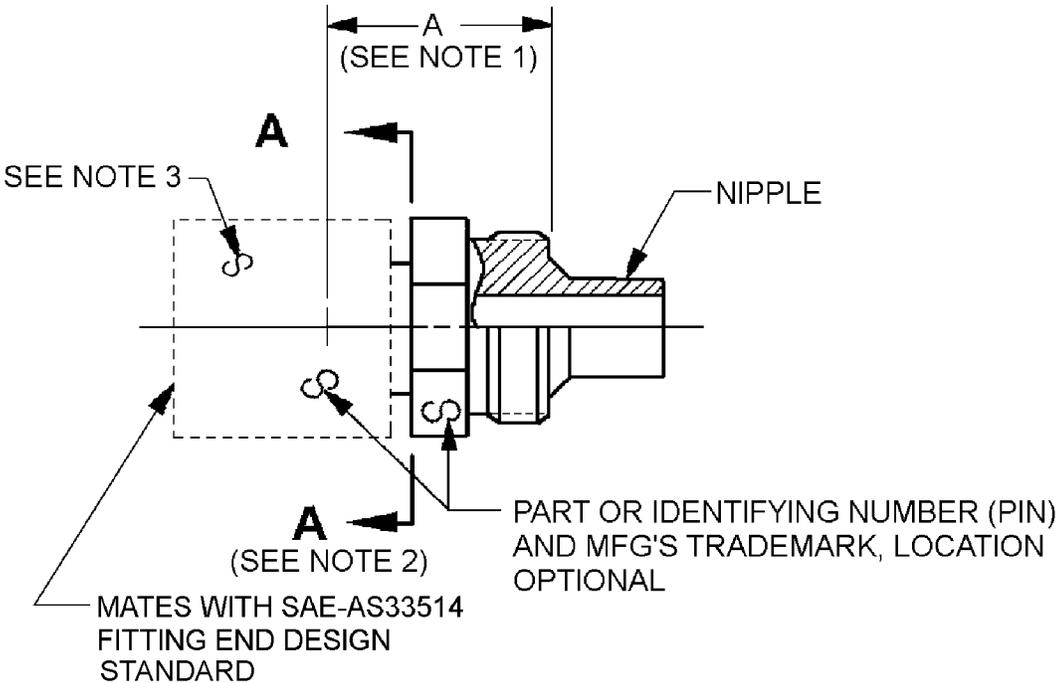


DETAIL SPECIFICATION SHEET

NIPPLE SUBASSEMBLY, FLARELESS, STRAIGHT - WITH SWIVEL NUT

This specification sheet 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-27272.



NOTES:

- 1. Dimension A, see table II, is measured between the hose end of the threaded section at the nipple and the insert at its centerline.
- 2. Any design of adapter components to the left of plane A-A is acceptable provided the dimension A and the requirements of this specification sheet and the procurement specification are met.
- 3. If required lockwire holes to be drilled on this side of subassembly in accordance with SAE-AS1043.

FIGURE 1. Nipple subassembly illustration.

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REQUIREMENTS

Nipple subassembly illustration, see figure 1.

Intended use. This part is a component of MS27381.

Materials. Material and material codes see table I. See applicable specification sheet and MIL-DTL-27272 for material of other components identified in table II for their material requirements.

TABLE I. Materials and material codes.

Material code	Material
Blank	Combination of aluminum alloy and corrosion-resistant steel (CRES)
C	CRES

Finish: Finishes are performed at the component level.

CRES: CRES do not passivate.

Aluminum alloy. Anodize in accordance with MIL-A-8625, type II, dye yellow.

TABLE II. Nipple subassembly composition. 1/ 2/

Size and material code	Nipple size and material code	A ref inch (mm)
	MS27391 3/ 4/	
-3/-4C 5/	-3/4C	.871 (22.12)
-4C	-4C	.825 (20.96)
-5C	-5C	.863 (21.92)
-6C	-6C	.948 (24.08)
-8	-8D	1.087 (27.61)
-8C	-8C	
-10	-10D	1.230 (31.24)
-10C	-10C	
-12	-12D	1.288 (32.72)
-12C	-12C	
-16	-16D	1.434 (36.42)
-16C	-16C	
-20	-20D	1.556 (39.52)
-20C	-20C	
-24	-24D	1.881 (47.78)
-24C	-24C	

1/ Dimensions are in inches.

2/ Metric equivalents are given for general information only.

3/ MS27391 shall be dry-film lubricated in accordance with MS27391, see table III.

4/ Material code "D" aluminum alloy.

