

HYDRA 5in. x 18 lb/ft L-80 Flush Joint



Pipe Body

Nominal OD	5.000	inches
Nominal Weight	18.00	lb/ft
Wall Thickness	0.362	inches
Plain End Weight	17.95	lb/ft
Standard Drift	4.151	inches
Nominal ID	4.276	inches
Grade	L-80	
Min Yield	80,000	lb/in ²
Min Tensile	95,000	lb/in ²
Critical Section Area	5.275	in ²
Pipe Body Yield Strength	422	kips
Min Internal Yield Pressure	10,140	psi
Collapse Pressure	10,490	psi

Connection

Connection OD	5.000	inches
Make Up Loss	4.625	inches
Critical Section Area	3.165	in ²
Internal Pressure Rating	8,110	psi
External Pressure Rating	10,490	psi
Tension Efficiency	60%	
Connection Strength	253	kips
Compression Efficiency	253	kips
Uniaxial Bend Rating	46	° / 100 ft
Reference Depth	9,404	Ft.
Optimal Make Up Torque	5,273	ft-lbs
Min	4,345	ft-lbs
Max	6,200	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	4,345	ft-lbs	Nom Shoulder Torque	500	ft-lbs
Max Make Up Torque	6,200	ft-lbs	Max Operating	11,636	ft-lbs
Optimum Torque	5,273	ft-lbs	Yield	14,545	ft-lbs

