

HYDRA 7in. x 23 lb/ft P-110 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	P-110	
Min Yield	110,000	lb/in ²
Min Tensile	125,000	lb/in ²
Critical Section Area	6.655	in ²
Pipe Body Yield Strength	732	kips
Min Internal Yield Pressure	8,720	psi
Collapse Pressure	4,440	psi

Connection

Connection OD	7.000	inches
Make Up Loss	3.780	inches
Critical Section Area	3.993	in ²
Internal Pressure Rating	6,970	psi
External Pressure Rating	4,440	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
Max Make Up Torque	12,725	ft-lbs
Optimum Torque	10,525	ft-lbs

Nom Shoulder Torque	670	ft-lbs
Max Operating	20,300	ft-lbs
Yield	25,400	ft-lbs

