TO CALCULATE THE MAXIMUM WORKING
PRESSURE FOR A GIVEN TUBE SIZE & QUALITY:

$$P = 2 \times S \times T \div D$$

WHERE
P = PRESSURE PSI
S = ALLOWABLE STRESS PSI
T = WALL THICKNESS IN mm
D = OUTSIDE DIAMETER IN mm

ALLOWABLE STRESS 304, 316, 321 AND 347
= 18,700 PSI

WEIGHT CALCULATION FOR AUSTENITIC
STAINLESS STEEL TUBE:

WEIGHT IN Kg/Metre = (d-t) x t x 0.02504

WHERE D = O.D. in mm, t= Wall Thickness in mm

N.B. These calculations are for guidance only.