



U. S. Steel Tubular Products

# USS-TALON HTQ™ RD

Threaded and Coupled Semi-Premium Connection  
Reduced Diameter

## A high clearance, cost effective solution with exceptional torque capacity

### Runout thread to maximize efficiency

- Tension efficiencies of 100% are preserved in most outside diameter (OD) and wall thickness (WT) combinations, even with reduced diameter (RD) coupling OD's in line with typical semi-flush connections

### Patented wedge thread form

- Robust thread form derived from the USS-EAGLE connection family with over 10 million ft of proven field performance
- Reliable and quick make-up that retains the preload torque
- Proven sealability without special thread compounds
- Pin and coupling thread interface optimized for fatigue performance
- Exceptional operational torque capacity available with operating loads needed for challenging wellbores

### Reduced hoop stress couplings

- Alleviates the potential of sulfide stress cracking and improves product performance in sour service environments
- USS-Talon HTQ™ RD is designed to compete in clearance critical applications that typically require the use of semi-flush connections
- Where required, meets New Mexico BLM connection clearance requirement
- Interchangeable within a given pipe OD

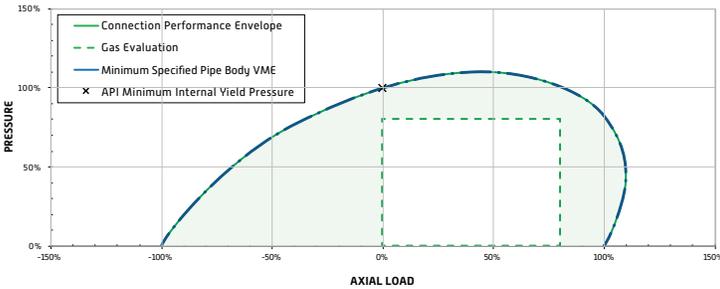
- Available in casing sizes from 4 1/2" to 8 5/8" with alternate drift where required
- Full scale testing program validated fatigue life, FRAC cycling performance and operational torque capabilities typical for production casing applications in horizontal shale wells with extended laterals, including casing rotation during installation and while cementing
- Qualified to a modified API-5C5 CAL I with liquid to 100% of pipe body ratings, with additional gas evaluation successful up to 80% of pipe body ratings
- Analyzed and optimized using 2D axisymmetric and 3D Finite Element Analysis (FEA)

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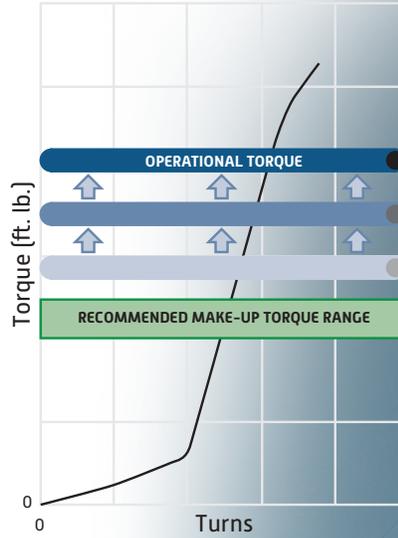
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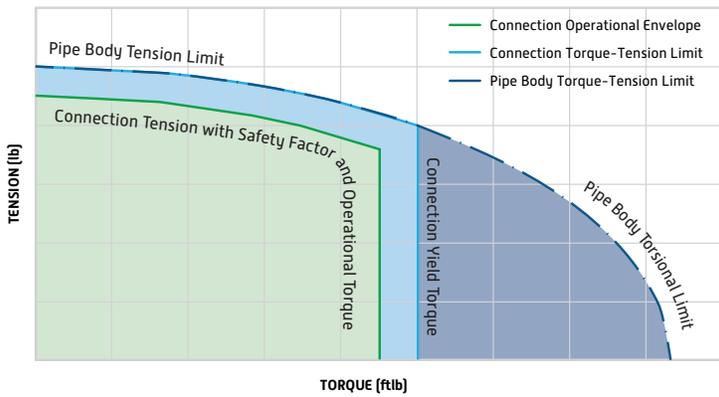
### USS-TALON HTQ™ RD Connection Performance Envelope



### Torque vs Turn Graph



### USS-TALON HTQ™ RD Operational Torque-Tension Envelope



## Finite Element Analysis



### Stresses at Recommended Make-up Torque



### Stresses Under Capped-End Internal Pressure

