

User Activities:  
Army-WC, ME, MI  
Navy-A5  
Air Force-82

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.

		FED SUP CLASS 4730
<p>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; 3,055,662)</p>		
<p>APPROVED 1 Sep 66 REVISED (A) 2 May 66 (B) 30 Jun 72</p>		
<p>(B) FOR CHANGES SEE SHEETS 1, 2 AND 3</p>		
P.A. Air Force-II Other Cust Army-AV Navy-AS Procurement Specification MIL-F-27272	TITLE <b>NIPPLE, FLARED, TUBE TO HOSE - SWIVEL NUT</b>	MILITARY STANDARD <b>MS27075</b>
SUPERSEDES:		SHEET 1 OF 3

User Activities:  
Army - WC, ME, MI

Review Activities:  
Army - AV  
Navy - AS  
Air Force - 82

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FED SUP CLASS  
4730

DASH NO.		A		"B" ± .005		"C" ± .005		"D" ± .005		E ± .005	
STEEL	ALUM			STEEL	ALUM	STEEL	ALUM	STEEL	ALUM	STEEL	ALUM
(B) -3/-4C	—	.275	±.005	.735	—	.255	—	.075	—	.125	—
-4C	—	.290		—	—	—	—	—	—	—	—
-5C	—	.325		.730	—	.250	—	.085	—	—	—
-6C	—	.360		—	—	—	—	.050	—	.135	—
-8C	-8D	.440		.870	.865	.270	.265	.085	.080	.150	.155
-10C	-10D	.485		.950	.957	.300	.307	.100	.107	.170	.163
-12C	-12D	.465		1.035	1.018	.360	.343		.083	.190	.207
-16C	-16D	.545		1.120	1.100	.390	.370		.090	.220	.240
-20C	-20D	.600		1.335	1.341	.400	.406	.085	.091	.280	.274
-24C	-24D	.695		1.480	1.480	.500	.500	.100	.100		.280
(d) -3C	—	.275		.555	—	.235	—	.075	—	.125	—

F		G		H +.000 -.005	J ±.005	K		L		M		N ±.02
.400	±.005	.620	±.005	.210	.295	.031	±.005	.500	+.000 -.006	.161	+.005 -.000	.53
.430		.675	±.015 -.000	.273	.360	—		.562	—	.224		.59
.495		.750		.335	.425	.015		.625	+.000 -.007	.261		.66
.600		.960		.431	.530	.031		.750	—	.345		.84
.785	±.010	1.105	±.015 -.000	.531	.625	—	±.005	.875	+.000 -.008	.440	+.006 -.000	.97
.910		1.385		.655	.760	.035		1.000	—	.560		1.22
1.277		1.680		.905	1.040	—		1.375	+.000 -.009	.828		1.47
1.589		1.979		1.156	1.275	.038		1.688	—	1.058		1.78
1.828	±.005	2.340	±.004 -.000	1.406	1.550	.043	±.005	1.938	+.000 -.010	1.282	+.005 -.000	2.09
.300		.545		.140	.225	.031		.375	+.000 -.006	.090	+.008 -.000	.47

P ± 5°		R		S		THREAD "T"	PITCH DIAMETER	"U" STEEL ONLY		V ±.02				
STEEL	ALUM													
45°	—	.015	+.005 -.000	.031	±.005	1/2-28UNEF-3A	.4768/.4740	.25	±.05	.56				
	—					9/16-24UNEF-3A	.5354/.5325			.62				
	—					5/8-24UNEF-3A	.5979/.5949			.69				
30°	—	.020	±.005	.015	MAX	5/8-24UNEF-3A	.5979/.5949	.32	±.12	.88				
45°	30°			.031	±.005	3/4-24UNS-3A	.7229/.7198			.35	±.15	1.00		
				—	—	7/8-20UNEF-3A	.8425/.8392					1.25		
				—	—	1-20UNEF-3A	.9675/.9641							
				—	—	1 3/8-18UNEF-3A	1.3389/1.3353					.39	±.19	1.50
				—	—	1 1/16-18UNEF-3A	1.6514/1.6476					.48	±.28	1.81
				—	—	1 1/8-16UN-3A	1.8969/1.8929					.50	±.30	2.12
—	—			.035	±.005	3/8-32UNEF-3A	.3547/.3522			.18	±.05	.50		
—	—	.010	±.004 -.000	.031	±.005	3/8-32UNEF-3A	.3547/.3522	.18	±.05	.50				

P.A. Air Force-11		TITLE NIPPLE, FLARED, TUBE TO HOSE - SWIVEL NUT	MILITARY STANDARD	
Other Cust Army - AV Navy - AS			MS27075	
Procurement Specification MIL-I-27272		SUPERSEDES:	SHEET 2 OF 3	

DD FORM 1 SEP 57 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

APPROVED 1 Sep 61 Revised (B) FOR CHANGES SEE SHEETS 1, 2 AND 3.

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; 3,055,652)

FED SUP CLASS  
4730

MATERIAL : CORROSION RESISTING STEEL : CLASS 304,  
CONDITION "A", SPECIFICATION QQ-S-763,  
ALUMINUM ALLOY : 6061-T651,  
SPECIFICATION QQ-A-225/8

FINISH : CORROSION RESISTING STEEL : PASSIVATE  
PER MIL-F-27272.  
ALUMINUM ALLOY : ANODIZE SPECIFICATION  
MIL-A-8625, TYPE II, DYE BLUE.

STEEL ONLY : DRY-FILM LUBRICATE AREA "X" IN ACCORDANCE  
WITH MIL-L-8937. DRY-FILM ALLOWED AREA "Y".  
NO DRY-FILM ALLOWED IN AREA "Z".

DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED :  
RADIUS OR BREAK ALL CORNERS .005 + .005 -.000.  
(B) REMOVE ALL BURRS AND SLIVERS. SURFACE ROUGHNESS  
PER ANSI B46.1- 1962 NOT TO EXCEED 125 AA. ALL  
DIAMETERS MUST BE CONCENTRIC WITHIN .010 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 ASSEMBLIES.

THREADS PER SPECIFICATION MIL-S-7742.

- (a) THREAD GAGE MUST ENTER THREAD RELIEF (-10 THRU  
-24 SIZES ONLY).
- (b) ALL DIAMETERS WITHIN "B" DIMENSION SHALL BE  
CONCENTRIC WITHIN .005 TIR.
- (c) THREADS MUST BE ROLLED (CORROSION RESISTING  
STEEL ONLY)
- (d) MS27075-3C INACTIVE FOR DESIGN AFTER 2 MAY 1966.  
USE ONLY IN ASSEMBLIES FOR REPLACEMENT OF  
IDENTICAL ITEMS IN EXISTING MILITARY EQUIPMENT.

ANY DESIGN TO THE LEFT OF PLANE B-B IS ACCEPTABLE  
PROVIDED "A" DIM., THE MATERIALS SPECIFIED AND THE  
FABRICATION NOTES OF THIS STANDARD ARE MET.

NEXT ASSEMBLY MS27061

REVIEW Activities:  
Army - AV  
Navy - AS  
Air Force - 82

User Activities: WG, ME, MI  
Army -

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Procurement Specification MIL-F-27272	SUPERSEDES:	SHEET 3 OF 3

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