



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	lb/in ²
Min Tensile	95,000	lb/in ²
Critical Section Area	3.338	in ²
Pipe Body Yield Strength	267	kips
Min Internal Yield Pressure	7,780	psi
Collapse Pressure	0	psi

Connection

Connection OD	4.500	inches
Make Up Loss	4.038	inches
Critical Section Area	2.003	in ²
Internal Pressure Rating	6,220	psi
External Pressure Rating	0	psi
Tension Efficiency	60%	
Connection Strength	160	kips
Compression Efficiency	160	kips
Uniaxial Bend Rating	51	° / 100 ft
Reference Depth	9,401	Ft.
Optimal Make Up Torque	2,691	ft-lbs 
Min	2,236	ft-lbs 
Max	3,145	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	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

