



## HYDRA 7in. x 23 lb/ft HC-P110 Flush Joint



### Pipe Body

Nominal OD	7.000	inches
Nominal Weight	23.00	lb/ft
Wall Thickness	0.317	inches
Plain End Weight	22.65	lb/ft
Standard Drift	6.250	inches
Nominal ID	6.366	inches
Grade	HC-P110	
Min Yield	110,000	lb/in <sup>2</sup>
Min Tensile	125,000	lb/in <sup>2</sup>
Critical Section Area	6.655	in <sup>2</sup>
Pipe Body Yield Strength	732	kips
Min Internal Yield Pressure	8,720	psi
Collapse Pressure	0	psi

### Connection

Connection OD	7.000	inches
Make Up Loss	3.780	inches
Critical Section Area	3.993	in <sup>2</sup>
Internal Pressure Rating	6,970	psi
External Pressure Rating	0	psi
Tension Efficiency	60%	
Connection Strength	439	kips
Compression Efficiency	439	kips
Uniaxial Bend Rating	45	° / 100 ft
Reference Depth	12,927	Ft.
Optimal Make Up Torque	10,525	ft-lbs 
Min	8,300	ft-lbs 
Max	12,725	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	8,300	ft-lbs	Nom Shoulder Torque	670	ft-lbs
Max Make Up Torque	12,725	ft-lbs	Max Operating	20,300	ft-lbs
Optimum Torque	10,525	ft-lbs	Yield	25,400	ft-lbs

