

INCH-POUND

MS24590B  
22 September 2000  
SUPERSEDING  
MS24590A  
6 August 1964

DETAIL SPECIFICATION SHEET

SOCKET, ADAPTER, HOSE TO TUBE, REUSABLE, HYDRAULIC,  
FUEL AND OIL LINES. 3/16 THROUGH 3/4 INCH 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.

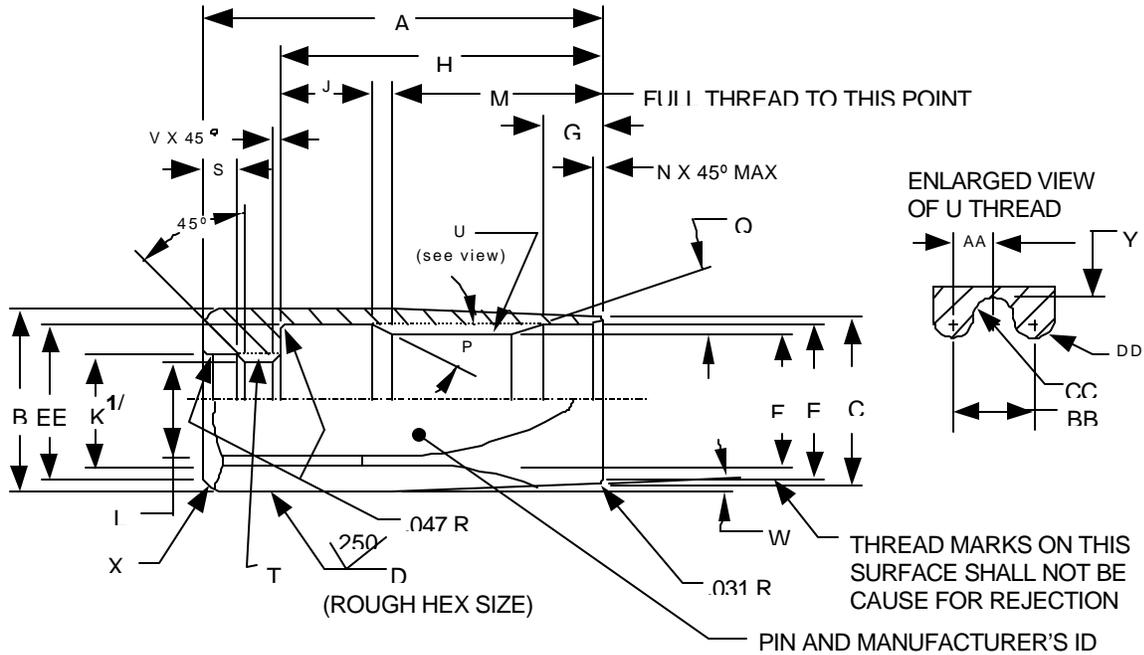


FIGURE 1. Socket illustration.

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TABLE I. Socket composition.

PIN	A	B	C	D	E	F	G	H	J	K <sup>1/</sup>
MS24590		Dia ±.015	Dia ±.015	±.015	Dia	Dia	(min)			Dia
-3	1.010 .990	.625	.563	.563	.500	.405 .400	.130	.660 .640	.170	.240 .235
-4	1.110 1.090	.688	.625	.625	.560	.435 .430	.100	.760 .740	.170	.296 .291
-5	1.210 1.190	.750	.688	.688	.640	.525 .520	.100	.790 .770	.180	.373 .368
-6	1.310 1.290	.875	.813	.813	.730	.605 .600	.150	.910 .890	.200	.439 .429
-8	1.660 1.640	1.000	.938	.938	.820	.705 .700	.210	1.160 1.140	.320	.573 .563
-10	1.810 1.790	1.219	1.125	1.125	1.000	.880 .870	.250	1.300 1.280	.312	.702 .692
-12	2.110 2.090	1.344	1.250	1.250	1.160	1.025 1.015	.250	1.580 1.560	.500	.824 .814

PIN	L	M	N	P	Q	S
MS24590	Dia	(min)				
-3	.204 .201	.460	.010	30°	15°	.160
-4	.251 .247	.550				
-5	.330 .326	.550			20°	.200
-6	.387 .383	.680				
-8	.526 .517	.750	.015	20°	15°	.160
-10	.649 .642	.978				
-12	.765 .758	1.025			20°	

PIN	T	U	V	W	
MS24590	Thread	LH round thread			
-3	.234-32 UNS-3B PD	.2172 .2141	.500-10	.031	3°
-4	.281-32 UNS-3B PD	.2639 .2607	.530-10		2.5°
-5	.365-28 UNS-3B PD	.3451 .3418	.640-8		2°
-6	.421-28 UNS-3B PD	.4014 .3978	.720-8		
-8	.562-24 UNEF-3B	.820-8	.047	1.5°	
-10	.687-24 UNEF-3B	1.000-7		2°	
-12	.812-20 UNEF-3B	1.145-7			

TABLE I. Socket composition - Continued.

PIN	X Rad $\pm.015$	Y Dia	AA	BB Ref	CC Rad	DD Rad	EE Dia
MS24590							
-3	.109	.500	.0500	.1000	.0200	.025	.445
-4		.530					.505
-5	.125	.640	.0625	.1250	.0275	.032	.600
-6		.720					.665
-8		.820					.810
-10	.188	1.000	.0715	.1430	.0310	.040	1.000
-12		1.145	.0714	.1428			1.160

Notes.

1/ Diameter K must run concentric with pitch diameter of thread T within .005 total indicator reading.

Intended use. This part is a component of MS24587, MS27224, MS27226, MS27228, MS27230, and MS27232.

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 T851 temper, in accordance with SAE AMS-QQ-A-225/6.

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

Surface roughness. Unless otherwise specified, maximum surface roughness shall be 125  $\mu\text{in}$   $R_a$  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 the socket or on a removable tag securely attached to the socket. The PIN for this part shall be as shown in table I (e.g., MS24590-3).

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 4730-0695)

Review activities:

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