



HYDRA CBR 7in. x 23 lb/ft P-110 Flush Joint

Pipe Body

Nominal OD	7.000	inches
Nominal Weight	23.00	lb/ft
Wall Thickness	0.317	inches
Plain End Weight	22.65	lb/ft
Standard Drift	6.250	inches
Nominal ID	6.366	inches
Grade	P-110	
Min Yield	110,000	lb/in ²
Min Tensile	125,000	lb/in ²
Critical Section Area	6.655	in ²
Pipe Body Yield Strength	732	kips
Min Internal Yield Pressure	8,720	psi
Collapse Pressure	4,440	psi

Connection with Corrosion Barrier Ring

Connection OD	7.000	inches
Make Up Loss	3.780	inches
Critical Section Area	3.993	in ²
Internal Pressure Rating	6,970	psi
External Pressure Rating	4,440	psi
Tension Efficiency	60%	
Connection Strength	439	kips
Compression Efficiency	439	kips
Uniaxial Bend Rating	45	° / 100 ft
Reference Depth	12,927	Ft.
Optimal Make Up Torque	6,150	ft-lbs
Min	5,550	ft-lbs
Max	6,750	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	5,550	ft-lbs	Nom Shoulder Torque	670	ft-lbs
Max Make Up Torque	6,750	ft-lbs			
Optimum Torque	6,150	ft-lbs			

