## **PRECISION**

### HYDRA 4.5in. x 15.1 lb/ft L-80 Flush Joint

#### Pipe Body

Nominal OD	4.500	inches
Nominal Weight	15.10	lb/ft
Wall Thickness	0.337	inches
Plain End Weight	15.00	lb/ft
Standard Drift	3.701	inches
Nominal ID	3.826	inches
Grade	L-80	
Min Yield	80,000	lbf/in²
Min Tensile	95,000	lbf/in²
Critical Section Area	4.407	in²
Pipe Body Yield Strength	353	kips
Min Internal Yield Pressure	10,480	psi
Collapse Pressure	11,080	psi

#### Connection

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Connection OD	4.500	inches
Make Up Loss	4.488	inches
Critical Section Area	2.644	in²
Internal Pressure Rating	8,390	psi
External Pressure Rating	11,080	psi
Tension Efficiency	60%	
Connection Strength	212	kips
Compression Efficiency	212	kips
Uniaxial Bend Rating	52	° / 100 ft
Reference Depth	9,413	Ft.
Optimal Make Up Torque	4,127	ft-lbs
Min	3,436	ft-lbs 👔
Max	4,800	ft-lbs
	v1.0	12/12/2019

HYDRA

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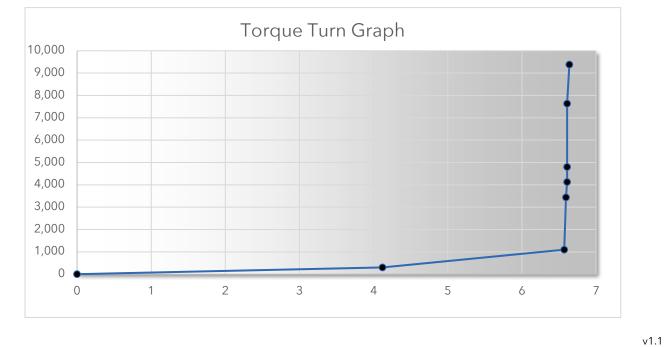
The performance properties in these data tables are calculated per API 5C3. Calculations are based on nominal wall thickness. Loads do not reflect a design safety factor for walls thinner than nominal or other defects. Reference Depth = Connection Strength/ (PE Wt./Ft)\*(1.5). Reference Depth includes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

## **PRECISION**

#### Torque Data Sheet - HYDRA

HYDRA 4.5in. x 15.1 lb/ft	L-80 Flush Joint
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Min Make Up Torque	3,436	ft-lbs	Nom Shoulder Torque	1,100	ft-lbs
Max Make Up Torque	4,800	ft-lbs	Max Operating	7,636	ft-lbs
Optimum Torque	4,127	ft-lbs	Yield	9,382	ft-lbs



# HYDRA

12/12/2019