



HYDRA 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 ²
Min Tensile	125,000	lb/in ²
Critical Section Area	2.590	in ²
Pipe Body Yield Strength	285	kips
Min Internal Yield Pressure	13,970	psi
Collapse Pressure	13,530	psi

Connection

Connection OD	3.500	inches
Make Up Loss	3.938	inches
Critical Section Area	1.554	in ²
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	2,575	ft-lbs 
Min	2,175	ft-lbs 
Max	2,975	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

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Min Make Up Torque	2,175	ft-lbs	Nom Shoulder Torque	400	ft-lbs
Max Make Up Torque	2,975	ft-lbs	Max Operating	4,300	ft-lbs
Optimum Torque	2,575	ft-lbs	Yield	5,400	ft-lbs

