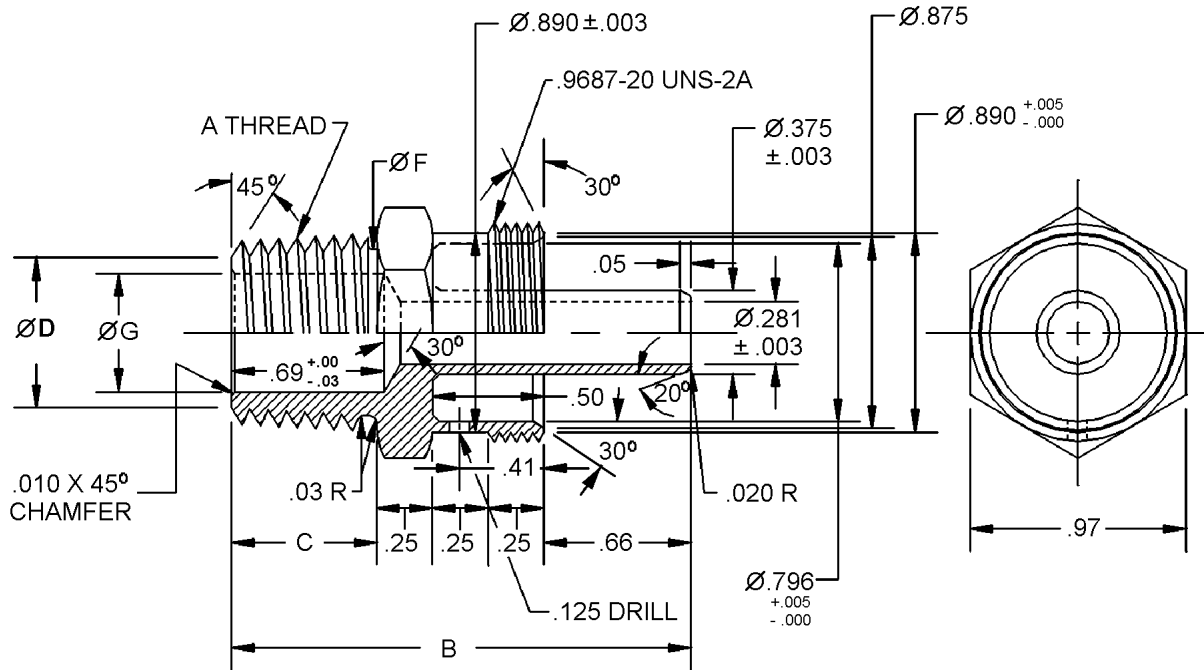


INCH-POUND
 MS39137H
 24 May 2010
 SUPERSEDING
 MS39137G
 9 December 2008

DETAIL SPECIFICATION SHEET
 ADAPTER BODY, AUTOMOTIVE AIR BRAKE

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.



Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.003	0.08	.020	0.51	.250	6.35	.50	12.7	.875	22.23
.005	0.13	.03	0.8	.281	7.14	.66	16.8	.890	20.32
.006	0.15	.05	1.3	.375	9.53	.69	17.5	.9687	25.062
.010	0.25	.12	3.1	.41	10.4	.796	20.22	.97	24.

MS dash number	A (NPTF short)	B inches (mm)	C inches (mm)	D inches (mm)	F inches (mm)	G inches (mm) ±.003 (0.08)	Material
-1-B	1/4	1.906 (48.41)	.500 (12.70)	.406 (10.31)	.484 (12.29)	.281 (7.14)	Brass
-1-S							Steel
-2-B	1/2	2.062 (52.37)	.656 (16.66)	.672 (17.07)	.745 (18.92)	.531 (13.49)	Brass
-2-S							Steel

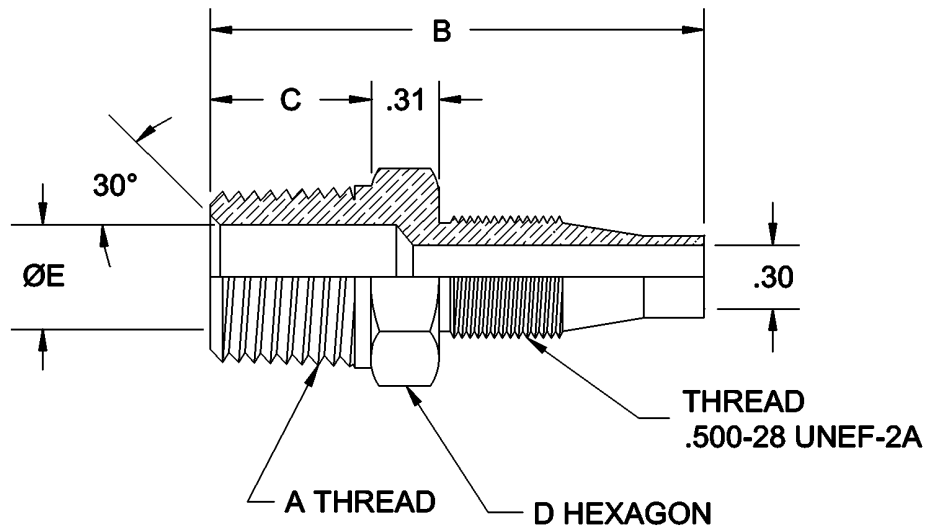
FIGURE 1. Adapter body.

