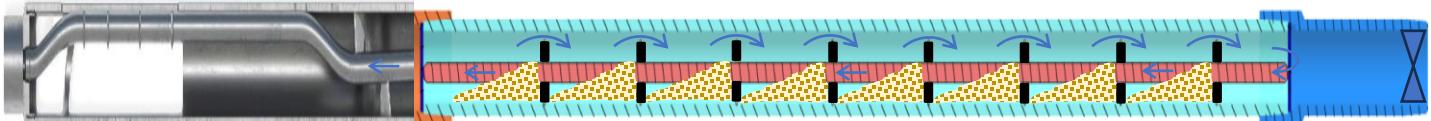




Artificial Lift Services

Disclaimer – technical information provided herein is intended solely as engineering recommendations Q2 ALS and Oilify and their employees or others acting on either or both of their behalf, make no warranties, express or implied or statutory, as to any matter whatsoever, with respect to its use. Q2 ALS and Oilify shall not be held liable for any use or misuse or for any damages related thereto.

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
- slurry 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-orientates 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, klbsf [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

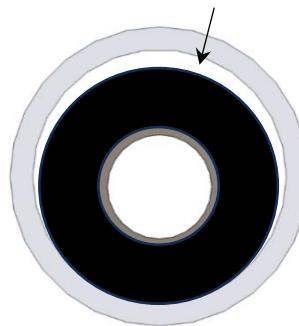
liquid bbl/day [m³/day]	300 [48]	500 [80]	500 [80]
-------------------------	----------	----------	----------

Insert Materials

304 stainless steel tube / end fittings
Viton rubber weirs (400°F or 205°C rating)

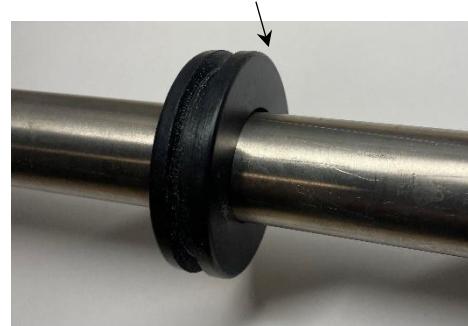
Solids Separation Baffles

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 H₂S.

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.