



Artificial Lift Services

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

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WhaleShark 4.0 Composite™ Separator

USE IN WELLS WITH

- excessive pump gas interference and inconsistent pump fillage
- low rod or pump reliability
- solids or corrosion risks
- sluggy 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
- Readily millable fiberglass composite large-OD shroud-can, **minimizes fishing risks**
- High corrosion and H₂S tolerance; stainless steel pump intake dip tube
- Internal 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

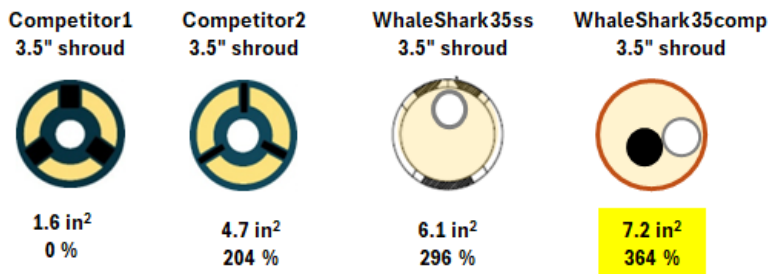
Series Model Name	35comp	45comp
Composite Shroud OD, in [mm]	3.5 [88.9]	4.5 [114.3]
Maximum Metal OD, in [mm]	3.1 [78.7]	3.7 [93.9]
Length, feet [m]	20.7 [6.3]	20.7 [6.3]
Top and Bottom BHA Connections (box)	2-3/8" EUE	2-7/8" EUE
Optional Pump Intake Tube Bottom Conn	1.0" NPT	1.25" NPT
Ratings: Tensile, klbs _r [kdaN]	70 [31]	120 [53]
Torque, ft-lbs [kNm]	1,200 [1.6]	2,000 [2.7]
Temperature, °F [°C]	250 [121]	250 [121]

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



Why WhaleShark 4.0 Composite™ changes the game

WhaleShark 4.0 Composite is 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.

Design breakthroughs:

- Sucker rod as the structural backbone — battle-tested strength, fatigue resistance, and corrosion performance at a fraction of the cost.
- Thin-walled, abrasion resistant, high-temperature fiberglass composite body — larger OD for dramatically better separation while remaining fully millable.
- Slim-OD top and bottom metal subs — greatly reduce retrieval risks.
- Stainless steel pump intake dip tube — maximum durability where it matters.

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 can 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.