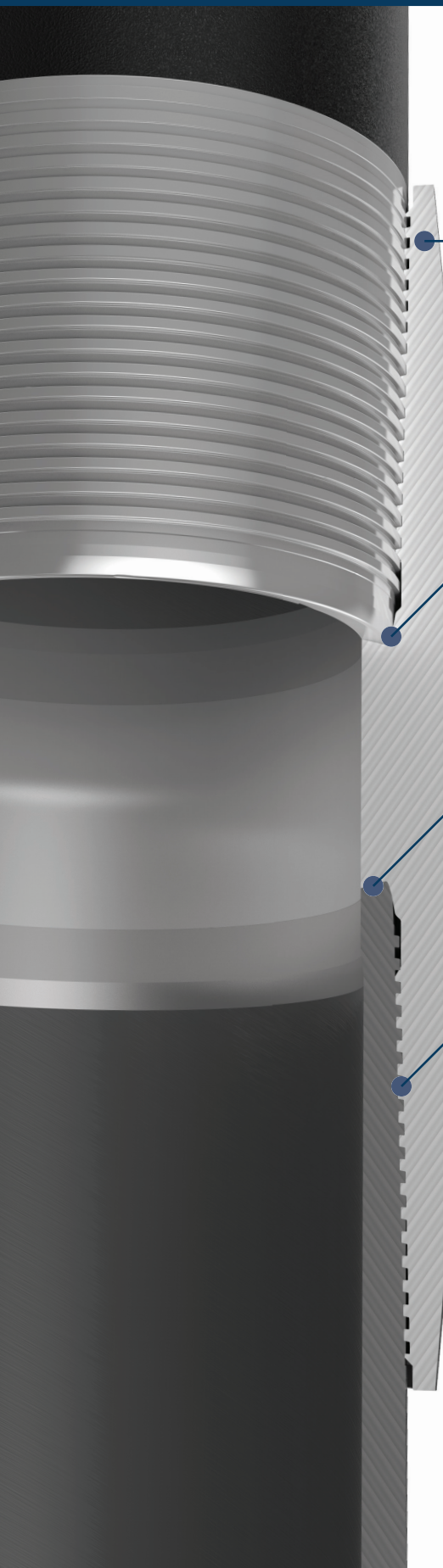




U. S. Steel Tubular Products

USS-LIBERTY TC[®]

New Generation Casing Connection



EXTENDED COUPLING BEVEL

UNIQUE METAL-TO-METAL SEAL

ROBUST INTERNAL SHOULDER

HOOKED TIGHTFIT[™] THREAD FORM

- Available in sizes **4-1/2" – 10-3/4"** outside diameter
- Tested to **API RP 5C5 CAL IV** – most comprehensive and rigorous testing standard in the industry
- Provides connection capacity **equivalent to the full pipe body envelope**
- **Applications:** Horizontal and extended reach wells, high-pressure hydraulic fracturing, sour service, and more

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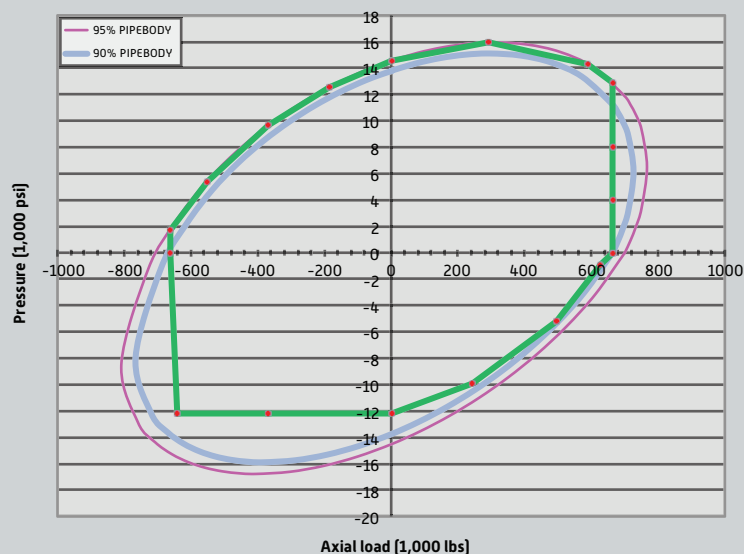
USS-LIBERTY TC[®]

New Generation Casing Connection

Designed, tested and manufactured in America, the USS-LIBERTY TC[®] premium casing connection delivers ultimate design flexibility. This rugged, new-generation connection provides increased efficiency, trouble-free operations and reduced costs across a wide range of challenging applications.

Tested to the most rigorous standards in the industry, this connection, with patent-pending features, is ideal for horizontal and extended reach wells, high-pressure hydraulic fracturing, sour service and more. The unique features of the USS-LIBERTY TC[®] connection offer freedom to choose in casing design by providing connection capacity equivalent to the full pipe body load envelope.

API RP 5C5 2014 CAL IV TEST LOAD ENVELOPE



FINITE ELEMENT ANALYSIS



CAPPED END FEA



MAKE-UP FEA

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