

HYDRA 5in. x 18 lb/ft P110 EB Flush Joint



HYDRA

Pipe Body

Nominal OD	5.000	inches
Nominal Weight	18.00	lb/ft
Wall Thickness	0.362	inches
Plain End Weight	17.95	lb/ft
Standard Drift	4.151	inches
Nominal ID	4.276	inches
Grade	P110 EB	
Min Yield	125,000	lb/in ²
Min Tensile	130,000	lb/in ²
Critical Section Area	5.275	in ²
Pipe Body Yield Strength	659	kips
Min Internal Yield Pressure	15,840	psi
Collapse Pressure	15,490	psi

Connection

Connection OD	5.000	inches
Make Up Loss	4.625	inches
Critical Section Area	3.165	in ²
Internal Pressure Rating	12,670	psi
External Pressure Rating	15,490	psi
Tension Efficiency	60%	
Connection Strength	395	kips
Compression Efficiency	395	kips
Uniaxial Bend Rating	72	° / 100 ft
Reference Depth	14,685	Ft.
Optimal Make Up Torque	8,239	ft-lbs
Min	6,790	ft-lbs
Max	9,688	ft-lbs



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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	6,790	ft-lbs	Nom Shoulder Torque	500	ft-lbs
Max Make Up Torque	9,688	ft-lbs	Max Operating	18,182	ft-lbs
Optimum Torque	8,239	ft-lbs	Yield	22,727	ft-lbs

