

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	12,290	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	12,290	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

