

THREE PHASE TEST SEPARATOR (SKID MOUNTED)

Oiltest three phase separators offer unbeatable flow metering performance in the oil industry.

A three phase separator will split crude into its three main constituents; oil, water & gas

Deflector plates inside the vessel partially atomize the crude at the inlet. Weir plates then split the settled oil and water at the bottom of the vessel. The gas rises to the top of the vessel and flows out through a demister pad. Metering of the three parts by positive flow meters and chart recorders occur within the same skid frame as the vessel. Safety valves and rupture discs mounted directly on top of the vessel and venting to atmosphere allows for a safe working environment.



Specifications

Nominal Working Pressure:	1440 Psi
Relief Valve type:	Mercer Valve 9100 Series Flanged
Set at	: 1440 psi
Rupture Disc type	: Elfab Hughes LWP - SP
Burst at 59°F (15°C)	: 2" STD. (LL) Lamot RUPTURE Disc
201°F (94°C)	: 1584 psi

Specifications

Nominal Capacity With Vessel Half Full:

Gas	: 43.1 MMSCF/D at 1440 psig Operating Pressure 26.9 MMSCF/D at 600 psig Operating Pressure
Liquid	: 6,960 BPD total liquid with 2.0 minute retention time 13,920 BPD total liquid with 1.0 minute retention time

Nominal Capacity With Vessel Full:

Gas	: 60.3 MMSCF/D at 1440 psig Operating Pressure 38.0 MMSCF/D at 600 psig Operating Pressure
Liquid	: 4,210 BPD total liquid with 2.0 minute retention time 8,420 BPD total liquid with 1.0 minute retention time

Metering System

Gas Line Bore	:	5.761"
Pf	:	0 - 1500 psi
hw	:	0 - 400" WC
Temp	:	0 - 200°F
Oil Flow Analyser	:	2 x 2"/100 - 13000 BOPD
	:	3 x 3"/100 - 21000 BOPD
Water Flow Analyser	:	2 x 2"/100 - 13000 BOPD

Connections

Fluid inlet	:	3" Fig 602 F
Gas outlet connection	:	3" Fig 602 M & (1" Fig 602 for Heater)
Oil outlet	:	3" Fig 602 M
Water outlet	:	2" Fig 602 M
Air Supply	:	1/2" x 1/4" NPT/Female
Sampling Point	:	1/2" x 1/4" NPT/Female

SKID MOUNTED:

Dimensions

Length	:	230"
Width	:	96"
Height	:	108"
Gross Weight	:	31500 lbs (14288 Kg)
Net Weight	:	31000 lbs (14062 Kg)