

**MS9098**

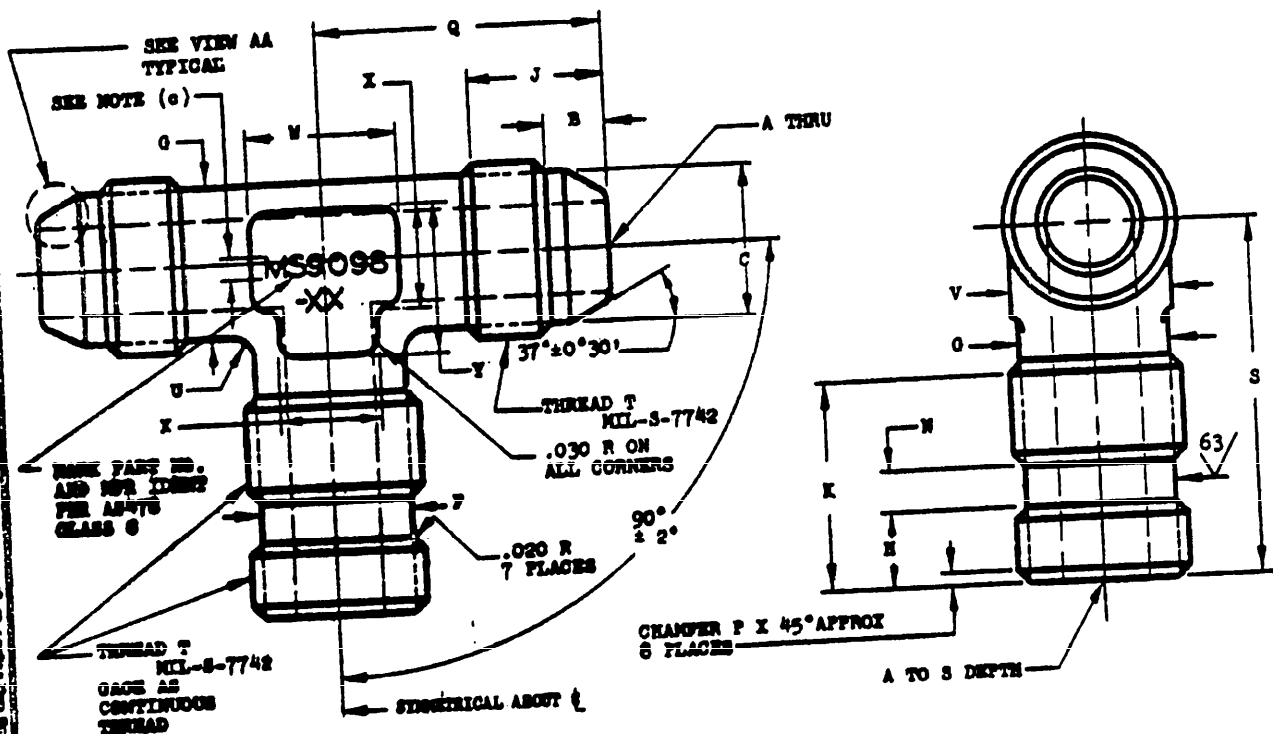
THIS SURFACE SHALL  
BE CONCENTRIC WITH  
THE PD WITHIN  
.005 FIR.

32/C NO FLAWS

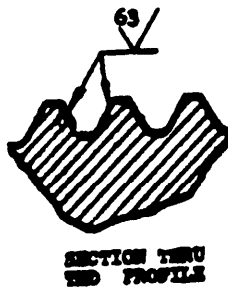
BREAK EDGE  
.005 MAX RAD

REMOVE BURRS

VIEW AA



ⓐ 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 NAE.

