

## HYDRA 4in. x 11.6 lb/ft L-80 Flush Joint



### Pipe Body

Nominal OD	4.000	inches
Nominal Weight	11.60	lb/ft
Wall Thickness	0.286	inches
Plain End Weight	11.36	lb/ft
Standard Drift	3.303	inches
Nominal ID	3.428	inches
Grade	L-80	
Min Yield	80,000	lb/in <sup>2</sup>
Min Tensile	95,000	lb/in <sup>2</sup>
Critical Section Area	3.337	in <sup>2</sup>
Pipe Body Yield Strength	267	kips
Min Internal Yield Pressure	10,010	psi
Collapse Pressure	10,270	psi

### Connection

Connection OD	4.000	inches
Make Up Loss	4.088	inches
Critical Section Area	2.002	in <sup>2</sup>
Internal Pressure Rating	8,010	psi
External Pressure Rating	10,270	psi
Tension Efficiency	60%	
Connection Strength	160	kips
Compression Efficiency	160	kips
Uniaxial Bend Rating	58	° / 100 ft
Reference Depth	9,401	Ft.
Optimal Make Up Torque	2,673	ft-lbs
Min	2,218	ft-lbs
Max	3,109	ft-lbs

v1.0

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The performance properties in these data tables are calculated per API 5C3. Calculations are based on nominal wall thickness. Loads do not reflect a design safety factor for walls thinner than nominal or other defects. Reference Depth = Connection Strength/ (PE Wt./Ft)\*(1.5). Reference Depth includes a 1.5 design factor. However, it does not consider bending, temperature, buoyancy or other load considerations.

## Torque Data Sheet - HYDRA

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Min Make Up Torque	2,218	ft-lbs
Max Make Up Torque	3,109	ft-lbs
Optimum Torque	2,673	ft-lbs

Nom Shoulder Torque	300	ft-lbs
Max Operating	3,818	ft-lbs
Yield	5,382	ft-lbs

