

INCH-POUND

MS27404A
8 January 2002
SUPERSEDING
MS27404
12 April 1965

DETAIL SPECIFICATION SHEET

ADAPTER, STRAIGHT, REUSABLE, TUBE TO HOSE, LOW PRESSURE

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 the issue of MIL-DTL-38726 listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation.

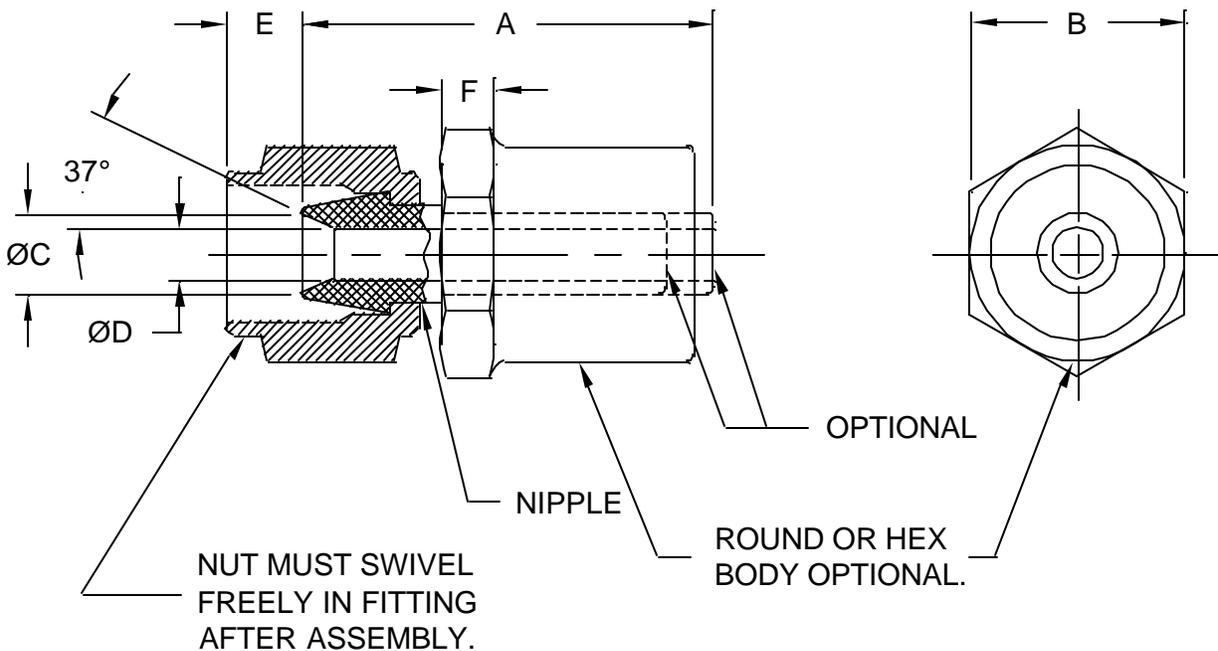


FIGURE 1. Adapter.

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TABLE I. Dimensions.

Size	Tubing OD	A Max	B <u>1/</u> Max	C <u>2/</u> +.005/- .000	D ±.010 Min	E +.016/- .000	F Min	Nut
-2	.125	1.156	.500	.189	.052	.328	.188	AN818-2
-3	.188	1.219	.563	.245	.109	.313	.188	AN818-3
-4	.250	1.250	.625	.295	.156	.344	.188	AN818-4
-6	.375	1.625	.813	.435	.281	.375	.250	AN818-6
-8	.500	1.750	1.000	.570	.375	.422	.250	AN818-8
-10	.625	1.875	1.125	.690	.453	.500	.313	AN818-10

1/ Shall fit standard wrench opening.

2/ Applies to machined parts only. Conical seat to be concentric with OD of nipple within .005 Full Indicator Movement (FIM). When a flared tubing end is used, the flare shall be in accordance with SAE AS4330.

REQUIREMENTS:

1. Material:

- a. 2014-T6 aluminum alloy per SAE AMS4133, 2024-T851 aluminum alloy per SAE AMS-QQ-A-225/6, or 7075-T73 aluminum alloy per SAE AMS-QQ-A-225/9 or SAE AMS4141.
- b. 4130 steel per SAE AMS-S-6758 or 4140 steel per SAE AMS6382 or SAE AMS6349.

2. Finish:

- a. Aluminum alloy: anodize per MIL-A-8625, type II.
- b. Steel: cadmium plate per QQ-P-416, type II, class 2. To the users of this document, it is recommended that the use of steel parts with cadmium plating be used only when other materials and finishes specified in the document cannot meet performance requirements ."

3. Surface roughness shall be as specified in MIL-DTL-38726.

4. Remove all burrs and sharp edges.

5. Adapter assembly shall withstand all tests specified in MIL-DTL-38726 when assembled with hose conforming to MIL-DTL-5593.

NOTES:

1. Dimensioning and tolerancing: ASME Y14.5M.

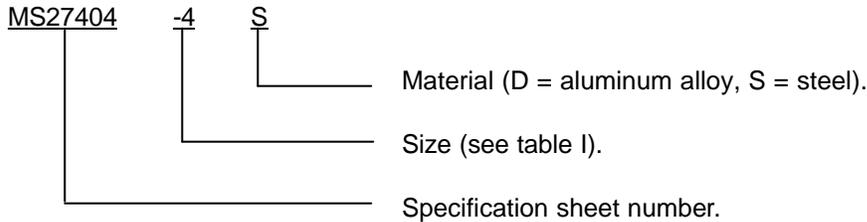
2. Dimensions are in inches. Unless otherwise specified, tolerances: Linear dimensions ±.016, Angular dimensions ±0°30'.

3. For cross-reference purposes, S replaces material code letter P for steel. As an example, MS27404-4P is equivalent to MS27404-4S.

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4. Part or Identifying Number (PIN):

Example of PIN: a steel adapter assembly for .250-inch tubing is described as MS27404-4S.



5. Adapters made to the previous issue may be used for a period of two years from the date of this revision to deplete existing stock.
6. Referenced government documents of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation form a part of this specification sheet to the extent specified herein.
7. For design feature purposes, this specification sheet takes precedence over acquisition documents referenced herein.
8. In the event of a conflict between the text of this specification sheet and the references cited herein, the text of this specification sheet shall take precedence.

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

Preparing activity:
DLA - CC
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Review activities:
Air Force - 71
Army - AV
Navy - MC, SA