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“Where Value and Service Come First”

PERMIAN PIPE RENTAL
PIPE SPECIFICATIONS & INVENTORY INCLUDING ACCESSORIES

- All CS Hydril tubing connections of the same size are interchangeable regardless of weight or grade of tubing.
- Collapse, Internal Yield and Joint Yield strengths are minimum values with no safety factor.
- Specifications make no allowance for couplings and upsets.
- According to Hooke’s Law, the elastic limit of the material is the maximum stress that can be developed within it without causing a permanent deformation or permanent stretch in oil field terms.
- It is a common misconception that the amount of stretch for oil field tubular material is affected by the grade of steel (J55, N80, etc.). This is not true, because the modulus of elasticity remains the same.

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|---|------------------------|------------|--------------------------|---------------|
| 1" Nominal (1.315" OD) 1.80# J-55 1" EUE 10 Rd. Connection 1.900" OD x 1.049" ID | Optimum Make-Up Torque | 570 Ft/Lbs | Minimum Internal Yield | 9,730 PSI |
| | Collapse Pressure | 10,000 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 27,160 Lbs | Threads Off Average | 29.55 |

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|--|------------------------|------------|--------------------------|---------------|
| 1" Nominal (1.315" OD) 1.72# J-55 1" IJ Kobe Connection 1.550" OD x 1.049" ID | Optimum Make-Up Torque | 270 Ft/Lbs | Minimum Internal Yield | 9,730 PSI |
| | Collapse Pressure | 10,000 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 27,160 Lbs | Threads Off Average | 31.80 |

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|---|------------------------|------------|--------------------------|---------------|
| 1" Nominal (1.050" OD) 1.75# N-80 1" MT Connection 1.5625" OD x 0.8125" ID | Optimum Make-Up Torque | 450 Ft/Lbs | Minimum Internal Yield | 16,183 PSI |
| | Collapse Pressure | 14,550 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 39,520 Lbs | Threads Off Average | Not Available |

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|---|------------------------|------------|------------------------|--------------|
| 1 1/4" Nominal (1.660" OD) 4.19# N-80 1 13/16" BOT Tool Joint 1.750" OD x 0.750" ID Left Hand Connection Tool Joint | Optimum Make-Up Torque | 650 Ft/Lbs | Minimum Internal Yield | 26,988 PSI |
| | Collapse Pressure | | Pipe Torsional Load | 1,250 Ft/Lbs |
| | Tension Yield | 97,200 Lbs | Threads Off Average | 32.05 |

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|--|------------------------|------------|--------------------------|---------------|
| 1 1/4" Nominal (1.660" OD) 4.19 N-80 1 1/4" MT Tool Joint 1.750" OD x 0.750" ID | Optimum Make-Up Torque | 650 Ft/Lbs | Minimum Internal Yield | 26,988 PSI |
| | Collapse Pressure | | Pipe Body Torsional Load | 1,250 Ft/Lbs |
| | Tension Yield | 97,200 Lbs | Threads Off Average | Not Available |

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|---|------------------------|------------|--------------------------|--------------|
| 1 1/4" Nominal (1.660" OD) 3.17# N-80 1 1/4" MT Tool Joint 1.750" OD x 0.875" ID | Optimum Make-Up Torque | 650 Ft/Lbs | Minimum Internal Yield | 19,084 PSI |
| | Collapse Pressure | | Pipe Body Torsional Load | 1,200 Ft/Lbs |
| | Tension Yield | 72,800 Lbs | Threads Off Average | 31.53 |

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|---|------------------------|---------------|--------------------------|--------------|
| 1 1/4" Nominal (1.660" OD) 2.37# N-80 1 1/4" MT Tool Joint 1.750" OD x 1.000" ID | Optimum Make-Up Torque | 500 Ft/Lbs | Minimum Internal Yield | 13,493 PSI |
| | Collapse Pressure | Not Available | Pipe Body Torsional Load | 1,803 Ft/Lbs |
| | Tension Yield | 53,600 Lbs | Threads Off Average | 31.65 |

