

# ROD LIFT SOLUTIONS GUARDIAN SAND & GAS SEPARATOR

PATENT PENDING

## Leading Edge Lift Technology for the Life of the Well

In today's multi-phase production flow regime, deploying leading-edge solutions for challenging wells is critical to enhancing the life of your artificial lift equipment and improving reservoir drawdown.

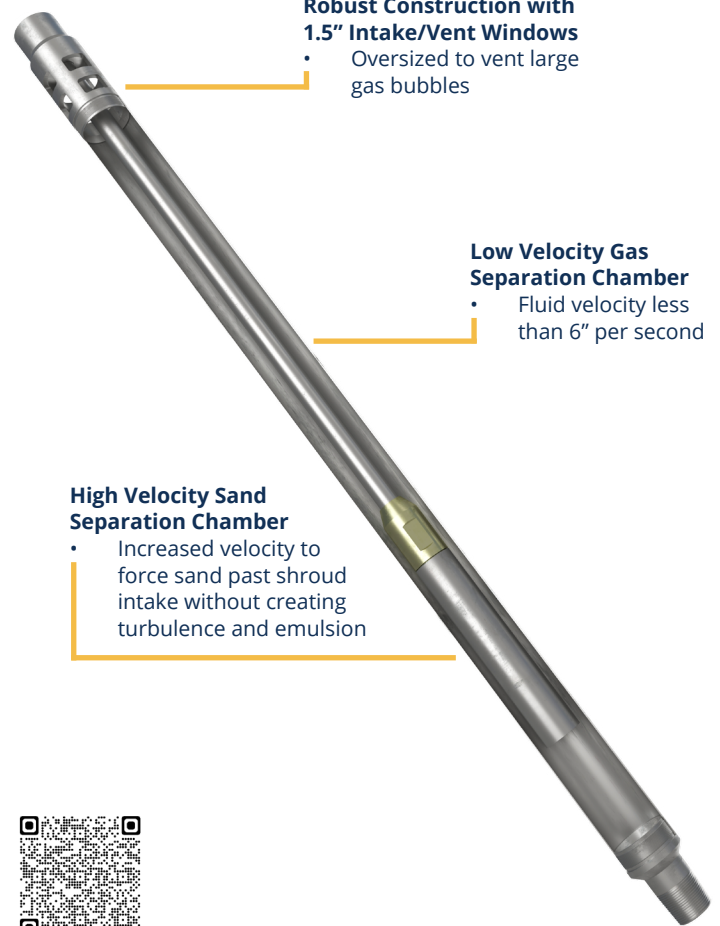
Producing dynamic wells in which both solids and gas pose challenges may demand more innovative solutions than standard BHA's can deliver. This has led to a market saturation of overpriced tools that transfer the failure mode with complicated components.

To address these obstacles, Endurance Lift Solutions developed the proprietary **Guardian Sand and Gas Separator** - the goal being to provide our partners with a simple solution, utilizing improved upon but proven techniques, to deliver gas free and sand free fluid into the pump, increasing system efficiency and run life.

### Advantages

- Largest possible area in the gas separation chamber to create low velocity for ideal separation
- Oversized 1.5" exhaust windows for fluid intake and gas bubble exit
- High velocity sand separation chamber to carry solids past the shroud area and into extension joints without creating turbulence and emulsion
- Internal separation chamber velocity conforms to the pump production, eliminating need to resize over time
- Simple, robust and open design for trouble-free installation, pulling and flush cleaning
- Very effective in the curve

POPULAR SIZE OPTIONS						
MAX BPD	CASING	THREADS	ID	OD	METALLURGY	
240 BPD	4.5"	2-3/8" 8RD F	2.625" X	2.875"	316L SS	
510 BPD	5.5"	2-7/8" 8RD F	3.75" X	4.00"	316L SS	
650 BPD	7.0"	2-7/8" 8RD F	4.25" X	4.50"	316L SS	



### Robust Construction with 1.5" Intake/Vent Windows

- Oversized to vent large gas bubbles

### Low Velocity Gas Separation Chamber

- Fluid velocity less than 6" per second

### High Velocity Sand Separation Chamber

- Increased velocity to force sand past shroud intake without creating turbulence and emulsion



Contact your local representative for additional information and a test drive.