



HYDRA 4.5in. x 15.1 lb/ft P110 EB Flush Joint



Pipe Body

Nominal OD	4.500	inches
Nominal Weight	15.10	lb/ft
Wall Thickness	0.337	inches
Plain End Weight	15.00	lb/ft
Standard Drift	3.701	inches
Nominal ID	3.826	inches
Grade	P110 EB	
Min Yield	125,000	lbf/in ²
Min Tensile	130,000	lbf/in ²
Critical Section Area	4.407	in ²
Pipe Body Yield Strength	551	kips
Min Internal Yield Pressure	16,380	psi
Collapse Pressure	0	psi

Connection

Connection OD	4.500	inches
Make Up Loss	4.488	inches
Critical Section Area	2.644	in ²
Internal Pressure Rating	13,110	psi
External Pressure Rating	0	psi
Tension Efficiency	60%	
Connection Strength	331	kips
Compression Efficiency	331	kips
Uniaxial Bend Rating	81	° / 100 ft
Reference Depth	14,693	Ft.
Optimal Make Up Torque	6,449	ft-lbs 
Min	5,369	ft-lbs 
Max	7,500	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	5,369	ft-lbs	Nom Shoulder Torque	1,100	ft-lbs
Max Make Up Torque	7,500	ft-lbs	Max Operating	11,932	ft-lbs
Optimum Torque	6,449	ft-lbs	Yield	14,659	ft-lbs

