

HYDRA 4.5in. x 13.5 lb/ft J-55 Flush Joint



Pipe Body

Nominal OD	4.500	inches
Nominal Weight	13.50	lb/ft
Wall Thickness	0.290	inches
Plain End Weight	13.05	lb/ft
Standard Drift	3.795	inches
Nominal ID	3.920	inches
Grade	J-55	
Min Yield	55,000	lb/in ²
Min Tensile	75,000	lb/in ²
Critical Section Area	3.836	in ²
Pipe Body Yield Strength	211	kips
Min Internal Yield Pressure	6,200	psi
Collapse Pressure	6,420	psi

Connection

Connection OD	4.500	inches
Make Up Loss	4.250	inches
Critical Section Area	2.301	in ²
Internal Pressure Rating	4,960	psi
External Pressure Rating	6,420	psi
Tension Efficiency	60%	
Connection Strength	127	kips
Compression Efficiency	127	kips
Uniaxial Bend Rating	35	° / 100 ft
Reference Depth	6,467	Ft.
Optimal Make Up Torque	2,300	ft-lbs
Min	1,913	ft-lbs
Max	2,688	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 4.5in. x 13.5 lb/ft J-55 Flush Joint

Min Make Up Torque	1,913	ft-lbs	Nom Shoulder Torque	600	ft-lbs
Max Make Up Torque	2,688	ft-lbs	Max Operating	4,950	ft-lbs
Optimum Torque	2,300	ft-lbs	Yield	6,200	ft-lbs

