

Three Phase Test Separator



Expro's horizontal, three-phase Test Separator has automated controls on gas pressure, gas/oil and oil/water interfaces, mounted on an oilfield structural steel skid with drip pan, crash frame and three-coat, offshore type paint system, rated for sour (H₂S) service. The unit is fully manifolded for complete flexibility of operation, including bypassing and/or co-mingling oil, gas or water. The Test Separator is designed with a removeable crash frame which reduces the overall weight of the unit for transport.

There are many different sizes and configurations of Expro's test separator to meet the following requirements:



Expro Horizontal Separators							
Service & Working Pressure psi	Temp Rating °F	Capacity Liquid & Gas bpd & MMscfd	Metering Gas, Oil, Water	Safety Devices	Connections	Dimensions (h x l x w) & Weight ft & lbs	Design Code
42" O.D. x 10' Tan/Tan							
Sour, 1,440	20 to 212	6,969 & 56 2 min retention time	Gas: Daniel senior orifice, line bore 5.761" 3-pen recorder 0-1,500psig, 0-400" WG, 0-250°F Oil: 1" Turbine Meter (170 to 1,700 BBL/D) 2" Turbine Meter (1,300 to 13,000 BBL/D) Water: 1" Turbine Meter (170 to 1,700 BBL/D)	1, 3" x 4" PSV set @ 1,440psig 1, 2" rupture disc. set @ 1,584psig	Inlet: 3" 602 H.U. (F) Gas Outlet: 3" 602 H.U. (M) Oil Outlet: 3" 602 H.U. (M) Water Outlet: 3" 602 H.U. (M)	9.0 x 19.0 x 8.0 Weight: 32,100	ASME VIII Div. 1, ANSI B31.3, NACE MR-01-75
42" O.D. x 15' Tan/Tan							
Sour, 1,440	20 to 212	10,025 & 72 2 min retention time	Gas: Daniel senior orifice, line bore 5.761" 3-pen recorder 0-1,500psig, 0-400" WG, 0-250°F Oil: 1" Turbine Meter (170 to 1,700 BBL/D) 2" Turbine Meter (1,300 to 13,000 BBL/D) Water: 1" Turbine Meter (515 to 6,000 BBL/D)	1, 3" x 4" PSV set @ 1,440psig 1, 2" rupture disc. set @ 1,584psig	Inlet: 3" 602 H.U. (F) Gas Outlet: 3" 602 H.U. (M) Oil Outlet: 3" 602 H.U. (M) Water Outlet: 3" 602 H.U. (M)	9.0 x 28.00 x 8.0 Weight: 37,400	ASME VIII Div. 1, ANSI B31.3, NACE MR-01-75
48" O.D. x 10' Tan/Tan							
Sour, 1,440	20 to 212	8,250 & 72 2 min retention time	Gas: Daniel senior orifice, line bore 5.761" 3-pen recorder 0-1,500psig, 0-400" WG, 0-250°F Oil: 2" Turbine Meter (1,300 to 13,000 BBL/D) 3" Turbine Meter (2,750 to 27,000 BBL/D) Water: 2" Turbine Meter (1,300 to 13,000 BBL/D)	1, 3" x 4" PSV set @ 1,440psig 1, 2" rupture disc. set @ 1,584psig	Inlet: 3" 602 H.U. (F) Gas Outlet: 3" 602 H.U. (M) Oil Outlet: 3" 602 H.U. (M) Water Outlet: 3" 602 H.U. (M)	9.5 x 19.0 x 8.0 Weight: 38,840	ASME VIII Div. 1, ANSI B31.3, NACE MR-01-75
48" O.D. x 15' Tan/Tan							
Sour, 1,440	20 to 212	14,000 & 105 2 min retention time	Gas: Daniel senior orifice, line bore 7.981" 3-pen recorder 0-1,500psig, 0-400" WG, 0-250°F Oil: 1" Turbine Meter (170 to 1,700 BBL/D) 2" Turbine Meter (1,300 to 13,000 BBL/D) 3" Turbine Meter (2,750 to 27,000 BBL/D) Water: 1" Turbine Meter (170 to 1,700 BBL/D) 2" Turbine Meter (1,300 to 13,000 BBL/D)	1, 3" x 4" PSV set @ 1,440psig 1, 2" rupture disc. set @ 1,584psig	Inlet: 3" 602 H.U. (F) Gas Outlet: 3" 602 H.U. (M) Oil Outlet: 3" 602 H.U. (M) Water Outlet: 3" 602 H.U. (M)	9.5 x 25.00 x 5.0 Weight: 37,480	ASME VIII Div. 1, ANSI B31.3, NACE MR-01-75