



## HYDRA 4.5in. x 13.5 lb/ft HC-L80 Flush Joint



### Pipe Body

Nominal OD	4.500	inches
Nominal Weight	13.50	lb/ft
Wall Thickness	0.290	inches
Plain End Weight	13.05	lb/ft
Standard Drift	3.795	inches
Nominal ID	3.920	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	3.836	in <sup>2</sup>
Pipe Body Yield Strength	307	kips
Min Internal Yield Pressure	9,020	psi
Collapse Pressure	9,820	psi

### Connection

Connection OD	4.500	inches
Make Up Loss	4.250	inches
Critical Section Area	2.301	in <sup>2</sup>
Internal Pressure Rating	7,220	psi
External Pressure Rating	9,820	psi
Tension Efficiency	60%	
Connection Strength	184	kips
Compression Efficiency	184	kips
Uniaxial Bend Rating	51	° / 100 ft
Reference Depth	9,410	Ft.
Optimal Make Up Torque	3,345	ft-lbs 
Min	2,782	ft-lbs 
Max	3,909	ft-lbs

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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	2,782	ft-lbs	Nom Shoulder Torque	600	ft-lbs
Max Make Up Torque	3,909	ft-lbs	Max Operating	7,200	ft-lbs
Optimum Torque	3,345	ft-lbs	Yield	9,018	ft-lbs

