

INCH-POUND

MS27069F

24 September 2003

SUPERSEDING

MS27069E

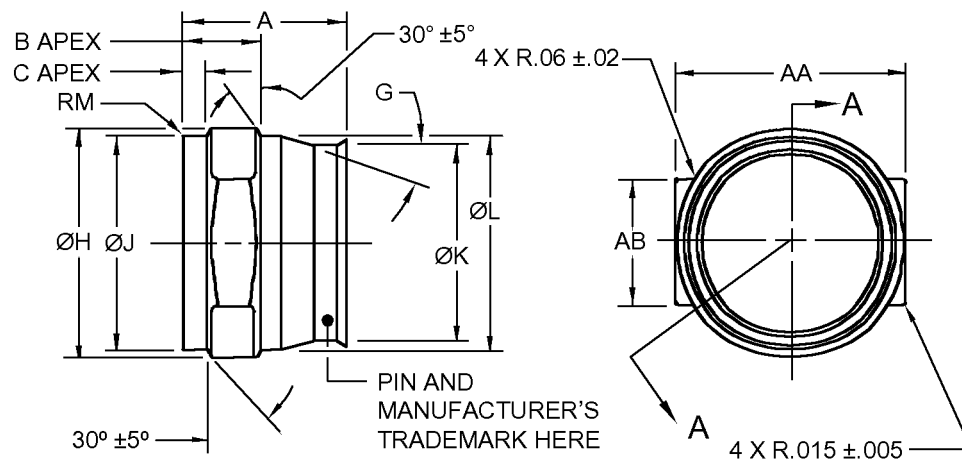
6 March 1969

DETAIL SPECIFICATION SHEET

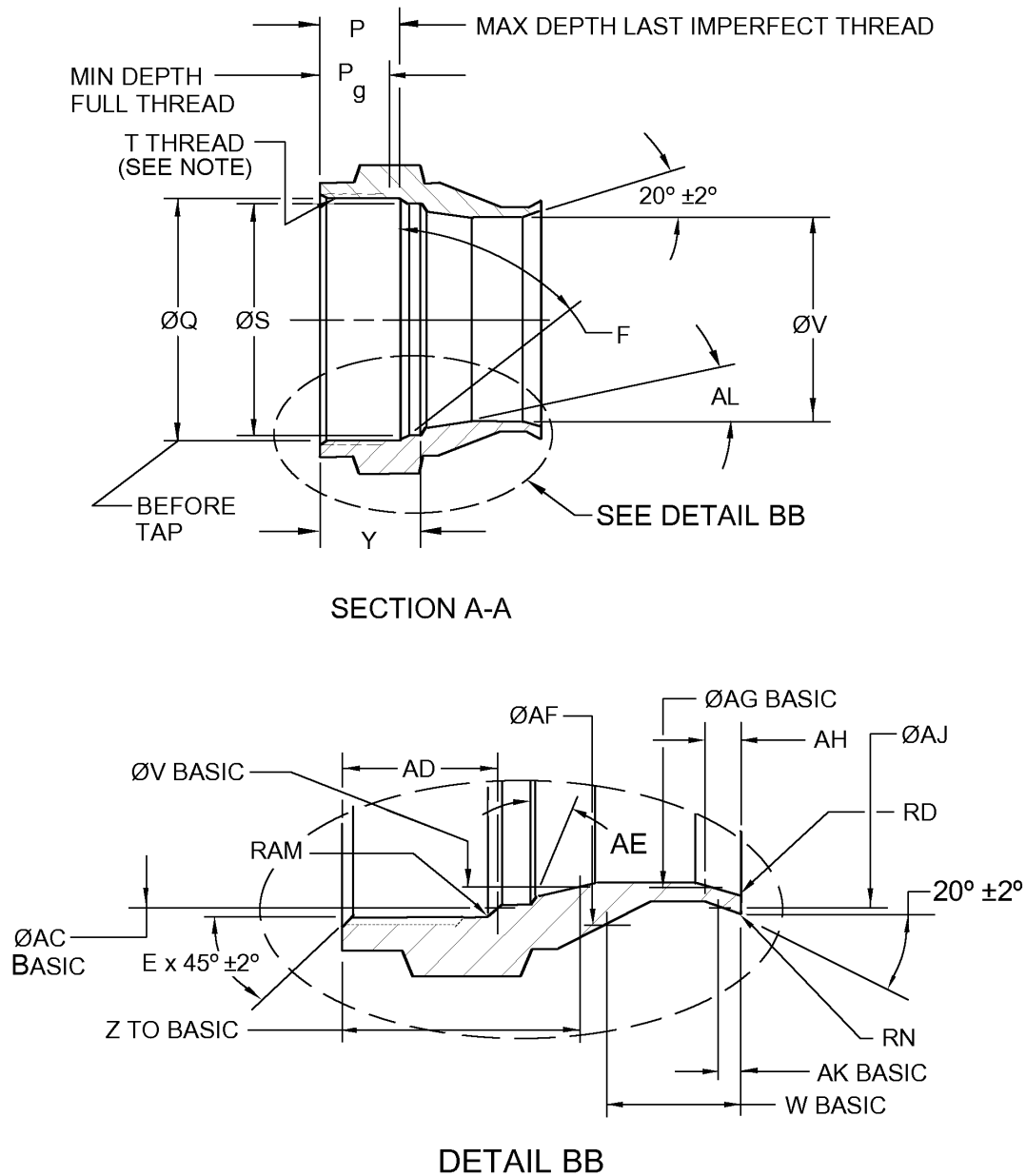
SOCKET, HOSE COUPLING

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 and MIL-DTL-27272.

FIGURE 1. Socket illustration.

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NOTES: Threads shall be in accordance with SAE AS8879 except for -8 and -24 sizes, which shall be in accordance with ANSI ASME B1.1.

FIGURE 1. Socket illustration - Continued.

TABLE I. Socket requirements.

PIN MS27069	A ±.010	B ±.010	C ±.010	D ±.005	E		F ±2°	G ±.5°	H ±.005	J ±.005	K ±.005	L ±.005
-4C	.806	.385	.120	.015	.030	±.005	30°	15.5°	.562	.558	.440	.558
-5C	.834				.031	±.015		14.5°	.625	.620	.514	.620
-6C	.853	.400	.110					14.0°	.688	.683	.582	.683
-8C	.979	.440	.160					17.0°	.875	.870	.700	.870
-10C	1.080	.505	.190	.020				18.0°	1.000	.995	.822	.995
