



## InterLock SPSF 4.500 in. 13.50 lb/ft P110 HC

### 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                       | P110 HC |                    |
| Min Yield                   | 110,000 | lb/in <sup>2</sup> |
| Min Tensile                 | 125,000 | lb/in <sup>2</sup> |
| Critical Section Area       | 3.836   | in <sup>2</sup>    |
| Pipe Body Yield Strength    | 422     | kips               |
| Min Internal Yield Pressure | 12,400  | psi                |
| Collapse Pressure           | 11,810  | psi                |

### Connection

|                          |       |                 |
|--------------------------|-------|-----------------|
| Connection OD            | 4.785 | inches          |
| Connection ID            | 3.864 | inches          |
| Make Up Loss             | 4.056 | inches          |
| Critical Section Area    | 3.483 | in <sup>2</sup> |
| Internal Pressure Rating | 100%  |                 |
| External Pressure Rating | 100%  |                 |
| Tension Efficiency       | 90%   |                 |
| Compression Efficiency   | 90%   |                 |
| Connection Strength      | 380   | kips            |
| Uniaxial Bend Rating     | 105.4 | ° / 100 ft      |

### Make-up Values

|                  |        |        |
|------------------|--------|--------|
| Minimum Torque   | 10,000 | ft-lbs |
| Optimum Torque   | 11,000 | ft-lbs |
| Maximum Torque   | 12,000 | ft-lbs |
| Operating Torque | 17,600 | ft-lbs |
| Yield Torque     | 22,000 | ft-lbs |



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