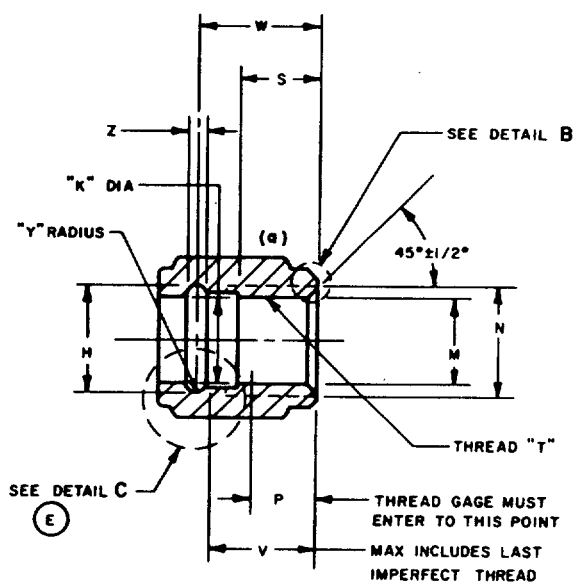
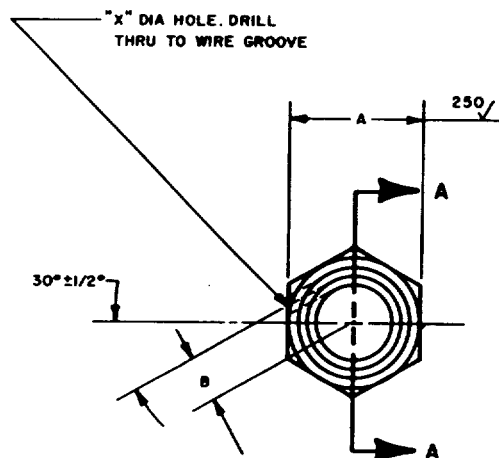
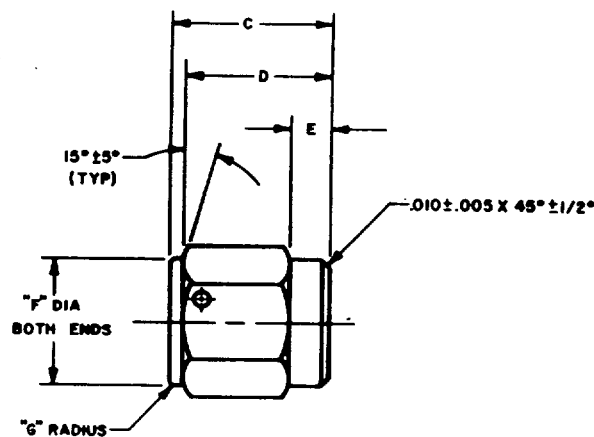
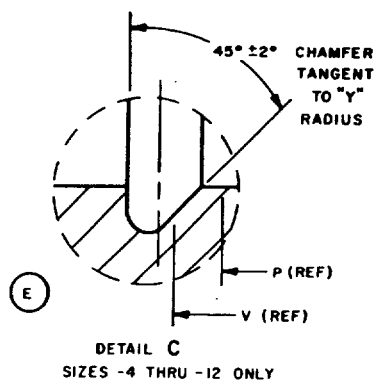
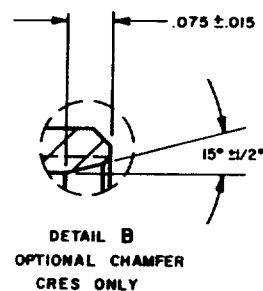


FED. SUP CLASS
4730

SECTION A-A



FOR CHANGES SEE SHEET 1, 2 AND 3.

P.A. AIR FORCE -99

Other Cost

ARMY -AV

NAVY -AS

PROCUREMENT SPECIFICATION
MIL - A-5070

TITLE

NUT, TUBE COUPLING -
SWIVEL

SUPERSEDES:

MS27233

MILITARY STANDARD

MS27073

SHEET 1 OF 3

APPROVED 1 SEPT 61 REVISED A 2 JUL 63 B 2 MAY 66 C 6 MAR 69 D 30 JUN 72 E 12 AUG 77

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

User activities:
ARMY - WC, ME, MI

Review activities:

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Review activities:

User activities:
ARMY - WC, ME, MI

FED. SUP CLASS
4730

DASH NUMBER		A	B	C	D	E	"F"	"G"	H	K	M	N
* STEEL	CRES ALUM											
-4	-4 C	.559	.194	.640	.551	.125	.557	.031	.461	.415	.393	.437
-5	-5 C	.621	.224	.687	.609		.620		.531	.477	.455	.500
-6	-6 C	.684	.252	.718	.656	.156	.682		.588	.534	.512	.562
-8	-8 C	.871	.341	.843	.754		.870	.047	.781	.693	.693	.750
-10	-10 C	.996	.396	.968	.858	.172	.995		.896	.810	.810	.875
-12	-12 C	1.246	.485	1.015	.875	.125	1.245	.062	1.102	.986	.986	1.062
-16	-16 C	1.496	.610	1.125	.983	.219	1.495	.077	1.352	1.236	1.236	1.312
-20	-20 C	1.812	.766	1.218	1.077	.312	1.807	.046	1.664	1.549	1.549	1.625
-24	-24 C	2.125	.893	1.406	1.234	.359	2.120	.093	1.917	1.799	1.799	1.875
-32	-32 C	2.750	1.200	1.734	1.515	.438	2.745	.110	2.542	2.424	2.424	2.500