-12C	1.152	.540	.200		.035	±.005	60°	16.0°	1.125	1.120	.942	1.120
-16C	1.255	.655	.185		.040		45°	20.0°	1.500	1.495	1.270	1.495
-20C	1.510	.815	.235				30°	23.0°	1.875	1.870	1.520	1.870
-24C	1.582	.900	.250				45°	22.0°	2.125	2.120	1.816	2.120

PIN MS27069	M	N	P max	P _g min	Q		S +.000 -.005	T ^{1/}	
								Thread	Pitch diameter
-4C	.010 ±.005	.030 max	.310	.210	.461	+.007/- .000	-	.5000 - 28 UNJEF - 3B	.4804/.4768
-5C			.335	.235	.517		-	.5625- 24 UNJEF - 3B	.5392/.5354
-6C			.320	.215	.580		-	.6250 - 24 UNJEF - 3B	.6018/.5979
-8C	.030 max		.365	.235	.705	+.005/- .000	-	.7500 - 24 UNS - 3B	.7269/.7229
-10C		.015 ±.005	.410	.270	.821	+.008/- .000	-	.8750 - 20 UNJEF - 3B	.8468/.8425
-12C			.435	.360	.946		-	1.0000 - 20 UNJEF - 3B	.9719/.9675
-16C			.490	.380	1.315		1.225	1.3750 - 18 UNJEF - 3B	1.3436/1.3389
-20C			.695	.495	1.627	+.009/- .000	1.500	1.6875 - 18 UNJEF - 3B	1.6563/1.6514
-24C			.782	.607	1.870	+.008/- .000	1.815	1.9375 - 16 UN - 3B	1.9021/1.8969

See note at end of table.

