



## 4.5 in. 15.1 lb/ft P-110 with 5.25 in. Coupling OD

### Pipe Body

|                             |         |                     |
|-----------------------------|---------|---------------------|
| Nominal OD                  | 4.500   | inches              |
| Nominal Weight              | 15.10   | lb/ft               |
| Wall Thickness              | 0.337   | inches              |
| Plain End Weight            | 15.00   | lb/ft               |
| Drift                       | 3.701   | inches              |
| Nominal ID                  | 3.826   | inches              |
| Grade                       | P-110   |                     |
| Min Yield                   | 110,000 | lbf/in <sup>2</sup> |
| Min Tensile                 | 125,000 | lbf/in <sup>2</sup> |
| Critical Section Area       | 4.407   | in <sup>2</sup>     |
| Pipe Body Yield Strength    | 485     | kips                |
| Min Internal Yield Pressure | 14,420  | psi                 |
| Collapse Pressure           | 14,340  | psi                 |

### Connection

|                          |        |                 |
|--------------------------|--------|-----------------|
| Coupling OD              | 5.250  | inches          |
| Coupling Length          | 10.339 | inches          |
| Make Up Loss             | 4.857  | inches          |
| Critical Section Area    | 4.407  | in <sup>2</sup> |
| Internal Pressure Rating | 100%   |                 |
| External Pressure Rating | 100%   |                 |
| Tension Efficiency       | 100%   |                 |
| Connection Strength      | 485    | kips            |
| Compression Efficiency   | 100%   |                 |
| Uniaxial Bend Rating     | 96.1   | ° / 100 ft      |
| Min Make Up Torque       | 4,050  | ft-lbs          |
| Yield Torque             | 15,550 | ft-lbs          |



## Torque Data Sheet - HOSS

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|                    |        |        |                      |        |        |
|--------------------|--------|--------|----------------------|--------|--------|
| Min Make Up Torque | 4,050  | ft-lbs | Max Operating Torque | 13,200 | ft-lbs |
| Max Make Up Torque | 11,650 | ft-lbs | Yield Torque         | 15,550 | ft-lbs |
| Optimum Torque     | 5,600  | ft-lbs |                      |        |        |

Representative Torque Turn Graph

