



## HYDRA CBR 3.5in. x 9.2 lb/ft P-110 Flush Joint

### Pipe Body

Nominal OD	3.500	inches
Nominal Weight	9.20	lb/ft
Wall Thickness	0.254	inches
Plain End Weight	8.81	lb/ft
Standard Drift	2.867	inches
Nominal ID	2.992	inches
Grade	P-110	
Min Yield	110,000	lb/in <sup>2</sup>
Min Tensile	125,000	lb/in <sup>2</sup>
Critical Section Area	2.590	in <sup>2</sup>
Pipe Body Yield Strength	285	kips
Min Internal Yield Pressure	13,970	psi
Collapse Pressure	13,530	psi

### Connection with Corrosion Barrier Ring

Connection OD	3.500	inches
Make Up Loss	3.938	inches
Critical Section Area	1.554	in <sup>2</sup>
Internal Pressure Rating	11,180	psi
External Pressure Rating	13,530	psi
Tension Efficiency	60%	
Connection Strength	171	kips
Compression Efficiency	171	kips
Uniaxial Bend Rating	91	° / 100 ft
Reference Depth	12,940	Ft.
Optimal Make Up Torque	2,215	ft-lbs
Min	1,620	ft-lbs
Max	3,240	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	1,620	ft-lbs
Max Make Up Torque	3,240	ft-lbs
Optimum Torque	2,215	ft-lbs

