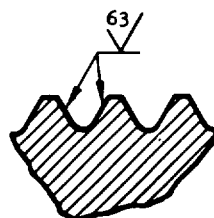
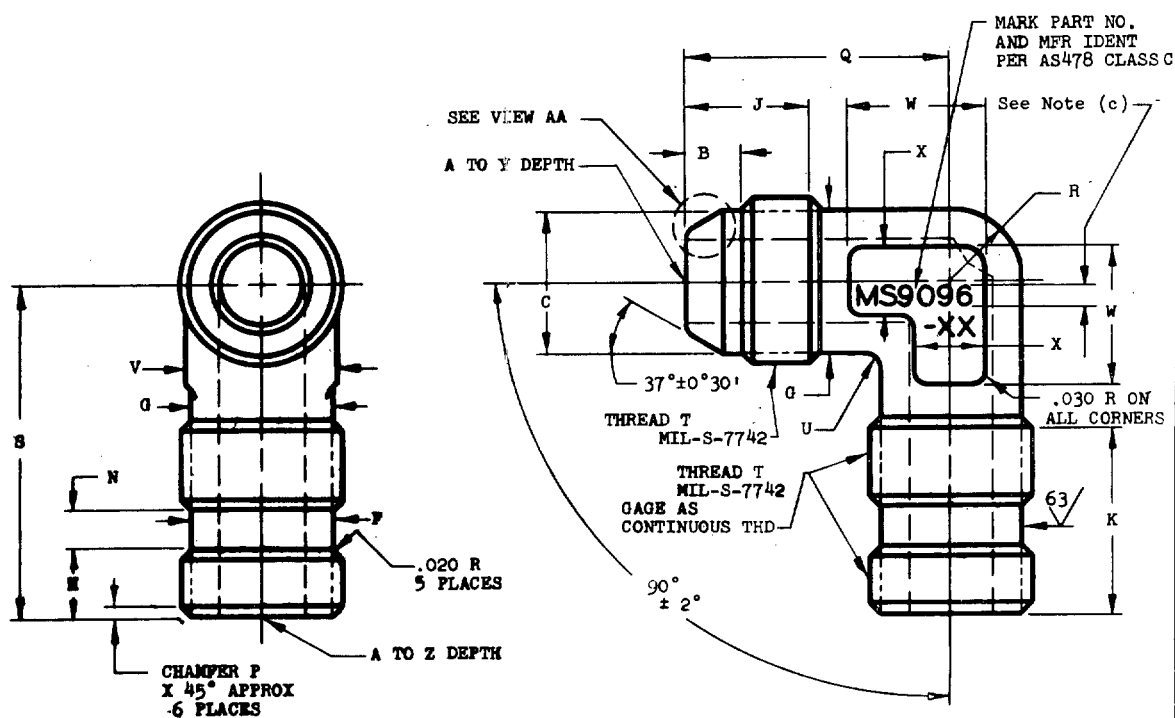
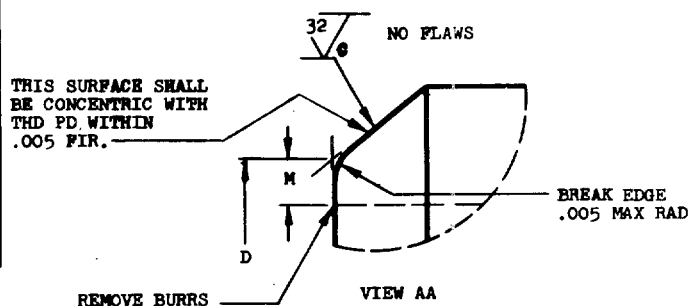


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FED. SUP CLASS.
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MS9096

SECTION THRU
THD PROFILE

**Ⓟ INACTIVE FOR DESIGN AFTER 26 OCTOBER 1972.
NO SUPERSEDING STANDARD.**

THIS STANDARD WAS DEVELOPED COOPERATIVELY WITH THE ENGINE AND PROPELLER UTILITY PARTS COMMITTEE OF THE SAE.

CUSTODIAN
USAF - 11
Navy - AS

MILITARY STANDARD

ELBOW, TUBE - AMS 4135, BOSS, 90°

MS9096

SHEET 1 OF 2

APPROVED 11 Apr 60 REVISED (A) 11 May 62 (B) 26 Oct 72

NOTICE: This Government drawing, specification, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have furnished, furnished, or in any way supplied the said drawing, specification, or other data to be required by legislation or otherwise do in any manner limit the liability of any other person or corporation, or exempting any right to manufacture, use, or sell any product or process that may in any way be related thereto.

