

Gas-tight Two-step Tubing Connection

SIZE: 4.5 inch [114.3 mm]

WEIGHT: 12.75 lbm/ft [18.97 kg/m]

GRADE: L-80

Interchangeable with CS, BTS8, WTS8, etc.

Material Properties	Imperial	Metric
Yield Stress, Minimum (psi [kPa])	80,000	551,581
Yield Stress, Maximum (psi [kPa])	95,000	655,002
Tensile Stress, Minimum (psi [kPa])	95,000	655,002
Hardness, Maximum (HRC [HBW])	23	241
Pipe Dimensions & Weight		
Outside Diameter, Nominal (in [mm])	4.500	114.30
Weight, Nominal (lbm/ft [kg/m])	12.75	18.97
Wall Thickness, Nominal (in [mm])	0.271	6.88
Inside Diameter, Nominal (in [mm])	3.958	100.53
API Drift Diameter (in [mm])	3.833	97.36
Tool Joint Drift Diameter (in [mm])	3.771	95.79
Upset-End Diameter, Minimum (in [mm])	5.039	127.99
Upset-End Length, Minimum (in [mm])	4.750	120.65
Cross Section, Nominal (sq.in. [mm ²])	3.600	2322.58
Pipe Load Capacities		
Tensile Yield (lbf [N])	288,000	1,281,087
Internal Yield Pressure (psi [kPa])	8,430	58,123
Collapse Pressure (psi [kPa])	7,500	51,711
Torsional Yield (lbf-ft [N.m])	27,630	37,460
Hydrostatic Test Pressure (psi [kPa])	7,700	53,090
Bending rate (°/100 ft [°/30 m])	81	80
Connection Dimensions		
Connection OD (in [mm])	4.920	124.97
Special Clearance OD (in [mm])	4.861	123.47
Connection ID (in [mm])	3.865	98.17
Coupling Length, Minimum (in [mm])	N/A	N/A
Make-up Loss (in [mm])	2.890	73.41
Threads per Inch (pitch [mm])	8.000	3.18
Connection Torque Capacities		
Low Shoulder Torque (lbf-ft [N.m])	850	1,150
High Shoulder Torque (lbf-ft [N.m])	4,250	5,760
Minimum Make-up Torque (lbf-ft [N.m])	4,500	6,100
Optimum Make-up Torque (lbf-ft [N.m])	5,100	6,910
Maximum Make-up Torque (lbf-ft [N.m])	5,600	7,590
Rotating Torque (lbf-ft [N.m])	17,200	23,320
Yield Torque (lbf-ft [N.m])	21,500	29,150

Connection Load Capacities	
Tensile Efficiency (% of pipe body)	121
Internal Yield Pressure (% of pipe body)	100
External Yield pressure (psi)	15,320
Leak Resistance Pressure (psi)	radial m2m seal
Compression Efficiency (% of pipe body)	121
Torque Efficiency (% of pipe body)	78
Bending Strength Ratio (BSR)	1.26



Material is EMI/SEA inspected to 10% notch, over OD/ID, long/trans and wall thickness orientations, per API/ASTM requirements

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