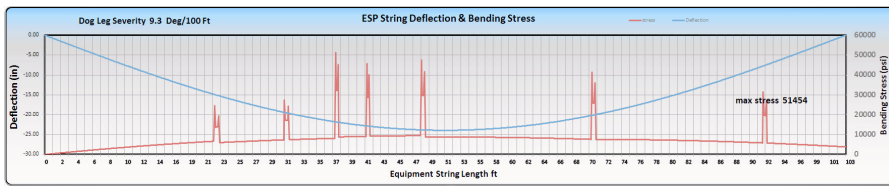


DEVIATOR™ Flange

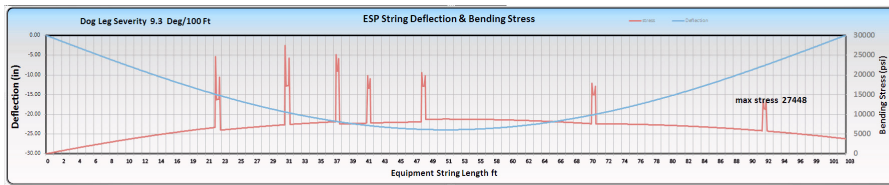
INCREASED FLANGE CONNECTION STRENGTH FOR CHALLENGING WELL APPLICATIONS

OVERVIEW

Summit ESP® – A Halliburton Service is committed to reliability, flawless execution at the wellhead, and the lowest total operating cost. With this in mind, we have developed an innovative, value-added connection component to our electrical submersible pump (ESP) system. This addition to the Halliburton product line is ideal for horizontal or deviated wells, and allows for installation into wells with significant doglegs. The DEVIATOR™ flange offers solutions for greater recovery of reserves by setting the ESP closer to the pay zone.

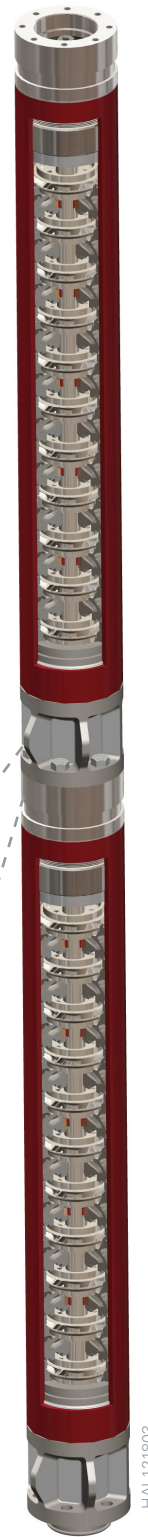
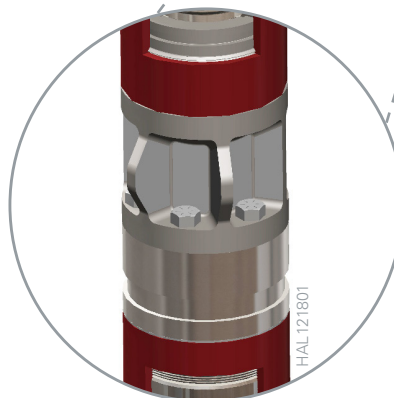


Flange stress shown above reflects a standard pump-to-pump connection method.



With the DEVIATOR™ flange connection, stress is reduced by approximately 47 percent.

The DEVIATOR™ flange design allows ESP systems to go deeper in the well and closer to the production zones, supporting stable well performance and lower operating cost. Utilizing high-strength materials enables installation into wells with dogleg severity (DLS) up to 18°/100 feet.



FEATURES

- » Larger stainless steel cross-sectional area
- » Armored cage-like configuration
- » Double O-ring connection

BENEFITS

- » Increased stiffness prevents permanent deformation
- » Extended bars protect the cable
- » Redundant sealing prevents leaking



Standard Materials

Component	Standard Materials
Head/Base	Stainless Steel
O-Rings	EPDM/Aflas®
Fasteners	MONEL® Alloy K-500 (UNS N05500)

SYSTEM BENEFITS

- » Improved durability in extreme operating environments
- » Enhanced design for challenging well environments
- » Strengthened ESP components for a more reliable, efficient, and durable production system

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

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