



## HYDRA 4in. x 11.6 lb/ft P-110 Flush Joint



### Pipe Body

Nominal OD	4.000	inches
Nominal Weight	11.60	lb/ft
Wall Thickness	0.286	inches
Plain End Weight	11.36	lb/ft
Standard Drift	3.303	inches
Nominal ID	3.428	inches
Grade	P-110	
Min Yield	110,000	lb/in <sup>2</sup>
Min Tensile	125,000	lb/in <sup>2</sup>
Critical Section Area	3.337	in <sup>2</sup>
Pipe Body Yield Strength	367	kips
Min Internal Yield Pressure	13,760	psi
Collapse Pressure	13,150	psi

### Connection

Connection OD	4.000	inches
Make Up Loss	4.088	inches
Critical Section Area	2.002	in <sup>2</sup>
Internal Pressure Rating	11,010	psi
External Pressure Rating	13,150	psi
Tension Efficiency	60%	
Connection Strength	220	kips
Compression Efficiency	220	kips
Uniaxial Bend Rating	80	° / 100 ft
Reference Depth	12,923	Ft.
Optimal Make Up Torque	3,675	ft-lbs 
Min	3,050	ft-lbs 
Max	4,275	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

HYDRA 4in. x 11.6 lb/ft P-110 Flush Joint

Min Make Up Torque	3,050	ft-lbs	Nom Shoulder Torque	300	ft-lbs
Max Make Up Torque	4,275	ft-lbs	Max Operating	5,250	ft-lbs
Optimum Torque	3,675	ft-lbs	Yield	7,400	ft-lbs

