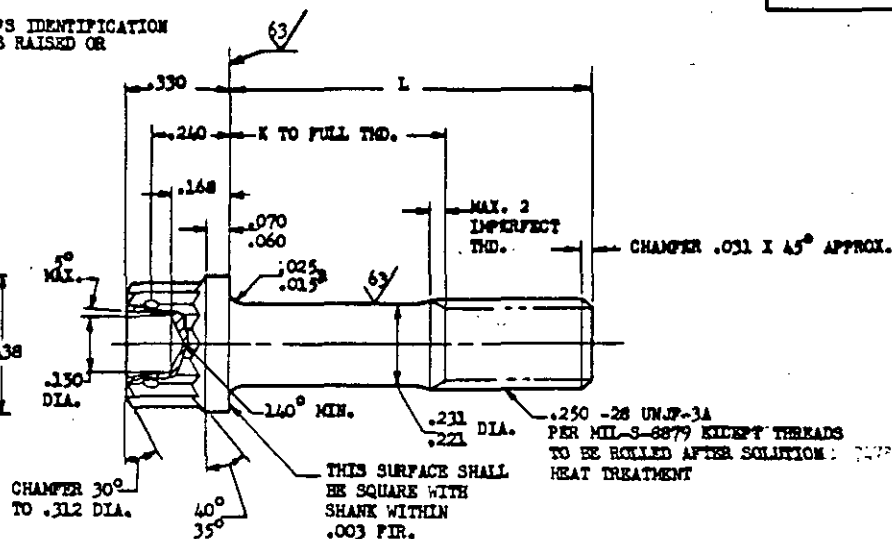
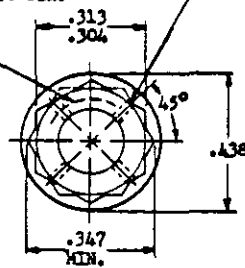


MS21289 AND MANUFACTURER'S IDENTIFICATION
.047 MIN. HIGH CHARACTERS RAISED OR
DEPRESSED .010 MAX.

.070 DIA. 4 HOLES
EQUALLY SPACED AS
SHOWN CHK 90° TO
.100 DIA.



