

**Extended Reach Work-Over Connection**
**SIZE:** 2.375 inch [60.33 mm]

**WEIGHT:** 5.95 lbm/ft [8.85 kg/m]

**GRADE:** P-110

Hi-Torque, Double-Start, Straight-to-Taper, NJO Hook Thread, Threaded &amp; Coupled Joint

Material Properties	Imperial	Metric
Yield Stress, Minimum (psi [kPa])	110,000	758,423
Yield Stress, Maximum (psi [kPa])	140,000	965,266
Tensile Stress, Minimum (psi [kPa])	125,000	861,845
Hardness, Maximum (HRC [HBW])	N/A	N/A
Pipe Dimensions & Weight		
Outside Diameter, Nominal (in [mm])	2.375	60.33
Weight, Nominal (lbm/ft [kg/m])	5.95	8.85
Wall Thickness, Nominal (in [mm])	0.254	6.45
Inside Diameter, Nominal (in [mm])	1.867	47.42
API Drift Diameter (in [mm])	1.773	45.04
Upset-End Diameter, Nominal (in [mm])	N/A	N/A
Upset-End Length, Minimum (in [mm])	N/A	N/A
Cross Sectional Area, Nominal (sq.in. [sq.mm])	1.692	1091.61
Pipe Load Capacities		
Tensile Yield (lbf [N])	186,100	827,814
Internal Yield Pressure (psi [kPa])	20,590	141,963
Collapse Pressure (psi [kPa])	21,010	144,859
Torsional Yield (lbf-ft [N.m])	8,600	11,660
Hydrostatic Test Pressure (psi [kPa])	10,000	68,948
Bending rate (°/100 ft [°/30 m])	212	209
Connection Dimensions		
Coupling OD (in [mm])	3.092	78.54
Coupling Replacement Limit OD (in [mm])	2.967	75.36
Connection ID (in [mm])	1.805	45.85
Coupling Length, Minimum (in [mm])	7.700	195.58
Make-up Loss (in [mm])	3.441	87.40
Tool-Joint OD (in [mm])	2.905	73.79
Connection Torque Capacities		
Low Shoulder Torque (lbf-ft [N.m])	300	410
High Shoulder Torque (lbf-ft [N.m])	1,500	2,030
Minimum Make-up Torque (lbf-ft [N.m])	2,000	2,710
Optimum Make-up Torque (lbf-ft [N.m])	4,250	5,760
Maximum Make-up Torque (lbf-ft [N.m])	6,500	8,810
Rotating Torque* (lbf-ft [N.m])	8,600	11,660
Yield Torque (lbf-ft [N.m])	9,000	12,200

Connection Load Capacities	
Tensile Efficiency (% of pipe body)	115
Internal Yield Pressure (psi)	40,060
External Yield pressure (psi)	36,260
Leak Resistance Pressure (psi)	radial m2m seal
Compression Efficiency (% of pipe body)	115
Torque Efficiency (% of pipe body)	105
Bending Strength Ratio (BSR)	1.79



\* AS RESTRICTED BY WORKOVER RIG EQUIPMENT (POWER SWIVEL, TOP DRIVE OR ROTARY TABLE)

\*\* Listed Rotating / Yield Torques and Connection Load Capacities have to be recalculated for Special Clearance OD.

Material is EMI/SEA inspected to 5% notch, over OD/ID, long/trans and wall thickness orientations, per API/ASTM requirements.

All the information provided is general data. Depicted colors and markings may differ from actual product. This is not any kind of warranty/quality certificate. Tejas Tubular has the right to change this data at any time for product improvement. This is a non-controlled document. TTRS1, TTRS1-HT, TTXS, TTXS-HT, TTNY, TTNY-HP, TTUS, TTUS-HT, TTUX, TTS-8, TTS-8 CI, TTS-8 CIGL, TTS-8s, TTS-6, TTS6-black, TTIB, TTFJ, TTUJ, TTWS, TTWSs, TTWS2, TTWS-UJ, SABERTOOTH, GOBLIN, EUXT and the Tejas Tubular logo are marks of Tejas Tubular Products, Inc.

**Extended Reach Work-Over Connection**
**SIZE:** 2.875 inch [73.03 mm]

**WEIGHT:** 7.9 lbm/ft [11.76 kg/m]

**GRADE:** P-110

Hi-Torque, Double-Start, Straight-to-Taper, NJO Hook Thread, Threaded &amp; Coupled Joint

