



The SWITCH® Power Transfer between ESPs

The SWITCH® is a world first in artificial lift innovation and is designed to allow the operation of two ESPs from a single power cable from surface, expanding the options for multiple ESP configuration. This patented product is fully qualified and delivers significant reductions in operating and capital costs, planning and lost production time. Avoid unexpected workovers when your pump fails - simply transfer the power to the secondary pump and production continues with minimum delay.

Operational Requirements

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|-----------------------------|--|
| Rated Pressure: | 5,000 psi |
| Working Temperature: | 0°C to 121°C (250°F) |
| Qualified Voltage (U): | 5kVAC |
| Qualified Current: | 160A |
| Design Life (below packer): | 10 years minimum |
| Production Tubing: | 4.5" maximum (secures to production tubing) |
| Running OD: | 8.25" (9-5/8" 53.5lb or larger) |

Key Performance Features

- Single ESP feed-through to surface
- Switch between two 3-phase ESP units
- Low Profile (suitable for an 8.25" drift diameter with a production tubing up to 4.5")
- Pressure Compensated for long term Seal Performance
- NACE and NORSOX Compliant Materials
- Suitable for use below ESP Packer
- Resistant to Gas Decompression
- Maintains Standard Packer, Clamps and Wellhead
- Up to 8" Adjustability on the MLE Terminations
- Cable Terminations based on field proven Penetrator Technology
- Factory Prepared Connectors (no field servicing during installation)

Product Applications

- Dual, Triple and Quad ESP Configurations
- Retrofit Single ESP Well to Dual ESP
- Dual ESP + Induction Heater
- Intelligent Well Completions (SmartWells)

Qualification Testing

- Hydrostatic Pressure Test and Temperature Cycling
- Gas Test and Rapid Gas Decompression Test
- Vibration and Shock Test
- High Current Temperature Rise
- Downhole Simulation
- Power Frequency

