






OWNER  NIGC	PURCHASER  OTC  OTEC	MECHANICAL CALCULATION BOOK @ HYDROTEST CONDITION FOR SPY-2-(1~4)106-EA-101	VENDOR  TASHA	DESIGNER  Sabz Engineering Company شرکت مهندسی سبز
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TUBE THICKNESS VERIFICATION FOR HYDROTEST CONDITION

DESIGN DATA:

P = Design pressure (barg)
T = Design Temperature(°C)
C_a = Tolerance (mm)
C₁ = Corrosion Allowance (mm)
S = Allowable stress (N/mm²)
R_o = Outside Radius (mm)
E = Efficiency
t₁ = Selected Th'k (mm)

106.6
15
0
0
153.27
12.7
1
2.77

Minimum Required Th'k after finning :
 $t = [(P * R_o) / (10 * S * E + 0.4 * P)] + C_1 + C_a$

t = 0.86 mm

t₁ > t ; So The selected Thickness is OK.