

HYDRA 7in. x 32 lb/ft P110 EB Flush Joint

**Pipe Body**

Nominal OD	7.000	inches
Nominal Weight	32.00	lb/ft
Wall Thickness	0.453	inches
Plain End Weight	31.70	lb/ft
Standard Drift	6.000	inches
Nominal ID	6.094	inches
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Grade	P110 EB	
Min Yield	125,000	lb/in ²
Min Tensile	130,000	lb/in ²
Critical Section Area	9.317	in ²
Pipe Body Yield Strength	1165	kips
Min Internal Yield Pressure	14,160	psi
Collapse Pressure	12,400	psi

Connection

Connection OD	7.000	inches
Make Up Loss	4.320	inches
Critical Section Area	5.590	in ²
Internal Pressure Rating	11,330	psi
External Pressure Rating	12,400	psi
Tension Efficiency	60%	
Connection Strength	699	kips
Compression Efficiency	699	kips
Uniaxial Bend Rating	52	° / 100 ft
Reference Depth	14,700	Ft.
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Optimal Make Up Torque	18,892	ft-lbs
Min	15,000	ft-lbs
Max	22,784	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

HYDRA 7in. x 32 lb/ft P110 EB Flush Joint

Min Make Up Torque	15,000	ft-lbs	Nom Shoulder Torque	1,180	ft-lbs
Max Make Up Torque	22,784	ft-lbs	Max Operating	35,455	ft-lbs
Optimum Torque	18,892	ft-lbs	Yield	44,318	ft-lbs