MS9096

PUB. SUP. 62133

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PART NO.	E	NOM TUBE OD	THREAD T	A DIA	B +.015 -.000	C DIA +.000 -.010	D DIA ±.003	F DIA +.002 -.003 (a)(b)	G DIA	H ±.010	J ±.010	K ±.010
MS9096-08	.080	.500	.750-16UNF-3A	.387-.395	.229	.660	.462	.660	.650	.312	.489	.903
MS9096-09	.090	.562	.8125-16UN-3A	.434-.442	.229	.722	.509	.722	.710	.312	.489	.903
MS9096-10	.090	.625	.875-14UNF-3A	.480-.488	.255	.773	.555	.773	.765	.357	.585	1.018
MS9096-11	.110	.688	1.000-12UNF-3A	.542-.552	.304	.682	.619	.882	.870	.417	.663	1.122
MS9096-12	.110	.750	1.0625-12UN-3A	.604-.614	.304	.945	.681	.945	.935	.417	.663	1.122
MS9096-14	.110	.875	1.1875-12UN-3A	.729-.739	.304	1.070	.806	1.070	1.055	.417	.710	1.122
MS9096-16	.110	1.000	1.3125-12UN-3A	.839-.851	.312	1.195	.918	1.195	1.185	.417	.720	1.122
MS9096-18	.150	1.125	1.500-12UNF-3A	.948-.960	.312	1.382	1.027	1.382	1.365	.417	.767	1.122
MS9096-20	.150	1.250	1.625-12UN-3A	1.073-1.086	.363	1.507	1.153	1.507	1.495	.417	.767	1.122
MS9096-24	.170	1.500	1.875-12UN-3A	1.307-1.320	.374	1.756	1.387	1.756	1.745	.417	.889	1.122
MS9096-28	.240	1.750	2.250-12UN-3A	1.542-1.557	.447	2.131	1.652	2.131	2.120	.417	1.017	1.205
MS9096-32	.250	2.000	2.500-12UN-3A	1.776-1.791	.457	2.381	1.886	2.381	2.370	.417	1.142	1.320

PART NO.	M MIN	N +.010 -.000	P	Q ±.010	R RADIUS	S ±.010	U RADIUS	V	W	X	Y ±.010	Z ±.010	APPROX WEIGHT LBS/EA
MS9096-08	.030	.187	.040-.070	1.195	.325	1.460	.094	.688	.640	.430	1.257	1.523	.066
MS9096-09	.030	.203	.040-.070	1.195	.355	1.490	.094	.750	.660	.440	1.257	1.553	.076
MS9096-10	.030	.219	.050-.080	1.411	.382	1.680	.094	.812	.750	.500	1.473	1.743	.100
MS9096-11	.030	.234	.050-.080	1.614	.435	1.855	.094	.938	.750	.500	1.677	1.918	.145
MS9096-12	.030	.234	.050-.080	1.614	.467	1.885	.094	1.000	.750	.500	1.677	1.948	.158
MS9096-14	.030	.234	.050-.080	1.768	.527	1.945	.125	1.125	.750	.500	1.893	2.070	.191
MS9096-16	.030	.234	.050-.080	1.778	.592	2.010	.125	1.250	.750	.500	1.903	2.135	.229
MS9096-18	.030	.234	.050-.080	2.027	.682	2.100	.125	1.438	.900	.600	2.152	2.225	.338
MS9096-20	.030	.234	.050-.080	2.027	.750	2.165	.125	1.625	.900	.600	2.152	2.250	.385
MS9096-24	.030	.234	.050-.080	2.293	.872	2.290	.125	1.812	.900	.600	2.418	2.415	.509
MS9096-28	.044	.234	.050-.080	2.777	1.062	2.625	.188	2.188	.990	.600	2.902	2.750	.925
MS9096-32	.044	.234	.050-.080	3.027	1.188	2.975	.250	2.438	1.125	.750	3.152	3.100	1.197

- (a) DIAMETER F SHALL BE FREE OF TOOL MARKS.
 (b) DIAMETER F SHALL BE CONCENTRIC WITH PD OF THREAD WITHIN .0025 FIR.
 (c) .040-.060 FOR -08 THRU -16 SIZES; .090-.150 FOR -18 SIZE AND LARGER SIZES.
 (d) ALL DIAMETERS SHALL BE CONCENTRIC WITHIN .010 FIR UNLESS OTHERWISE SPECIFIED.
 (e) PARTING LINE MISMATCH .015 MAX.
 (f) E MIN WALL THICKNESS, BETWEEN FORGED SURFACE AND HOLE A.
 MATERIAL: ALUMINUM AMS 4135.
 FINISH: ANODIC TREATMENT AMS 2470.
 SURFACE ROUGHNESS: AS291 UNLESS OTHERWISE SPECIFIED MACHINED SURFACES TO BE 125 MICROINCHES.

PARTS SUBJECT TO FLUORESCENT PERMEANT INSPECTION PER AMS 2345.
 BREAK SHARP EDGES .003-.015 UNLESS OTHERWISE SPECIFIED.
 DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED: TOLERANCES; LINEAR DIMENSIONS ±.019.
 DIMENSIONS ARE TO SHARP CORNERS UNLESS OTHERWISE SPECIFIED.

DO NOT USE UNASSIGNED PART NUMBERS.
 AS & AMS ARE SAE PUBLICATIONS.

THIS STANDARD WAS DEVELOPED COOPERATIVELY WITH THE ENGINE AND PROPELLER UTILITY PARTS COMMITTEE OF THE

CUSTODIAN USAF - II Navy - AS	MILITARY STANDARD	MS9096
REQUIREMENT SPECIFICATION NONE	ELBOW, TUBE - AMS 4135, E033, 90°	SHEET 2 OF 2

MS FORM 230 E-25-70-3
1 NOV 60

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FOR CHANGES SEE SHEET 1.