

HYDRA 4.5in. x 15.1 lb/ft P-110 Flush Joint

ction HYDRA

Pipe Body			Conn
Nominal OD	4.500	inches	Со
Nominal Weight	15.10	lb/ft	Ма
Wall Thickness	0.337	inches	Cri
Plain End Weight	15.00	lb/ft	Inte
Standard Drift	3.701	inches	Ext
Nominal ID	3.826	inches	Tei
Grade	P-110		Со
Min Yield	110,000	lbf/in²	Со
Min Tensile	125,000	lbf/in²	Un
Critical Section Area	4.407	in²	Ref
Pipe Body Yield Strength	485	kips	Op [.]
Min Internal Yield Pressure	14,420	psi	Mir
Collapse Pressure	14,340	psi	Max

Connection	HIDRA		
Connection OD	4.500	inches	
Make Up Loss	4.488	inches	
Critical Section Area	2.644	in²	
Internal Pressure Rating	11,530	psi	
External Pressure Rating	14,340	psi	
Tension Efficiency	60%		
Connection Strength	291	kips	
Compression Efficiency	291	kips	
Uniaxial Bend Rating	71	° / 100 ft	
Reference Depth	12,933	Ft.	
Optimal Make Up Torque	5,675	ft-lbs 🚺	
Min	4,725	ft-lbs 🚺	
Max	6,600	ft-lbs	
	v1.0	12/12/2019	

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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, bouyancy or other load considerations.





Torque Data Sheet - HYDRA

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Min Make Up Torque	4,725	ft-lbs	Nom Shoulder Torque	1,100	ft-lbs
Max Make Up Torque	6,600	ft-lbs	Max Operating	10,500	ft-lbs
Optimum Torque	5,675	ft-lbs	Yield	12,900	ft-lbs

