



HYDRA 4.5in. x 13.5 lb/ft P110 EB 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	P110 EB	
Min Yield	125,000	lb/in ²
Min Tensile	130,000	lb/in ²
Critical Section Area	3.836	in ²
Pipe Body Yield Strength	479	kips
Min Internal Yield Pressure	14,100	psi
Collapse Pressure	0	psi

Connection

Connection OD	4.500	inches
Make Up Loss	4.250	inches
Critical Section Area	2.301	in ²
Internal Pressure Rating	11,280	psi
External Pressure Rating	0	psi
Tension Efficiency	60%	
Connection Strength	287	kips
Compression Efficiency	287	kips
Uniaxial Bend Rating	80	° / 100 ft
Reference Depth	14,682	Ft.
Optimal Make Up Torque	5,227	ft-lbs 
Min	4,347	ft-lbs 
Max	6,108	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

HYDRA 4.5in. x 13.5 lb/ft P110 EB Flush Joint

Min Make Up Torque	4,347	ft-lbs	Nom Shoulder Torque	600	ft-lbs
Max Make Up Torque	6,108	ft-lbs	Max Operating	11,250	ft-lbs
Optimum Torque	5,227	ft-lbs	Yield	14,091	ft-lbs

