



HYDRA 4in. x 11.6 lb/ft HC-P110 Flush Joint



Pipe Body

| | | |
|-----------------------------|---------|--------------------|
| Nominal OD | 4.000 | inches |
| Nominal Weight | 11.60 | lb/ft |
| Wall Thickness | 0.286 | inches |
| Plain End Weight | 11.36 | lb/ft |
| Standard Drift | 3.303 | inches |
| Nominal ID | 3.428 | inches |
| Grade | HC-P110 | |
| Min Yield | 110,000 | lb/in ² |
| Min Tensile | 125,000 | lb/in ² |
| Critical Section Area | 3.337 | in ² |
| Pipe Body Yield Strength | 367 | kips |
| Min Internal Yield Pressure | 13,760 | psi |
| Collapse Pressure | 0 | psi |

Connection

| | | |
|--------------------------|--------|--|
| Connection OD | 4.000 | inches |
| Make Up Loss | 4.088 | inches |
| Critical Section Area | 2.002 | in ² |
| Internal Pressure Rating | 11,010 | psi |
| External Pressure Rating | 0 | psi |
| Tension Efficiency | 60% | |
| Connection Strength | 220 | kips |
| Compression Efficiency | 220 | kips |
| Uniaxial Bend Rating | 80 | ° / 100 ft |
| Reference Depth | 12,923 | Ft. |
| Optimal Make Up Torque | 3,675 | ft-lbs  |
| Min | 3,050 | ft-lbs  |
| Max | 4,275 | 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 4in. x 11.6 lb/ft HC-P110 Flush Joint

| | | | | | |
|--------------------|-------|--------|---------------------|-------|--------|
| Min Make Up Torque | 3,050 | ft-lbs | Nom Shoulder Torque | 300 | ft-lbs |
| Max Make Up Torque | 4,275 | ft-lbs | Max Operating | 5,250 | ft-lbs |
| Optimum Torque | 3,675 | ft-lbs | Yield | 7,400 | ft-lbs |

