

Advantages of TCPC Premium Connection

We provide a high-quality affordable patented premium connection that has been proven to excel in the most rigorous of applications. The connection has shown successful history with lateral runs and multi-stage fracture cycles. Higbee blunt start used to reduce thread damage and prevent cross threading.

*Available in sizes 2 7/8" to 9 5/8"
All grades*

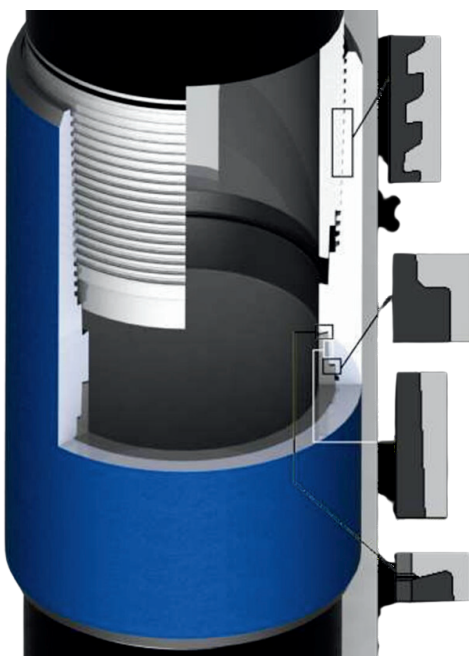
*API upset tubing 2 3/8", 2 7/8", 3 1/2"
API non-upset tubing 2 3/8", 2 7/8", 3 1/2"*

3 Seal Technology

- The primary radial seal is actuated when the 90° shoulder of the box abuts the complementary shoulder of the pin.
- A second gas-tight radial seal is activated when the negative pin-nose connects with the corresponding shoulder of the box.
- As the two components are made-up, the sealing surface of the box builds interference with the complementary sealing surface of the pin to form a pressure-assisted axial seal disposed between the two radial seals.
- Elastic deformation assists in the formation of a rigid axial seal and torque build-up prevents galling in threads or other portions of the connection.

Applications

- Horizontal & Extended Reach Wells
- Drilling with Casing
- Production & Tiebacks
- Intermediate Casing



- Negative load-flank angle for minimal chance of jump-out through tension & bending.
- Deeper threads & longer thread length offer better tension capacity & resilience in bend down hole.
- Free-running on makeup until last 2 threads.
- 90° torque shoulder minimizes stabbing load on threads
- Minimizes stress concentration at pin-nose interaction location
- 1st of 2 gas-tight radial seals
- Interference between pin & box creates a pressure assisted gas-tight axial seal
- Negative pin-nose angle to minimize connection disengagement during compression or bending
- 2nd of 2 gas-tight radial seals

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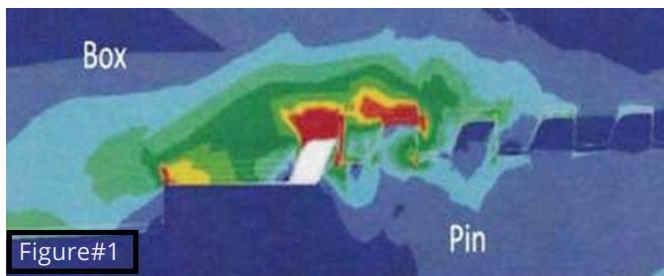
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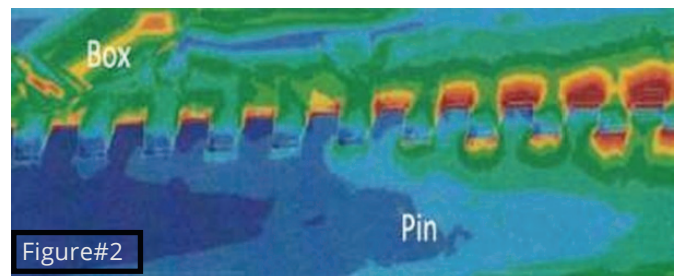
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HOUSTON INTERNATIONAL SPECIALTY, INC
PREMIUM CONNECTIONS

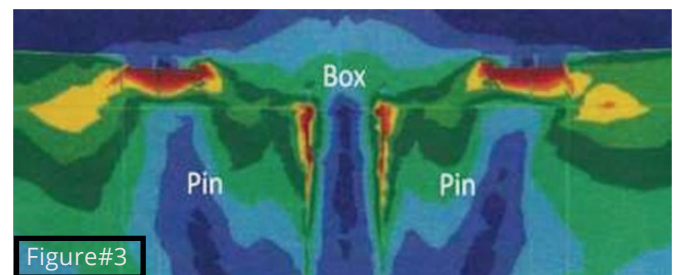
STRESS PROFILES



FIGURE#1: FEA of TCPC in Tension Only



FIGURE#2: FEA of TCPC at Make-Up Torque



FIGURE#3: FEA of Bending Forces Applied to TCPC