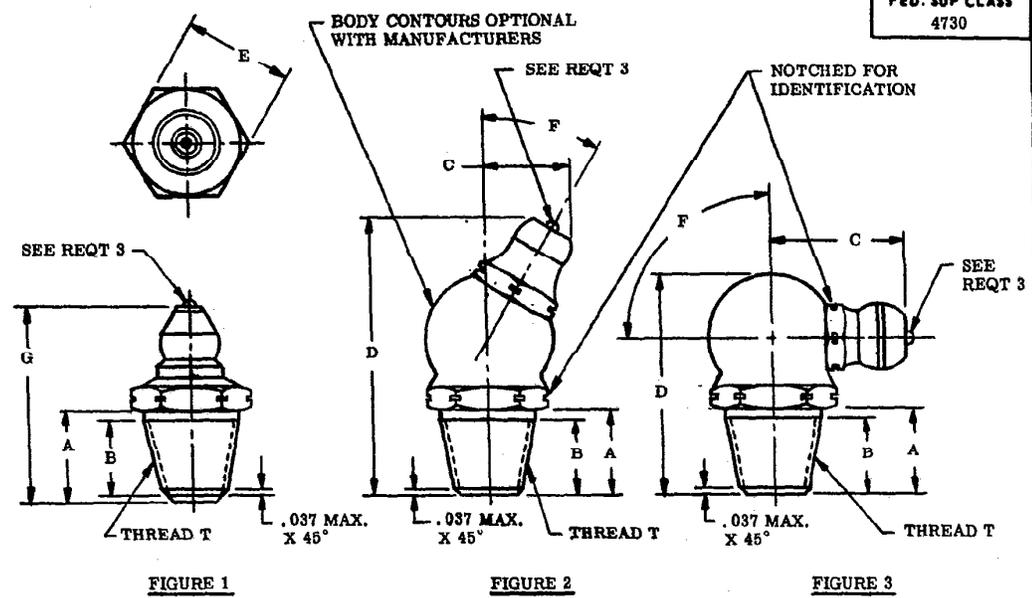


USER SYMBOLS:  
REVIEWER SYMBOLS:



- REQUIREMENTS:**
- MATERIAL: NICKEL-COPPER ALLOYS QQ-N-281, ~~AND QQ-N-282~~ (E)
  - SEE TABLE:
    - PIPE THREAD SHALL BE MODIFIED (DRYSEAL) TAPER PIPE THREAD, NPTF, IN ACCORDANCE WITH FED-STD-H28/8, SCREW THREAD STANDARDS FOR FEDERAL SERVICES, EXCEPT THAT LENGTH OF EFFECTIVE THREAD L2 IS SHORTENED BY ONE THREAD ON SMALL END AND ONE THREAD ON LARGE END. SMALL END OF THREAD SHALL GAGE FROM FLUSH TO MINUS ONE AND ONE-HALF TURNS FROM SMALL END OF DRYSEAL (NPTF-L1) THIN RING GAGE. WIDTH OF FLAT ON THREAD CREST MAY BE .007 MAXIMUM.
    - EFFECTIVE THREADS.
  - SURFACE OR THROAT CHECK OPTIONAL.
  - ACCEPTABLE TIP DESIGN - IN ACCORDANCE WITH STANDARD MS15000.

| MS PART NO. | FIG. | (a)<br>THREAD<br>T | A<br>± .031 | (b)<br>B<br>MIN | C<br>MAX | D<br>MAX | E<br>+.001<br>-.003 | F    | G<br>± .062 |
|-------------|------|--------------------|-------------|-----------------|----------|----------|---------------------|------|-------------|
| MS15005-1   | 1    | 1/8                | .312        | .188            | --       | --       | .438                | --   | .780        |
| MS15005-2   |      |                    |             |                 | --       | --       |                     | --   | 1.125       |
| MS15005-3   | 2    | 1/8                | .312        | .188            | .375     | 1.250    | .438                | 30°  | --          |
| MS15005-4   |      |                    |             |                 | --       | 1.084    |                     | 65°  | --          |
| MS15005-5   | 3    | 1/8                | .312        | .188            | .625     | 1.063    | .438                | 90°  | --          |
| MS15005-6   |      |                    |             |                 | --       | 1.312    |                     | 105° | --          |

- NOTES:**
- DIMENSIONS ARE IN INCHES.
  - UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ±5°.
  - THESE FITTINGS, BECAUSE OF SHORTAGE OF THE CRITICAL MATERIAL INVOLVED, ARE TO BE USED ONLY WHEN IN DIRECT CONTACT WITH, OR SUBMERGED IN, SEA WATER.
  - REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BIDS, OR REQUEST FOR PROPOSAL EXCEPT THAT REFERENCED ADOPTED INDUSTRY DOCUMENTS SHALL GIVE THE DATE OF THE ISSUE ADOPTED.
  - FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.
  - SIZE -6 FITTINGS ARE INACTIVE FOR DESIGN. SIZE -5 MAY BE USED AS A REPLACEMENT.

(E) DENOTES CHANGES

This military standard is approved for use by all Departments & Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

APPROVED 12 JUN 51 REVISED 10 DEC 76 3 MAR 77 12 FEB 82

|   |  |                   |
|---|--|-------------------|
| P.A.<br>NAVY - AS<br>Other Cust<br><br>ARMY - AR<br>USAF - 11 | TITLE  | MILITARY STANDARD |
|   | FITTINGS, LUBRICATION, THROAT OR SURFACE CHECK,<br>1/8 PIPE THREADS, NICKEL-COPPER ALLOY, TYPE V | MS15005           |
| PROCUREMENT SPECIFICATION<br>MIL-F-3641                       | SUPERSEDES:  | SHEET 1 OF 1      |