AVENGER POTHEAD
Motor Lead Extension
Avenger MLE PotHead

Summit’s Patent-Pending Avenger® MLE Outperforms in Corrosive High Temp Accelerated Life Tests Where Competitors’ MLEs Fail

A weak point in the ESP electrical system is the pothead electrical connection (also known as the Motor Lead Extension or MLE) because it is required to act as both an electrical connector and a seal to the motor. Additionally, high wellbore temperatures and the heat generated from the motor can lead to premature failure.

Summit engineers developed the Avenger MLE as a cost effective solution that is reliable in both high temperatures and gassy wells. To prove out the design and pin point any deficiencies, our engineers ran it through a number of Accelerated Life Test Protocols (ALTP), created in partnership with some of our customers and performed at our R&D facility. Using a pressure vessel with 4,000 psi of CO2 and Nitrogen, a mixture of water and diesel fuel to simulate well fluids, and with temperatures cycled up to 500°F for seven days, engineers tested both our legacy and Avenger designs, as well as two other competitor potheads.

When the testing was completed, two fatal flaws were noted on the competitors’ MLEs related to the internal rubber seal swelling because of thermal expansion and the impregnation of gasses. Both flaws resulted in an electrical failure of the competitors’ ESP where the Avenger was still functioning perfectly.

Avenger MLE Key Features:

- Sealed internally using an O-ring within the motor head to protect the seal
- Protection against corrosive gasses provided by a lead washer seated in a groove on the face of the pothead
- Rubber component in the seal reduced by 90% to mitigate swelling issues
- Surpasses the industry in thermal ratings up to 450° BHT
- 24hr availability of any length MLE due to rapid assembly, half that of the competition
- Historically proven tape-in connection creating a 260% longer arc path than typical of the industry
- Patent pending
- Made In the USA

For more information, contact your Summit ESP representative or visit our site www.summitesp.com

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