

HYDRA 4.5in. x 11.6 lb/ft P110 EB Flush Joint



Pipe Body

Nominal OD	4.500	inches
Nominal Weight	11.60	lb/ft
Wall Thickness	0.250	inches
Plain End Weight	11.36	lb/ft
Standard Drift	3.875	inches
Nominal ID	4.000	inches
Grade	P110 EB	
Min Yield	125,000	lb/in ²
Min Tensile	130,000	lb/in ²
Critical Section Area	3.338	in ²
Pipe Body Yield Strength	417	kips
Min Internal Yield Pressure	12,150	psi
Collapse Pressure	8,830	psi

Connection

Connection OD	4.500	inches
Make Up Loss	4.038	inches
Critical Section Area	2.003	in ²
Internal Pressure Rating	9,720	psi
External Pressure Rating	8,830	psi
Tension Efficiency	60%	
Connection Strength	250	kips
Compression Efficiency	250	kips
Uniaxial Bend Rating	79	° / 100 ft
Reference Depth	14,683	Ft.
Optimal Make Up Torque	4,205	ft-lbs
Min	3,494	ft-lbs
Max	4,915	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	3,494	ft-lbs	Nom Shoulder Torque	500	ft-lbs
Max Make Up Torque	4,915	ft-lbs	Max Operating	7,386	ft-lbs
Optimum Torque	4,205	ft-lbs	Yield	8,864	ft-lbs

