PRECISION

HYDRA 4in. x 11.6 lb/ft P-110 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 | P-110 | |
| Min Yield | 110,000 | lbf/in² |
| Min Tensile | 125,000 | lbf/in² |
| Critical Section Area | 3.337 | in² |
| Pipe Body Yield Strength | 367 | kips |
| Min Internal Yield Pressure | 13,760 | psi |
| Collapse Pressure | 13,150 | psi |

Connection

| Connection OD | 4.000 | inches |
|--------------------------|--------|------------|
| Make Up Loss | 4.088 | inches |
| Critical Section Area | 2.002 | in² |
| Internal Pressure Rating | 11,010 | psi |
| External Pressure Rating | 13,150 | 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 | 12/12/2019 |

HYDRA

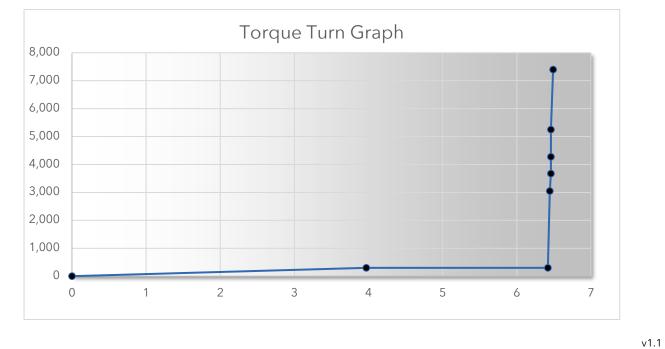
This documentation contains confidential and proprietary information not to be reproduced or divulged in whole or in part to anyone outside of your company without prior written authorization from Precision Connections, LLC, and such documentation and information is provided to you upon such conditions of confidentiality.

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 | 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 |



L) HYDRA

12/12/2019