

## HYDRA 7.625in. x 33.7 lb/ft P110 EB Flush Joint



### Pipe Body

Nominal OD	7.625	inches
Nominal Weight	33.70	lb/ft
Wall Thickness	0.430	inches
Plain End Weight	33.07	lb/ft
Standard Drift	6.640	inches
Nominal ID	6.765	inches
Grade	P110 EB	
Min Yield	125,000	lb/in <sup>2</sup>
Min Tensile	130,000	lb/in <sup>2</sup>
Critical Section Area	9.720	in <sup>2</sup>
Pipe Body Yield Strength	1215	kips
Min Internal Yield Pressure	12,340	psi
Collapse Pressure	9,110	psi

### Connection

Connection OD	7.625	inches
Make Up Loss	4.450	inches
Critical Section Area	5.832	in <sup>2</sup>
Internal Pressure Rating	9,870	psi
External Pressure Rating	9,110	psi
Tension Efficiency	60%	
Connection Strength	729	kips
Compression Efficiency	729	kips
Uniaxial Bend Rating	47	° / 100 ft
Reference Depth	14,696	Ft.
Optimal Make Up Torque	20,170	ft-lbs
Min	16,023	ft-lbs
Max	24,318	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	16,023	ft-lbs	Nom Shoulder Torque	1,260	ft-lbs
Max Make Up Torque	24,318	ft-lbs	Max Operating	38,182	ft-lbs
Optimum Torque	20,170	ft-lbs	Yield	47,727	ft-lbs

