

## HYDRA 4.5in. x 13.5 lb/ft P-110 Flush Joint

## HYDRA

4.500	inches
13.50	lb/ft
0.290	inches
13.05	lb/ft
3.795	inches
3.920	inches
P-110	
110,000	lbf/in²
125,000	lbf/in²
3.836	in²
422	kips
12,410	psi
10,690	psi
	13.50 0.290 13.05 3.795 3.920 P-110 110,000 125,000 3.836 422 12,410

Connection		
Connection OD	4.500	inches
Make Up Loss	4.250	inches
Critical Section Area	2.301	in²
Internal Pressure Rating	9,920	psi
External Pressure Rating	10,690	psi
Tension Efficiency	60%	
Connection Strength	253	kips
Compression Efficiency	253	kips
<b>Uniaxial Bend Rating</b>	70	° / 100 ft
Reference Depth	12,935	Ft.
Optimal Make Up Torque	4,600	ft-lbs 👖
Min	3,825	ft-lbs 🚺
Max	5,375	ft-lbs
	v1.0	12/12/2019

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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, bouyancy or other load considerations.





## Torque Data Sheet - HYDRA

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Min Make Up Torque	3,825	ft-lbs	Nom Shoulder Torque	600	ft-lbs
Max Make Up Torque	5,375	ft-lbs	Max Operating	9,900	ft-lbs
Optimum Torque	4,600	ft-lbs	Yield	12,400	ft-lbs

