



Completion Oil Tools

Thermal EXPANSION JOINT

www.completionoiltools.com

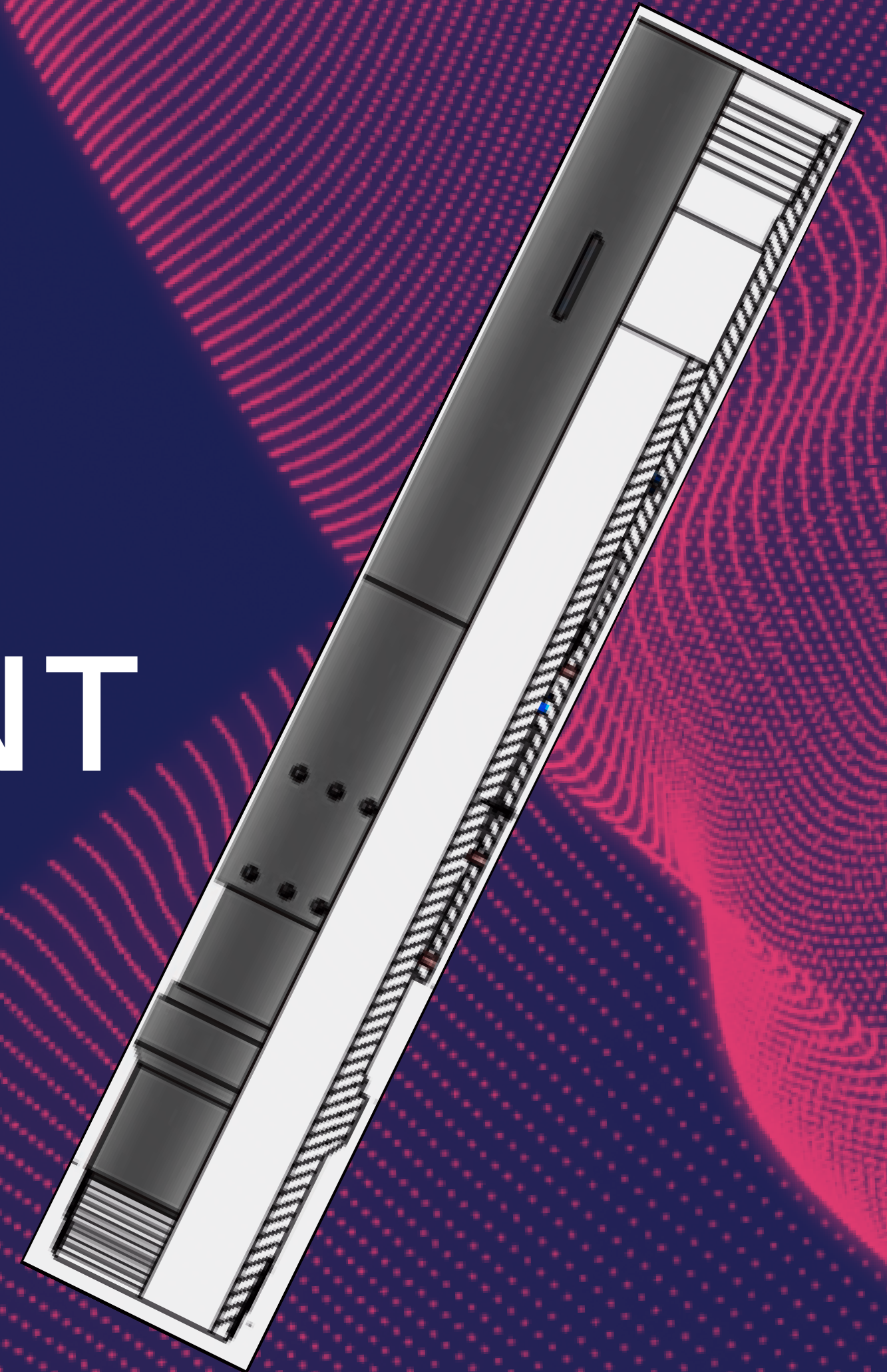


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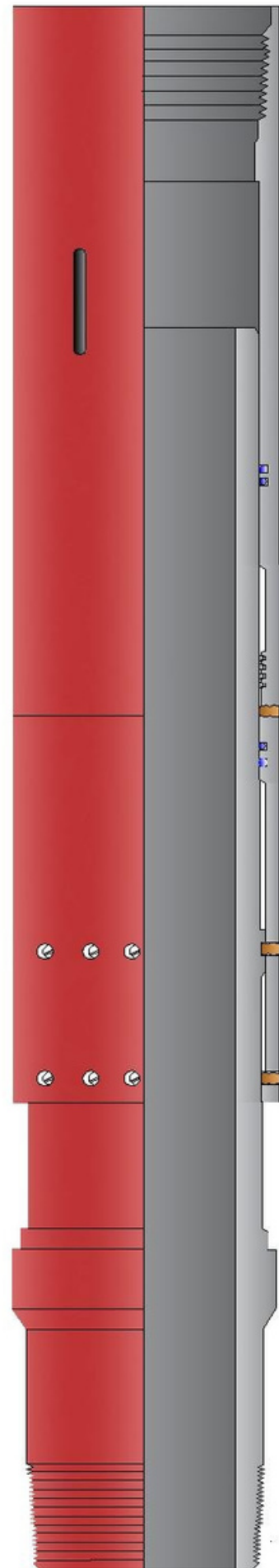
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INTRODUCTION

The Thermal Expansion Joint is a tubular device allowing thermal expansion to occur within the tubular string in high temperature or steam well environments.

