

TWO PHASE SEPARATOR



Two Phase Separator

The two phase separator is a pressurized vessel used to measure liquid flow rates from the separator. It is used to obtain a meter factor and an accurate measurement of shrinkage. The use of a two phase separator is compulsory for operations where H₂S is present.

Often, in high oil/condensate producing wells when first stage separation is being conducted at a high pressure, a second, low pressure separation stage is recommended to remove dissolved gas from the condensate.

TETRA PRODUCTION TESTING SERVICES

TECHNICAL SPECIFICATION

Working Pressures:	1,724 kPa (250 psi)
Service:	H ₂ S
Standard:	NACE MR0175
Code:	ASME
Safety Relief Valve:	5- x 8-centimeter (2- x 3-inch)

Connections:

Inlet Union (Female):	8-centimeter (3-inch)—602
Oil Outlet Union (Male):	8-centimeter (3-inch)—602
Gas Outlet Union (Male):	8-centimeter (3-inch)—602
Drain Union (Male):	8-centimeter (3-inch)—602
Relief Line Outlet Union (Male):	8-centimeter (3-inch)—602

Capacity:

Gas:	0.28 MMsm ³ (10 MMscfd)
Oil:	15.9 m ³ (100 barrels)

Fluid Measurement Device:

Gas:	One (1) 8-centimeter (3-inch) Gas Turbine Meter
Oil:	One (1) 5-centimeter (2-inch) Oil Turbine Meter

Dimensions (L x W x H): 7.3 x 3 x 2.4 meters (24 x 10 x 8 feet)

Weight: 12,700 kilograms (28,000 pounds)