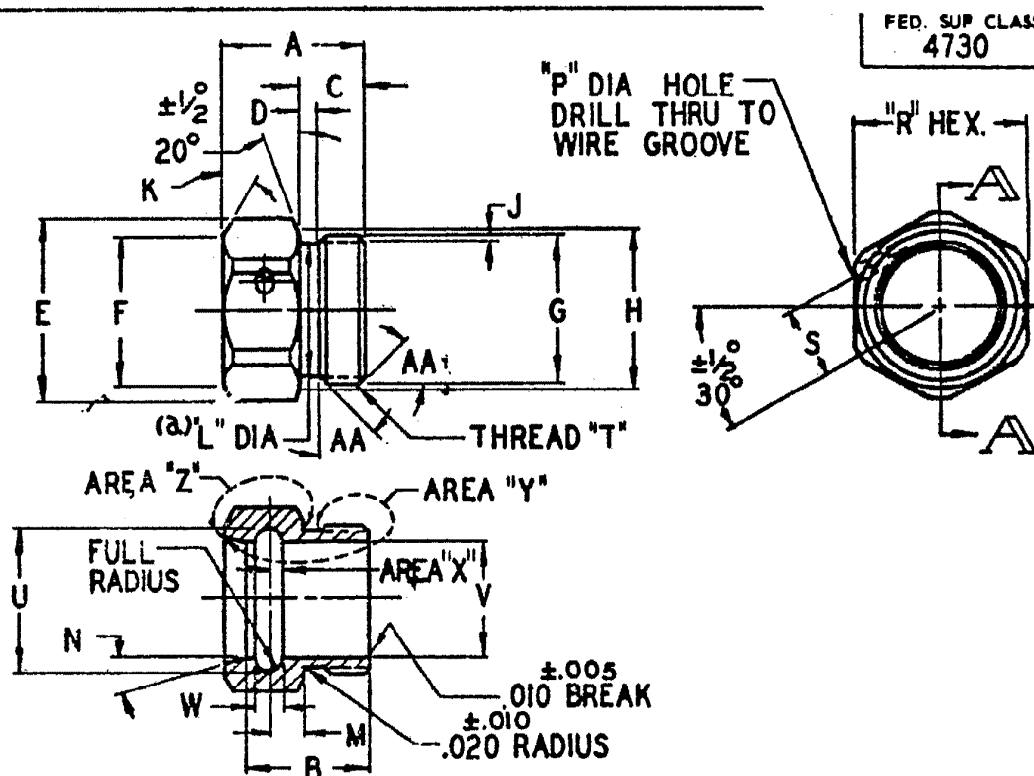


Within a period is approved by the Department of Defense and is mandatory on all contractors, selection for all new engineering and design applications and for repetitive use shall be made from this document.



SECTION A-A
THREADS PER SPEC MIL-S-7742.

MATERIAL: CORROSION RESISTING STEEL, CLASS 304, CONDITION "A"
SPECIFICATION QQ-S-763.
ALUMINUM ALLOY, 2024, SPECIFICATION QQ-A-225,
TEMPER PER MIL-F-5509.

FINISH: CORROSION RESISTING STEEL, PASSIVATE PER PROCUREMENT SPECIFICATION.
ALUMINUM ALLOY, ANODIZE PER SPECIFICATION MIL-A-8625, TYPE II. FOR UNION USED ON FLARED AND FLANGED NIPPLE ASSYS DYE BLUE AND ON FLARELESS, YELLOW.

STEEL ONLY: DRY-FILM LUB AREA "Y" IN ACCORDANCE WITH MIL-L-8937. NO DRY-FILM ALLOWED IN AREA "Z". DRY-FILM ALLOWED IN AREA "X" BUT NOT REQD.

(a) THREAD GAGE MUST ENTER THREAD RELIEF. THREAD MARKS ON
THREAD RELIEF SHALL NOT BE CAUSE FOR REJECTION.

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

THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED
HEREIN.

THIS IS A DESIGN STANDARD FOR MANUFACTURING PURPOSES. THE
ITEM IS ONLY PROCURED AS AN INTEGRAL PART OF ADAPTER ASSY.
NEXT ASSEMBLIES MS27082 THRU MS27088.

ENTIRE STANDARD REVISED. (B) FOR CHANGES SEE SHEETS 1 AND 2.

