



# THREE-PHASE TEST SEPARATOR

## Production Testing Solutions

TETRA's Three-Phase Test Separator is used to separate gas, oil and, water to a level and provides accurate measurement of each produced phase. Gas is measured using a differential orifice meter—an AGA standard methodology. Liquid measurements are obtained from industry standard turbine flow meters. Optionally, devices such as gas turbines or vortex meters can be incorporated for gas measurement. The test separator is manufactured to the latest ASME vessel pressure codes and power piping standards. For operation in corrosive environments, units can be manufactured to meet NACE MR-01-75. Units are available in several sizes and pressure ratings for operation in different flow rate capacities and line pressures. The test separator vessel is equipped with dual pressure safety relief devices. Sufficient valves are available to bypass components or comingle outlet flows as needed. Units can be supplied to DNV 2-7.1 structural standards when needed.

### Features/Benefits

- Onshore and offshore operations
- Three-phase capability
- Enables measurement of single phases of processed well production
- DNV 2.7.1 can be provided, if required
- Certification documentation maintained
- Incorporates dual relief valves
- Multiple sampling points through-out system
- Incorporates cleanout ports through-out vessel



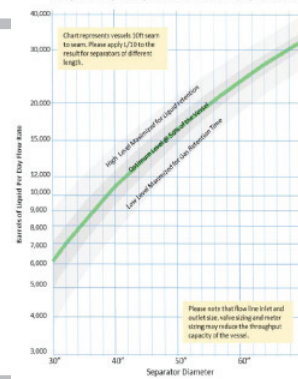
### Applications

- Onshore and offshore operations
- Well testing operations
- Drill stem testing operations
- Well cleanup operations
- Production testing operations
- Early production facilities and extended appraisal tests

### Technical Specifications

Working Pressure (Psi)	1,440	1,440	1,440	2,025	2,025
Temperature Range (°F)	-20 / +130	-20 / +130	-20 / +130	-20 / +130	-20 / +130
Vessel Size	30" ID x 10'SS	36" ID x 10'SS	42"ID x 12'SS	36"ID x 10'SS	48"ID x 12'SS
Gas (MMSCF/D)	30	40	80	65	95
Liquids (1000 BPD)	4500	5200	11,000	6,000	17,000
Gas Meter	4"	4"	6"	4"	6"
Liquid Meters	2"	2"	2",3"	2"	2",3"
Service Design	Stand / NACE	Stand / NACE	Stand / NACE	Stand / NACE	Stand / NACE
Applicable Codes	ASME SEC VIII DIV I		ASME B31.3	NACE MR01-75	
Dimensions (W x L x H)	7'11"x21'2"x7'6'	7'11"x21'2"x7'6'	7'6"x19'x8'3"	7'11"x21'2"x8'	7'6"x19'x8'3'
Weight (lbs)	15,000	20,000	36,000	30,000	52,000

Liquid Capacity of Horizontal Separators



Gas Capacity of Horizontal Separator

