

# Three Phase Separator

## -Test Separator

Senoil's well test separator is designed to efficiently separate well fluid into oil, gas and water to enable these fluids to be individually measured. Test separator is self-contained unit with valves, control valves, pneumatic controller, and safety valve which will control vessel pressure and fluid level.

### APPLICATION

- Onshore operation
- Drill Stem Test
- Well Cleanups
- Well/Production Testing
- Early Production



### FEATURES & BENEFITS

- Flow meters enable analog and digital recording
- Daniel orifice meter enable orifice change online
- Fitted with deflector plate, colassing plate, form breaker, vortex breaker, weir plate, and mix extractor to ensure efficient separation
- Double safety valve or one safety valve with one rupture disk ensure vessel no overpressure
- Full-bore bypass manifold with isolation valves enables routing of inlet effluent to gas, oil, and water outlets.
- Internally coated for protection and extended vessel life.

## Test Separator

## Typical Specification

Nominal vessel size	42" x 10'
Process design pressure at 122° F	1440
Process design temperature (c degree)	-29 to 50
Maximum Gas Capacity (MMscfd)	75
Maximum Liquid Capacity (bbl/d)	10,000
Outside dimensions (L x W x H) (m)	5.95 x 2.4 x 2.59
Approximate empty weight (kg)	15,000
PVT fluid sampling points	Gas and oil lines
Liquid Sampling Points	Inlet, oil and water lines
Gas measurement equipment	4" Daniel orifice meter with 3-pen Barton recorder
Oil measurement equipment	2" and 1" Nu-Flo turbine meter with shrinkage tester
Water measurement equipment	1" Nu-Flo turbine meter
Safety Devices	3 x 4-in. pilot operated pressure safety valves
Internal coating	Available
Fluid Inlet	3" FIG 602 F
Oil Outlet	3" FIG 602 M
Gas Outlet	4" FIG 602 M
Water Outlet	3" FIG 602 M
Vent Outlet	4" FIG 602 M
Full bore valve and bypass manifold	YES
Vessel manway	18-in. diameter, ANSI 600RF flange
Applied Codes	API 12J
	ASME VIII Div I
	ANSI B31.3
	NACE MR0175
	DNV 2.7.1

## Options

other size and specification available upon request

if there is request, please contact with our sales people ([contact@shsenoil.com](mailto:contact@shsenoil.com)).