



## InterLock Coupled 4.500 in. 11.60 lb/ft P110 HC

### Pipe Body

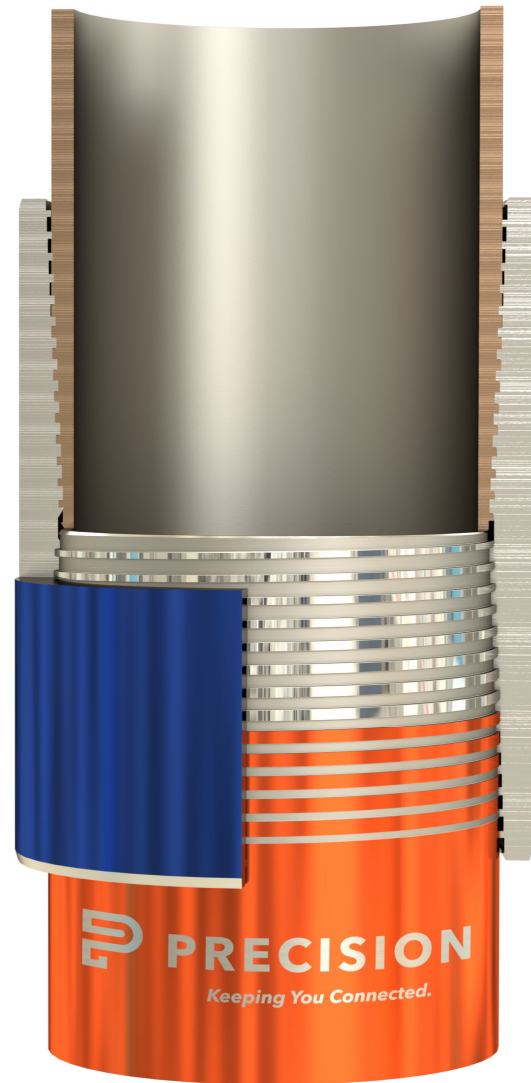
|                             |         |                    |
|-----------------------------|---------|--------------------|
| Nominal OD                  | 4.500   | inches             |
| Nominal Weight              | 11.60   | lb/ft              |
| Wall Thickness              | 0.250   | inches             |
| Plain End Weight            | 11.35   | lb/ft              |
| Drift                       | 3.875   | inches             |
| Nominal ID                  | 4.000   | inches             |
| Grade                       | P110 HC |                    |
| Min Yield                   | 110,000 | lb/in <sup>2</sup> |
| Min Tensile                 | 125,000 | lb/in <sup>2</sup> |
| Critical Section Area       | 3.338   | in <sup>2</sup>    |
| Pipe Body Yield Strength    | 367     | kips               |
| Min Internal Yield Pressure | 10,690  | psi                |
| Collapse Pressure           | 8,830   | psi                |

### Connection

|                          |       |                 |
|--------------------------|-------|-----------------|
| Coupling OD              | 5.250 | inches          |
| Connection ID            | 4.000 | inches          |
| Coupling Length          | 7.591 | inches          |
| Make Up Loss             | 3.314 | inches          |
| Coupling CSA             | 6.630 | in <sup>2</sup> |
| Pin CSA                  | 3.338 | in <sup>2</sup> |
| Internal Pressure Rating | 100%  |                 |
| External Pressure Rating | 100%  |                 |
| Tension Efficiency       | 100%  |                 |
| Connection Strength      | 367   | kips            |
| Compression Efficiency   | 100%  |                 |
| Uniaxial Bend Rating     | 96.1  | ° / 100 ft      |

### Make-up Values

|                  |        |        |
|------------------|--------|--------|
| Minimum Torque   | 10,000 | ft-lbs |
| Optimum Torque   | 12,000 | ft-lbs |
| Maximum Torque   | 14,000 | ft-lbs |
| Operating Torque | 17,600 | ft-lbs |
| Yield Torque     | 22,000 | ft-lbs |



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