

## HYDRA 5.5in. x 20 lb/ft P110 EB Flush Joint



### Pipe Body

Nominal OD	5.500	inches
Nominal Weight	20.00	lb/ft
Wall Thickness	0.361	inches
Plain End Weight	19.83	lb/ft
Standard Drift	4.653	inches
Nominal ID	4.778	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	5.828	in <sup>2</sup>
Pipe Body Yield Strength	729	kips
Min Internal Yield Pressure	14,360	psi
Collapse Pressure	12,770	psi

### Connection

Connection OD	5.500	inches
Make Up Loss	4.738	inches
Critical Section Area	3.497	in <sup>2</sup>
Internal Pressure Rating	11,490	psi
External Pressure Rating	12,770	psi
Tension Efficiency	60%	
Connection Strength	437	kips
Compression Efficiency	437	kips
Uniaxial Bend Rating	65	° / 100 ft
Reference Depth	14,705	Ft.
Optimal Make Up Torque	9,886	ft-lbs
Min	8,153	ft-lbs
Max	11,619	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	8,153	ft-lbs	Nom Shoulder Torque	800	ft-lbs
Max Make Up Torque	11,619	ft-lbs	Max Operating	14,659	ft-lbs
Optimum Torque	9,886	ft-lbs	Yield	23,864	ft-lbs