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|--|------------------------|---------------|--------------------------|--------------|
| 1 1/4" Nominal (1.660" OD) 3.17# N-80 1 25/32" B-R Tool Joint 1.750" OD x 0.875" ID | Optimum Make-Up Torque | 650 Ft/Lbs | Minimum Internal Yield | 19,084 PSI |
| | Collapse Pressure | Not Available | Pipe Body Torsional Load | 1,200 Ft/Lbs |
| | Tension Yield | 72,800 Lbs | Threads Off Average | 31.76 |

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|--|------------------------|---------------|--------------------------|--------------|
| 1 1/4" Nominal (1.660" OD) 3.24# N-80 1 1/2" MT Tool Joint 2.00" OD x 0.875" ID | Optimum Make-Up Torque | 675 Ft/Lbs | Minimum Internal Yield | 19,084 PSI |
| | Collapse Pressure | Not Available | Pipe Body Torsional Load | 1,200 Ft/Lbs |
| | Tension Yield | 72,800 Lbs | Threads Off Average | 31.20 |

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|---|------------------------|---------------|--------------------------|---------------|
| 1 1/2" Nominal (1.900" OD) 4.05# N-80 1 1/2" MT Tool Joint 2.00" OD x 1.0625" ID | Optimum Make-Up Torque | 850 Ft/Lbs | Minimum Internal Yield | 18,442 PSI |
| | Collapse Pressure | Not Available | Pipe Body Torsional Load | 3,358 Ft/Lbs |
| | Tension Yield | 92,160 Lbs | Threads Off Average | Not Available |

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|---|------------------------|---------------|--------------------------|---------------|
| 1 1/2" Nominal (1.900" OD) 3.55# N-80 1 1/2" MT Tool Joint 2.00" OD x 1.0625" ID | Optimum Make-Up Torque | 750 Ft/Lbs | Minimum Internal Yield | 15,832 PSI |
| | Collapse Pressure | Not Available | Pipe Body Torsional Load | 3,031 Ft/Lbs |
| | Tension Yield | 80,800 Lbs | Threads Off Average | Not Available |
| 1 1/2" (OD 1.900) 3.64# P-110 1 1/2" CS Hydril Connection 2.162" OD x 1.440" ID | Optimum Make-Up Torque | 800 Ft/Lbs | Minimum Internal Yield | 23,000 PSI |
| | Collapse Pressure | 20,700 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 117,500 Lbs | Threads Off Average | Not Available |
| 1 1/2" (OD 1.900) 3.64# N-80 1 1/2" CS Hydril Connection 2.162" OD x 1.440" ID | Optimum Make-Up Torque | 800 Ft/Lbs | Minimum Internal Yield | 16,000 PSI |
| | Collapse Pressure | 15,000 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 85,000 Lbs | Threads Off Average | Not Available |
| 2 1/16" OD 3.25# N-80 2 1/16" 10 RD IJ Connection 2.325" OD x 1.657" ID | Optimum Make-Up Torque | 1,030 Ft/Lbs | Minimum Internal Yield | 10,590 PSI |
| | Collapse Pressure | 11,180 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 71,370 Lbs | Threads Off Average | 32.15 |
| 2 1/16" OD 3.25# N-80 2 1/16" CS Hydril Connection 2.330" OD x 1.700" ID | Optimum Make-Up Torque | 1,012 Ft/Lbs | Minimum Internal Yield | 10,590 PSI |
| | Collapse Pressure | 11,180 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 75,000 Lbs | Threads Off Average | 32.88 |
| 2 1/16" OD 4.5# N-80 2 1/16" CS Hydril Connection 2.337" OD x 1.550" ID | Optimum Make-Up Torque | 1,012 Ft/Lbs | Minimum Internal Yield | 14,700 PSI |
| | Collapse Pressure | 15,480 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 104,000 Lbs | Threads Off Average | 30.85 |
| 2 3/8" OD 4.7# N-80 2 3/8" CS Hydril Connection 2.630" OD x 1.945" ID | Optimum Make-Up Torque | 1,500 Ft/Lbs | Minimum Internal Yield | 11,200 PSI |
| | Collapse Pressure | 11,780 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 104,000 Lbs | Threads Off Average | 29.90 |
| 2 3/8" OD 4.7# N-80 2 3/8" " EUE 8 RD Connection 2.910" OD x 1.995" ID Special Clearance Connection | Optimum Make-Up Torque | 1,800 Ft/Lbs | Minimum Internal Yield | 11,200 PSI |
| | Collapse Pressure | 11,780 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 104,340 Lbs | Threads Off Average | Not Available |
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| 2 3/8" OD 4.7# N-80 2 3/8" EUE 8 RD Connection 3.668" OD x 1.995" ID | Optimum Make-Up Torque | 1,800 Ft/Lbs | Minimum Internal Yield | 11,200 PSI |
| | Collapse Pressure | 11,780 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 104,340 Lbs | Threads Off Average | 32.16 |
| 2 7/8" OD 6.5# N-80 2 7/8" CS Hydril Connection 3.220" OD x 2.375" ID | Optimum Make-Up Torque | 2,362 Ft/Lbs | Minimum Internal Yield | 10,570 PSI |
| | Collapse Pressure | 11,160 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 145,000 Lbs | Threads Off Average | 31.03 |
| 2 7/8" OD 8.7# P-105 2 7/8" PH-6 Hydril Connection 3.500" OD x 2.200" ID | Optimum Make-Up Torque | 3,500 Ft/Lbs | Minimum Internal Yield | 19,610 PSI |
| | Collapse Pressure | 20,090 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 260,800 Lbs | Threads Off Average | Not Available |
| 2 7/8" OD 9.5# L-80 2 7/8" PH-6 Hydril Connection 3.625" OD x 2.130" ID | Optimum Make-Up Torque | 4,500 Ft/Lbs | Minimum Internal Yield | 16,556 PSI |
| | Collapse Pressure | 16,684 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 217,000 Lbs | Threads Off Average | 31.53 |
| 2 7/8" OD 6.5# C-75 2 7/8" CS Hydril Connection 3.220" OD x 2.375" ID | Optimum Make-Up Torque | 2,362 Ft/Lbs | Minimum Internal Yield | 9,910 PSI |
| | Collapse Pressure | 10,470 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 135,900 Lbs | Threads Off Average | Not Available |
| 2 7/8" OD 7.90# P-110 2 7/8" PH-6 Connection 3.668" OD x 2.229" ID | Optimum Make-Up Torque | 3,500 Ft/Lbs | Minimum Internal Yield | 18,480 PSI |
| | Collapse Pressure | 19,090 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 247,900 Lbs | Threads Off Average | Not Available |

