

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])	4.500	114.30
Weight, Nominal (lbm/ft [kg/m])	19.20	28.57
Wall Thickness, Nominal (in [mm])	0.430	10.92
Inside Diameter, Nominal (in [mm])	3.640	92.46
API Drift Diameter (in [mm])	3.515	89.28
Upset-End Diameter, Minimum (in [mm])	N/A	N/A
Upset-End Length, Maximum (in [mm])	N/A	N/A
Cross Sectional Area, Nominal (sq.in. [sq.mm])	5.498	3547.09
Pipe Load Capacities		
Tensile Yield (lbf [N])	604,800	2,690,283
Internal Yield Pressure (psi [kPa])	18,390	126,795
Collapse Pressure (psi [kPa])	19,010	131,069
Torsional Yield, 87.5% Wall (lbf-ft [N.m])	49,120	66,600
Hydrostatic Test Pressure (psi [kPa])	10,000	68,948
Bending rate (°/100 ft [°/30 m])	112	110
Connection Dimensions		
Connection OD (in [mm])	5.313	134.95
Special Clearance** OD (in [mm])	5.021	127.53
Connection ID (in [mm])	3.560	90.42
Tool-Joint Length (in [mm])	9.000	228.60
Make-up Loss (in [mm])	3.340	84.84
Threads per Inch (pitch [mm])	6.000	4.23
Connection Torque Capacities		
Low Shoulder Torque (lbf-ft [N.m])	1,850	2,510
High Shoulder Torque (lbf-ft [N.m])	9,250	12,540
Minimum Make-up Torque (lbf-ft [N.m])	9,500	12,880
Optimum Make-up Torque (lbf-ft [N.m])	10,750	14,580
Maximum Make-up Torque (lbf-ft [N.m])	12,000	16,270
Rotating Torque* (lbf-ft [N.m])	34,700	47,050
Yield Torque (lbf-ft [N.m])	43,400	58,840

* 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. Unless otherwise stated, all torque calculations assume a Friction Factor = 1.0 (this corresponds to a Friction Coefficient of 0.08)

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SIZE: 4.5 inch [114.3 mm]

WEIGHT: 19.2 lbm/ft [28.57 kg/m]

GRADE: P-110

Furnishing 126k YS tool joints, Interchangeable with PH6, BTS6, RTS6, NTS6, WTS6, etc. Can be equipped with hardband(s) on the box or both ends

Connection Load Capacities

Connection Yield Stress, Minimum (psi)	126,000
Tensile Efficiency (% of pipe body)	115
Internal Yield Pressure (% of pipe body)	100
External Yield pressure (psi)	30,310
Leak Resistance Pressure (psi)	radial m2m seal
Compression Efficiency (% of pipe body)	115
Torque Efficiency (% of pipe body)	88
Bending Strength Ratio (BSR)	1.68

