### PRECISION

### 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	lbf/in²
Min Tensile	95,000	lbf/in²
Critical Section Area	3.337	in²
Pipe Body Yield Strength	267	kips
Min Internal Yield Pressure	10,010	psi
Collapse Pressure	10,270	psi

#### Connection

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Connection OD	4.000	inches
Make Up Loss	4.088	inches
Critical Section Area	2.002	in²
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	12/12/2019

HYDRA

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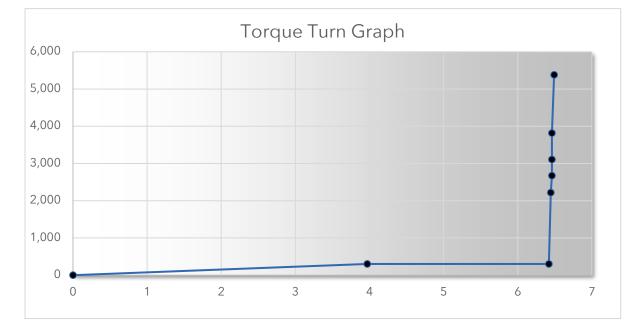
The performance properties in these data tables are calculated per API 5C3. Calculations are based on nominal wall thickness. Loads do not reflect a design safety factor for walls thinner than nominal or other defects. Reference Depth = Connection Strength/ (PE Wt./Ft)\*(1.5). Reference Depth includes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

# **PRECISION**

#### Torque Data Sheet - HYDRA

HYDRA 4in. x	11.6 lb/ft	L-80 Flush Joint
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Min Make Up Torque	2,218	ft-lbs	Nom Shoulder Torque	300	ft-lbs
Max Make Up Torque	3,109	ft-lbs	Max Operating	3,818	ft-lbs
Optimum Torque	2,673	ft-lbs	Yield	5,382	ft-lbs



# L) HYDRA

12/12/2019

v1.1