



HYDRA 5.5in. x 20 lb/ft CYP-110 Flush Joint



Pipe Body

Nominal OD	5.500	inches
Nominal Weight	20.00	lb/ft
Wall Thickness	0.361	inches
Plain End Weight	19.83	lb/ft
Standard Drift	4.653	inches
Nominal ID	4.778	inches
Grade	CYP-110	
Min Yield	110,000	lbf/in ²
Min Tensile	125,000	lbf/in ²
Critical Section Area	5.828	in ²
Pipe Body Yield Strength	641	kips
Min Internal Yield Pressure	12,640	psi
Collapse Pressure	11,100	psi

Connection

Connection OD	5.500	inches
Make Up Loss	4.738	inches
Critical Section Area	3.497	in ²
Internal Pressure Rating	10,110	psi
External Pressure Rating	11,100	psi
Tension Efficiency	60%	
Connection Strength	385	kips
Compression Efficiency	385	kips
Uniaxial Bend Rating	58	° / 100 ft
Reference Depth	12,930	Ft.
Optimal Make Up Torque	8,700	ft-lbs 
Min	7,175	ft-lbs 
Max	10,225	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, buoyancy or other load considerations.

Torque Data Sheet - HYDRA

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Min Make Up Torque	7,175	ft-lbs	Nom Shoulder Torque	800	ft-lbs
Max Make Up Torque	10,225	ft-lbs	Max Operating	12,900	ft-lbs
Optimum Torque	8,700	ft-lbs	Yield	21,000	ft-lbs

