INCH-POUND

MS24587E
14 May 2007
SUPERSEDING
MS24587D
22 September 2000

DETAIL SPECIFICATION SHEET

ADAPTER ASSEMBLY, STRAIGHT, HOSE TO TUBE, REUSABLE, HYDRAULIC, FUEL AND OIL LINES

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.

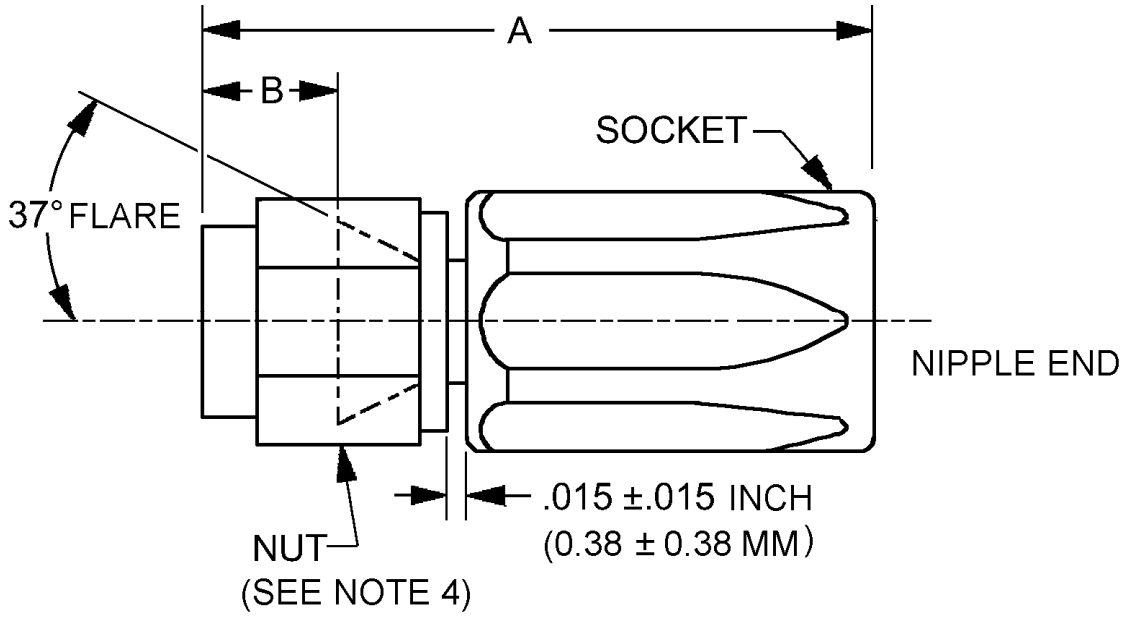

FIGURE 1. Straight adapter dimensions and configuration.

Dash number	Hose ID (ref) inches (mm)	Tubing OD (ref) inches (mm)	Nipple PIN (see note 6) MS24588	Socket PIN MS24590	Nut PIN AN818	A (max) inches (mm)	B inches (mm)
-3 (see note 5)	.125 (3.18)	.188 (4.78)	-3	-3	-3	1.68 (42.67)	.320 (8.13) ±.016 (.41)
-4	.188 (4.78)	.250 (6.35)	-4	-4	-4	1.80 (45.72)	.375 (9.53) ±.030 (.76)
-5	.250 (6.35)	.313 (7.95)	-5	-5	-5	1.96 (49.78)	
-6	.313 (7.95)	.375 (9.53)	-6	-6	-6	2.10 (53.34)	
-8	.406 (10.31)	.500 (12.70)	-8	-8	-8D	2.58 (65.53)	.438 (11.13) ±.030 (.76)
-10	.500 (12.70)	.625 (15.88)	-10	-10	-10D	2.85 (72.39)	.515 (13.08) ±.030 (.76)
-12	.625 (15.88)	.750 (19.05)	-12	-12	-12D	3.20 (81.28)	.562 (14.27) ±.030 (.76)
			MS24589	MS24591			
-16	.875 (22.23)	1.000 (25.40)	-16	-16	-16D	2.87 (72.90)	.620 (15.75) ±.030 (.76)
-20	1.125 (28.58)	1.250 (31.75)	-20	-20	-20D	3.05 (77.47)	
-24	1.375 (34.93)	1.500 (38.10)	-24	-24	-24D	3.34 (84.84)	.765 (19.43) ±.030 (.76)
-32	1.813 (46.05)	2.000 (50.80)	-32	-32	-32D	4.08 (103.63)	.937 (23.80) ±.030 (.76)

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are as follows: Angles ±1°; decimals ±.005 inch (0.13 mm).
4. Nut must swivel freely after assembly.
5. Size -3 shall not be used in hydraulic applications.
6. Part or Identifying Number (PIN).

FIGURE 1. Straight adapter 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 assembly is designed for use only with hose in accordance with MIL-DTL-8794.

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:

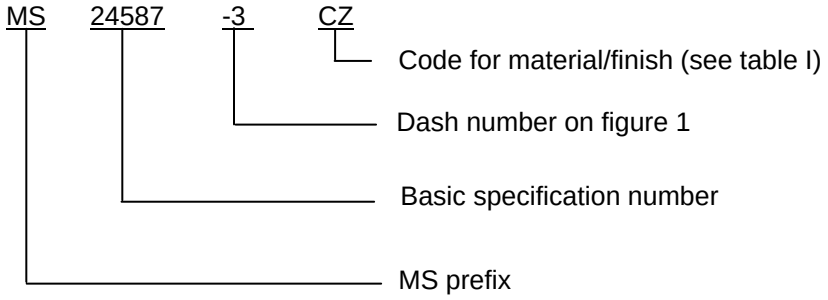

TABLE I. Code for material and finish.

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 -32	Aluminum – anodic coating
TA	-3 through -32	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.

Identification of product. The PIN and the manufacturer's Commercial and Government Entity (CAGE) Code or trademark shall be marked on a removable tag securely attached to the assembly.

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:

AN818 MS24590
MS24588 MS24591
MS24589 MIL-DTL-8794

CONCLUDING MATERIAL

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

Review activities:
Army - AV
Navy - SA
Air Force - 71

Preparing activity:
DLA - CC

(Project 4730-2005-037)

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.