

Well Testing – Defender 5500



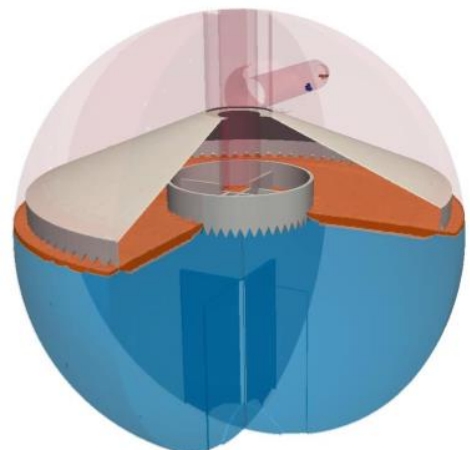
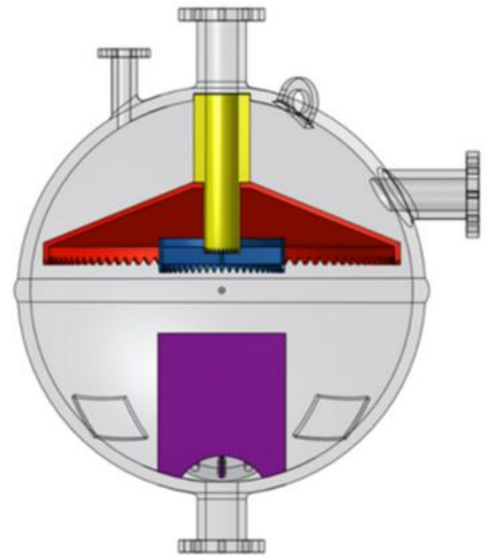
Defender 5500 Specifications:

- Internal Diameter 48"
- Thickness 4"
- Pressure Rating 5,500 psi
- Weight 13,400 lbs
- Sand Capacity Between Dumps 500 lbs
- Skid Dimensions (L-W-H) 7'-5.2'-7.8'
- Temp Range -40 to 212 (F)
- H2S / NACE Compliant
- 3" Down-comers Included
- 3" Adapters on all Connections
- ASME Sec VIII Div 1 Coded – Manufactured by Sandtinel
- Performance Range Mostly Depends on Water Cut, BFPD, Sand Particle Size and Gas Rate – Ask for a CFD Estimate
 - Up to 10,000 BFPD & 25 mmscfpd of Gas
 - Ask Your Rep for an Estimate of Performance
- Less maintenance and wear than competitor designs
- Less emissions with a better dumping efficiency than competitors, contributing to your ESG objectives



Defender 5500 Operating Features:

1. Saw-Tooth Dome – Patented Vapor Lock
 - Creates a phase separation of the gas from the liquids in the incoming mixture,
 - The saw-tooth edge cuts the surface tension at the gas interface allowing it to bleed off from the vapor locked region.
 - Removing the gas temporarily creates a vapor lock, slowing down the liquid and sand substantially, allowing for greater separation times which improves overall sand separation and provides for slug mitigation
2. Vortex Breaker – Sand Lock Patent Pending
 - A cross shaped baffle and sloped plate designed to break-up and block vertical re-circulation patterns in the center of the vessel & also promote horizontal circulation around the outside of the sphere
 - Forces sand to collect & drain at the bottom of the vessel
3. Inner Ring & Weir
 - The ring helps to manage the interface level of the liquid/gas by controlling how the condensate or oil needs to build up before it is able to leave the vessel
 - Inner weir has multiple orthogonal and directionally changing plates for a last line of defense against production of sand



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For more information, please contact:

CORPORATE HEADQUARTERS

825 Town & Country Way, Suite 1200
Houston, TX 77024
Phone: 281-598-6830
Fax: 281-598-6868

WELL TESTING & FLOWBACK

2211 Industrial Boulevard
Alice, TX
361-664-1515

129 Ranch Road 6096-B
Laredo, TX
956-753-6565

10806 West County Road 74
Midland, TX
432-563-3345

6703 FM 1784
Pleasanton, TX
830-569-1921