

INCH-POUND

MS27231A  
 22 September 2000  
 SUPERSEDING  
 MS27231  
 6 August 1964

## 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-5070E.

## REQUIREMENTS.

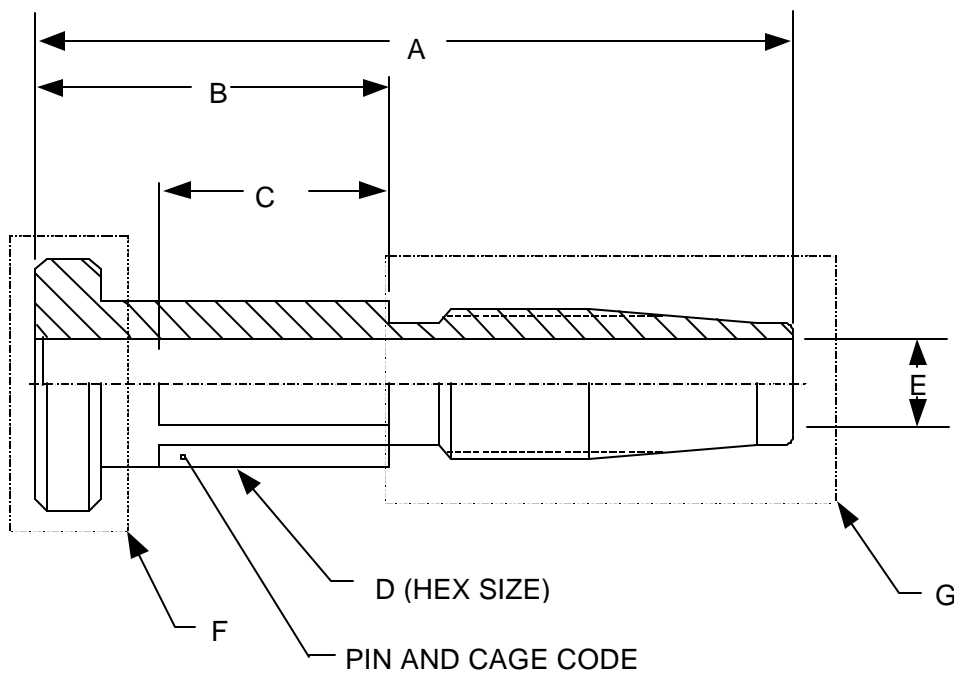


FIGURE 1. Nipple illustration.

## MS27231A

TABLE I. Nipple composition.

PIN	A	B	C	D	E
MS27231	(ref)	$\pm.010$	$\pm.020$		Dia
-8	2.750	1.125	.810	.561	.360 .355
-10	2.925			.687	.460 .450
-12	3.219			.875	.582 .576
-16	2.723			1.125	.820 .810
-20	2.896			1.375	1.052 1.042
-24	2.873	1.062	.750	1.625	1.286 1.276
-32	3.507	1.241	.940	2.125	1.755 1.745
-40	3.844	1.375	1.060	2.625	2.219 2.199
-48				3.250	2.823 2.803

Intended use. This part is a component of MS27232.

Dimensions and tolerances. Dimensions are in inches. Tolerances: decimals  $\pm.005$ .

Material. Aluminum alloy 2024, T6 or T851 temper, in accordance with SAE AMS-QQ-A-225/6.

Design. Shoulder end F shall conform to MS27237, except as noted.  
Nipple end G shall conform to MS27239, except as noted.

Surface roughness. Unless otherwise specified, maximum surface roughness shall be 125  $\mu\text{in}$   $R_a$  in accordance with ASME B46.1.

Finish. Anodize, dye blue, in accordance with MIL-A-8625, Type II.

Workmanship. Break all sharp edges and remove all burrs and slivers.

Identification of product. The part or identifying number (PIN) and the manufacturer's Commercial and Government Entity (CAGE) Code or trademark shall be permanently marked on the nipple or on a removable tag securely attached to the nipple. The PIN for this part shall be as shown in table I (e.g., MS27231-8).

Order of precedence. This specification sheet takes precedence over the documents referenced herein. Unless otherwise specified in the solicitation, referenced documents shall be of the issue in effect on the date of solicitation.

MS27231A

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.

#### CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

(Project 4730-0705)

Review activities:

Army - AV  
Navy - MC, SA  
Air Force - 11, 82