflector plate, coalescing plates, adjustable weir plate, and mist extractor. Gas legs with 6" and 2" Senior Daniels orifice meter. Mallard back pressure valve 3" oil leg with Mallard dump valves and turbine meters (1/2, 1, 2, 3 in.) water leg with Mallard dum valve and turbine meters (1/2, 1, 2 in.) two 3 in. x 4 in relief valves.
- Instrument Gas Scrubber
- Shrinkage Tester
- Inlet Manifold with by-pass
- Barton Chart Recorder
- This unit can be equipped with the PTS wireless data acquisition unit