

INCH-POUND

MS27231B  
 14 May 2007  
 SUPERSEDING  
 MS27231A  
 22 September 2000

## DETAIL SPECIFICATION SHEET

STRAIGHT FLANGE NIPPLE ASSEMBLY, ADAPTER, HOSE TO TUBE,  
 REUSABLE, HYDRAULIC, FUEL AND OIL LINES

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 MIL-DTL-5070.

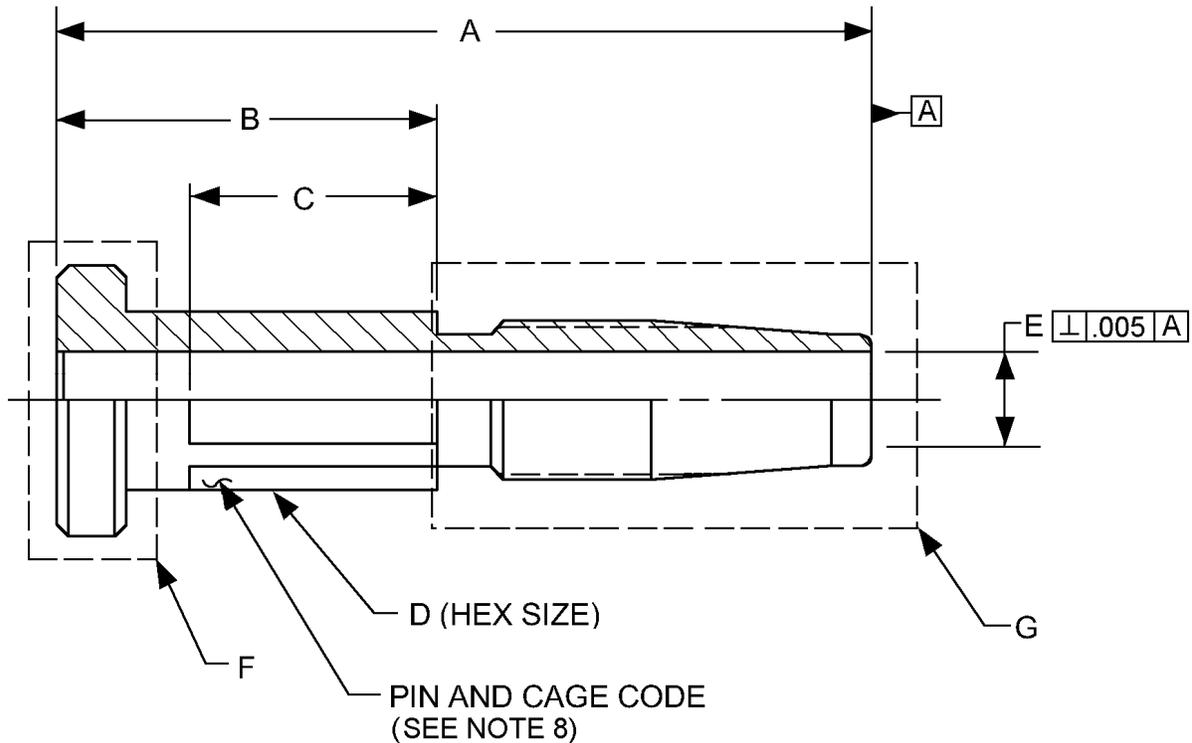


FIGURE 1. Nipple dimensions and configuration.

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MS27231 dash number	A (ref) inches (mm)	B $\pm.010$ (0.25) inches (mm)	C $\pm.020$ (0.51) inches (mm)	D inches (mm)	E Dia inches (mm)
-8	2.750 (69.85)	1.125 (28.58)	.810 (20.57)	.561 (14.25)	.360 (9.14) .355 (9.02)
-10	2.925 (74.30)			.687 (17.45)	.460 (11.68) .450 (11.43)
-12	3.219 (81.76)			.875 (22.23)	.582 (14.78) .576 (14.63)
-16	2.723 (69.16)			1.125 (28.58)	.820 (20.83) .810 (20.57)
-20	2.896 (73.56)			1.375 (34.93)	1.052 (26.72) 1.042 (26.47)
-24	2.873 (72.97)	1.062 (26.97)	.750 (19.05)	1.625 (41.28)	1.286 (32.66) 1.276 (32.41)
-32	3.507 (89.08)	1.241 (31.52)	.940 (23.88)	2.125 (53.98)	1.755 (44.58) 1.745 (44.32)
-40	3.844 (97.64)	1.375 (34.93)	1.060 (26.92)	2.625 (66.68)	2.219 (56.36) 2.199 (55.85)
-48				3.250 (82.55)	2.823 (71.70) 2.803 (71.20)

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified tolerances are  $\pm.005$  inch (0.13 mm).
4. Unless otherwise specified, maximum surface roughness shall be 125  $\mu\text{in}$   $R_a$  in accordance with ASME B46.1.
5. Shoulder end F shall be in accordance with MS27237.
6. Nipple end G shall be in accordance with MS27239.
7. Break all sharp edges and remove all burrs and slivers.
8. Part or Identifying Number (PIN).

FIGURE 1. Nipple dimensions and configuration - Continued.

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## REQUIREMENTS:

Dimensions and configurations: The design, construction, and physical dimensions shall be in accordance with MIL-DTL-5070 and figure 1 in case of conflict between this drawing and MIL-DTL-5070, this drawing shall govern.

Intended use: This part is a component of MS27232.

Material: Aluminum shall be accordance with MIL-DTL-5070.

Finish. Finish shall be accordance with MIL-DTL-5070.

Color identification: Color identification shall be in accordance with MIL-DTL-5070.

PIN example:

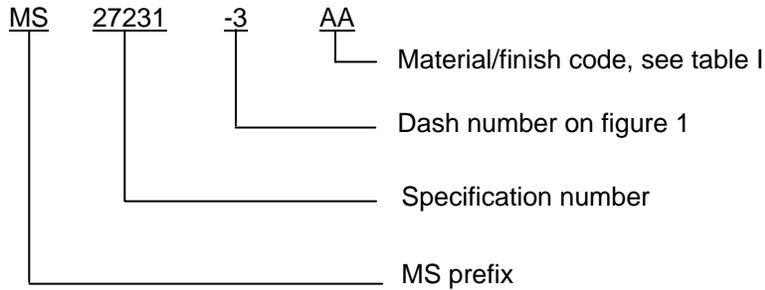


TABLE I. Code for material and finish.

Code	Dash size	Material/finish
AA	-8 through-48	Aluminum – anodic coating

Identification of product. The PIN and the manufacturer's Commercial and Government Entity (CAGE) Code or trademark shall be permanently marked on the nipple, see figure 1, or on a removable tag securely attached to the nipple.

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-5070, this document references the following:

MS27232  
MS27237  
MS27239

ASME B46.1

MS27231B

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

(Project 4730-2005-050)

Review activities:

Army - AV  
Navy - MC, SA  
Air Force - 11, 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 <http://assist.daps.dla.mil>.