

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	lb/in ²
Min Tensile	130,000	lb/in ²
Critical Section Area	4.407	in ²
Pipe Body Yield Strength	551	kips
Min Internal Yield Pressure	16,380	psi
Collapse Pressure	16,490	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	16,490	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

