



## HYDRA 7in. x 29 lb/ft L-80 Flush Joint



### Pipe Body

Nominal OD	7.000	inches
Nominal Weight	29.00	lb/ft
Wall Thickness	0.408	inches
Plain End Weight	28.75	lb/ft
Standard Drift	6.125	inches
Nominal ID	6.184	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	8.449	in <sup>2</sup>
Pipe Body Yield Strength	676	kips
Min Internal Yield Pressure	8,160	psi
Collapse Pressure	7,030	psi

### Connection

Connection OD	7.000	inches
Make Up Loss	4.140	inches
Critical Section Area	5.070	in <sup>2</sup>
Internal Pressure Rating	6,530	psi
External Pressure Rating	7,030	psi
Tension Efficiency	60%	
Connection Strength	406	kips
Compression Efficiency	406	kips
Uniaxial Bend Rating	33	° / 100 ft
Reference Depth	9,405	Ft.
Optimal Make Up Torque	10,618	ft-lbs 
Min	8,418	ft-lbs 
Max	12,836	ft-lbs

v1.0

12/12/2019

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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	8,418	ft-lbs
Max Make Up Torque	12,836	ft-lbs
Optimum Torque	10,618	ft-lbs

Nom Shoulder Torque	990	ft-lbs
Max Operating	20,145	ft-lbs
Yield	25,236	ft-lbs

