



## HYDRA 7in. x 23 lb/ft L-80 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	L-80	
Min Yield	80,000	lb/in <sup>2</sup>
Min Tensile	95,000	lb/in <sup>2</sup>
Critical Section Area	6.655	in <sup>2</sup>
Pipe Body Yield Strength	532	kips
Min Internal Yield Pressure	6,340	psi
Collapse Pressure	3,830	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	5,070	psi
External Pressure Rating	3,830	psi
Tension Efficiency	60%	
Connection Strength	319	kips
Compression Efficiency	319	kips
Uniaxial Bend Rating	32	° / 100 ft
Reference Depth	9,395	Ft.
Optimal Make Up Torque	7,655	ft-lbs 
Min	6,036	ft-lbs 
Max	9,255	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	6,036	ft-lbs	Nom Shoulder Torque	670	ft-lbs
Max Make Up Torque	9,255	ft-lbs	Max Operating	14,764	ft-lbs
Optimum Torque	7,655	ft-lbs	Yield	18,473	ft-lbs

