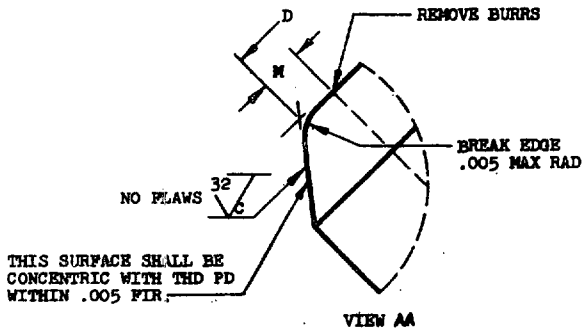
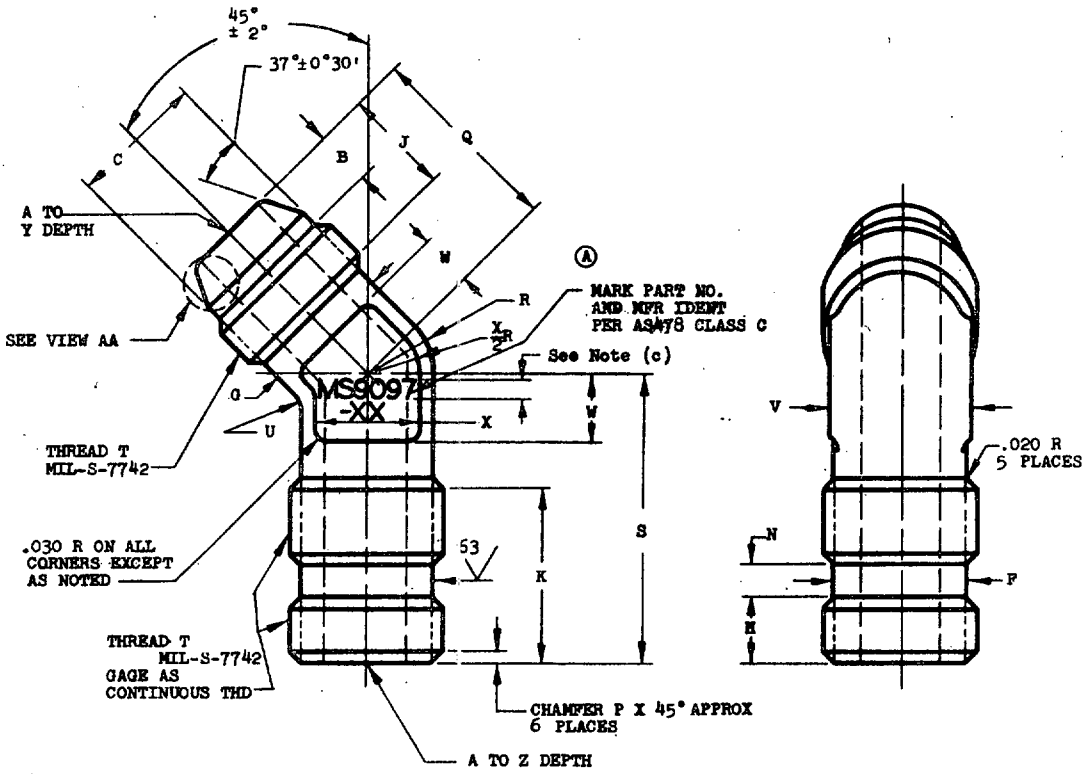
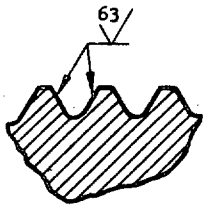
MS9097(ASG)

FED.SUP CLASS.
4730



VIEW AA





SECTION THRU
THD PROFILE

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

APPROVED 11 Apr 60 REVISED A 11 May 62

CUSTODIAN	MILITARY STANDARD	MS9097(ASG)
USAF - AFSC Navy - BuWeps	ELBOW, TUBE - AMS 4135, BOSS, 45°	
PROCUREMENT SPECIFICATION NONE		SHEET 1 OF 2

DD FORM 1 NOV 60 223

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MS9097(ASG)

