

INCH-POUND

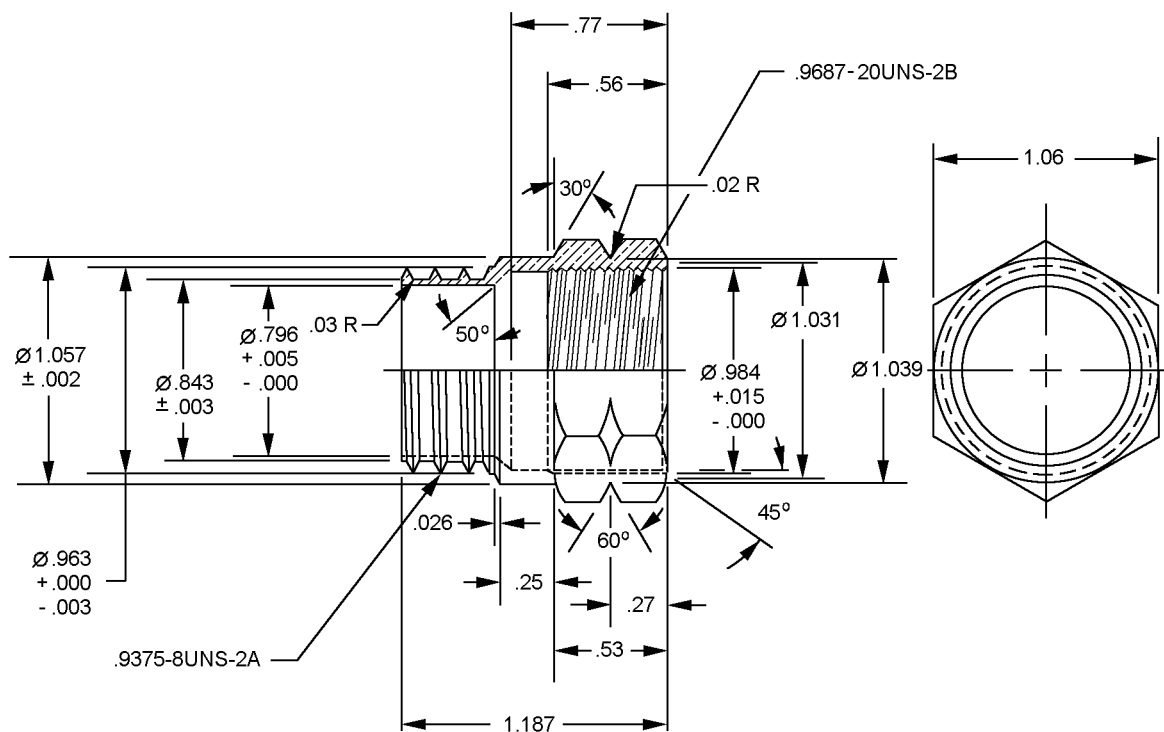
MS39135H
7 October 2019
SUPERSEDING
MS39135G
24 May 2010

DETAIL SPECIFICATION SHEET

NUT, HOSE COUPLING, AUTOMOTIVE AIR BRAKE HOSE ADAPTER

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.



Nut MS designator -1.

Inches	mm	Inches	mm	Inches	mm
0.002	0.051	0.25	6.350	0.963	24.460
0.003	0.076	0.27	6.858	0.984	24.994
0.005	0.127	0.53	13.462	1.031	26.187
0.015	0.381	0.56	14.224	1.039	26.391
0.02	0.508	0.77	19.558	1.057	26.848
0.026	0.660	0.796	20.218	1.06	26.924
0.03	0.762	0.843	21.412	1.187	30.150

See notes at end of figure.

FIGURE 1. Hose coupling nut.