Material Properties	Imperial	Metric
Yield Stress, Minimum (psi [kPa])	110,000	758,423
Yield Stress, Maximum (psi [kPa])	140,000	965,266
Tensile Stress, Minimum (psi [kPa])	125,000	861,845
Hardness, Maximum (HRC [HBW])	N/A	N/A
Pipe Dimensions & Weight		
Outside Diameter, Nominal (in [mm])	2.875	73.03
Weight, Nominal (lbm/ft [kg/m])	7.90	11.76
Wall Thickness, Nominal (in [mm])	0.276	7.01
Inside Diameter, Nominal (in [mm])	2.323	59.00
API Drift Diameter (in [mm])	2.229	56.62
Upset-End Diameter, Nominal (in [mm])	N/A	N/A
Upset-End Length, Minimum (in [mm])	N/A	N/A
Cross Sectional Area, Nominal (sq.in. [sq.mm])	2.254	1454.19
Pipe Load Capacities		
Tensile Yield (lbf [N])	247,900	1,102,714
Internal Yield Pressure (psi [kPa])	18,480	127,415
Collapse Pressure (psi [kPa])	19,090	131,621
Torsional Yield (lbf-ft [N.m])	14,160	19,200
Hydrostatic Test Pressure (psi [kPa])	10,000	68,948
Bending rate (°/100 ft [°/30 m])	175	173
Connection Dimensions		
Coupling OD (in [mm])	3.525	89.54
Coupling Replacement Limit OD (in [mm])	3.400	86.36
Connection ID (in [mm])	2.265	57.53
Coupling Length, Minimum (in [mm])	6.800	172.72
Make-up Loss (in [mm])	2.991	75.97
Tool-Joint OD (in [mm])	3.338	84.79
Connection Torque Capacities		
Low Shoulder Torque (lbf-ft [N.m])	300	410
High Shoulder Torque (lbf-ft [N.m])	1,500	2,030
Minimum Make-up Torque (lbf-ft [N.m])	2,000	2,710
Optimum Make-up Torque (lbf-ft [N.m])	4,250	5,760
Maximum Make-up Torque (lbf-ft [N.m])	6,500	8,810
Rotating Torque* (lbf-ft [N.m])	13,800	18,710
Yield Torque (lbf-ft [N.m])	15,300	20,740

Connection Load Capacities	
Tensile Efficiency (% of pipe body)	122
Internal Yield Pressure (psi)	34,400
External Yield pressure (psi)	32,290
Leak Resistance Pressure (psi)	radial m2m seal
Compression Efficiency (% of pipe body)	122
Torque Efficiency (% of pipe body)	108
Bending Strength Ratio (BSR)	1.25



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**Extended Reach Work-Over Connection**
**SIZE:** 2.875 inch [73.03 mm]

**WEIGHT:** 9.5 lbm/ft [14.14 kg/m]

**GRADE:** P-110

Hi-Torque, Double-Start, Straight-to-Taper, NJO Hook Thread, Threaded &amp; Coupled Joint

Material Properties	Imperial	Metric
Yield Stress, Minimum (psi [kPa])	110,000	758,423
Yield Stress, Maximum (psi [kPa])	140,000	965,266
Tensile Stress, Minimum (psi [kPa])	125,000	861,845
Hardness, Maximum (HRC [HBW])	N/A	N/A
Pipe Dimensions & Weight		
Outside Diameter, Nominal (in [mm])	2.875	73.03
Weight, Nominal (lbm/ft [kg/m])	9.50	14.14
Wall Thickness, Nominal (in [mm])	0.340	8.64
Inside Diameter, Nominal (in [mm])	2.195	55.75
API Drift Diameter (in [mm])	2.101	53.37
Upset-End Diameter, Nominal (in [mm])	N/A	N/A
Upset-End Length, Minimum (in [mm])	N/A	N/A
Cross Sectional Area, Nominal (sq.in. [sq.mm])	2.708	1747.09
Pipe Load Capacities		
Tensile Yield (lbf [N])	297,900	1,325,125
Internal Yield Pressure (psi [kPa])	22,770	156,994
Collapse Pressure (psi [kPa])	22,940	158,166
Torsional Yield (lbf-ft [N.m])	16,290	22,090
Hydrostatic Test Pressure (psi [kPa])	10,000	68,948
Bending rate (°/100 ft [°/30 m])	175	173
Connection Dimensions		
Coupling OD (in [mm])	3.525	89.54
Coupling Replacement Limit OD (in [mm])	3.400	86.36
Connection ID (in [mm])	2.265	57.53
Coupling Length, Minimum (in [mm])	6.800	172.72
Make-up Loss (in [mm])	2.991	75.97
Tool-Joint OD (in [mm])	3.338	84.79
Connection Torque Capacities		
Low Shoulder Torque (lbf-ft [N.m])	300	410
High Shoulder Torque (lbf-ft [N.m])	1,500	2,030
Minimum Make-up Torque (lbf-ft [N.m])	2,000	2,710
Optimum Make-up Torque (lbf-ft [N.m])	4,250	5,760
Maximum Make-up Torque (lbf-ft [N.m])	6,500	8,810
Rotating Torque* (lbf-ft [N.m])	13,800	18,710
Yield Torque (lbf-ft [N.m])	15,300	20,740

Connection Load Capacities	
Tensile Efficiency (% of pipe body)	102
Internal Yield Pressure (psi)	34,400
External Yield pressure (psi)	32,290
Leak Resistance Pressure (psi)	radial m2m seal
Compression Efficiency (% of pipe body)	102
Torque Efficiency (% of pipe body)	94
Bending Strength Ratio (BSR)	1.25



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