INCH-POUND

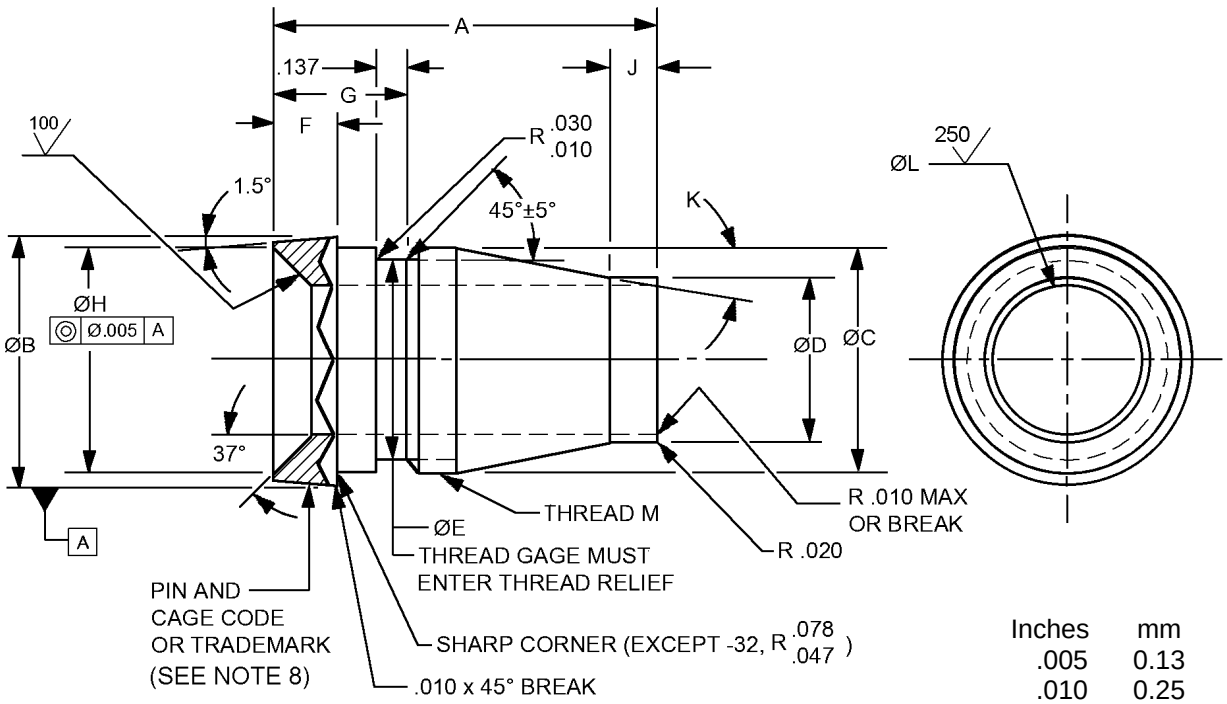
MS24589C
14 May 2007
SUPERSEDING
MS24589B
22 September 2000

DETAIL SPECIFICATION SHEET

NIPPLE, ADAPTER, HOSE TO TUBE, REUSABLE, HYDRAULIC, FUEL AND OIL LINES, 1 THROUGH 2 INCHES TUBING SIZES

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-5070.



Inches	mm
.005	0.13
.010	0.25
.030	0.76
.047	1.19
.078	1.98
.137	2.54

FIGURE 1. Nipple dimensions and configuration.

