



Artificial Lift Services

The most affordable,
highest-performing, lowest-
risk downhole gas and solids
separator ever built

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WhaleShark Gen4 Composite™ Separator

USE IN WELLS WITH

- excessive pump gas interference and inconsistent pump fillage
- low rod or pump reliability
- solids or corrosion risks
- sluggish flow conditions at any wellbore inclination
- retrieval concerns or risks

VALUE FEATURES

- more consistent pump fillage, higher production, longer run times, and lower lifting costs
- Affordable, exceptional performance, minimal risk**
- Patented design – see **SPE Paper 209755** – delivers maximum gas separation efficiency for all conditions
- Packerless** – no packer, no seal cups, dramatically lower installation and retrieval risk
- Unmatched tensile and torque ratings using proven sucker rod technology, **minimizes retrieval risks**
- Readily millable fiberglass composite large-OD shroud-can, **minimizes fishing risks**
- High corrosion and H₂S tolerance; stainless steel pump intake dip tube
- Swirl vane solids separator efficiently separates solids into mud joints
- Compatible with advanced solids solutions: **SharkNET™, MudShark™, SharkGUT™, SandShark™**
- Serviceable components
- Use in BHA with **SharkTAC™** high annular flowby eccentric tubing anchor



Separator Specifications – Engineered for Maximum Reliability

Series Model Name	35comp	45comp
Composite Shroud OD, in [mm]	3.5 [88.9]	4.5 [114.3]
Maximum Metal OD, in [mm]	3.1 [78.7]	3.7 [93.9]
Length, feet [m]	26.5 [8.0]	26.5 [8.0]
Top / Bottom BHA Connections (box-box)	2-3/8" EUE	2-7/8" EUE
Optional Pump Intake Tube Bottom Conn	1.0" NPT	1.25" NPT
Ratings: Tensile, klbs _r [kdaN]	70 [31]	120 [53]
Torque, ft-lbs [kNm]	1,200 [1.6]	2,000 [2.7]
Temperature, °F [°C]	280 [138]	280 [138]

Maximum Capacities (at gas volume fractions >20% and non-foamy fluids)

Liquid, bbl/day [m ³ /day]	1,500 [240]	3,000 [480]
Gas, mscf/day [e ³ m ³ /day]	2,000 [56]	3,000 [85]

Separator Materials: fiberglass-epoxy shroud, KD-DS sucker rod, 316 stainless steel intake dip tube, L-80 top/bottom BHA connections

Up to 364% larger intake area than legacy separators = unmatched

Competitor1 3.5" shroud	Competitor2 3.5" shroud	WhaleShark35ss 3.5" shroud	WhaleShark35comp 3.5" shroud
			
1.6 in ² 0 %	4.7 in ² 204 %	6.1 in ² 296 %	7.2 in ² 364 %

Why WhaleShark Gen4 Composite™ changes the game

WhaleShark Gen4 Composite, the smartest evolution in downhole separation — strategically repurposing proven, field-tough technologies (sucker rod + thin-wall fiberglass composite) to deliver affordable reliability, superior performance, and minimal risk. API monogrammed sucker rod provides full traceability.

Design breakthroughs:

- Sucker rod structural backbone — battle-tested strength, high fatigue resistance, and corrosion performance at a fraction of the cost.
- Fiberglass composite shroud-can — large OD for dramatically better separation while remaining fully millable; thin-walled, abrasion resistant, high-temperature, and non-corroding.
- Slim-OD top and bottom metal subs — greatly reduce retrieval risks.
- Stainless steel pump intake dip tube — maximum durability.

Liquid Fallback Gas Separation Technology, an upward facing collector shroud-can intake harnesses the natural power of multiphase liquid fallback (liquids fall faster than gas bubbles rise). The result? Exceptional gas-liquid separation and unmatched tolerance for slug flow — even in highly deviated wells.

Swirl Vane Solids Separation Technology, innovative 3-D printed axial swirl vanes create controlled fluid slippage that separates solids efficiently without the narrow flow-rate limits of traditional cyclonic desanders.