AMSC N/A

FSC 4730

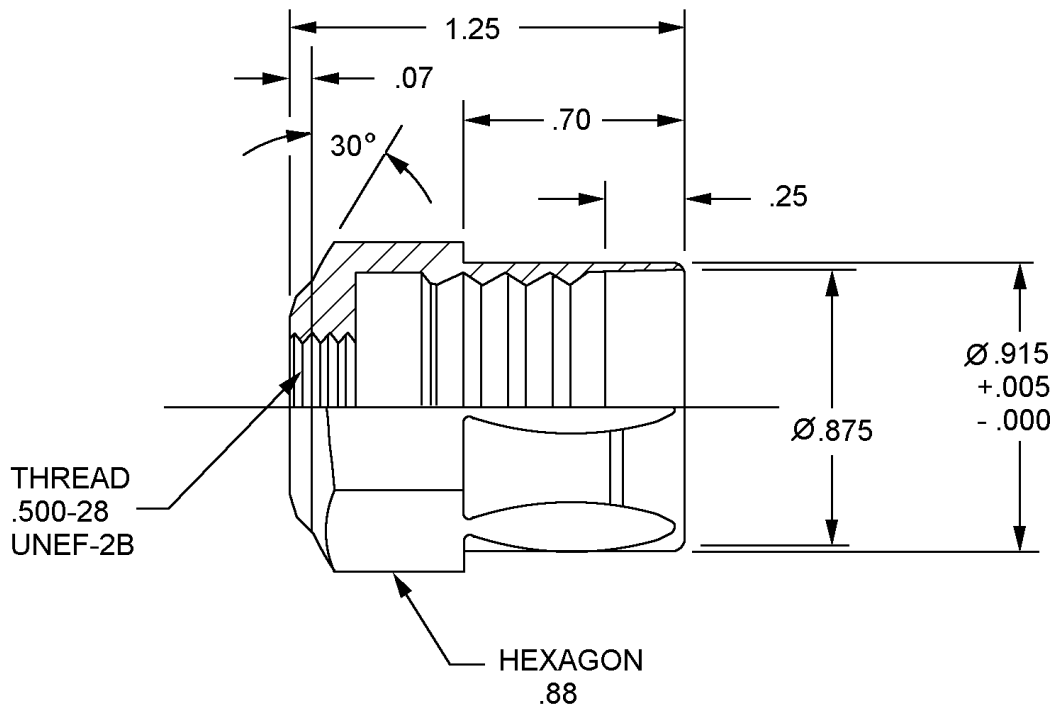


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NOTES:

1. All dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified tolerances for two place decimals are ± 0.02 , three place decimals ± 0.005 , and angles are $\pm 2^\circ$.
4. Threads shall be in accordance with FED-STD-H28/2 and ASME-B1.1

FIGURE 1. Hose coupling nut - Continued.



Inches	mm	Inches	mm
0.005	0.127	0.875	22.225
0.07	1.778	0.915	23.241
0.25	6.350	1.25	31.750
0.70	17.780		

Alternate design nut MS designator -A-1.

NOTES:

1. All dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified tolerances for two place decimals are ± 0.02 , three place decimals ± 0.005 , and angles are $\pm 2^\circ$.
4. Threads shall be in accordance with FED-STD-H28/2 and ASME-B1.1

FIGURE 2. Alternate design, hose coupling, nut.

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REQUIREMENTS:

Nuts shall be as specified on figures 1 and 2 and table I.

The nuts specified herein are a component of the adapter, straight pipe to hose, automotive air brake hose MS39133.

The nuts described herein are for use with MS39325 hose assemblies.

Material:

Brass formed rod, tempered, half-hard brass in accordance with ASTM B16/B16M.

Steel bar in accordance with ASTM A108.

Corrosion resistant steel bars alloys UNS S30300, UNS S30400, UNS S30403, UNS S32100, or UNS 35500.

Material/finish shall be in accordance with table I.

TABLE I. Material/finish

Material/finish designator	Material/	Finish
A	Stainless steel	No additional finish. Passivation in accordance with SAE AMS2700, type 6 or 7.
B	Brass	No additional finish.
C	Steel	Cadmium plated in accordance with SAE AMS-QQ-P-416, type II, class 2 or SAE AMS-C-81562, type II, class 2. <u>1/</u> <u>2/</u> <u>3/</u>
R	Steel	Zinc plating with colorless passivate in accordance with ASTM B633, type V, Fe/Zn 5.
S	Steel	Zinc plated in accordance with ASTM B633, type II, Fe/Zn 5. <u>1/</u> <u>3/</u>

1/ These finishes have a chromate conversion coating or chromic acid rinse, which includes hexavalent chromium, and are not recommended.

