



HYDRA CBR 4.5in. x 11.6 lb/ft HC-P110 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	HC-P110	
Min Yield	110,000	lb/in ²
Min Tensile	125,000	lb/in ²
Critical Section Area	3.338	in ²
Pipe Body Yield Strength	367	kips
Min Internal Yield Pressure	10,690	psi
Collapse Pressure	8,830	psi

Connection with Corrosion Barrier Ring

Connection OD	4.500	inches
Make Up Loss	4.038	inches
Critical Section Area	2.003	in ²
Internal Pressure Rating	8,560	psi
External Pressure Rating	8,830	psi
Tension Efficiency	60%	
Connection Strength	220	kips
Compression Efficiency	220	kips
Uniaxial Bend Rating	70	° / 100 ft
Reference Depth	12,923	Ft.
Optimal Make Up Torque	3,200	ft-lbs
Min	2,340	ft-lbs
Max	4,680	ft-lbs

v2.0

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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	2,340	ft-lbs	Nom Shoulder Torque	500	ft-lbs
Max Make Up Torque	4,680	ft-lbs			
Optimum Torque	3,200	ft-lbs			

