



HYDRA 4.5in. x 11.6 lb/ft L-80 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	L-80	
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	6,350	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	6,350	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

