



Artificial Lift Services

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# MudShark™ Extended Intake Tubing BHA Solids Separator

## USE IN WELLS TO:

- Maximize sucker rod pumping performance with solids laden produced fluids and using **Extended Dip Tube BHA's**
- Use in combination with **WhaleShark™** gas separator, **SharkNET™** self-cleaning solids filtering system, **SharkGUT™** horizontal solids separator, **SandShark™** pump solids fallback protection system, **SharkTAC™** tubing anchor and **Q2-Flow™+SandTwister™** pump
- Maximize sucker rod pump and rod run-life and reliability
- Reduce solids related stuck pump risks and to avoid pump start-up issues after a shut down

## VALUE FEATURES:

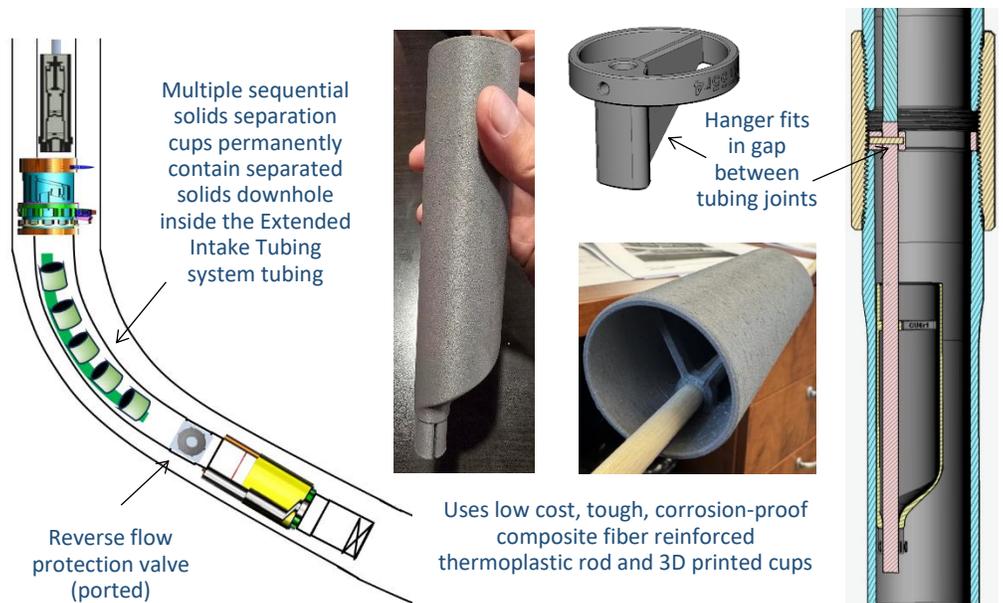
- Patent pending design that uniquely “busts up” solids slugs, then separates/contains solids
- Protects the sucker rod pump from damaging solids
- Engineered for Extended Intake Tubing BHA systems
- Innovative eccentric fiber reinforced thermoplastic cups, mounted on a 3/8” fiber reinforced thermoplastic rod, separate, capture and retain solids “out of harm’s way”
- Sucker rod pumping cyclical flow improves separation efficiency (during the downstroke when the standing valve is closed, solids settle into the cups)
- Minimal pressure loss across cups (28 cups per tubing joint)
- Multiple **MudShark™** inserts can be run by into each tubing joint for increasing the downhole solids containment capacity
- Optional reverse flow protection valve (for pump unseating risks)

## MudShark™ Insert Specifications

Series Model Name	20	25	30
For Tubing Size, in [mm]	2-3/8 [60.3]	2-7/8 [73.0]	3-1/2 [88.9]
Cup Outside Diameter, in [mm]	1.2 [30.5]	1.7 [43.2]	2.25 [57.2]
Length, feet [m]	29.5 [9.0]	29.5 [9.0]	29.5 [9.0]
Temperature Rating, °F [°C]	280 [138]	280 [138]	280 [138]
Tensile Rating, lbf [daN]	10,000 [4,450]	10,000 [4,450]	10,000 [4,450]
Solids Capacity/Insert, bbls [m³]	0.06 [0.01]	0.10 [0.014]	0.13 [0.02]

Materials: Rod – polyketone carbon fiber reinforced thermoplastic  
Cup/Hanger – PA6 glass fiber reinforced thermoplastic, cinch clamp 316ss :

## Tubing Retrievable Downhole Solids Separation and Containment



A fully engineered, multi-staged, high capacity, sequential solids separation system designed to safeguard sucker rod pumps for when using **Extended Intake Tubing BHA** configurations. The **MudShark™** delivers the industry’s highest-performing downhole solution for mitigating risks from problematic produced solids, significantly extending pump run life—and it’s the only solids separation system compatible with **Extended Intake Tubing BHA’s**. They simply insert into standard tubing joints and hang off in the tubing coupling (using the API gap between tubing pins inside the tubing coupling).

This low risk system actively separates, isolates and traps solids that bypass downhole gas separators. Single-stage solids separators (e.g., desanders) frequently underperform in gassy, slugging flow regimes, especially with concentrated solids slugs or at deviated wellbore inclinations.

Fiber-reinforced thermoplastics enable cost-effective manufacturing and complete corrosion resistance. Their ultra-high strength supports greater separation surface area and increased downhole solids containment capacity.