

# Separator 42" X 15' 1440 psi , H<sub>2</sub>S (SEP-D)



## Description:

The 3-phase test separator is a 1440 psi vessel which is designed to separate, meter and sample all elements or phases of the effluent. The three phases are oil, water and gas.

## Specifications:

- General:** 42" x 15', 1440 psi, H<sub>2</sub>S 3- Phase Separator
- Features:**
- Center Manhole
  - Flow measuring systems on Oil and Water outlet lines. (NUFLO Type)
  - Pneumatic Control valves on Gas, Oil and water lines. (Fisher Type)
  - High Rate Senior Daniel box – 6" and Low Rate Senior Daniel Box – 3"
  - Safety relief valves with a separate 4" relief line.
  - Bypass manifold.
  - Barton Chart Recorder.
  - Automatic controls for liquid level, gas back pressure.
  - Sample points



**Working Pressure** : 1440 PSI at 125 ° F  
: 1335 PSI at 250 ° F

**Vessel Volume** : 28 BBL



Liquid Level	Oil Capacity*	Gas Capacity*
Low Liquid Level	12,000 BPD	72 MMSCFD
High Liquid Level	15,000 BPD	41 MMSCFD

\* Values are obtained at 1 min retention time and 1440 psi

## Connections:

Inlet : 3" Fig 602 F - WECO  
 Gas Outlet : 3" Fig 602 M - WECO  
 Oil Outlet : 3" Fig 602 M - WECO  
 Water Outlet : 3" Fig 602 M - WECO  
 Relief Outlet : 4" Fig 602 M - WECO



## Applicable Codes:

ASME Section VIII Division 1 and H<sub>2</sub>S (NACE MR-0175 2003 Edition), ANSI B31.3

## Weight and Dimension:

**Weight** : 17,236 (38000 lbs)  
**Dimensions** : 2.400 m width X 7.620 m length X 2.590 m height

