

## HYDRA 5in. x 18 lb/ft HC-L80 Flush Joint

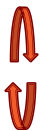
**HYDRA**

### 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
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Grade	HC-L80	
Min Yield	80,000	lb/in <sup>2</sup>
Min Tensile	95,000	lb/in <sup>2</sup>
Critical Section Area	5.275	in <sup>2</sup>
Pipe Body Yield Strength	422	kips
Min Internal Yield Pressure	10,140	psi
Collapse Pressure	12,060	psi

### Connection

Connection OD	5.000	inches
Make Up Loss	4.625	inches
Critical Section Area	3.165	in <sup>2</sup>
Internal Pressure Rating	8,110	psi
External Pressure Rating	12,060	psi
Tension Efficiency	60%	
Connection Strength	253	kips
Compression Efficiency	253	kips
Uniaxial Bend Rating	46	° / 100 ft
Reference Depth	9,404	Ft.
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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

HYDRA 5in. x 18 lb/ft HC-L80 Flush Joint

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

