

INCH-POUND

MS24589B
 22 September 2000
 SUPERSEDING
 MS24589A
 6 August 1964

DETAIL SPECIFICATION SHEET

NIPPLE, ADAPTER, HOSE TO TUBE, REUSABLE, HYDRAULIC,
 FUEL AND OIL LINES. 1 THROUGH 2 INCHES TUBING SIZE

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.

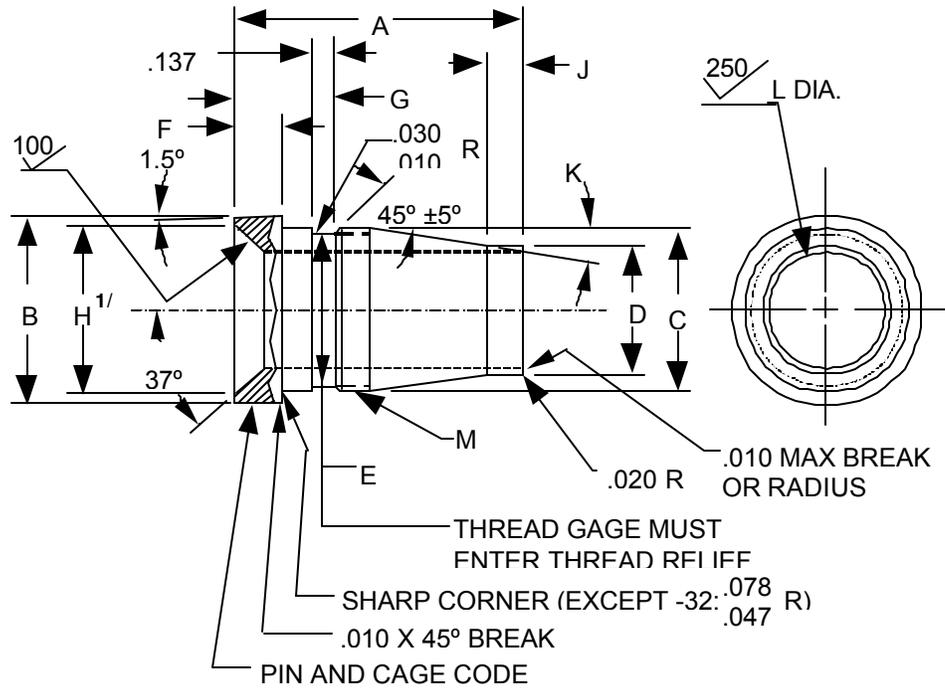


FIGURE 1. Nipple illustration.

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TABLE I. Nipple composition.

PIN	A	B	C	D	E	F	G
MS24589		Dia	Dia	Dia	Dia		
-16	2.146	1.224	1.061	.900	.990	.363	.692
	2.126	1.218	1.052	.890	.980	.358	
-20	2.372	1.536	1.311	1.125	1.235	.380	.746
	2.352	1.530	1.302	1.115	1.225	.370	
-24	2.503	1.786	1.561	1.360	1.500	.436	.814
	2.483	1.781	1.552	1.350	1.480	.426	
-32	3.094	2.410	1.998	1.830	1.935	.536	.940
	3.074	2.405	1.990	1.820	1.915	.526	

PIN	H ^{1/}	J	K	L	M
MS24589	Dia		$\pm .25^\circ$	Dia	
-16	1.118	.200	5°	.815	1.062-18 UNEF-3A
	1.088				
-20	1.425	.200	5°	1.047	1.312-18 UNEF-3A
	1.395				
-24	1.640	.150	5°	1.281	1.562-18 UNEF-3A
	1.610				
-32	2.255	.200	4°	1.750	2.000-18 UNS-3A PD 1.9624
	2.225				1.9573

Notes.

- 1/ Dimension H of conical seat to be concentric with outside diameter of nipple within .005 total indicator reading.

Intended use. This part is a component of MS24587.

Dimensions and tolerances. Dimensions are in inches. Unless otherwise specified, tolerances are as follows: angles $\pm 1^\circ$; decimals $\pm .005$.

Material. Aluminum alloy 2024, T6 or T85 temper, in accordance with SAE AMS-QQ-A-225/6, or aluminum alloy in accordance with QQ-A-367, T6 temper.

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

Design. Threads shall be in accordance with SAE AS8879.

Surface roughness. Unless otherwise specified, maximum surface roughness shall be 125 μin R_a in accordance with ASME B46.1.

Design. Threads shall be in accordance with SAE AS8879.

Workmanship. Break all sharp edges and remove all hanging 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 number shall be as shown in table I (e.g., MS24589-16).

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

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 4730-0694)

Review activities:

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