



## HYDRA 7in. x 32 lb/ft HC-L80 Flush Joint



### Pipe Body

Nominal OD	7.000	inches
Nominal Weight	32.00	lb/ft
Wall Thickness	0.453	inches
Plain End Weight	31.70	lb/ft
Standard Drift	6.000	inches
Nominal ID	6.094	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	9.317	in <sup>2</sup>
Pipe Body Yield Strength	745	kips
Min Internal Yield Pressure	9,060	psi
Collapse Pressure	0	psi

### Connection

Connection OD	7.000	inches
Make Up Loss	4.320	inches
Critical Section Area	5.590	in <sup>2</sup>
Internal Pressure Rating	7,250	psi
External Pressure Rating	0	psi
Tension Efficiency	60%	
Connection Strength	447	kips
Compression Efficiency	447	kips
Uniaxial Bend Rating	33	° / 100 ft
Reference Depth	9,401	Ft.
Optimal Make Up Torque	12,091	ft-lbs 
Min	9,600	ft-lbs 
Max	14,582	ft-lbs

v1.0

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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	9,600	ft-lbs	Nom Shoulder Torque	1,180	ft-lbs
Max Make Up Torque	14,582	ft-lbs	Max Operating	22,691	ft-lbs
Optimum Torque	12,091	ft-lbs	Yield	28,364	ft-lbs

