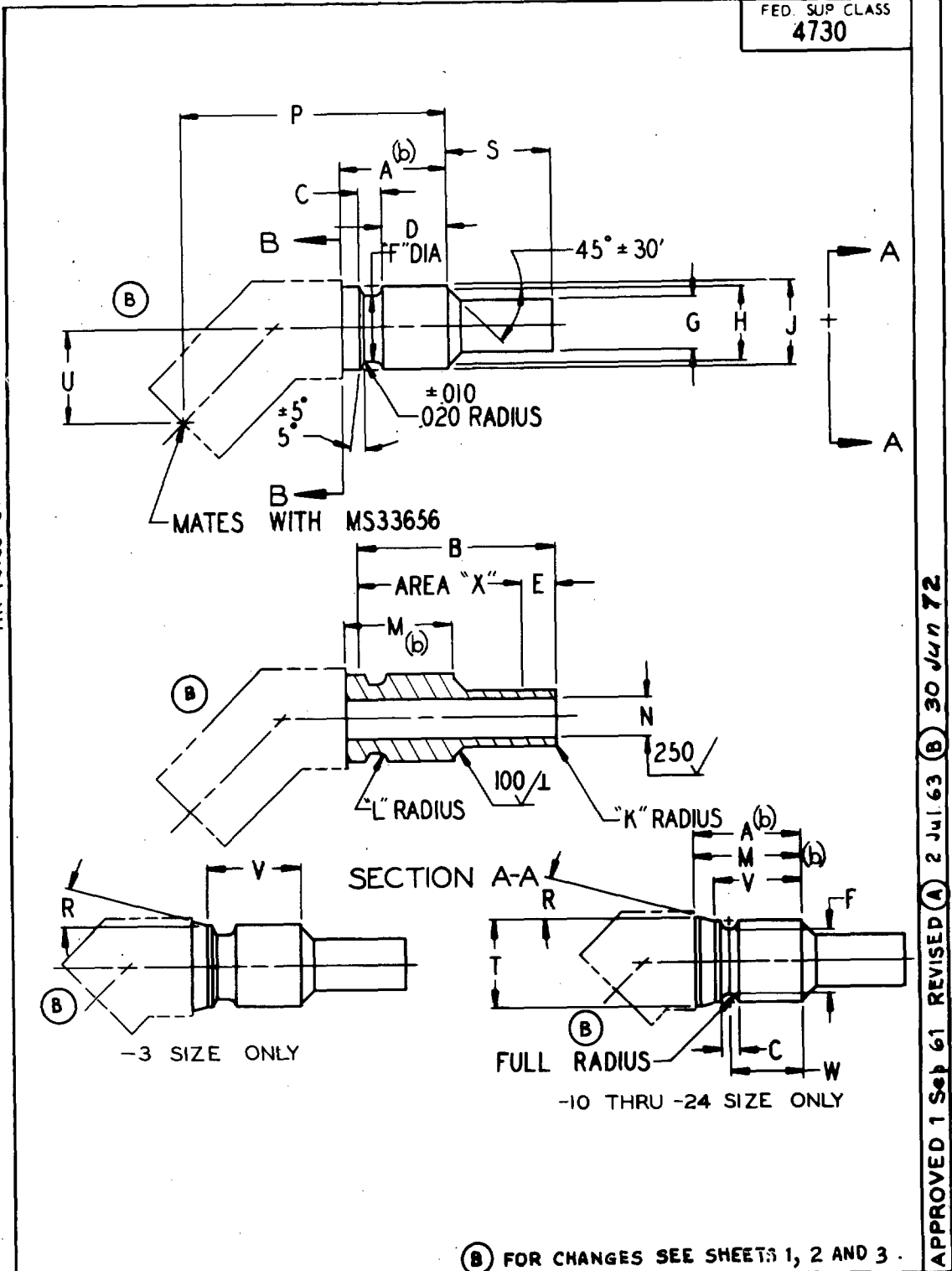


FED. SUP CLASS
4730

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

Review Activities:
Army - AV
Navy - AS
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.



APPROVED 1 Sep 61 REVISED (A) 2 Jul 63 (B) 30 Jun 72

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)

P. A. Air Force - 11 (B) Other Cust Army - AV Navy - AS Procurement Specification MIL-F-27272	TITLE (B) ELBOW, NIPPLE END, FLARED, TUBE TO HOSE-45° SWIVEL NUT SUPERSEDES:	MILITARY STANDARD MS27087 SHEET 1 OF 3
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FED SUP CLASS
4730