☆ U.S. GOVERNMENT PRINTING OFFICE: 1981 — 703-023/7483

SECTION THRU THREAD PROFILE

| PART NO. | L | K +.000 -.060 | APPROX. WEIGHT LB/100 | PART NO. | L | K +.000 -.060 | APPROX. WEIGHT LB/100 | PART NO. | L | K +.000 -.060 | APPROX. WEIGHT LB/100 |
|------------|-------|---------------------|-----------------------------|------------|-------|---------------------|-----------------------------|------------|-------|---------------------|-----------------------------|
| MS21289-05 | .438 | (a) | 1.22 | MS21289-23 | 1.562 | .812 | 2.50 | MS21289-41 | 3.625 | 2.875 | 4.85 |
| MS21289-06 | .500 | (a) | 1.29 | MS21289-24 | 1.625 | .875 | 2.57 | MS21289-42 | 3.750 | 3.000 | 4.99 |
| MS21289-07 | .562 | (a) | 1.36 | MS21289-25 | 1.688 | .938 | 2.64 | MS21289-43 | 3.875 | 3.125 | 5.13 |
| MS21289-08 | .625 | (a) | 1.44 | MS21289-26 | 1.750 | 1.000 | 2.72 | MS21289-44 | 4.000 | 3.250 | 5.27 |
| MS21289-09 | .688 | (a) | 1.51 | MS21289-27 | 1.875 | 1.125 | 2.86 | MS21289-45 | 4.125 | 3.375 | 5.42 |
| MS21289-10 | .750 | (a) | 1.58 | MS21289-28 | 2.000 | 1.250 | 3.00 | MS21289-46 | 4.250 | 3.500 | 5.56 |
| MS21289-11 | .812 | (a) | 1.65 | MS21289-29 | 2.125 | 1.375 | 3.14 | MS21289-47 | 4.375 | 3.625 | 5.71 |
| MS21289-12 | .875 | .125 | 1.72 | MS21289-30 | 2.250 | 1.500 | 3.29 | MS21289-48 | 4.500 | 3.750 | 5.85 |
| MS21289-13 | .938 | .188 | 1.79 | MS21289-31 | 2.375 | 1.625 | 3.43 | MS21289-49 | 4.625 | 3.875 | 6.00 |
| MS21289-14 | 1.000 | .250 | 1.86 | MS21289-32 | 2.500 | 1.750 | 3.57 | MS21289-50 | 4.750 | 4.000 | 6.14 |
| MS21289-15 | 1.062 | .312 | 1.93 | MS21289-33 | 2.625 | 1.875 | 3.71 | MS21289-51 | 4.875 | 4.125 | 6.29 |
| MS21289-16 | 1.125 | .375 | 2.00 | MS21289-34 | 2.750 | 2.000 | 3.85 | MS21289-52 | 5.000 | 4.250 | 6.43 |
| MS21289-17 | 1.188 | .438 | 2.08 | MS21289-35 | 2.875 | 2.125 | 4.00 | MS21289-53 | 5.125 | 4.375 | 6.56 |
| MS21289-18 | 1.250 | .500 | 2.15 | MS21289-36 | 3.000 | 2.250 | 4.14 | MS21289-54 | 5.250 | 4.500 | 6.70 |
| MS21289-19 | 1.312 | .562 | 2.22 | MS21289-37 | 3.125 | 2.375 | 4.29 | MS21289-55 | 5.375 | 4.625 | 6.84 |
| MS21289-20 | 1.375 | .625 | 2.29 | MS21289-38 | 3.250 | 2.500 | 4.43 | MS21289-56 | 5.500 | 4.750 | 6.99 |
| MS21289-21 | 1.438 | .688 | 2.36 | MS21289-39 | 3.375 | 2.625 | 4.58 | MS21289-57 | 5.625 | 4.875 | 7.13 |
| MS21289-22 | 1.500 | .750 | 2.43 | MS21289-40 | 3.500 | 2.750 | 4.72 | MS21289-58 | 5.750 | 5.000 | 7.28 |
| | | | | | | | | MS21289-59 | 5.875 | 5.125 | 7.42 |
| | | | | | | | | MS21289-60 | 6.000 | 5.250 | 7.57 |

(a) THREAD TO HEAD. MAXIMUM TWO IMPERFECT THREADS. EXCEPT INCOMPLETE THREADS NOT TO ENTER FILLET RADIUS.

- NOTE: (1) SHANK SHALL BE STRAIGHT WITHIN .003 FIR. PER INCH OF BOLT LENGTH.
(2) THE CONCENTRICITY OF THREAD PD IN RELATION TO THE SHANK SHALL BE WITHIN .006 FIR.
(3) THE CONCENTRICITY OF THE SHANK IN RELATION TO THE WASHER FACE DIAMETER AND DOUBLE HEXAGON OD SHALL BE WITHIN .013 FIR.

MATERIAL: CORROSION AND HEAT RESISTANT STEEL AMS 5735

MANUFACTURING SPECIFICATION: AMS 7478 EXCEPT HEADS TO BE FORMED BY HOT OR COLD UPSETTING.

PART SUBJECT TO FLUORESCENT PENETRANT INSPECTION PER AMS 2645.

SURFACE ROUGHNESS: MIL-STD-10 UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES.

BREAK SHARP EDGES .003-.015 UNLESS OTHERWISE SPECIFIED.

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED; TOLERANCES: LINEAR DIMENSIONS $\pm .010$, ANGULAR DIMENSIONS $\pm 5^\circ$.
DO NOT USE UNASSIGNED PART NUMBERS.

© CANCELLED AFTER 15 SEPT 1981.
NO SUPERSEDING STANDARD.

| | | |
|-----------------------------------|---|-------------------|
| P.A. Navy - Wep | TITLE | MILITARY STANDARD |
| Other Cust Air Force - ASD | BOLT, MACHINE - STEEL, DRILLED DOUBLE HEXAGON, EXTENDED WASHER, .250-28 (8) (MIL-S-8879 THREAD) | MS21289 (ASG) |
| PROCUREMENT SPECIFICATION NONE | SUPERSEDES: | SHEET 1 OF 1 |