

4 Phase Separator ANSI 900



Description

The Four Phase Separator is designed to separate gas, water, oil, and solids. Our separators allow you to stay on line during well test, flowbacks, and pigging operations with accurate measurement of water, gas, and oil rates.

The Separator internals comprise of inlet deflector, vane pack coalescer, weir plates, and mist extractor that facilitate and improve phase separation. The unit is supplied with complete instrumentation (relief valves, level & pressure controllers, control valves, measuring equipment and safety devices) to provide our customers with accurate information concerning the well performance. All our equipment has full traceability for each component, and are designed according to ASME and NACE codes.

Applications

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



Features

- High pressure separators ANSI 900
- Water, oil, gas, and solids outlets
- Water and oil lines designed with independent high rate, low rate and by-pass lines with measurement and control devices
- Gas lines designed with high rate and low rate lines with independent 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
- Wireless data acquisition system

Additional Information

Test Unit fitted with:

- Deflector plate, coalescing plates, adjustable weir plate, and mist extractor.
- 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.

Operating Specification

OD	42 in.	53 in.
LENGTH (S/S)	10 ft.	20 ft.
MAX. WORKING PRESSURE	2,160 psi	2,160 psi
GAS CAPACITY	50 mmscf/d	150 mmscf/d
LIQUID CAPACITY	15,000 bpd	35,000 bpd
RELIEF SET PRESSURE PSV1 / PSV2	2,160 psi / 2,230 psi	2,160 psi / 2,230 psi
INLET	4 in. 1502 Weco	6 in. ANSI 900 Flange
GAS OUTLET	4 in. 1502 Weco	6 in. ANSI 900 Flange
WATER OUTLET	2 in. 1502 Weco	3 in. ANSI 900 Flange
OIL OUTLET	3 in. 1502 Weco	4 in. ANSI 900 Flange
RELIEF OUTLET	4 in. 602 Weco	6 in. ANSI 900 Flange
WATER FLOW METER	Dual Turbine	Dual Turbine
OIL FLOW METER	Dual Turbine	Dual Turbine
GAS ORIFICE METER	4 in. Daniels Sr.	3 in. & 6 in. Daniels Sr.
SERVICE	NACE	NACE
SKID DIMENSIONS L x W x H	18 ft. x 8 ft. x 7 ft.	28 ft. x 9 ft. x 9 ft. 6 in.
WEIGHT	28,000 lbs.	68,000 lbs.