

GB WSE and HBE - “Drilling with Casing” Connection (WSE – Wear Sleeve Enhanced; HBE – Hardbanded Enhanced)

Applications

- **Running** Standard Downhole Casing Applications.
- **Rotating** To Aid String Advancement.
- **Drilling** with Casing/**Drilling** with Liners.
- **Driving**

For use in abrasive environments.

Description

Specialty semi-premium connection machined from heavy-wall coupling stock and forged blanks. Like the **GB CDE** Connection, both the **GB WSE** and **GB HBE** Connections exceed pipe body performance properties under all load combinations and are gas tight. Connections are designed with refined API BTC Threads and will make up with off-the-shelf API BTC threaded accessories. Innovative, triple taper thread design (box only) reduces localized bearing stresses in critical areas for improved fatigue resistance. Pin noses engage shoulders in the coupling center for positive indication of proper field makeup. Pin noses, designed for **maximum bearing face area**, provide high torque resistance.

GB WSE has an integral, wear sleeve to protect the leading edge and critical areas of the connection that commonly wear during drilling operations. For the most abrasive environments the wear sleeve can be furnished with hard-facing (**GB HBE**).

Features

- Uses API BTC Pin threads (Slightly Modified).
- Tighter diametric tolerances for enhanced performance.
- Meets API Coupling OD and Drift Diameter Specifications.
- Inter-changeable with all API BTC accessories.
- Field proven in a variety of static and dynamic applications.
- Enhanced fatigue life.
- Excellent make/break repeatability under field conditions.
- Full Scale laboratory cyclic tests demonstrate enhanced fatigue life.
- Can be inspected with standard API Thread Gauges by any properly trained/experienced Third Party.
- Positive makeup indication with pin nose/shoulder engagement in center of connection. Also, has API Triangle Stamp on Pin for secondary makeup verification.
- Innovative Triple Taper Design reduces localized bearing stresses for enhanced fatigue resistance and reduced galling potential.
- Heavy cross-section at center of coupling provides hoop stability for enhanced leak resistance and reduced jump-out potential.
- High torque resistance.
- Drive-able.

Hard-Banding Options

- Tesco Fusion-clad

Available

- Casing sizes 4 ½” OD to 20” OD.
- All carbon and alloy grades up to Q-125.



GB WSE
GB HBE

US Patent 7,347,459