

HYDRA 7in. x 32 lb/ft P-110 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
Grade	P-110	
Min Yield	110,000	lb/in ²
Min Tensile	125,000	lb/in ²
Critical Section Area	9.317	in ²
Pipe Body Yield Strength	1025	kips
Min Internal Yield Pressure	12,460	psi
Collapse Pressure	10,780	psi

Connection

Connection OD	7.000	inches
Make Up Loss	4.320	inches
Critical Section Area	5.590	in ²
Internal Pressure Rating	9,970	psi
External Pressure Rating	10,780	psi
Tension Efficiency	60%	
Connection Strength	615	kips
Compression Efficiency	615	kips
Uniaxial Bend Rating	45	° / 100 ft
Reference Depth	12,934	Ft.
Optimal Make Up Torque	16,625	ft-lbs
Min	13,200	ft-lbs
Max	20,050	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	13,200	ft-lbs
Max Make Up Torque	20,050	ft-lbs
Optimum Torque	16,625	ft-lbs

Nom Shoulder Torque	1,180	ft-lbs
Max Operating	31,200	ft-lbs
Yield	39,000	ft-lbs