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NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Remove all burrs and slivers.
4. Tolerances unless otherwise specified for three place ± 0.005 inch (0.13 mm), two place decimals ± 0.02 inch (0.5 mm), and angles $\pm 2^\circ$.
5. NPTF Dryseal Threads shall be in accordance with FED-STD-H28/8 and ANSI-B1.20.3. UNS threads in accordance with FED-STD-H28/2 and ASME-B1.1.

FIGURE 1. Adapter body - Continued.



Inches	mm
0.30	7.62
0.31	7.90
0.500	12.70

MS dash number	A (NPTF short)	B inches (mm)	C inches (mm)	D inches (mm)	E inches (mm)	Material
-A-1-B	1/4	2.12 (53.85)	.56 (14.22)	.53 (13.46)	.30 (7.62)	Brass
-A-1-S						Steel
-A-2-B	1/2	2.31 (58.67)	.75 (19.05)	.88 (22.35)	.49 (12.45)	Brass
-A-2-S						Steel

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Remove all burrs and slivers.
4. Tolerances unless otherwise specified for three place ± 0.005 inch (0.13 mm), two place decimals ± 0.02 inch (0.5 mm), and angles $\pm 2^\circ$.
5. NPTF Dryseal Threads shall be in accordance with FED-STD-H28/8 and ANSI-B1.20.3. UNEF threads in accordance with FED-STD-H28/2 and ASME-B1.1.

FIGURE 2. Alternate design adapter body.

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REQUIREMENTS:

Adapters shall be as specified on figures 1 and 2.

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

Material:

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

Steel bar in accordance with ASTM-A108.

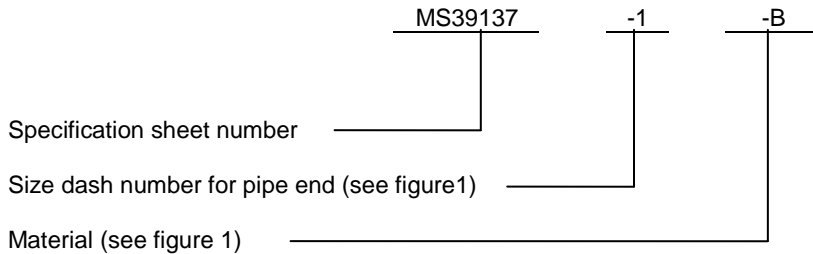
Finish:

Brass shall be uncoated.

Steel shall be zinc coated in accordance with ASTM-B633, type II, Fe/Zn 25.

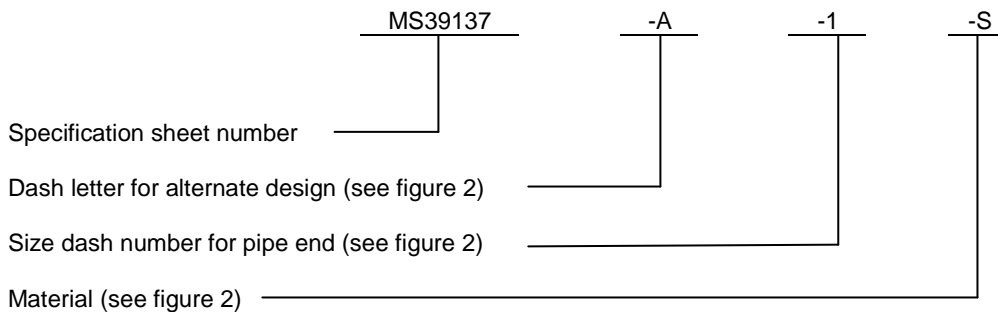
Air passages shall not be subject to the plating thickness requirement and may have bare areas provided they are protected with a light film of oil.

Part or Identifying Number (PIN): Standard adapter body, the PIN consists of, the specification "MS" sheet number, a dash, number for pipe end size, and dash and a letter for material designator.



PIN example: MS39137-1-B indicates an adapter body 1/4 NPTF short threads to .9687 - 20 UNS-2A threads, brass body.

PIN: Alternate adapter body, the PIN consists of the letters "MS", the specification sheet number, a dash, the letter A for alternate body design, a dash, a number for pipe end size, a dash and a letter for material designator.



PIN example: MS39137-A-1-S indicates an adapter body with alternate design 1/4 NPTF short threads to .9687-20 UNS-2A threads steel body.

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Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Referenced documents. This document references the following:

FED-STD-H28/2
FED-STD-H28/8
MS39133
ANSI-B1.20.3
ASME-B1.1
ASTM-A108
ASTM-B16/B16M
ASTM-B633

CONCLUDING MATERIAL

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

Preparing activity:
DLA - CC

(Project 4730-2010-064)

Review activities:
Army - AR, EA
Navy - MC, SA
Air Force - 71

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