OUTSTANDING  
USAF - II  
NAVY - AS  
PROPOSED SPECIFICATION  
NONE

**MILITARY STANDARD**

THE, TUBE - AMS 4335, 2088

**MS9098**

SHEET 1 OF 2

15 OCT 72 E-25-70-7

APPROVED 13 Apr 60 REVISED 11 May 62 (B) 26 Oct 72

FED. SUP. CLAS.  
4730

MS9098

PART NO.	(f) Z	NON 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
MS9098-08	.100	.500	.750-16UNF-3A	.387-.395	.289	.660	.462	.660	.650	.312	.489	.903
MS9098-09	.100	.562	.8125-16UN-3A	.434-.442	.229	.722	.509	.722	.710	.318	.489	.903
MS9098-10	.100	.625	.875-14UNF-3A	.480-.488	.255	.773	.555	.773	.765	.357	.585	1.018
MS 9098-11	.130	.688	1.000-12UNF-3A	.542-.552	.304	.882	.619	.882	.870	.417	.663	1.122
MS 9098-12	.130	.750	1.0625-12UN-3A	.604-.614	.304	.945	.681	.945	.935	.417	.663	1.122
MS 9098-14	.130	.875	1.1875-12UN-3A	.729-.739	.304	1.070	.806	1.070	1.055	.417	.710	1.122
MS9098-16	.130	1.000	1.3125-12UN-3A	.839-.851	.312	1.195	.918	1.195	1.185	.417	.720	1.122
MS9098-18	.175	1.125	1.500-12UNF-3A	.948-.960	.312	1.382	1.087	1.382	1.365	.417	.767	1.122
MS9098-20	.175	1.250	1.625-12UN-3A	1.073-1.086	.353	1.507	1.153	1.507	1.495	.417	.767	1.122
MS9098-24	.185	1.500	1.875-12UN-3A	1.307-1.320	.374	1.756	1.387	1.756	1.745	.417	.889	1.122
MS9098-28	.255	1.750	2.250-12UN-3A	1.542-1.557	.447	2.131	1.652	2.131	2.120	.417	1.017	1.205
MS9098-32	.255	2.000	2.500-12UN-3A	1.775-1.791	.457	2.381	1.886	2.381	2.370	.417	1.148	1.320

PART NO.	N MIN	N +.010 -.000	P	Q +.010	S +.010	U RADIUS	V	W	X	Y	APPROX. WEIGHT LBS/EA
MS9098-08	.030	.187	.040-.070	1.195	1.460	.094	.688	.850	.430	.640	.084
MS9098-09	.030	.203	.040-.070	1.195	1.496	.094	.750	.880	.440	.660	.097
MS9098-10	.030	.219	.050-.080	1.411	1.680	.125	.812	1.000	.500	.750	.128
MS9098-11	.030	.234	.050-.080	1.614	1.855	.125	.938	1.000	.500	.750	.187
MS9098-12	.030	.234	.050-.080	1.614	1.855	.125	1.000	1.000	.500	.750	.201
MS9098-14	.030	.234	.050-.080	1.768	1.945	.125	1.125	1.000	.500	.750	.245
MS9098-16	.030	.234	.050-.080	1.778	2.010	.125	1.250	1.000	.500	.750	.282
MS9098-18	.030	.234	.050-.080	2.027	2.100	.125	1.438	1.200	.600	.900	.428
MS9098-20	.030	.234	.050-.080	2.027	2.165	.125	1.625	1.200	.600	.900	.477
MS9098-24	.030	.234	.050-.080	2.293	2.290	.125	1.812	1.200	.600	.900	.631
MS9098-28	.044	.234	.050-.080	2.777	2.625	.188	2.188	1.320	.660	.990	1.151
MS9098-32	.044	.234	.050-.080	3.027	2.975	.250	2.438	1.500	.750	1.125	1.475

- (a) DIAMETER F SHALL BE FREE OF THREAD MARKS.  
 (b) DIAMETER F SHALL BE CONCENTRIC WITH PD OF THREAD WITHIN .0025 FIN.  
 (c) .040-.060 FOR -8 THRU -16 SIZES; .090-.150 FOR -18 AND LARGER SIZES.  
 (d) ALL DIAMETERS SHALL BE CONCENTRIC WITHIN .010 FIN. UNLESS OTHERWISE SPECIFIED.  
 (e) PARTING LINE MISMATCH .015 MAX.  
 (f) Z 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  $\pm .015$ .

ALL DIMENSIONS ARE TO SHARP CORNERS UNLESS OTHERWISE SPECIFIED.

DO NOT USE UNASSIGNED PART NUMBERS.

AS, &amp; AMS ARE SAE PUBLICATIONS.

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

CUSTODIAN	MILITARY STANDARD		MS9098
USAF - II			
Navy - AS			
TECHNICAL SPECIFICATION	TEE, TUBE - AMS 4135, BOSS		
NONE			

MS FORM 239 E-25-70-7

01 0011

FOR CHANGES SEE SHEET 1