

LOC-TORUS II

Remote Frac Tree Connector

PATENTS PENDING

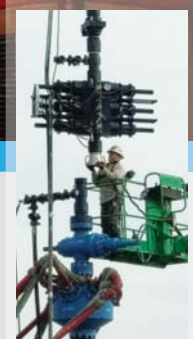


Meeting the high demands of hydraulic fracturing applications.

Unique Design:

The remote connection provides a sure connection between the wireline pressure control and the crown valve at top of the frac tree. The remote operation allows connecting/disconnecting the wireline pressure control apparatus and wellhead remotely without personnel entering the high pressure danger zone. This allows the pressure pumping to continue while the wireline gun string is removed and perforating guns are changed out on multi-well pads during zipper frac operations. The remote operation eliminates the need for a man to go up in a basket lift to disconnect and connect the pressure control connection. Visual indicators verifies when the system is locked/unlocked.

Less connectors are required on the site providing a less expensive and simpler operation. By continuing with the pressure pumping while changing perforating guns, the time savings is between 15-30 minutes per each stage, paying for itself in just one well.



MINIMIZE PERSONNEL IN MAN-LIFT

LOWER COMPLETION COSTS IMPROVE SAFETY

- » Keeps personnel out of high pressure zone
- » Minimizes personnel in man-lift
- » Change out wireline gun string while pumping
- » Saves 15-30 minutes per stage

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Control features include:

- » Interlocks to Prevent Unlatch with Bore Pressure
- » Lock/Unlock Indication with Beacon Lights
- » Well Bore Pressure Display
- » Data Logging with Live Communication to Factory
- » Predictive Maintenance Data

The Loc-Torus II Onsite Control System provides Safe, Simple & Reliable Controls

Operator control system specifically designed for **simplicity**, includes operator displays with keyed and interlocked switches which prevent inadvertent unlatching of the connector with positive bore pressure.

All control components are **redundant** throughout the system. Making it unlikely that an operator would ever be “down” due to controls.

Connector information can be accessed remotely and sent automatically via text and email making access to the factory faster than ever. Trend analysis for number of connections, pressure and time provide predictive failure analysis data and remote diagnostics.

The Loc-Torus II Connector provides Assured Locking to Wellhead

- » Failsafe, Spring Locking connectors will **stay locked** even without actuation pressure. Mechanical Lock Indicator are visible from ground, giving **double-assurance** you are locked.
- » Anchored, Plug & Play umbilical bundle assure they will stay in place when snagged and can be quickly changed out, if needed.
- » Available in 10k & 15k versions
- » Remote Night Cap & Ball Drop options available

The Loc-Torus II Remote Connector System is available for Rent with redress service and upgrades included or for Purchase.

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