

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 & 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



* 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.

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