

# Surge Tank

## SURFACE EQUIPMENT

### Overview

The surge tank is a vertical, usually 100bbl, vessel to measure or store production after initial separation. It enables correction factors such as liquid shrinkage and or weathering factors to be calculated. It can be used as a second stage separator and has controls for gas and relief systems. The vessel can be single or dual compartment, the later allowing for batch flow with continuous measurement capability. Vessels can be fitted with steam coils and in conjunction with a steam generator can be heated. Inlet pipework can incorporate a bypass system to allow the tank to be isolated from the flow.

### Applicable Information

- Onshore and offshore operations
- Functions as a P-Tank, surge tank, second stage separator or stand alone low pressure separator
- Well testing, cleanup and frac flow back applications
- Wellsite intervention services
- Early production facilities, extended appraisal testing

### Features

- Inlet bypass
- Relief and back pressure system
- Single or dual compartment

### Benefits

- Modular design, quick rig up
- Pressurized for sour applications
- Liquid, shrinkage and meter factor measurement
- Sample points and large dead oil volumes
- ASME BPVC VIII and NACE compliant
- DNV certified skid





Equipment Specifications - Surge Tank			
Maximum Allowance Working Pressure (psig)	75	150	250
Temperature Range (°F)	-20/220		
Service Design	Sour Service		
Connections			
Inlet (in)	3	3	3
Gas Outlet (in)	4	4	4
Relief Outlet (in)	4	4	4
Liquid Outlets (in)	3	3	3
Vessel Dimension	78" x 14"	78" x 18"	78" x 18"
Gas (mmscf/d)	5	5	25
Liquid (1,000 bpd)	12	16	16
Applicable Codes	NACE MR-01-75 / ASME Sec VIII Div 1 / ASME B31.3 / DNV		
Dimensions	7'4" x 8'4" x 19'	7'4" x 8'4" x 24'	7'4" x 8'4" x 24'
Weight (lbs)	7,800	16,000	18,000
Compartments	1	1,2	

Note: Various sizes and configurations are available.