

## HYDRA 7.625in. x 29.7 lb/ft HC-L80 Flush Joint



### Pipe Body

Nominal OD	7.625	inches
Nominal Weight	29.70	lb/ft
Wall Thickness	0.375	inches
Plain End Weight	29.06	lb/ft
Standard Drift	6.750	inches
Nominal ID	6.875	inches
Grade	HC-L80	
Min Yield	80,000	lb/in <sup>2</sup>
Min Tensile	95,000	lb/in <sup>2</sup>
Critical Section Area	8.541	in <sup>2</sup>
Pipe Body Yield Strength	683	kips
Min Internal Yield Pressure	6,890	psi
Collapse Pressure	5,780	psi

### Connection

Connection OD	7.625	inches
Make Up Loss	4.230	inches
Critical Section Area	5.125	in <sup>2</sup>
Internal Pressure Rating	5,510	psi
External Pressure Rating	5,780	psi
Tension Efficiency	60%	
Connection Strength	410	kips
Compression Efficiency	410	kips
Uniaxial Bend Rating	30	° / 100 ft
Reference Depth	9,401	Ft.
Optimal Make Up Torque	10,764	ft-lbs
Min	8,545	ft-lbs
Max	13,000	ft-lbs

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, buoyancy or other load considerations.

### Torque Data Sheet - HYDRA

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Min Make Up Torque	8,545	ft-lbs	Nom Shoulder Torque	1,020	ft-lbs
Max Make Up Torque	13,000	ft-lbs	Max Operating	20,582	ft-lbs
Optimum Torque	10,764	ft-lbs	Yield	25,745	ft-lbs

