Lower Connector
For the REDA Coil coiled-tubing-deployed ESP system

APPLICATIONS
- REDA Coil® coiled-tubing-deployed ESP system

BENEFITS
- Enables center tandem motor to be used in inverted ESP string by providing an electrical and mechanical connection between the ESP system and power cable
- Isolates the downhole electrical connection and ESP cable from well fluids, protecting components from mechanical damage

FEATURES
- Hydraulic shear release mechanism
- Shear rating of 3,000 or 5,000 psi [20,684 to 34,474 kPa]
- 5-kV feedthrough connector
- Integral coiled tubing slip-type connector
- Optional control line outlets
- Availability in a variety of materials and elastomers
- REDA Maximus® ESP system, 562 series configuration

The lower connector of the REDA Coil system provides the mechanical connection between the coiled tubing and the ESP string. It also provides the electrical connection between the ESP motor and the cable inside the coiled tubing.

A flanged connection at the base of the lower connector is made up to the motor or to a real-time downhole gauge at the top of the inverted ESP string. An internal field-attachable connector is made up to the ESP power cable in the coil. The coiled tubing is terminated at the top of the connector using an integral coiled tubing slip-type connector.

If required, additional control lines can be run in the coiled tubing alongside the ESP power cable. For well control, this configuration may include a chemical injection valve or a deepset safety valve in the tailpipe below the ESP.

The lower connector includes a hydraulic-release mechanism that can be used for troubleshooting when a completion is being retrieved. If hydraulic pressure is applied internally to the coiled tubing, the connector will separate, allowing the coiled tubing string to be retrieved. The ESP is then left in the well with a profile for fishing.