



HYDRA 4.5in. x 15.1 lb/ft L-80 Flush Joint



Pipe Body

Nominal OD	4.500	inches
Nominal Weight	15.10	lb/ft
Wall Thickness	0.337	inches
Plain End Weight	15.00	lb/ft
Standard Drift	3.701	inches
Nominal ID	3.826	inches
Grade	L-80	
Min Yield	80,000	lb/in ²
Min Tensile	95,000	lb/in ²
Critical Section Area	4.407	in ²
Pipe Body Yield Strength	353	kips
Min Internal Yield Pressure	10,480	psi
Collapse Pressure	11,080	psi

Connection

Connection OD	4.500	inches
Make Up Loss	4.488	inches
Critical Section Area	2.644	in ²
Internal Pressure Rating	8,390	psi
External Pressure Rating	11,080	psi
Tension Efficiency	60%	
Connection Strength	212	kips
Compression Efficiency	212	kips
Uniaxial Bend Rating	52	° / 100 ft
Reference Depth	9,413	Ft.
Optimal Make Up Torque	4,127	ft-lbs 
Min	3,436	ft-lbs 
Max	4,800	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	3,436	ft-lbs	Nom Shoulder Torque	1,100	ft-lbs
Max Make Up Torque	4,800	ft-lbs	Max Operating	7,636	ft-lbs
Optimum Torque	4,127	ft-lbs	Yield	9,382	ft-lbs