5/ Swivel nut and sealing surface of this nipple subassembly shall mate with SAE-AS33514-3 fitting. The remaining portion of the subassembly shall mate with M27267-4 hose.

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If required, lockwire holes to be drilled in accordance with SAE-AS1043.

NOTE: Avoid using graphite dry film lubes with aluminum nipples because in a wet environment, graphite becomes corrosive to the aluminum.

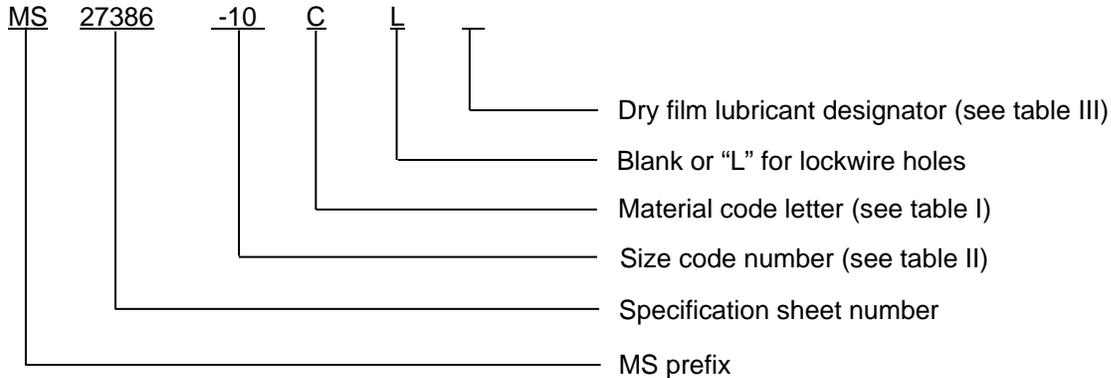
TABLE III. Dry film designator.

Dry film designator	SAE class or type designator	Dry film characteristics
Blank	Any SAE class or type below	Any temp range
SAE-AS1701	SAE-AS1701 class	SAE-AS1701 temperature ranges °F (°C)
4	4	-65° to +1400°F (-54° to 760°C)
5	5	-65° to +850°F (-54° to 454°C)
6	6	-375° to +850°F (-226° to 454°C)
SAE-AS5272	SAE-AS5272 type	SAE-AS5272 temperature ranges. °F (°C)
7	Type I	-90° to 400°F (-68 to 204°C) endurance life of 250 min minimum
8	Type II	-90° to 400°F (-68° to 204°C) endurance life of 450 min minimum
9	Type III	Color 1 - Natural product color -90° to 400°F (-68 to 204°C) low Volatile organic compound with an endurance life of 450 min minimum
10	Type III	Color 2 - Black color -90° to 400°F (-68 to 204°C) low Volatile organic compound with an endurance life of 450 min minimum
Dry film designator	MIL classification	Dry film characteristics
MIL-PRF-46010 1/	---	MIL-PRF-46010 temperature ranges. °F (°C)
11	1	Color 1 natural product color, -90° to 400°F (-68 to 204°C) solvent resisting
12	2	Color 2 - Black color -90° to 400°F (-68 to 204°C) solvent resisting

1/ Not for aerospace usage.

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PIN: The PIN consists of prefix "MS", the specification sheet number, dash number for straight nipple subassembly size, letter for material code, blank or "L" for lockwire, and a number for dry film lubricant. Unassigned PIN's shall not be used.



PIN examples:

- MS27386-10C indicates a straight nipple subassembly size 10, CRES with dry film class designator "blank".
- MS27386-10L indicates a straight nipple subassembly size 10, a combination of aluminum and CRES with lock wire holes with dry film class designator "blank".
- MS27386-10CL4 indicates a straight nipple subassembly size 10, CRES, with lockwire holes, and with dry film class designator 4.

Identification of product. The PIN and the manufacturer's trademark shall be permanently marked on the part.

Order of precedence. Unless otherwise noted herein or in the contract, in the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

Referenced documents shall be of the issue in effect on date of invitations for bid.

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-27272, this document references the following:

MIL-A-8625	SAE-AS1043
MIL-PRF-46010	SAE-AS1701
MS27381	SAE-AS5272
MS27391	SAE-AS33514

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CONCLUDING MATERIAL

Custodians:

Army - AV
Navy - AS
Air Force - 99
DLA - CC

Preparing activity:

DLA - CC

(Project 4730-2013-031)

Review activities:

Army - AR, AT, MI
Navy - MC, SA, SH
Air Force - 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 <https://assist.dla.mil>.