INCH-POUND

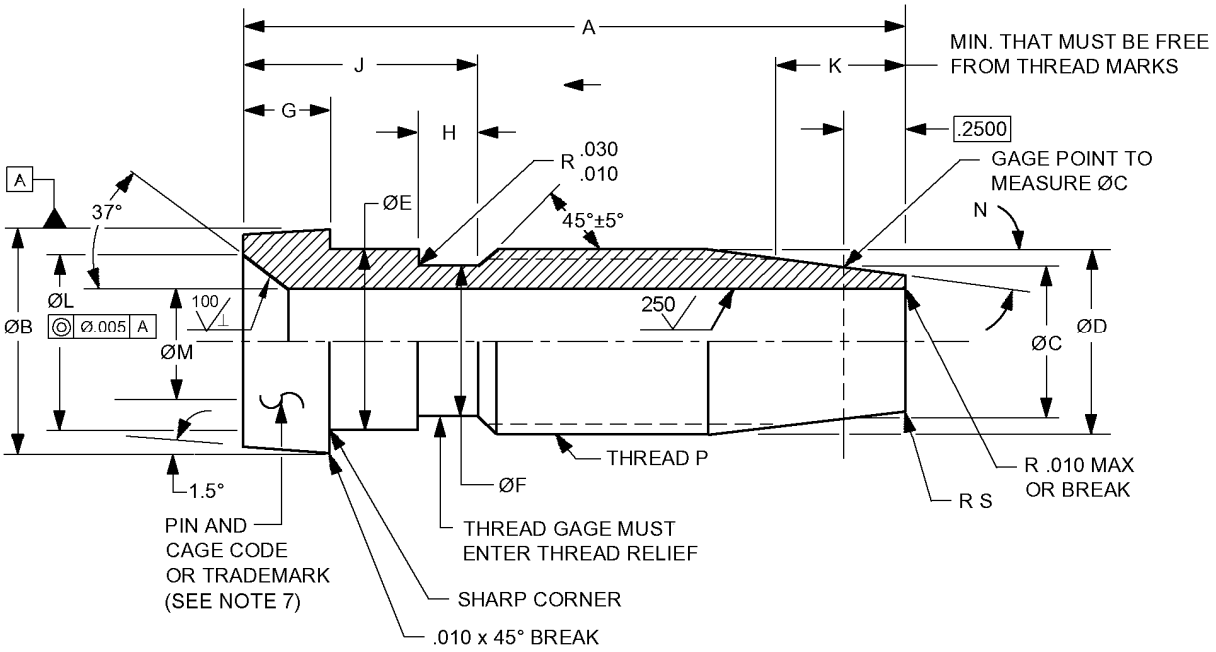
MS24588C
14 May 2007
SUPERSEDING
MS24588B
22 September 2000

DETAIL SPECIFICATION SHEET

NIPPLE, ADAPTER, HOSE TO TUBE, REUSABLE, HYDRAULIC, FUEL AND OIL LINES, 3/16 THROUGH 3/4 INCH 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
.2500	0.635

FIGURE 1. Nipple dimension 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)
-3	1.275 (32.39) 1.255 (31.88)	.326 (8.28) .321 (8.15)	.185 (4.70) .180 (4.57)	.234 (5.94) .228 (5.79)	.235 (5.97) .227 (5.77)	.203 (5.16) .198 (5.03)	.188 (4.78) .183 (4.65)	.093 (2.36)	.495 (12.57)
-4	1.305 (33.15) 1.285 (32.64)	.379 (9.63) .374 (9.50)	.243 (6.17) .237 (6.02)	.281 (7.14) .275 (6.99)	.291 (7.39) .283 (7.19)	.250 (6.35) .245 (6.22)	.183 (4.65) .178 (4.52)	.093 (2.36)	.490 (12.45)
-5	1.450 (36.83) 1.430 (36.32)	.442 (11.23) .437 (11.10)	.308 (7.82) .302 (7.67)	.365 (9.27) .357 (9.07)	.368 (9.35) .360 (9.14)	.329 (8.36) .324 (8.23)	.199 (5.05) .194 (4.93)	.107 (2.72)	.565 (14.35)
-6	1.665 (42.29) 1.645 (41.78)	.504 (12.80) .499 (12.67)	.368 (9.35) .362 (9.19)	.421 (10.69) .414 (10.52)	.429 (10.90) .421 (10.69)	.388 (9.86) .383 (9.73)	.223 (5.66) .218 (5.54)	.107 (2.72)	.605 (15.37)
-8	1.943 (49.35) 1.923 (48.84)	.684 (17.37) .679 (17.25)	.463 (11.76) .457 (11.61)	.5625 (14.29) .5540 (14.07)	.563 (14.30) .555 (14.10)	.521 (13.23) .516 (13.11)	.296 (7.52) .291 (7.39)	.126 (3.20)	.683 (17.35)
-10	2.100 (53.34) 2.080 (52.83)	.800 (20.32) .795 (20.19)	.579 (14.71) .573 (14.55)	.6875 (17.46) .6790 (17.25)	.692 (17.58) .684 (17.37)	.646 (16.41) .641 (16.28)	.312 (7.92) .307 (7.80)	.126 (3.20)	.730 (18.54)
-12	2.424 (61.57) 2.404 (61.06)	.975 (24.77) .970 (24.64)	.690 (17.53) .682 (17.32)	.8125 (20.64) .8030 (20.40)	.814 (20.68) .806 (20.47)	.740 (18.80) .735 (18.67)	.300 (7.62) .295 (7.49)	.150 (3.81)	.714 (18.14)

