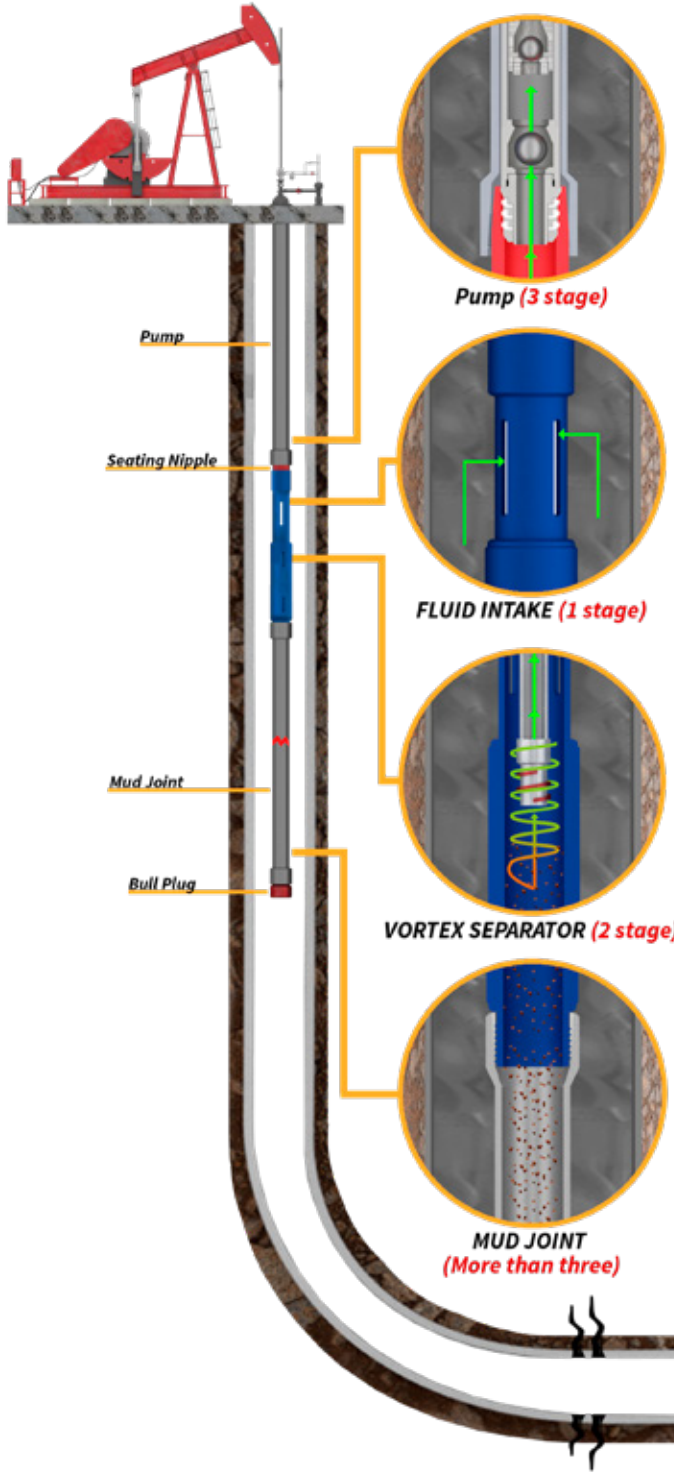
VORTEX DESANDER



The Vortex Desander is a high efficiency desander designed to separate sand particles prior to entering the pump.

The intake consists of a specifically engineered slotted design. These slots are cut using a plasma cutter which creates smoother cut surfaces than other cutting methods. Smooth surfaces are less likely to be affected by corrosion.

The helix creates the vortex effect using centrifugal force, which separates the smaller solids and deposits them into the tail pipe[s] (mud joint[s]). This improved version of the Vortex Sand Shield was designed to withstand the high speed of the sand in the tool and prevent the failure of the solids separation system.

BENEFITS

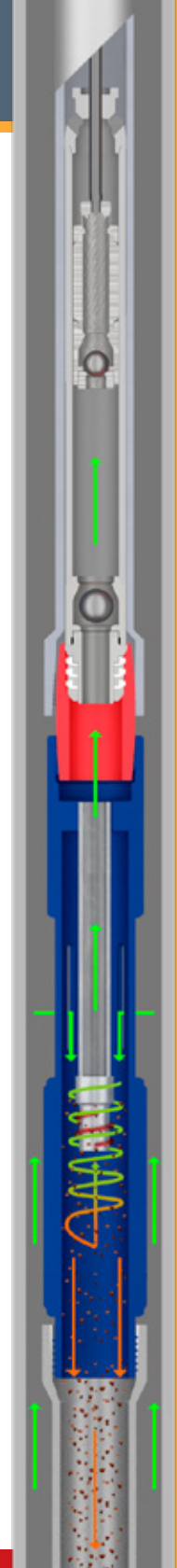
- *Reduces the downtime due to solids issues.*
- *Fewer interventions and less investment in CAPEX.*
- *Avoid the premature failures of the pump components caused by the solids.*
- *Avoid problems such as sand cutting.*

Use your device by scanning the QR code

VIDEO

AUGMENTED REALITY

HOW IT WORKS



FEATURES:

- Separate the solid particles before reaches the pump.
- New Vortex Separator design.
- Could be use either with slotted intake or screen intake.

Vortex Desander Size	Max. OD	Length
2-3/8"	3.125"	6'
2-7/8"	3.625"	6'
3-1/2"	4.25"	6'

PRINCIPLE OF OPERATION

The ESP Vortex Desander consists of an intake and an embodied helix (vortex creator).

***The intake** consist of a specifically engineered slotted design. These slots are cut using a plasma cutter which creates smoother cut surfaces than other cutting methods. Smooth surfaces are less likely to be affected by corrosion.*

***The helix** creates the vortex through the use of centrifugal force, which separates the smaller solids and deposits them into the tail pipe[s] (mud joint[s]) enclosed with a bull plug.*

VORTEX FLOW CHART

FLOW CHART (APPROX. US BFPD)		HELIX SIZES		
ROD PUMP		EUE TUBING SIZE		
MIN	MAX	2-3/8"	2-7/8"	3-1/2"
48	96	HE1.1	HE2.1	HE3.1
66	126	HE1.2	HE2.2	HE3.2
108	220	HE1.3	HE2.3	HE3.3
165	305	HE1.4	HE2.4	HE3.4
205	425	HE1.5	HE2.5	HE3.5
390	740	HE1.6	HE2.6	HE3.6
575	955	HE1.7	HE2.7	HE3.7
740	1400	HE1.8	HE2.8	HE3.8
1050	1950	HE1.9	HE2.9	HE3.9