

HYDRA 5.5in. x 20 lb/ft P-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 | P-110 | |
| Min Yield | 110,000 | lb/in ² |
| Min Tensile | 125,000 | lb/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

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

| | | | | | |
|--------------------|--------|--------|---------------------|--------|--------|
| 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 |

