Well Testing Equipment Catalogue | Surface Well Testing Equipment

SURGE TANK

Oiltest surge tanks are designed for three working pressures with added features to ensure versatility for various process applications.

The pressure containing Surge Tank allows more versatility within the test installation than atmospheric designs. The pressure integrity of the vessel is useful during handling of sour crudes when using as a holding vessel or for proving meters atmosphere takes place under normal conditions. The units contain required valving for flow and bypass applications and all required pressure relief and control devices.

Both compartments of the surge tank are equipped with sight glasses.

This design of tank can be used as a second stage, two phase separator with slight additions to gas and fluid metering. The unit is highly successful where a longer retention time is required for good separation due to foaming or poor G.O.R's

Another advantage of the surge tank is that the design allows you to keep back pressure on transfer pumps for production disposal and calibration strips.



Specifications

Maximum Allowable W.P.: Test pressure: Design Temperature: Service: Vessel diameter: Vessel length:

Capacity:

MATERIALS

Shell & Heads: Saddle & Skirt: Flanges: Nozzle necks: Piping: Compensation plates: Skid frame: Hardness requirements (for wetted surface parts) Impact toughness:

Corrosion allowance: **SAFETY DEVICES** Pressure Relief valve:

High Liquid level alarm: 3" 150# RF flange Low Liquid level alarm: 150 psig 225 psig -50 to 250°F Sour Gas (H2S) 96" Vertical unit, 10 ft height

2 x 50 bbl compartments

BS1501-224-490 LT50 BS1501-224-490 LT50 ASTM A350 LF2 ASTM A333 GR 6 ASTM A333 GR 6 BS1501-224-490B LT 50 BS4360 Gd 43 A /50D 22 Hrc Max Average

Charpy values at minimum design temperatures. 1/8"

6" 150# RF SRZ-G rupture disc Pneumatic level control, x

Pneumatic level control, x 3" 150# RF flange

NOZZLES/FLANGES & FLOWLINE

Gas Outlet:	6" 150# RF flange, 6" Sch 40 line,			
Oil Inlet:	4" 150# RF flange, 4" Sch 80 line,			
Oil Outlet:	4" 150# RF flange, 4" Sch 80 line,			
Relief Outlet:	6" 150# RF flange, 6" Sch 40 line,			
Liquid Drain Outlet: 2" 150# RF flange, 2" Sch 40 line,				
Manway:	18" 150# TB Closure,			
Hi-Level gauge fl	lange: 3" 150# RF flange,			
Low Level gauge	flange: 3" 150# RF flange,			
VALVES				
Fluid Inlet:	3" 600# RF flange BalonBall Valve			
Oil Outlet:	3" 600# RF flange BalonBall Valve			

Oil Outlet:3" 600# RF flange BalonBall ValveDrain line:2" 150# RF flange BalonBall Valve

CONNECTIONS

Fluid Inlet:
Gas Outlet:
Relief line:
Oil Outlet:
Drain line:

4" # 150 RF flange x 4" Fig 602 female 6" # 150 RF flange x 6" Fig 206 male 6" # 150 RF x 6" Fig 206 male 4" # 150 RF flange x 4" Fig 602 2" # 150 RF flange x 2" fig 602 female

MISCELLANEOUS

Air supply for Instrumentation				
Femperature Indicator points,		3/4" NPT female x		
-	_	3000# TDL		
Fluid sampling p	oints, 1/2"	' NPT female x 3000#		
	TDI	L		
DIMENSIONS				
Weight:	5500 kgS (Sk	kid & Empty Vessel)		