

## HYDRA 4in. x 11.6 lb/ft P110 EB 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	P110 EB	
Min Yield	125,000	lb/in <sup>2</sup>
Min Tensile	130,000	lb/in <sup>2</sup>
Critical Section Area	3.337	in <sup>2</sup>
Pipe Body Yield Strength	417	kips
Min Internal Yield Pressure	15,640	psi
Collapse Pressure	15,120	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	12,510	psi
External Pressure Rating	15,120	psi
Tension Efficiency	60%	
Connection Strength	250	kips
Compression Efficiency	250	kips
Uniaxial Bend Rating	91	° / 100 ft
Reference Depth	14,683	Ft.
Optimal Make Up Torque	4,176	ft-lbs
Min	3,466	ft-lbs
Max	4,858	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 4in. x 11.6 lb/ft P110 EB Flush Joint

Min Make Up Torque	3,466	ft-lbs	Nom Shoulder Torque	300	ft-lbs
Max Make Up Torque	4,858	ft-lbs	Max Operating	5,966	ft-lbs
Optimum Torque	4,176	ft-lbs	Yield	8,409	ft-lbs

