



HYDRA CBR 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	lb/in ²
Min Tensile	95,000	lb/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 with Corrosion Barrier Ring

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	1,564	ft-lbs
Min	1,418	ft-lbs
Max	1,709	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 with Corrosion Barrier Ring

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

Min Make Up Torque	1,418	ft-lbs	Nom Shoulder Torque	600	ft-lbs
Max Make Up Torque	1,709	ft-lbs			
Optimum Torque	1,564	ft-lbs			

