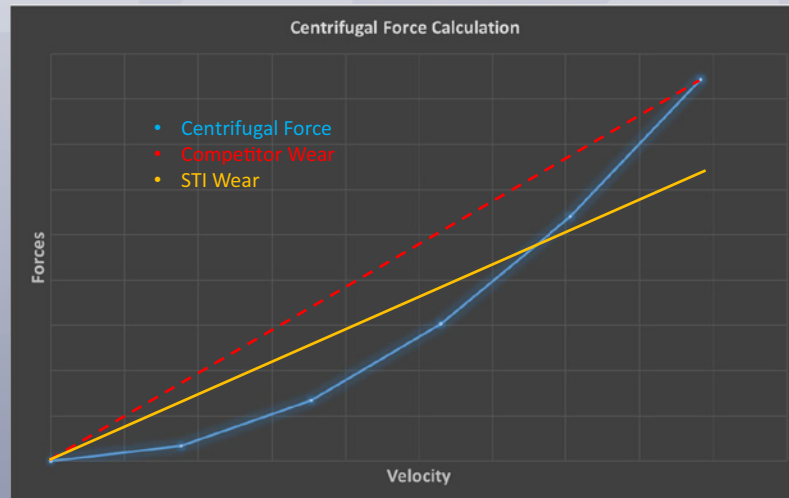


DOWNHOLE DESANDER

Downhole Sand and Gas Mitigation Tools



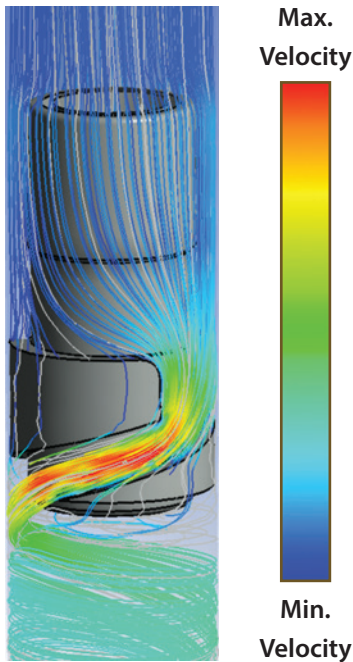
Premium offers a product line of multiphase desander equipment for downhole sand and gas mitigation for rod pump applications. Our multiphase separator is designed to meet the harsh conditions of the downhole environment. Incorporation of our desander will help to reduce sand content in the produced fluids before reaching the pump, resulting in extended pump life. The separation methods are field proven, and each system is designed to meet or exceed applicable standards.

Features

- Primary (Sand) spiral to separate sand and solids
- Secondary (Gas) spiral to assist in gas breakout and separation
- 30' diptube allows sufficient distance for gravity separation of free gas as fluid travels through the desander
- Stainless steel diptube offers high resistance to corrosion, ensuring long operational life of equipment
- Lower bottom sub is offered in two options:
 - Heavy wall is machined from 4140 steel with a 3/4" wall thickness for extended erosion life
 - Light wall is machined from 4140 steel with a 5/16" wall thickness
 - Both subs utilize a machine flat along their axis to ensure the mud anchor is not severed from the bottom of the desander due to erosion at the end of their useful life
- Screen wrapped slotted section is optional
 - Slotted section is typically screen wrapped to prevent large foreign material from entering desander and plugging pump

DOWNHOLE DESANDER

Velocity and Centrifugal acceleration profile

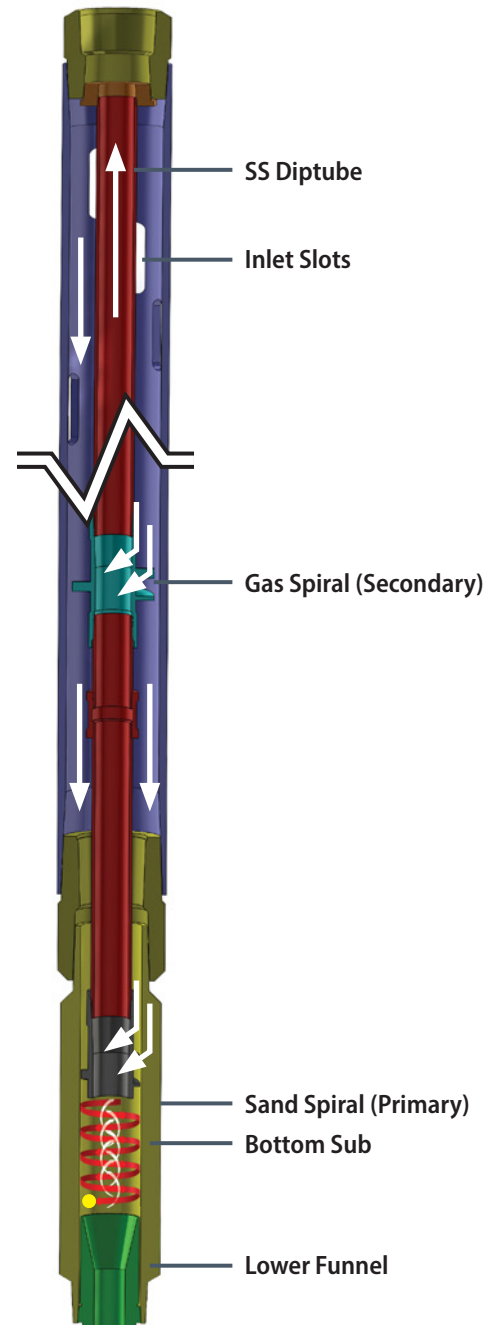


BENEFITS

- Standard API connections
- Centrifugal force acts on spiral for particle and gas separation
- Reduce chances of premature pump failure due to erosion/abrasion with 35% thicker wall
- All steel construction
- Suitable for any Bottom Hole Temperature/Pressure
- Multi configuration bottom sub application per user needs
- Efficient separation of free gas
- Production/Completion Engineering 24/7 Support

APPLICATIONS

- Downhole pumps (e.g., ESP, Traditional Sucker Rod)
- 15-370 bbl/day



Desander Flow Rate Selection Chart

Rod Pump Flow Rate bbl/day		Desander Part Number
Min	Max	Tubing Size: 2-7/8" EUE
15	50	DS-PS008
35	75	DS-PS010
55	110	DS-PS020
80	170	DS-PS030
120	250	DS-PS050
185	370	DS-PS070

Premium Tools is an operating division of Drilling Tools International. Premium offers Drill Pipe, Tubing, Workstrings, Pressure Control, and Specialty Products to the Drilling, Completion, and Production markets. The Production Group offers various products to producing oil and gas wells. See our website for more information. Guided by our company tenets of Strength, Innovation, and Performance, we consistently deliver best in class service and high quality products to meet the demands of worldwide customers for land and offshore operations.

Our Quality Management System is certified in compliance to ISO 9001, and API Spec Q1 and our manufacturing is licensed to API Spec 7-1. Our Quality Management System governs all of our processes from planning, to process control, to delivery. This ensures that we consistently manufacture products that not only meet API standards but also meet the ever-changing needs of our customers.

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