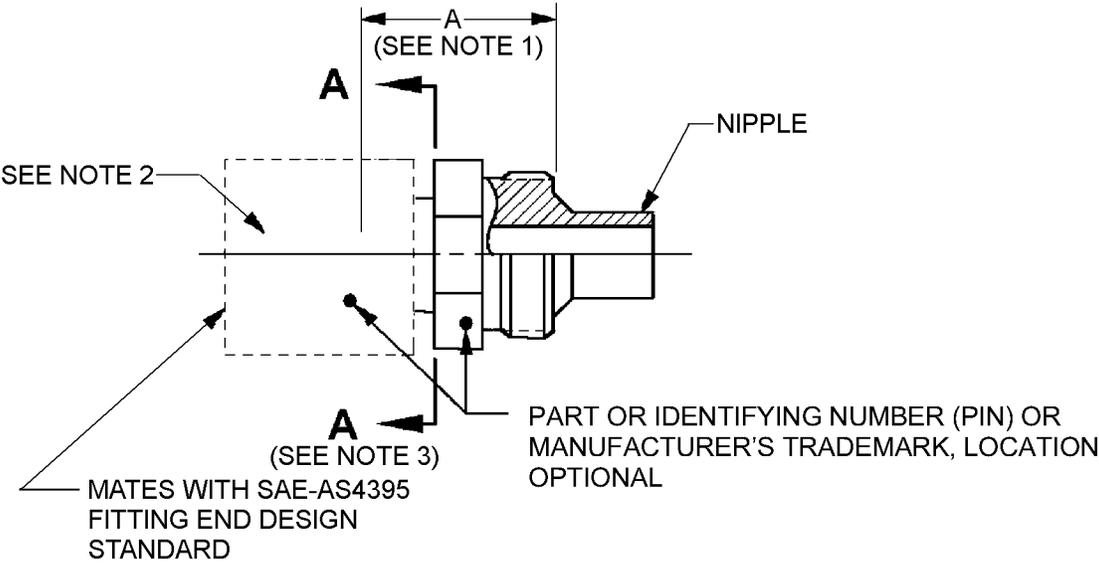


DETAIL SPECIFICATION SHEET

NIPPLE SUBASSEMBLY, FLARED, 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 of the nipple and the free end of the insert at its centerline.
- 2. If required lockwire holes to be drilled on this side of subassembly in accordance with SAE-AS1043.
- 3. Any design of subassembly components to the left of plane A-A is acceptable provided that the requirements of this specification sheet and the procurement specification are met.

FIGURE 1. Nipple subassembly illustration.

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REQUIREMENTS:

Nipple subassembly illustration, see figure 1.

Intended use. This part is a component of MS27053.

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

TABLE II. Nipple subassembly composition. 1/ 2/

Size and material code	Nipple size and material code <u>3/ 4/</u> MS27075	A ref inch (mm)	Size and material code	Nipple size and material code <u>3/ 4/</u> MS27075	A ref inch (mm)
	-3/-4C <u>5/</u>			-3/-4C	
			-10C	-10C	
-4C	-4C	.670 (17.02)	-12	-12D	1.015 (25.78)
			-12C	-12C	
-5C	-5C	.700 (17.78)	-16	-16D	1.155 (29.34)
			-16C	-16C	
-6C	-6C	.745 (18.92)	-20	-20D	1.280 (32.51)
			-20C	-20C	
-8	-8D	.860 (21.84)	-24	-24D	1.475 (37.47)
-8C	-8C		-24C	-24C	

1/ Dimensions are in inches.

2/ Metric equivalents are given for general information only.

3/ MS27075 shall be dry film lubricated in accordance with table III, dry film shall be applied in accordance with MS27075.

4/ Material code "D" aluminum alloy.

5/ Swivel nut and sealing surface of this nipple subassembly shall mate with SAE-AS4395-3 fitting. The remaining portion of this subassembly shall mate with M27267-4 hose.

Finishes: Finishes are performed at component level.

Corrosion resistant steel do not passivate.

Aluminum alloy, anodize in accordance with MIL-A-8625, type II, dye blue

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If required, lockwire holes to be drilled in accordance with SAE-AS1043 and suffix L added to PIN.

MS27075 parts shall be coated with the same type of dry film lubricant as indicated in the PIN, no mixing of dry film lubricants shall be used on an assembly unless it is the types specified by the "blank" designator.

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

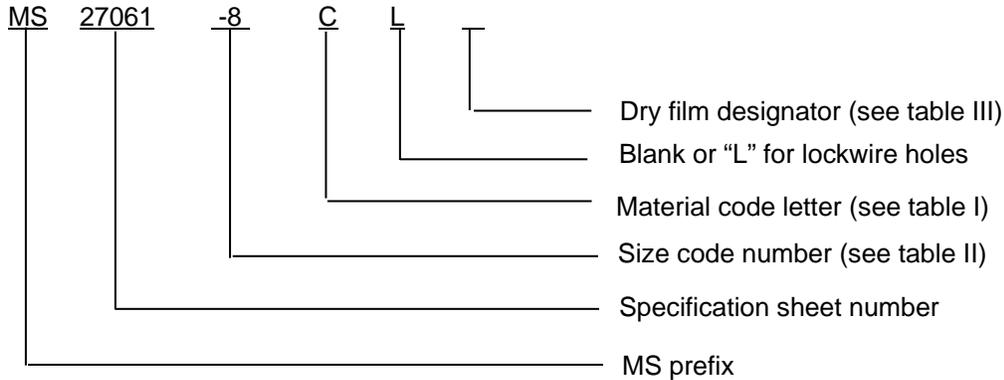
TABLE III. Dry film designator.

Dry film designator	SAE class or type designator	Dry film characteristics
Blank	Any SAE class or type below	N/A
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 a nipple subassembly size, letter for material, and blank or L for lockwire holes, and a blank or number for dry film lubricant. Unassigned PIN's shall not be used.



PIN examples:

- MS27061-8C indicates a nipple subassembly size 8, CRES with dry film class designator "blank".
- MS27061-8C4 indicates a nipple subassembly assembly size 8, CRES with dry film class designator 4.
- MS27061-8L indicates a nipple subassembly size 8, a combination of aluminum and CRES, with lockwire holes, and with dry film class designator "blank".

Identification of product. The Part or Identifying Number (PIN) and the manufacturer's trademark shall be permanently marked on the assembly.

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
- MIL-PRF-46010
- MS27053
- MS27075
- SAE-AS1043
- SAE-AS1701
- SAE-AS4395
- SAE-AS5272

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CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

(Project 4730-2013-019)

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>.