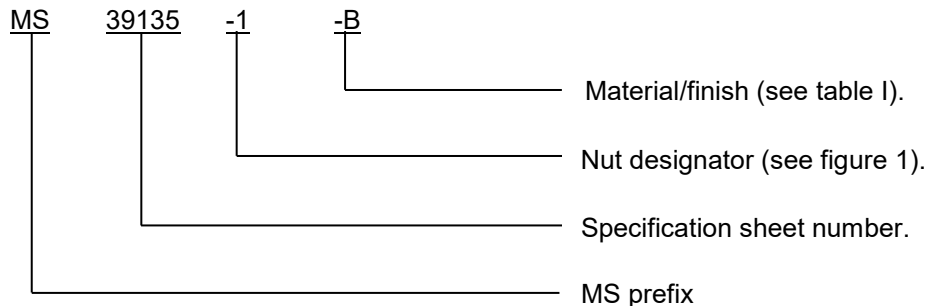
2/ Cadmium is prohibited from use in NAVSEA-owned shipboard systems in accordance with the requirements of T9070-AL-DPC-020/077-2, unless otherwise approved by NAVSEA.

3/ The use of cadmium plating or coatings depositing hexavalent chromium for Army vehicles is prohibited unless otherwise explicated stated in the contract as a requirement.

All plating's shall be capable of meeting 96-hour salt spray test in accordance with ASTM B117. The fittings shall show no evidence of red corrosion after 96 hours of salt spray. Air passages, other openings, and internal threads shall not be subject to the plating thickness requirement and may have bare areas provided they are protected with a light film of oil.

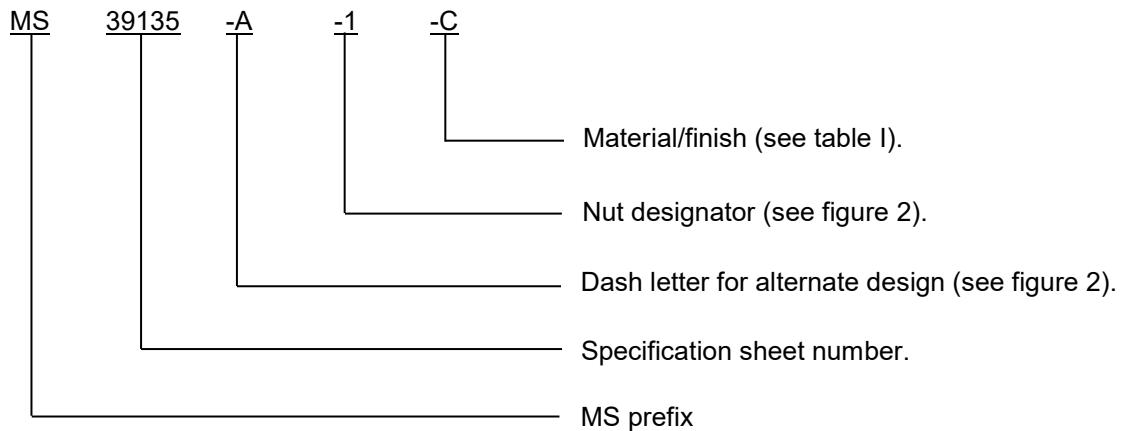
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Part or Identifying Number (PIN) for figure 1 adapter.



Example of a PIN: MS39135-1-B indicates a nut made of brass, with .9375-8 UNS-2A threads.

PIN for figure 2, alternate design adapter:



PIN example, alternate design: MS39135-A-1-C indicates an alternate design nut made of steel, cadmium plated with .500-28 UNEF-2B threads.

Class I and II ozone depleting substances (ODS) shall not be used in MS39135 or any referenced procedures.

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

Cadmium is prohibited from use in NAVSEA-owned shipboard systems in accordance with the requirements of T9070-AL-DPC-020/077-2, unless otherwise approved by NAVSEA.

The use of cadmium plating or coatings depositing hexavalent chromium for Army vehicles is prohibited unless otherwise explicated stated in the contract as a requirement.

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.

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.

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Referenced documents. This document references the following:

FED-STD-H28/2	ASTM B117
MS39133	ASTM B633
MS39135	SAE AMS-C-81562
MS39325	SAE AMS-QQ-P-416
ASME B1.1	SAE AMS2700
ASTM A108	T9070-AL-DPC-020/077-2
ASTM B16/B16M	

CONCLUDING MATERIAL

Custodians:

Army - AT
Navy - SH
Air Force - 71
DLA - CC

Preparing activity:

DLA - CC

(Project 4730-2019-072)

Review activities:

Army - AR, EA
Navy - SA

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>.