



## 4.5 in. 13.5 lb/ft HC-P110 with 5.25 in. Coupling OD

### Pipe Body

|                             |         |                     |
|-----------------------------|---------|---------------------|
| Nominal OD                  | 4.500   | inches              |
| Nominal Weight              | 13.50   | lb/ft               |
| Wall Thickness              | 0.29    | inches              |
| Plain End Weight            | 13.04   | lb/ft               |
| Drift                       | 3.795   | inches              |
| Nominal ID                  | 3.920   | inches              |
| Grade                       | HC-P110 |                     |
| Min Yield                   | 110,000 | lbf/in <sup>2</sup> |
| Min Tensile                 | 125,000 | lbf/in <sup>2</sup> |
| Critical Section Area       | 3.836   | in <sup>2</sup>     |
| Pipe Body Yield Strength    | 422     | kips                |
| Min Internal Yield Pressure | 12,410  | psi                 |
| Collapse Pressure           | 11,810  | psi                 |

### Connection

|                          |        |                 |
|--------------------------|--------|-----------------|
| Coupling OD              | 5.250  | inches          |
| Coupling Length          | 10.339 | inches          |
| Make Up Loss             | 4.857  | inches          |
| Critical Section Area    | 3.836  | in <sup>2</sup> |
| Internal Pressure Rating | 100%   |                 |
| External Pressure Rating | 100%   |                 |
| Tension Efficiency       | 100%   |                 |
| Connection Strength      | 422    | kips            |
| Compression Efficiency   | 100%   |                 |
| Uniaxial Bend Rating     | 96.1   | ° / 100 ft      |
| Min Make Up Torque       | 3,900  | ft-lbs          |
| Yield Torque             | 15,000 | ft-lbs          |





## Torque Data Sheet - HOSS

### 4.5 in. 13.5 lb/ft HC-P110 with 5.25 in. Coupling OD

|                    |        |        |                      |        |        |
|--------------------|--------|--------|----------------------|--------|--------|
| Min Make Up Torque | 3,900  | ft-lbs | Max Operating Torque | 12,750 | ft-lbs |
| Max Make Up Torque | 11,250 | ft-lbs | Yield Torque         | 15,000 | ft-lbs |
| Optimum Torque     | 5,400  | ft-lbs |                      |        |        |

Representative Torque Turn Graph

