



Artificial Lift Services

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# SandShark™ SR Pump Solids Fallback Protection

## USE IN WELLS TO:

- Maximize sucker rod pumping performance with solids laden produced fluids, especially in combination with **WhaleShark™** gas separator, **MudShark™** extended dip tube solids separator, **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
- See Southwest Petroleum Short Course paper (2025042) “Solids Fallback Protection Tool for Sucker Rod Pumping”
- Protects stuck sucker rod pumps from solids that would have normally accumulated in the tubing above the pump
- Designed and built around a standard 2-7/8” (73.0mm) EUE L-80 tubing joint, with unrestricting, 2.441” tubing drift internal diameter
- Innovative eccentric chamber is used to capture and retain solids “out of harm’s way” downhole while the pump is operating
- Does not restrict the annular flowby area
- A simple system solution that uses proven RFG Long-Guided Stabilizer Bars and RFG Box-Guides with long MP Polymer® rod guides to force fluid into the solids separation chamber during the pump’s down stroke
- Multiple **SandShark™** tools can be run in series to increase the solids containment capacity
- Fully serviceable / re-runnable



## SandShark™ Specifications

Series Model Name	55	70
For Casing Size, in [mm]	5.5 [139.7]	7.0 [177.8]
Outside Diameter, in [mm]	3.7 [93.2]	4.5 [114.3]
Length, feet [m]	31.6 [9.1]	31.6 [9.1]
Connections, in [mm]	2-7/8” [73.0] EUE	2-7/8” [73.0] EUE
Burst Rating, psi [MPa]	9,000 [62.1]	9,000 [62.1]
Solids Capacity, bbls [m³]	0.3 [0.05]	0.6 [0.1]
Internal Diameter, in [mm]	2.441 [62.0]	2.441 [62.0]
Material	L-80 body and mandrel, weir cups Nylon 66	
Surface Treatment	None (painted)	

### Tubing Retrievable Downhole Solids Containment



Multiple sequential solids separation weirs permanently contain separated solids downhole

### Continuously Separates Solids During Pumping



Uses RFG Long-Guided Stabilizer Bars for forcing fluid through the eccentric solids separation chamber during the sucker rod pump’s downstroke

A fully engineered solids fallback protection system solution for preventing “pump sticking” solids accumulation in the tubing string above a sucker rod pump. The **SandShark™** is a high-performance downhole solution for controlling the risk of troublesome solids settling on top of a pump after a shut down.

This innovative and unique system solution actively separates out solids that have made their way through a rod pump and into the tubing string above the rod pump. It separates and contains solids downhole while the pump is operating, which prevents solids from settling onto the pump after a shut down. It uses customized rod guides from RFG to force the fluid into the solids separation chamber during the each of the pump’s downstrokes.

See detail Southwest Petroleum Short Course paper “(2025042)