### PRECISION

### HYDRA 3.5in. x 9.2 lb/ft P-110 Flush Joint

#### Pipe Body

Nominal OD	3.500	inches
Nominal Weight	9.20	lb/ft
Wall Thickness	0.254	inches
Plain End Weight	8.81	lb/ft
Standard Drift	2.867	inches
Nominal ID	2.992	inches
Grade	P-110	
Min Yield	110,000	lbf/in²
Min Tensile	125,000	lbf/in²
Critical Section Area	2.590	in²
Pipe Body Yield Strength	285	kips
Min Internal Yield Pressure	13,970	psi
Collapse Pressure	13,530	psi

#### Connection

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Connection OD	3.500	inches
Make Up Loss	3.938	inches
Critical Section Area	1.554	in²
Internal Pressure Rating	11,180	psi
External Pressure Rating	13,530	psi
Tension Efficiency	60%	
Connection Strength	171	kips
Compression Efficiency	171	kips
Uniaxial Bend Rating	91	° / 100 ft
Reference Depth	12,940	Ft.
Optimal Make Up Torque	2,575	ft-lbs
Min	2,175	ft-lbs 👔
Max	2,975	ft-lbs
	v1.0	12/12/2019

HYDRA

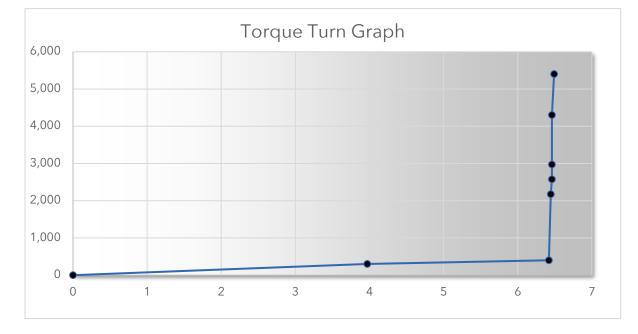
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The performance properties in these data tables are calculated per API 5C3. Calculations are based on nominal wall thickness. Loads do not reflect a design safety factor for walls thinner than nominal or other defects. Reference Depth = Connection 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.

# **PRECISION**

#### Torque Data Sheet - HYDRA

Min Make Up Torque	2,175	ft-lbs	Nom Shoulder Torque	400	ft-lbs
Max Make Up Torque	2,975	ft-lbs	Max Operating	4,300	ft-lbs
Optimum Torque	2,575	ft-lbs	Yield	5,400	ft-lbs



# L) HYDRA

12/12/2019

v1.1