

ELECTRIC SUBMERSIBLE PUMPS

GeoESP® Intake Solid Control Built for High-flow Pumps

For reliable solids protection and cost savings

FEATURES

- More stable inflow in gassy conditions
- Optimized cooling of the lower shaft bearing
- Handles up to 100k bfpd (185 l/s) inflow per section
- 5x increase in intake area over the standard

BENEFITS

- Modular design—like a pump part with flanged connections
- Maximal pump protection against solids and junk
- Minimal internal pressure drop to obtain power savings and minimize scale deposition
- Perforated modular housing(s) with customizable wire wrap screen
- DuraHard 3 slick, non-stick coating minimizes the formation of scale and pump plugging
- Sturdy, corrosion-resistant stainless steel housing
- Bolts in place of a standard intake

Overview

The GeoESP Intake is a new artificial lift intake designed explicitly for geothermal applications where solids and scales may be an issue. Our innovative, modular design seamlessly adapts to a diverse array of pumps and seals, delivering unparalleled solids protection you can rely on. The screened housings can be stacked and the wire wrap spacing can be adjusted to suit the needs of any well by keeping solids out and pressure drops to a minimum. DuraHard 3® chemical and heat-resistant non-stick coating helps prevent the buildup of scales, asphaltenes, and other substances when applied to the screened housings.

Optimizing well construction

This groundbreaking intake leverages Halliburton Completion Tools' sand screen technology for use with electric submersible pumps (ESPs). The GeoESP Intake's easy interchangeability is a significant innovation, allowing operators to make on-the-spot decisions at the well site. Whether to use a standard intake or the GeoESP Intake can now be determined based on real-time pull information, enhancing operational flexibility. In the rare event of debris or scales causing a blockage, the GeoESP Intake can be effortlessly flushed from above, through the riser, ensuring minimal downtime and maximum productivity.



Saving power costs

The GeoESP® Intake requires considerably less power to operate. Pressure drops across the inlet may be reduced by over 30% in high-flow geothermal applications (>50 K BPD - 92 L/s), translating to significant cost savings and a reduced carbon footprint.

Delivering flexibility

The versatile GeoESP Intake can be ordered to accommodate multiple equipment flanges, adapting a variety of pumps to seals for seamless integration, ensuring you have the flexibility to meet production challenges.



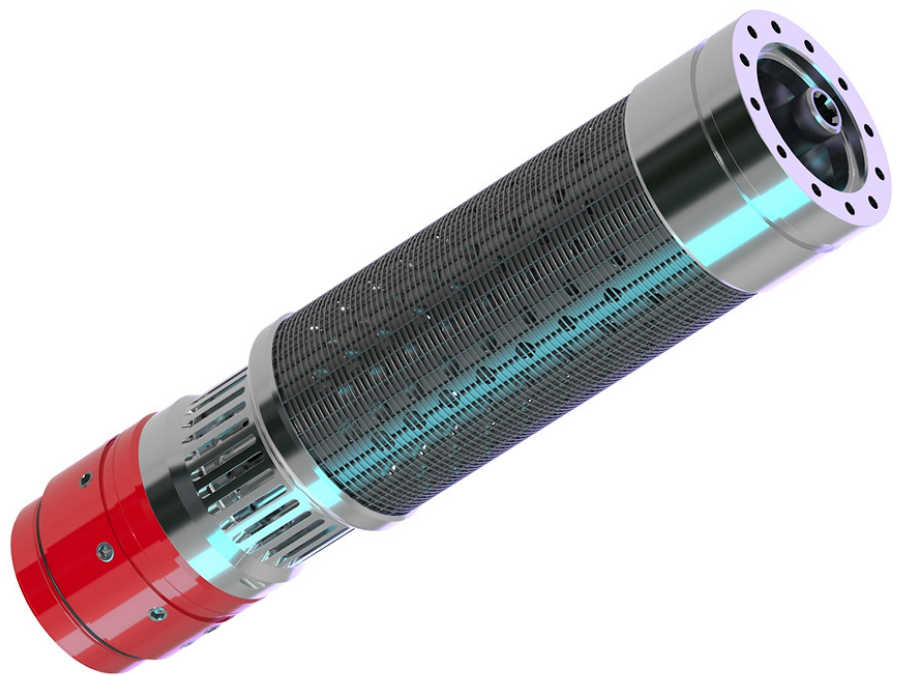
30%

Pressure drops across the inlet in some cases



5X

Larger inflow area



For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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