Dash number	A inches (mm)	B inches (mm)	C inches (mm)	D inches (mm)	E inches (mm)	F inches (mm)	G inches (mm)	H inches (mm)	J inches (mm)
-16	2.146 (54.51) 2.126 (54.00)	1.224 (31.09) 1.218 (30.94)	1.061 (26.95) 1.052 (26.72)	.900 (22.86) .890 (22.61)	.990 (25.15) .980 (24.89)	.363 (9.22) .358 (9.09)	.692 (17.58)	1.118 (28.40) 1.088 (27.64)	.200 (5.08)
-20	2.372 (60.25) 2.352 (59.74)	1.536 (39.01) 1.530 (38.86)	1.311 (33.30) 1.302 (33.07)	1.125 (28.58) 1.115 (28.32)	1.235 (31.37) 1.225 (31.12)	.380 (9.65) .370 (9.40)	.746 (18.95)	1.425 (36.20) 1.395 (35.43)	.200 (5.08)
-24	2.503 (63.58) 2.483 (63.07)	1.786 (45.36) 1.781 (45.24)	1.561 (39.65) 1.552 (39.42)	1.360 (34.54) 1.350 (34.29)	1.500 (38.10) 1.480 (37.59)	.436 (11.07) .426 (10.82)	.814 (20.68)	1.640 (41.66) 1.610 (40.89)	.150 (3.81)
-32	3.094 (78.59) 3.074 (78.08)	2.410 (61.21) 2.405 (61.09)	1.998 (50.75) 1.990 (50.55)	1.830 (46.48) 1.820 (46.23)	1.935 (49.15) 1.915 (48.64)	.536 (13.61) .526 (13.36)	.940 (23.88)	2.255 (57.28) 2.225 (56.52)	.200 (5.08)

Dash number	K ±.25º	L inches (mm)	M	PD
-16	5°	.815 (20.70)	1.062-18 UNEF-2A	---
-20	5°	1.047 (26.59)	1.312-18 UNEF-2A	---
-24	5°	1.281 (32.54)	1.562-18 UNEF-2A	---
-32	4°	1.750 (44.45)	2.000-18 UNS-2A (see note 7)	1.9624 1.9573

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are as follows: angles ±.5°; decimals ±.005 (0.13 mm).
4. Unless otherwise specified, maximum surface roughness shall be 125 μin R_a in accordance with ASME B46.1
5. Threads shall be in accordance with MIL-S-7742.
6. Break all sharp edges and remove all hanging burrs and slivers.
7. Pitch diameter.
8. Part or Identifying Number (PIN).

FIGURE 1. Nipple dimensions and configuration - Continued.

REQUIREMENTS:

Dimensions and configurations: The design, construction, and physical dimensions shall be in accordance with MIL-DTL-5070 and figure 1 in case of conflict between this drawing and MIL-DTL-5070, this drawing shall govern.

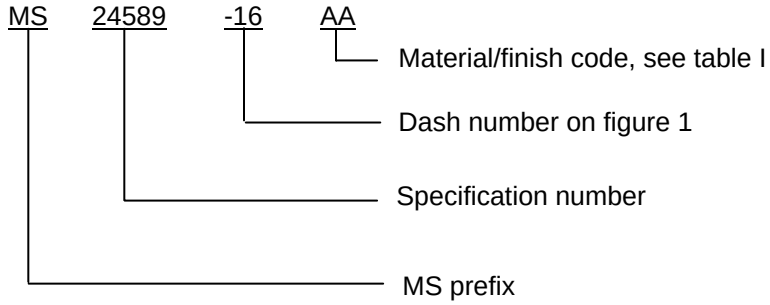
Intended use. This part is a component of MS24587.

Material: Aluminum shall be in accordance with MIL-DTL-5070.

Finish. Finish shall be in accordance with MIL-DTL-5070.

Color identification: Color identification shall be accordance with MIL-DTL-5070.

Part or Identifying Number (PIN) example:



PIN example:

TABLE I. Code for material and finish.

Code	Dash size	Material/finish
AA	-16 through -32	Aluminum – anodic coating

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue, due to the extent of the changes.

Referenced documents: In addition to MIL-DTL-5070, this document references the following:

ASME B46.1
MIL-S-7742
MS24587

CONCLUDING MATERIAL

Custodians:
Army - AT
Navy - AS
Air Force - 99
DLA - CC

Preparing activity:
DLA - CC

(Project 4730-2005-039)

Review activities:
Army - AV
Navy - MC, SA
Air Force - 11, 71

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at http://assist.daps.dla.mil.