



HYDRA CBR 4.5in. x 13.5 lb/ft P-110 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	P-110	
Min Yield	110,000	lb/in ²
Min Tensile	125,000	lb/in ²
Critical Section Area	3.836	in ²
Pipe Body Yield Strength	422	kips
Min Internal Yield Pressure	12,410	psi
Collapse Pressure	10,690	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	9,920	psi
External Pressure Rating	10,690	psi
Tension Efficiency	60%	
Connection Strength	253	kips
Compression Efficiency	253	kips
Uniaxial Bend Rating	70	° / 100 ft
Reference Depth	12,935	Ft.
Optimal Make Up Torque	2,150	ft-lbs
Min	1,950	ft-lbs
Max	2,350	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

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Min Make Up Torque	1,950	ft-lbs	Nom Shoulder Torque	600	ft-lbs
Max Make Up Torque	2,350	ft-lbs			
Optimum Torque	2,150	ft-lbs			