P	S	THREAD "T"	V	W	"X"	"Y"	Z
MIN	± .015		MAX		± .005	± .001	
.403	.328	4375-20 UNJF-3B	.500	.500	.077	.038	
.401	.344	5000-20 UNJF-3B	.542	.550	.086	.043	
.413		5625-18 UNJF-3B	.569	.573			
.484		7500-16 UNJF-3B	.647	.660	.101		.100 ± .002
.542		8750-14 UNJF-3B	.727	.762			
.537		1.0625-12 UNJ -3B	.753	.780			
.563		1.3125-12 UNJ -3B	.813	.875	.131	FULL	
.661		1.6250-12 UNJ -3B	.911	.959			.128 ± .005
.844		2.5000-12 UNJ -3B	1.094	1.340			.000

MIL-A-5070 ADAPTERS-CARBON STEEL IN -4 THRU -6; ALUMINUM IN -8 THRU -32 SIZES.

P.A. AIR FORCE -99

Other Cust
ARMY - AV
NAVY - AS

TITLE

NUT, TUBE COUPLING -
SWIVEL

MILITARY STANDARD

MS27073

PROCUREMENT SPECIFICATION
MIL-A-5070

SUPERSEDES:
MS27233

SHEET 2 OF 3

APPROVED 1 SEPT 61 REVISED FOR CHANGES SEE SHEET 1, 2, AND 3

FED. SUP CLASS
4730

THREADS PER MIL-S-8879. MS27073 NUTS WITH MODIFIED MIL-S-7742 THREADS TO
TO BE USED UNTIL STOCKS ARE EXHAUSTED, BUT ARE NOT TO BE SUPPLIED AFTER
2 MAY 1967.

MATERIAL: ALUMINUM ALLOY, 2024 PER SPECIFICATION QQ-A-225 TEMPER PER MIL-
F-5509. CARBON STEEL PER QQ-S-637, C-1137 COLD DRAWN. CORROSION
RESISTANT STEEL PER QQ-S-763, CLASS 304, CLASS 316 OR CLASS 347.

FINISH: ALUMINUM ALLOY, ANODIZE PER SPECIFICATION MIL-A-8625, TYPE II. FOR
NUT USED ON FLARED END DYE BLUE AND ON FLARELESS, DYE YELLOW.
CARBON STEEL, CADMIUM PLATE, DYED BLACK PER SPECIFICATION QQ-P-
416, TYPE II, CLASS 2. CORROSION RESISTANT STEEL, SURFACE TREAT
PER MIL-S-5002.

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED: RADIUS OR BREAK ALL CORNERS
.005 + .005/- .000. REMOVE ALL BURRS AND SLIVERS. SURFACE ROUGHNESS PER ANSI
B46.1-1962 NOT TO EXCEED 125 AA. ALL INSIDE DIAMETERS MUST BE CONCENTRIC
WITHIN .005 TIR.

THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.

(a) IF REQUIRED, LOCKWIRE HOLES TO BE DRILLED IN ACCORDANCE WITH AS1043 AND
SUFFIX "L" ADDED TO PART NUMBER. EXAMPLE: MS27073-8CL.

NEXT ASSEMBLY: MS27223 & MS27225.

NOTE: THE GOVERNMENT HAS A ROYALTY FREE LICENSE UNDER THE FOLLOWING LISTED
PATENTS FOR THE BENEFIT OF MANUFACTURERS OF THE ITEM EITHER FOR THE GOVERNMENT
OR FOR USE IN EQUIPMENT TO BE DELIVERED TO THE GOVERNMENT. (U.S. PATENT
NOS. 2,833,567; 3,044,163; 3,055,682)

THIS CHANGE IS REQUIRED FOR NAS 1760 FITTING DESIGN APPLICATIONS. EXISTING
PARTS MAY BE USED ON ALL OTHER APPLICATIONS.

APPROVED 1 SEPT 61 REVISED FOR CHANGES SEE SHEETS 1, 2 AND 3

P.A. AIR FORCE - 99 Other Cust ARMY - AV NAVY - AS	TITLE NUT, TUBE COUPLING - SWIVEL	MILITARY STANDARD MS 27073
PROCUREMENT SPECIFICATION MIL - A - 5070	SUPERSEDES: MS27233	SHEET 3 OF 3

User activities:
ARMY - WC, MC, MI

Review activities:

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