

HYDRA 5in. x 18 lb/ft P-110 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	P-110	
Min Yield	110,000	lb/in ²
Min Tensile	125,000	lb/in ²
Critical Section Area	5.275	in ²
Pipe Body Yield Strength	580	kips
Min Internal Yield Pressure	13,940	psi
Collapse Pressure	13,470	psi

Connection

Connection OD	5.000	inches
Make Up Loss	4.625	inches
Critical Section Area	3.165	in ²
Internal Pressure Rating	11,150	psi
External Pressure Rating	13,470	psi
Tension Efficiency	60%	
Connection Strength	348	kips
Compression Efficiency	348	kips
Uniaxial Bend Rating	64	° / 100 ft
Reference Depth	12,925	Ft.
Optimal Make Up Torque	7,250	ft-lbs
Min	5,975	ft-lbs
Max	8,525	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	5,975	ft-lbs	Nom Shoulder Torque	500	ft-lbs
Max Make Up Torque	8,525	ft-lbs	Max Operating	16,000	ft-lbs
Optimum Torque	7,250	ft-lbs	Yield	20,000	ft-lbs

