



HYDRA 4.5in. x 13.5 lb/ft L-80 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	L-80	
Min Yield	80,000	lbf/in ²
Min Tensile	95,000	lbf/in ²
Critical Section Area	3.836	in ²
Pipe Body Yield Strength	307	kips
Min Internal Yield Pressure	9,020	psi
Collapse Pressure	8,540	psi

Connection

Connection OD	4.500	inches
Make Up Loss	4.250	inches
Critical Section Area	2.301	in ²
Internal Pressure Rating	7,220	psi
External Pressure Rating	8,540	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

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

HYDRA 4.5in. x 13.5 lb/ft L-80 Flush Joint

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