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| 2 7/8" OD 8.7# C-75 2 7/8" EUE 8 RD Connection 3.668" OD x 2.259" ID | Optimum Make-Up Torque | 2,850 Ft/Lbs | Minimum Internal Yield | 14,060 PSI |
| | Collapse Pressure | 14,350 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 186,296 Lbs | Threads Off Average | 31.08 |
| 2 7/8" OD 6.5# N-80 2 7/8" EUE 8 RD Connection 3.668 OD x 2.441" ID | Optimum Make-Up Torque | 2,300 Ft/Lbs | Minimum Internal Yield | 10,570 PSI |
| | Collapse Pressure | 11,160 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 144,960 Lbs | Threads Off Average | 32.21 |
| 2 7/8" OD 10.4# Gr. E Drill Pipe 2 7/8" AOH Connection 3.875" OD x 2.156 ID | Optimum Make-Up Torque | 4,495 Ft/Lbs | Minimum Internal Yield | 16,530 PSI |
| | Collapse Pressure | 16,510 PSI | Pipe Body Torsional Load | 138,740 Ft/Lbs |
| | Tension Yield | 214,340 Lbs | Threads Off Average | Not Available |
| 2 7/8" OD 8.7# N-80 2 7/8" AB DSS-HTC Connection 3.510" OD x 2.200" ID | Optimum Make-Up Torque | 3,000 Ft/Lbs | Minimum Internal Yield | 15,000 PSI |
| | Collapse Pressure | 15,300 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 198,710 Lbs | Threads Off Average | 32.08 |
| 2 7/8" OD 6.5# N-80 2 7/8" EUE 8 RD Connection 3.460" OD x 2.441 ID Special Clearance Connection | Optimum Make-Up Torque | 2,300 Ft/Lbs | Minimum Internal Yield | 10,570 PSI |
| | Collapse Pressure | 11,160 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 144,960 Lbs | Threads Off Average | Not Available |
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| 3 1/2" OD 9.3# N-80 3 1/2" EUE 8 RD Connection 4.500" OD x 2.992" ID | Optimum Make-Up Torque | 3,200 Ft/Lbs | Minimum Internal Yield | 10,160 PSI |
| | Collapse Pressure | 10,530 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 207,220 Lbs | Threads Off Average | 31.48 |
| 3 1/2" OD 9.3# N/L-80 3 1/2" EUE 8 RD (Special Clearance Connection) 4.180" OD x 2.992" ID (250 Turn-Down Couplings) | Optimum Make-Up Torque | 3,200 Ft/Lbs | Minimum Internal Yield | 10,160 PSI |
| | Collapse Pressure | 10,530 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 207,220 Lbs | Threads Off Average | 31.50 |
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| 3 1/2" OD 9.3# L-80 3 1/2" CS Hydril Connection 3.915" OD x 2.867" ID | Optimum Make-Up Torque | 3,375 Ft/Lbs | Minimum Internal Yield | 10,160 PSI |
| | Collapse Pressure | 10,530 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 207,220 Lbs | Threads Off Average | Not Available |
| 3 1/2" OD 10.3# C-75 3 1/2" AB II 3SS Connection 3.947" OD x 2.878" ID | Optimum Make-Up Torque | 2,800 Ft/Lbs | Minimum Internal Yield | 10,840 PSI |
| | Collapse Pressure | 11,360 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 173,530 Lbs | Threads Off Average | 31.72 |
| 3 1/2" OD 10.3# P-110 3 1/2" CS Hydril Connection 3.915" OD x 2.797" ID | Optimum Make-Up Torque | 3,375 Ft/Lbs | Minimum Internal Yield | 15,517 PSI |
| | Collapse Pressure | 13,990 PSI | Pipe Body Torsional Load | Not Available |
| | Tension Yield | 307,016 Lbs | Threads Off Average | Not Available |

