## PRECISION

## HYDRA 4.5in. x 11.6 lb/ft HC-L80 Flush Joint

### Pipe Body

Nominal OD	4.500	inches
Nominal Weight	11.60	lb/ft
Wall Thickness	0.250	inches
Plain End Weight	11.36	lb/ft
Standard Drift	3.875	inches
Nominal ID	4.000	inches
Grade	HC-L80	
Min Yield	80,000	lbf/in²
Min Tensile	95,000	lbf/in²
Critical Section Area	3.338	in²
Pipe Body Yield Strength	267	kips
Min Internal Yield Pressure	7,780	psi
Collapse Pressure	7,300	psi

#### HYDRA Connection **Connection OD** 4.500 inches Make Up Loss 4.038 inches Critical Section Area 2.003 in² Internal Pressure Rating 6,220 psi **External Pressure Rating** 7,300 psi **Tension Efficiency** 60% **Connection Strength** 160 kips **Compression Efficiency** kips 160 Uniaxial Bend Rating ° / 100 ft 51 **Reference Depth** 9,401 Ft. 2,691 ft-lbs **Optimal Make Up Torque** 2,236 ft-lbs Min 3,145 ft-lbs Max

v1.0

2/5/2020

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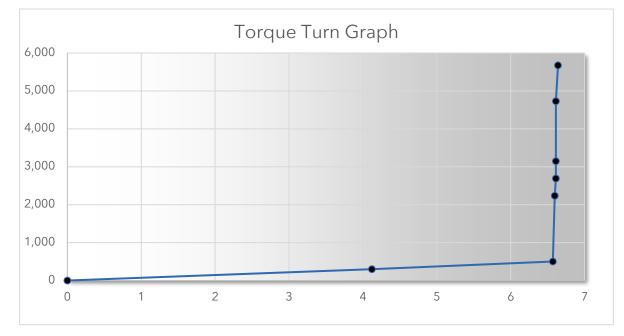
The performance properties in these data tables are calculated per API 5C3. Calculations are based on nominal wall thickness. Loads do not reflect a design safety factor for walls thinner than nominal or other defects. Reference Depth = Connection Strength/ (PE Wt./Ft)\*(1.5). Reference Depth includes 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 11.6 lb/ft	HC-L80 Flush Joint
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Min Make Up Torque	2,236	ft-lbs	Nom Shoulder Torque	500	ft-lbs
Max Make Up Torque	3,145	ft-lbs	Max Operating	4,727	ft-lbs
Optimum Torque	2,691	ft-lbs	Yield	5,673	ft-lbs



## L) HYDRA

2/5/2020

v1.1