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TABLE I. Socket requirements - Continued.

PIN MS27069	U	V		W	Y ±.005	Z		AA ±.005
-4C	.3785	.348	+.005/- .000	.1826	-	.436	+.013/- .000	.562
-5C	.4410	.411		.2035	-	.447	±.006	.625
-6C	.5030	.478	+.006/- .000	.2403	-	.430	+.013/- .000	.688
-8C	.6195	.590	+.005/- .000	.2169	-	.527	+.011/- .000	.875
-10C	.7245	.692	+.006/- .000	.2423	-	.592	+.007/- .000	1.000
-12C	.8665	.825	+.007/- .000	.2738	-	.631	±.004	1.125
-16C	1.1700	1.140	+.005/- .000	.4009	.648	.756	+.009/- .000	1.500
-20C	1.4425	1.390		.4480	.905	.994	±.008	1.875
-24C	1.7185	1.713	±.005	.4538	.942	1.101	±.005	2.125

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PIN MS27069	AB ±.015	AC	AD ±.005	AE	AF ±.005	AG	AH ±.010	AJ ±.005	AK	AL ±.25°	AM max
-4C	.325	.4362	.328	-	.450	.3878	.051	.450	.0545	9°	-
-5C	.361	.4928	.353	-	.525	.4568	.059	.525	.0552	8°	-
-6C	.397	.5560	.338	-	.601	.5290	.066	.601	.0668		-
-8C	.505	.6832	.385	-	.713	.6362	.060	.713	.0579		-
-10C	.578	.8008	.427	-	.844	.7500	.075	.844	.0567	9°	-
-12C	.650	.9295	.463	-	.969	.8818	.073	.969	.0647	8°	-
-16C	.866	1.2708	.524	3° max 3°±2°	1.397	1.2038	.084	1.298	.0649	7°	-
-20C	1.082	1.5645	.786		1.710	1.4488		1.545	.0615	8°	-
-24C	1.227	1.8432	.827		1.993	1.7424		1.849	.0426	6°	.015

1/ Threads shall be in accordance with SAE AS8879 except for -8 and -24 sizes, which shall be in accordance with ANSI ASME B1.1.

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REQUIREMENTS

Intended use. This part is a component of MS27053 through MS27060 and MS27381 through MS27385.

Identification of product. The Part or Identifying Number (PIN) and the manufacturer's trademark shall be permanently marked on the assembly. The PIN for this part shall be as specified in table I (e.g., MS27069-4C).

Dimensions and tolerances. Dimensions are in inches. Unless otherwise specified, break or radius all corners .005, +.005, -.000. All diameters must be concentric within .005 full indicator movement.

Materials. Corrosion-resistant steel, class 304, condition B, in accordance with SAE AMS-QQ-S-763.

Minimum yield. 60,000 psi on -4C through -12C, 50,000 psi on -16C, 45,000 psi on -20C and -24C.

Finish. Passivate in accordance with SAE AMS-QQ-P-35. Threads on -8C through -24C shall be lubricated with dry-film lubricant conforming to SAE AS1701; no overspray allowed.

Surface roughness. Unless otherwise specified, maximum surface roughness shall not exceed 125 μ in. R_a in accordance with ASME B46.1.

Elbow subassembly illustration. See figure 1.

Remove all burrs and slivers.

Order of precedence. This specification 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 - AV
Navy - AS
Air Force - 99
DLA - CC

Preparing activity:

DLA - CC

(Project 4730-0868-043)

Review activities:

Army - AR, AT, MI
Navy - MC, SA, SH
Air Force - 71