



## 4.5 in. 13.5 lb/ft P-110 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	13.05	lb/ft
Drift	3.795	inches
Nominal ID	3.920	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	3.836	in <sup>2</sup>
Pipe Body Yield Strength	422	kips
Min Internal Yield Pressure	12,410	psi
Collapse Pressure	10,690	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 P-110 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

