

PRESSURIZED STORAGE TANK

UNIT: ST003

PERFORMANCE

Maximum Operating Pressure (limited to PSV set pressure)	50 psi (345 kPa)
Minimum/Maximum Rated Operating Temperature of Vessel	-40°F/115°F (-40°C/46°C)
Liquid Storage Capacity	545 bbl (86.6 m ³)
Maximum Gas Flow Rate @ 90% Maximum pressure	12 MMscfd (340 e ³ m ³ /d)
Maximum Liquid Rate (operating ½ full)	68,481 bbl/day (10,887 m ³ /day)
Liquid Retention Time at maximum flow rate	5 minutes
Flometer max Gas Flow rate @ 90% Maximum pressure	5.3 MMscfd (150 e ³ m ³ /d)
Pressure Relief Valves Max Flow Rate	3.12 MMscfd (88.35 e ³ m ³ /day)
System Maximum Gas Rate (limited by optional meter run)	5.3 MMscfd (150 e ³ m ³ /day)

VESSEL DIMENSIONS

Diameter (ID)	108" (2.74 m)
Length S/S	542" (13.75 m)

FLUID TRANSFER SIZE & PRESSURE RATING

Inlet size	3" (76.2 mm)
Inlet pressure rating	50 psi (345 kPa)
Gas Outlet	4" (101.6 mm))
Oil Outlet size	3" (76.2 mm)
Water outlet size	3" (76.2 mm)
Outlet's pressure ratings	50 psi (345 kPa)

FLOW INSTRUMENTATION

Gas Meter (Optional, installed on gas out piping)	4" (101.6 mm) Senior Daniels
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SHIPPING DIMENSIONS

Width	11' (3.35 m)
Length	56' (17.1 m)
Height	12.5' (3.81 m)
Weight Estimate	47,000 lbs. (21,320 kg)

CERTIFICATION

Vessel	ASME Sec. VIII Div. 1
Piping	ASME B31.3
Province(s) of Registration	AB
Sour Service NACE Standard	MR0175