**PERMIAN PIPE RENTAL
TUBULAR ACCESSORIES INVENTORY LISTING**

Catwalks

36" and 42" Height, Lay-Down and Post
Fold-Over V-Door

Collars

2 7/8" Turn Down Collars
3 1/2" Turn Down Collars
2 3/8" Turn Down Collars

Couplings

2 3/8" N/L 80 Coupling
2 7/8" N/L 80 Coupling
3 1/2" N/L 80 Coupling

Crummies

1" – 1 1/2"

Elevators

1" – 2 1/15" MYT (40 Ton)
2 1/16" – 2 3/8" YT (75 Ton)
2 7/8" – 3 1/2" HYT (150 Ton)

Lift Nubbins

1 1/4" BRT Lift Nubbins
1" MT Lift Nubbins
1 1/4" MT Lift Nubbins
1 25/32" MT Lift Nubbins
1 1/2" MT Lift Nubbins

Matting Boards

4' x 16', 4 1/2" DP Construction

Muleshoe Joints

1" EUE 10 Round 1.80# Thru 1" IJ Kobe 1.72# J-55
1" 1.75 MT Drill Pipe Thru 1 1/4" MT/BR/BOT Drill Pipe
1 1/2" MT Drill Pipe Thru 1 1/2" CS Hydril
2 1/16" CS Hydril Thru 2 1/16" IJ 10 Round
3 1/2"

Pipe Chocks

4" Square

Pipe Racks

36" x 42" Triangular
Float Trailer used as Racks

Protectors

8 Round Pin End
8 Round Box End
Hydril Pin End

Hydril Box End

Pup Joints

2 7/8" EUE & Smaller

3 1/2" EUE

3 1/2" & Smaller Premium

Safety Clamps

1" Safety Clamps

Setting Plates

1" Setting Plate

Sills

10" x 10" x 16', Wood

Slips (Air)

1" – 2 1/16"

2 3/8" – 2 7/8"

3 1/2"

Slips (Manual)

1" – 2 1/16"

2 3/8" – 2 7/8"

3 1/2"

4"

Stabbing Guides

All Sizes

Stripping Boards

Standard Size(s)

Swadges (Downhole)

2 3/8" & Smaller

2 7/8" & Smaller

3 1/2" & Smaller

TIW Valve

2 3/8" or 2 7/8"

3 1/2"

X-Over Subs

2 3/8" & Smaller

2 7/8" & Smaller

3 1/2" & Smaller