It is run as a part of the tubular string and a number of Thermal expansion Joints can be assembled to allow for the necessary expansion. It has the same internal diameter as the casing and the same external diameter as the casing collar. It will retain its pressure integrity when stroked to the “compressed” position.

Description

The Thermal Expansion Joint will pick up any compression or axial buckling force created from heat expansion or from formation subsidence. Once this force overcomes the pre-pinned shear value of the Shear Screws, these will shear off and allow the expansion joint to pick up the movement created by the compression force.

Depending on the formation properties, it may be beneficial to install several joints in the same well.

FEATURES

METALLURGY

Manufactured with API metallurgy.

SUPPLIED SIZE

7 INCH & 9-5/8 INCH



HIGH TEMPERATURE

Validated & Supplied with 600°F temperature rating.



PRESSURE RATING

Available same as casing rating.

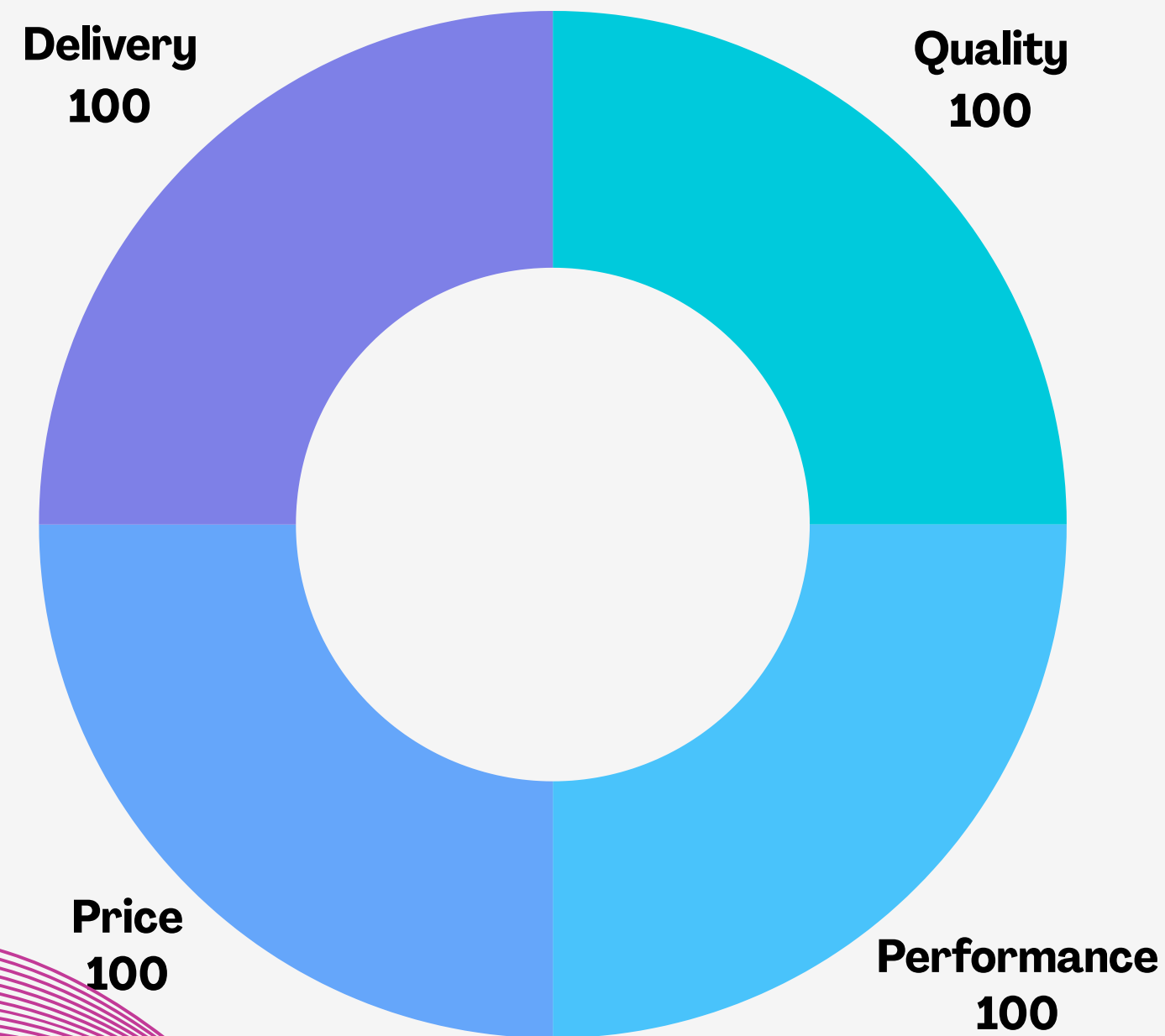


CONNECTION

Tested & Supplied with API & Premium connection.