FED. SUP CLASS. 4730

PART NO.	(A)(f) 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
MS9097-08	.080	.500	.750-16UNF-3A	.387- .395	.229	.660	.462	.660	.650	.312	.489	.903
MS9097-09	.090	.562	.8125-16UN-3A	.434- .442	.229	.722	.509	.722	.710	.312	.489	.903
MS9097-10	.090	.625	.875-14UNF-3A	.480- .488	.255	.773	.555	.773	.765	.357	.585	1.018
MS9097-11	.100	.688	1.000-12UNF-3A	.542- .552	.304	.882	.619	.882	.870	.417	.663	1.122
MS9097-12	.100	.750	1.0625-12UN-3A	.604- .614	.304	.945	.681	.945	.935	.417	.663	1.122
MS9097-14	.100	.875	1.1875-12UN-3A	.729- .739	.304	1.070	.806	1.070	1.055	.417	.710	1.122
MS9097-16	.120	1.000	1.3125-12UN-3A	.839- .851	.312	1.195	.918	1.195	1.185	.417	.720	1.122
MS9097-18	.140	1.125	1.500-12UNF-3A	.948- .960	.312	1.382	1.027	1.382	1.365	.417	.767	1.122
MS9097-20	.150	1.250	1.625-12UN-3A	1.073-1.086	.363	1.507	1.153	1.507	1.495	.417	.767	1.122
MS9097-24	.160	1.500	1.875-12UN-3A	1.307-1.320	.374	1.756	1.387	1.756	1.745	.417	.889	1.122
MS9097-28	.210	1.750	2.250-12UN-3A	1.542-1.557	.447	2.131	1.652	2.131	2.120	.417	1.017	1.205
MS9097-32	.210	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
MS9097-08	.030	.187	.040-.070	.945	.325	1.375	.094	.688	.310	.430	1.023	1.406	.058
MS9097-09	.030	.203	.040-.070	.945	.355	1.375	.094	.750	.310	.440	1.023	1.406	.066
MS9097-10	.030	.219	.050-.080	1.083	.387	1.531	.094	.812	.350	.500	1.177	1.625	.085
MS9097-11	.030	.234	.050-.080	1.255	.435	1.734	.094	.938	.420	.500	1.364	1.859	.126
MS9097-12	.030	.234	.050-.080	1.255	.467	1.734	.094	1.000	.420	.500	1.364	1.859	.137
MS9097-14	.030	.234	.050-.080	1.440	.527	1.734	.125	1.125	.420	.500	1.534	1.859	.166
MS9097-16	.030	.234	.050-.080	1.450	.592	1.734	.125	1.250	.420	.500	1.544	1.859	.195
MS9097-18	.030	.234	.050-.080	1.574	.682	1.750	.125	1.438	.450	.600	1.699	1.921	.276
MS9097-20	.030	.234	.050-.080	1.574	.750	1.750	.125	1.625	.450	.600	1.699	1.921	.308
MS9097-24	.030	.234	.050-.080	1.762	.872	1.750	.125	1.812	.450	.600	1.855	1.921	.395
MS9097-28	.044	.234	.050-.080	1.949	1.062	1.969	.188	2.188	.500	.660	2.199	2.188	.678
MS9097-32	.044	.234	.050-.080	2.199	1.188	2.203	.250	2.438	.500	.750	2.480	2.422	.885

(a) DIAMETER F SHALL BE FREE OF THREAD 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 SIZES -18 AND LARGER SIZES.
(d) ALL DIAMETERS SHALL BE CONCENTRIC WITHIN .010 FIR. UNLESS OTHERWISE SPECIFIED.
(A)(e) PARTING LINE MISMATCH .015 MAX.
(A)(f) E MIN WALL THICKNESS BETWEEN FORGED SURFACE AND HOLE A.

MATERIAL: ALUMINUM AMS 4135
FINISH: ANODIC TREATMENT AMS 2470.
SURFACE ROUGHNESS: AS 291. UNLESS OTHERWISE SPECIFIED MACHINED SURFACES TO BE 125 MICROINCHES.
PARTS SUBJECT TO FLUORESCENT PENETRANT INSPECTION PER AMS 2645.
BREAK SHARP EDGES .003-.015 UNLESS OTHERWISE SPECIFIED.
DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED: TOLERANCES; LINEAR DIMENSIONS ±.015, 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 SAE.

APPROVED 11 APR 60 REVISED (A) 11 May 62

CUSTODIANS
USAF - AFSC
Navy - Bureps

PROCUREMENT SPECIFICATION
NONE

MILITARY STANDARD

ELBOW, TUBE - AMS 4135, BOSS, 45°

MS9097(ASG)

SHEET 2 OF 2

DD FORM 1 NOV 60 233

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