

FRAC SEPARATOR
UNIT: FS050
PERFORMANCE

Maximum Operating Pressure (limited to PSV set pressure)	1,440 psi (9,929 kPa)
Minimum/Maximum Rated Operating Temperature of Vessel	-50°F/200°F (-46°C/93.3°C)
Liquid Storage Capacity	58.5 bbl (9.26 m ³)
Maximum Gas Flow Rate @ 90% Maximum pressure	150 MMscfd (4,248 e ³ m ³ /d)
Maximum Liquid Rate (operating ½ full)	20,893 bbl/day (3,336 m ³ /day)
Liquid Retention Time at maximum flow rate	2 minutes
Flometer max Gas Flow rate @ 90% Maximum pressure	101 MMscfd (2,860 e ³ m ³ /d)
Pressure Relief Valves Max Flow Rate	52.56 MMscfd (1,489 e ³ m ³ /d)
System Maximum Gas Rate (limited by PSV)	52.56 MMscfd (1,489 e ³ m ³ /d)

VESSEL DIMENSIONS

Diameter	ID – 55" (1,397 mm)
Length S/S	15' (4.57 m)

FLUID TRANSFER SIZE & PRESSURE RATING

Inlet size	6" (152.4 mm)
Inlet pressure rating	1,440 psig (9,928 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	1,440 psig (9,928 kPa)

FLOW INSTRUMENTATION

Gas Meter	4" (101.6 mm) Senior Daniels
Back Pressure	3" Fisher HPT Control Valve
Dump Valve	2" CVS HPX5
Differential Recorder	Barton

SHIPPING DIMENSIONS

Width	10'-6" (3.20 m)
Length	41' (12.49 m)
Height	11' (3.35 m)
Weight Estimate	72,500 lbs (32,885 kg)

CERTIFICATION

Vessel	ASME Sec. VIII Div. 1
Piping	ASME B31.3
Province(s) of Registration	BC, AB, SK
Sour Service NACE Standard	MR0175/ISO15156-1

