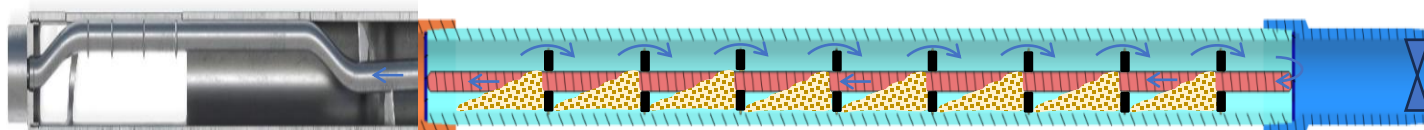




Artificial Lift Services

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# SharkGUT™ Horizontal Mud Joint Solids Separator



## USE IN WELLS WITH

- pump placements beyond 65° inclination with solids risks
- excessive solids related stuck pumps and failures at high inclinations
- plans for lowering pumps into the curve, seeking increased drawdowns
- sluggy flow conditions that bring concentrated masses of solids to the downhole separator

## VALUE FEATURES

- Patent pending technology adapted and engineered from proven industrial mining “gold sluicing” technology
- Compatible with the industry leading **WhaleShark™** gas separator and other legacy poor-boy packerless gas separators
- Cost effectively solves solids separation at high inclinations
- Designed to “bust up” concentrated solids slugs and prevent pump sticking events; makes it easier for solids to travel through a pump
- Inserts into standard EUE tubing mud joints
- Multiple inserts can be connected inside multiple mud joints to increase solids containment capacity
- Efficiently separates solids from produced fluids to protect pumps placed at inclinations beyond the solids settling angle of repose, from 65° to 90°
- Automatically self-orient inside the mud joints
- Stainless steel for corrosion risks

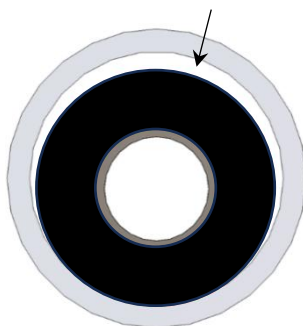
## Horizontal Mud Joint Solids Separator Insert Specifications

Series Model Name	20	25	30
Weir Outside Diameter, in [mm]	1.8 [45.7]	2.2 [57.2]	2.8 [71.1]
Tube Outside Diameter, in [mm]	1.0 [25.4]	1.25 [31.8]	1.25 [31.8]
Tube Inside Diameter, in [mm]	0.8 [20.3]	1.12 [28.4]	1.12 [28.4]
Length, feet [m]	20.0 [6.1]	20.0 [6.1]	20.0 [6.1]
Connections (box / pin)	1.0" NPT	1.25" NPT	1.25" NPT
Tensile Rating, klbs <sub>f</sub> [kdaN]	0.5 [0.2]	0.5 [0.2]	0.5 [0.2]
Burst/Collapse Pressure, psi [kPa]	250 [1,723]	250 [1,723]	250 [1,723]

Maximum Capacities			
liquid bbl/day [m <sup>3</sup> /day]	300 [48]	500 [80]	500 [80]
Insert Materials	304 stainless steel tube / end fittings Viton rubber weirs (400°F or 205°C rating)		

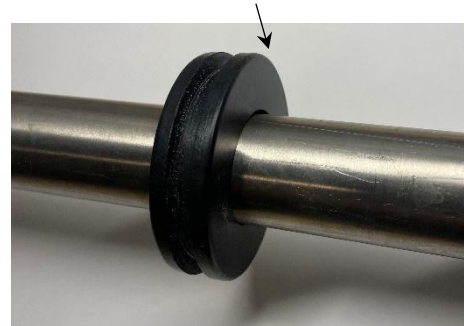
### Solids Separation Baffles

Solids separation weirs automatically orient eccentrically to the mud joint's low side, forming an engineered flow path overtop the weirs



### Elastomeric Low Side Sealing

Solids separation weirs have elastomeric grommets that use weight/gravity to seal the low side and contain the solids in multiple chambers



**SharkGUT™ Horizontal Solids Separator** – delivers efficient downhole concentrated solids slug dispersion (busts up solids slugs) and solids separation for high-inclination pumping applications. Designed for minimal operational risk, it easily installs into standard EUE tubing mud joints. The tool connects directly to the base of a gas separator's dip tube, extending it downward into the mud joints. At inclination, gravity and the tool's weight automatically self-orient it to the low side within the joints. Fluids pass over the upper edge of each weir, while gravity-separated solids are trapped on the low side between the weirs. Constructed from stainless steel and Viton, it offers excellent resistance to corrosion and H<sub>2</sub>S.

**Gold Sluicing Solids Separation Technology** – a engineered solution adapted from mining's proven gold sluicing multiple chamber technology. Each chamber formed between weirs efficiently separates and contains solids over a broad rate range. Multiple sequentially staged weir “busts up” concentrated solids masses or slugs of solids to effectively prevent pump sticking events.