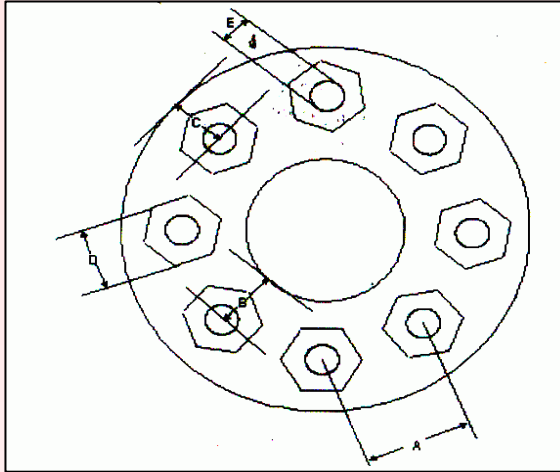


HYDRAULIC TORQUE WRENCH APPLICATION CHECKLIST FOR FLANGES



A:CENTER OF ONE BOLT TO THE NEXT _____
B:CENTER OF BOLT TO THE INSIDE _____
C:CENTER OF BOLT TO THE OUTSIDE _____
D:SIZE OF NUT FROM FLAT TO FLAT _____
E:DIAMETER OF STUD _____
*****NUMBER OF BOLTS _____

TOP SIDE OF FLANGE

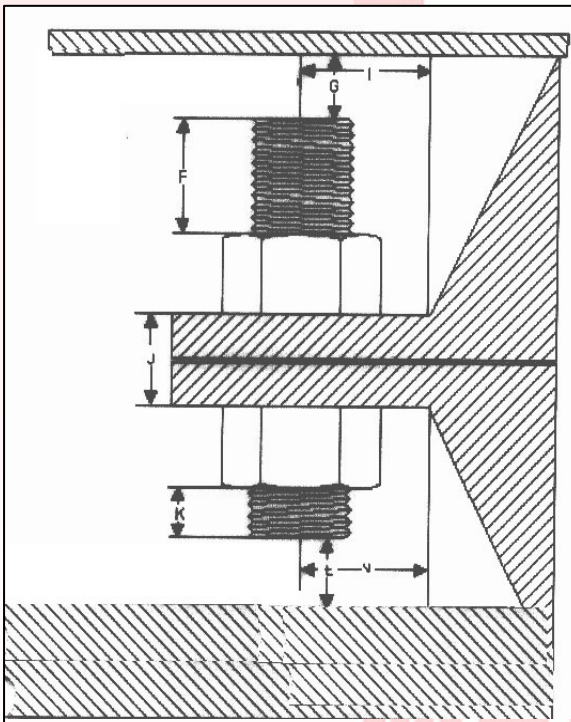
F:LENGTH OF STUD ABOVE NUT _____
G:VERTICAL CLEARANCE ABOVE STUD _____
I:HORIZONTAL CLEARANCE TO INSIDE _____
J:GRIP LENGTH LENGTH _____

BOTTOM SIDE OF FLANGE

K:LENGTH OF STUD BELOW NUT _____
L:VERTICAL CLEARANCE BELOW STUD _____
N:HORIZONTAL CLEARANCE TO INSIDE _____

ESSENTIAL INFORMATION

- 1) TYPE OF LUBRICANT BEING USED DURING TIGHTENING ON THREAD & NUT UNDER FACE? _____
- 2) TIGHTENING TORQUE _____
 OR
 BOLT / JOINT DATA _____
 - a) BOLT PROPERTY GRADE. _____
 - b) BOLT LOADING AS PERCENTAGE OF YEILD OR ABSOLUTE VALUE IN KGF. _____
 - c) WHETHER A GASKET JOINT OR HARD METAL TO METAL JOINT? IF GASKET THEN WHETHER SOFT OR HARD GASKET IS BEING USED? _____



ANY RESTRICTION ON SIDES e.g. STAYS. IF SO, THEN A PHOTOGRAPH MAY BE PROVIDED.