P.A. AIR FORCE - II	TITLE UNION, NIPPLE	MILITARY STANDARD	
Other Cust ARMY - MO NAVY - WP		MS2707I	
Procurement Specification	SUPERSEDES	SHEET	OF 1 2

APPROVED 1 SEP 31 REVISED (A) 2 JUL 63 (B) 2 MAY 66

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)

10

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

Review Activities:

Army - MD
Navy - WP
Air Force - 11, 69

User Activities:

Army - MI
Navy - SH

Other Cust
ARMY - MO
NAVY - WP
Supersedes

SHEET 2 OF

AIR FORCE-11

UNION, NIPPLE

MS27071

MILITARY STANDARD

(B) ENTIRE STANDARD REVISED.

DASH NUMBER		A		B		C ±.005		D ±.005		E	F	G		H	J	K
STEEL	ALUM	±.010				STEEL	ALUM	STEEL	ALUM	±.005	±.02			±.02		±1/2°
-4C	—	.480	—	—	—	.250	—	.075	—	.634	.50	.500	±.000/-.006	.53	.031	±.005
-5C	—	.495	—	—	—	.245	—	.085	—	.707	.56	.562	±.000	.59	.031	30°
-6C	—	.515	—	—	—	.245	—	.050	—	.779	.62	.625	-.007	.66	.015	MAX
-8C	(b) —	.577	—	—	—	.265	—	.085	—	.995	.81	.750	—	.84	.031	20°
-10C	-10D	.608	—	—	—	.295	.295	.100	.100	1.140	.94	.875	±.000	.97	.035	30°
-12C	-12D	.715	.595	—	—	.355	.338	.100	.083	1.284	1.06	1.000	-.008	1.09	.035	20°
-16C	-16D	.791	.640	±.010	—	.385	.365	.110	.090	1.717	1.44	1.375	±.000	1.47	.038	30°
-20C	-20D	.835	.665	—	—	.395	.395	.085	.085	2.078	1.75	1.688	-.009	1.78	.038	20°
-24C	-24D	.995	.765	±.005	—	.495	.495	.100	.100	2.439	2.06	1.938	±.000/-.010	2.09	.043	30°
(c) -3C	—	.448	.395	±.005	—	.230	—	.075	—	.490	.38	.375	±.000/-.006	.41	.031	30°

L	M	N	P	R	S	THREAD T	PITCH DIAMETER	U	V	W	AA
±.005 -.000	±.003	±1/2°	±.005	±.02	±.005			±.005 -.000	±.005 -.000		±5°
.438	.086	—	.078	.56	.185	1/2-28 UNEF-3A	.4768/.4740	.443	.379	.074	45°
.491	.109	—	.086	.62	.203	9/16-24 NEF-3A	.5354/.5325	.487	.422	.084	30°
.553	.109	—	.086	.69	.240	5/8-24 NEF-3A	.5979/.5949	.562	.497	.098	45°
.678	.110	—	.101	.88	.301	3/4-24 NS-3A	.7229/.7198	.698	.622	.098	30°
.790	.116	—	.101	1.00	.346	7/8-20 UNEF-3A	.8425/.8392	.788	.712	.128	45°
.915	.135	15°	.131	1.12	.406	1-20 UNEF-3A	.9675/.9641	.938	.832	.128	30°
1.282	.150	10°	.131	1.50	.571	1 3/8-18 NEF-3A	1.3389/1.3353	1.268	1.156	.128	45°
1.594	.160	15°	.131	1.81	.697	1 1/2-18 NEF-3A	1.6514/1.6476	1.519	1.411	.128	30°
1.833	.160	15°	.131	2.12	.814	1 5/16-16 N-3A	1.8969/1.8929	1.754	1.641	.128	45°
.320	.086	—	.078	.44	.126	3/8-32 NEF-3A	.3547/.3522	.326	.262	.074	45°

(b) MS27071-8D CANCELLED AFTER 2 MAY 1966. USE MS27071-8C.
(c) MS27071-3C INACTIVE FOR DESIGN AFTER 2 MAY 1966. USE ONLY IN ASSEMBLIES FOR REPLACEMENT OF IDENTICAL ITEMS IN EXISTING MILITARY EQUIPMENT.

APPROVED 1 SEP 61 REVISED (B) FOR CHANGES SEE SHEETS 1 AND 2.

(B) 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)

FED SUP CLASS
4730