FIGURE 1. Nipple dimension and configuration - Continued.

Dash number	K inches (mm)	L inches (mm)	M inches (mm)	N ±.25°	P (see note 5)	PD	S inches (mm)
-3	.270 (6.86)	.255 (6.48) .235 (5.97)	.128 (3.25) .123 (3.12)	5°	.234-32 UNS-2A	.2131 .2100	.010 (.25) .005 (.13)
-4	.200 (5.08)	.305 (7.75) .285 (7.24)	.175 (4.45) .170 (4.32)	4.5°	.281-32 UNS-2A	.2597 .2565	.015 (.38) .009 (.23)
-5	.280 (7.11)	.365 (9.27) .345 (8.76)	.237 (6.02) .232 (5.89)	4°	.365-28 UNS-2A	.3398 .3365	.020 (.51) .010 (.25)
-6	.260 (6.60)	.445 (11.30) .425 (10.80)	.300 (7.62) .295 (7.49)	4°	.421-28 UNS-2A	.3968 .3932	
-8	.480 (12.19)	.580 (14.73) .560 (14.22)	.394 (10.01) .390 (9.91)	4.5°	.562-24 UNEF-2A	---	
-10	.515 (13.08)	.690 (17.53) .670 (17.02)	.488 (12.40) .484 (12.29)	5°	.687-24 UNEF-2A	---	
-12	.590 (14.99)	.860 (21.84) .840 (21.34)	.612 (15.54) .608 (15.44)	4°	.812-20 UNEF-2A	---	

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 inch (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. Part or Identifying Number (PIN).

FIGURE 1. Nipple dimension 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.

Materials: Materials 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.

PIN example:

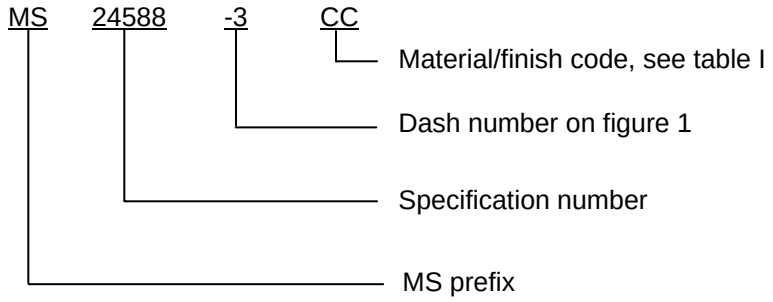


TABLE I. Code for material and finish.

Code	Dash size	Material/finish
CC	-3 thru -6	Carbon Steel – cadmium plating
CZ	-3 thru -6	Carbon steel – zinc plating
SS	-3 through -6	Corrosion resistant steel - N/A
AA	-8 through -12	Aluminum – anodic coating
TA	-3 through -12	Titanium - Anodized or fluoride phosphated.

To the users of this document, it is recommended that the use of carbon steel material with cadmium plating be used only when the other materials and finishes specified in this document cannot meet performance requirements.

Marking: The manufacturer's Commercial and Government Entity (CAGE) Code or trademark shall be permanently marked on the nipple, see figure 1, or on a removable tag securely attached to the nipple.

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:

MIL-S-7742
MS24587
ASME B46.1

CONCLUDING MATERIAL

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

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

Preparing activity:
DLA - CC

(Project 4730-2005-038)

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.