TTS-6

Gas-tight Premium Connection

SIZE: 2.875 in. [73.03]
WEIGHT: 7.9 lbm/ft [11.76]
GRADE: P-110
CONNECTION: TTS-6
Two Step Connection

Material Properties	Imperial	Metric
Yield Stress (min) (psi [kPa])	110,000	758,423
Yield Stress (max) (psi [kPa])	140,000	965,266
Tensile Stress (min) (psi [kPa])	125,000	861,845
Hardness (max) (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
Alternate Drift Diameter (in [mm])	N/A	N/A
Cross Section, Nominal (sq.in. [mm2])	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
Hydrostatic Test Pressure (psi [kPa])	10,000	68,948
Connection Dimensions		
Connection OD (in [mm])	3.438	87.33
Connection ID (in [mm])	**2.265**	57.53
Make-up Loss (in [mm])	3.040	77.22
Threads per Inch (pitch [mm])	6	4.23
Connection Torque Capacities		
Minimum Make-up (lbf-ft[N.m])	**3,000**	4,070
Recommended Make-up (lbf-ft [N.m])	**4,300**	5,830
Maximum Make-up (lbf-ft [N.m])	**5,500**	7,460
Recommended Rotating (lbf-ft [N.m])	9,350	12,677
Yield (lbf-ft [N.m])	**11,000**	14,914

Connection Load and Torque capacity values are extrapolated from tested sizes, weights and grades.

Connection Load Capacities	
Tensile Efficiency (% of pipe Body)	100%
Internal Yield Pressure (% of pipe Body)	100%
External yield pressure (% of pipe Body)	100%
Compression Efficiency (% of pipe Body)	100%
Bending rate, Pipe body (º/100 ft)	**175°**

Inspection Criteria: All the material is inspected to 5% Test notch inspection for OD/ID, Long/Trans and wall check per API/ASTM requirements though EMI/SEA.

Definitions

1. Yield Torque - Pressure seal is no more guaranteed.
2. Rotating Torque - Recommended maximum torque when rotating the string, often the Yield Torque with a Safety Factor applied (85% of Yield Torque).
3. Tensile Yield - Maximum weight that can be pulled on the sting.

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