

INCH-POUND

MS24588B
22 September 2000
SUPERSEDING
MS24588A
6 August 1964

DETAIL SPECIFICATION SHEET

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

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.

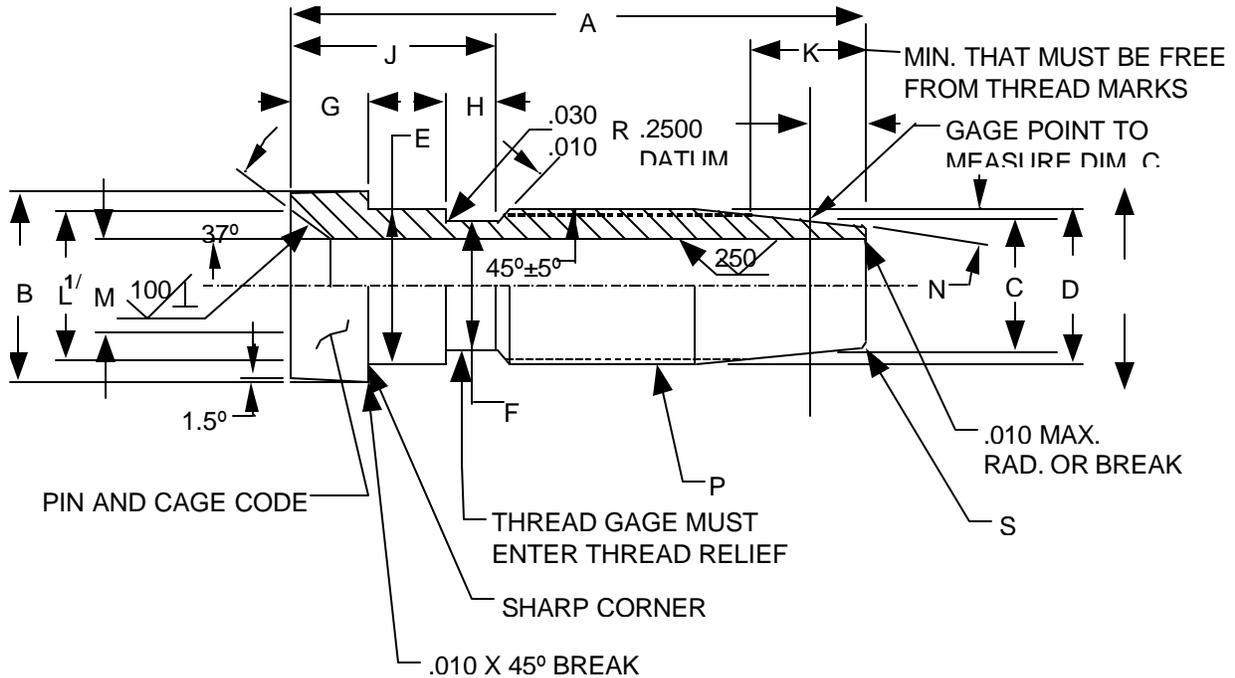


FIGURE 1. Nipple illustration.

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TABLE I. Nipple composition.

PIN	A	B	C	D	E	F	G	H	J
MS24588		Dia	Dia	Dia	Dia	Dia			
-3	1.275	.326	.185	.234	.235	.203	.188	.093	.495
	1.255	.321	.180	.228	.227	.198	.183		
-4	1.305	.379	.243	.281	.291	.250	.183	.093	.490
	1.285	.374	.237	.275	.283	.245	.178		
-5	1.450	.442	.308	.365	.368	.329	.199	.107	.565
	1.430	.437	.302	.357	.360	.324	.194		
-6	1.665	.504	.368	.421	.429	.388	.223	.107	.605
	1.645	.499	.362	.414	.421	.383	.218		
-8	1.943	.684	.463	.5625	.563	.521	.296	.126	.683
	1.923	.679	.457	.5540	.555	.516	.291		
-10	2.100	.800	.579	.6875	.692	.646	.312	.126	.730
	2.080	.795	.573	.6790	.684	.641	.307		
-12	2.424	.975	.690	.8125	.814	.740	.300	.150	.714
	2.404	.970	.682	.8030	.806	.735	.295		

PIN	K	L ^{1/}	M	N	P	S
MS24588		Dia	Dia	±.25°		
-3	.270	.255	.128	5°	.234-32 UNS-3A PD	.2131
		.235	.123			.2100
-4	.200	.305	.175	4.5°	.281-32 UNS-3A PD	.2597
		.285	.170			.2565
-5	.280	.365	.237	4°	.365-28 UNS-3A PD	.3398
		.345	.232			.3365
-6	.260	.445	.300	4°	.421-28 UNS-3A PD	.3968
		.425	.295			.3932
-8	.480	.580	.394	4.5°	.562-24 UNEF-3A	
		.560	.390			
-10	.515	.690	.488	5°	.687-24 UNEF-3A	
		.670	.484			
-12	.590	.860	.612	4°	.812-20 UNEF-3A	
		.840	.608			

Notes.

^{1/} Dimension L to be concentric with dimension B 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 ±.5°; decimals ±.005.

Materials. Sizes –3 through –6: 1137 steel in accordance with ASTM A108.
 Sizes –8 and above: aluminum alloy 2024, T6 or T851 temper, in accordance with SAE AMS-QQ-A-225/6.

Finish. Steel: Plating requirements shall be based upon the materials selected for the adapters. Ion vapor deposition of aluminum, zinc-nickel plating, electroless nickel plating, brush plating, or electromagnetic deposition are candidate processes that may be used to provide corrosion resistance and wear tolerance, and to meet finish requirements. If cadmium plating is used, the plating shall be in accordance with QQ-P-416, Type II, Class 3, dyed black, after heat treat and before assembling nut. It is recommended that the use of cadmium plating be used only when other platings cannot meet performance requirements.

Aluminum: Anodize in accordance with MIL-A-8625, type II, dyed blue.

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 shall be as shown in table I (e.g., MS24588-3).

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 4730-0693)

Review activities:

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