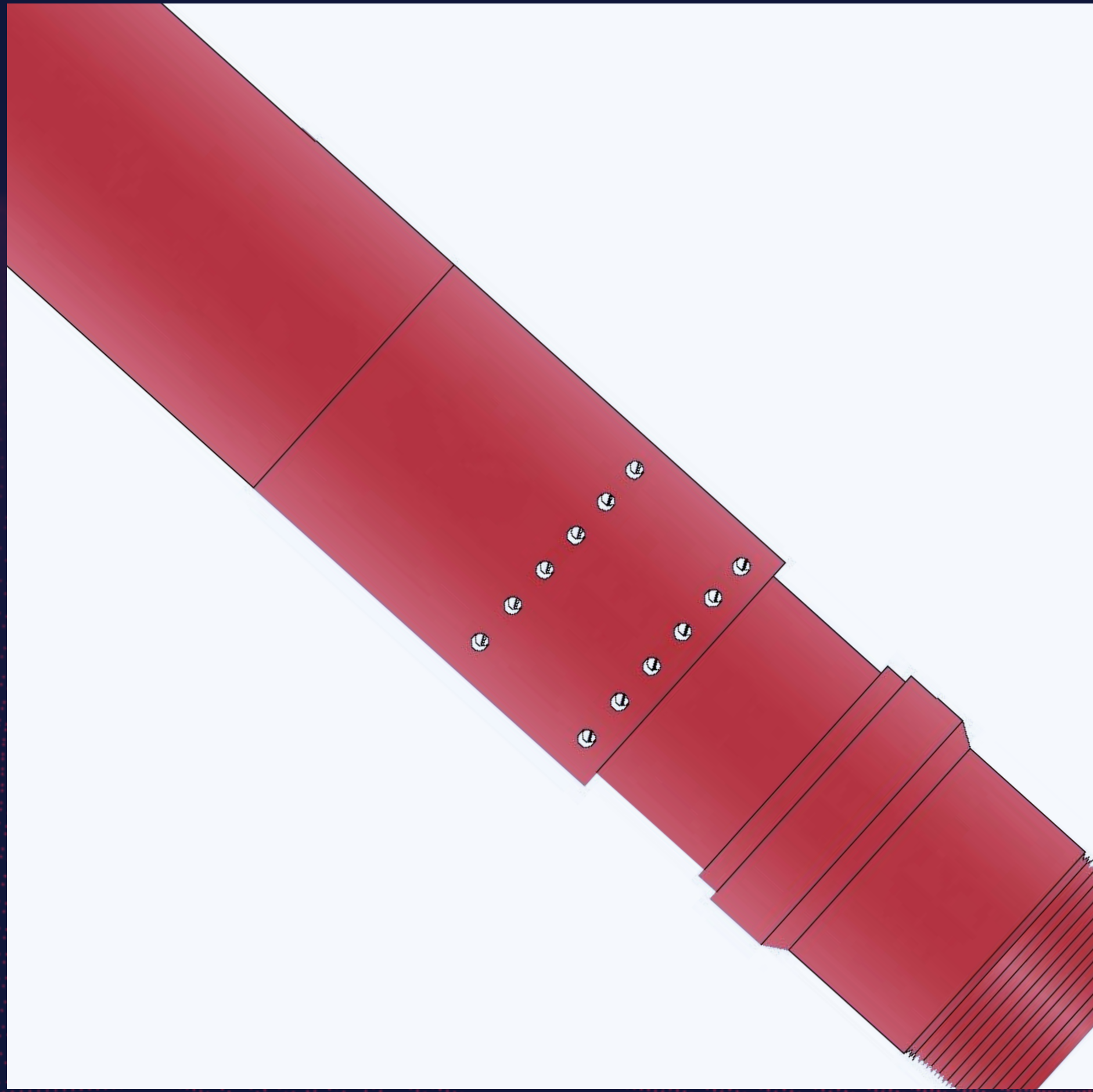


FIELD PROVEN TECHNOLOGY



Completion Oil Tools as an OEM has successfully manufactured & executed 90+ Thermal Expansion Joints for an E&P company .

- No requirement for lift subs or pup joints unless it requires specific space out across a particular zone.
- Ability to withstand the safe torque limit of most API connections once shear pinned.
- Ability to withstand a set down load higher than the casing string weight. Shear pin material can be revised to allow greater weights or torques as required.



APPLICATION

Typically used in Steam Injection wells where it can prevent Collapse-, Buckling- or Tension-failures to the casing caused by thermal forces.

Please share your requirement at
below contact:



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