

## HYDRA 7in. x 32 lb/ft CYP-110 Flush Joint



### Pipe Body

Nominal OD	7.000	inches
Nominal Weight	32.00	lb/ft
Wall Thickness	0.453	inches
Plain End Weight	31.70	lb/ft
Standard Drift	6.000	inches
Nominal ID	6.094	inches
Grade	CYP-110	
Min Yield	110,000	lb/in <sup>2</sup>
Min Tensile	125,000	lb/in <sup>2</sup>
Critical Section Area	9.317	in <sup>2</sup>
Pipe Body Yield Strength	1025	kips
Min Internal Yield Pressure	12,460	psi
Collapse Pressure	10,780	psi

### Connection

Connection OD	7.000	inches
Make Up Loss	4.320	inches
Critical Section Area	5.590	in <sup>2</sup>
Internal Pressure Rating	9,970	psi
External Pressure Rating	10,780	psi
Tension Efficiency	60%	
Connection Strength	615	kips
Compression Efficiency	615	kips
Uniaxial Bend Rating	45	° / 100 ft
Reference Depth	12,934	Ft.
Optimal Make Up Torque	16,625	ft-lbs
Min	13,200	ft-lbs
Max	20,050	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	13,200	ft-lbs	Nom Shoulder Torque	1,180	ft-lbs
Max Make Up Torque	20,050	ft-lbs	Max Operating	31,200	ft-lbs
Optimum Torque	16,625	ft-lbs	Yield	39,000	ft-lbs