DASH	NO.		"A" MIN	B MIN	C		D		E		F		G +.005 -.000
	STEEL	ALUM											
(B) -3/-4C			.515	.870	.106	±.010	.307	.25	±.05	.288	+.005 -.000	.205	
-4C													
-5C			.520	.890	.116	.322	.32	±.12	.497	.316	.426	.268	
-6C			.555										
-8C	-8D		.630	1.030	.140	±.020	.335	.32	±.12	.497	.426	.268	
-10C	-10D		.654	1.130	.098	±.004 -.000		.35	±.15	.586	.526	.268	
-12C	-12D		.755	1.240						.674	.650	.268	
-16C	-16D		.831	1.340	.128	±.005 -.000		.39	±.19	1.001	±.008 -.000	.900	
-20C	-20D		.881	1.570							.48	±.28	1.255
-24C	-24D		1.035	1.720			.50	±.30	1.490	±.005 -.000	1.401		
(d) -3C			.475	.680	.106	±.010	.287	.18	±.05	.171	±.005 -.000	.135	

H ±.005	J +.005 -.000	K		L ±.004	"M" MIN	N		P		"R" MAX
		STEEL	ALUM							
.295	.373	.015	+.005 -.000	.036	.485	.161	+.005 -.000	1.078	±.020	
.360	.416				.501	.224				1.117
.425	.491	.020	±.005	.040	.521	.261	+.006 -.000	1.224	±.035	
.530	.616				.583	.345				.345
.625	.706	.030	±.005	.047	.620	.440	+.006 -.000	1.486	±.035	15° 30'
.760	.826				.720	.560				.560
1.040	1.150	.035	±.004 -.000	.036	.796	.828	±.005 -.000	2.252	±.020	10° 30'
1.275	1.405				.846	1.058				1.058
1.550	1.635				1.000	1.253	1.282	2.561		15° 30'
.225	.256	.010	±.004 -.000	.036	.453	.090	±.005 -.000	1.013	±.020	

S	"T" MAX	U		V		"W" +.005 - .000	
		STEEL	ALUM			STEEL	ALUM
.480	±.010	.283	±.020				
		.322					
		.340					
		.389					
.600	±.015	.465	±.035				
.650		.536				.420	.427
.675	±.025	.900	.623	.625	±.010	.500	.500
.730		1.190	.660	.670		.545	.545
.935		1.485	.768	.695		.565	.571
.980		1.750	.867	.795		.665	.665
.320	±.010		.283	±.020	.425	±.005	

User Activities: Army - WC, MC, MI
 Review Activities: Army - AV, Navy - AS, Air Force - 82

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

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P A Air Force-11 Other Cust Army - AV Navy - AS Procurement Specification MIL-F-27272	(B) ELBOW, NIPPLE END, FLARED, TUBE TO HOSE-45° SWIVEL NUT	MILITARY STANDARD MS27087
SUPERSEDES	SHEET	2 OF 3

FED. SUP CLASS
4730

MATERIAL : CORROSION RESISTING STEEL : CLASS 304 OR 321 COLD FIN.
CONDITION "A" SPECIFICATION QQ-S-783.
ALUMINUM ALLOY : 6061-T6 OR T651.
SPECIFICATION QQ-A-367 OR QQ-A-225/B

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

DRY-FILM LUBRICATE AREA "X" IN ACCORDANCE WITH MIL-L-8937. NO
OVERSPRAY ALLOWED.

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 128 A A. ALL DIAMETERS
WITHIN LENGTH "A" PLUS "S" 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 ASSEMBLIES.

- (a) MS27087-3C INACTIVE FOR DESIGN AFTER 2 MAY 1966. USE ONLY IN
ASSEMBLIES FOR REPLACEMENT OF IDENTICAL ITEMS IN EXISTING
MILITARY EQUIPMENT.
- (b) USE "A" DIM. WHEN THE ADJACENT DIA TO THE LEFT OF PLANE B-B
IS GREATER THAN "J" DIM. WHEN THE ADJACENT DIA IS EQUAL TO OR
LESS THAN "J" DIM. "M" DIM. MAY BE USED IN PLACE OF "A" DIM.

THE BORE OF THE ELBOW, (-10 THRU -24 SIZE) SHALL NOT BE LESS THAN THE ID
OF THE NIPPLE. OVALITY SHALL NOT EXCEED 7.5 PERCENT OF NOMINAL TUBING OD.

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

ANY FORGED DESIGN IS ACCEPTABLE FOR -3 THRU -8 SIZE. ANY BENT TUBE
DESIGN IS ACCEPTABLE FOR -10 THRU -24 SIZE.

NEXT ASSEMBLY MS27067-3 THRU -8 SIZE
AND MS27063-10 THRU -24 SIZE.

Review Activities: Army-AV, Navy-AS, Air Force-82
 User Activities: Army-WC, ME, MI

APPROVED 1 sep 61 REVISED (B) FOR CHANGES SEE SHEETS 1, 2 AND 3

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P.A. Air Force-II Other Cust Army-AV Navy-AS Procurement Specification MIL-F-27272	TITLE (B) ELBOW, NIPPLE END, FLARED, TUBE TO HOSE-45° SWIVEL NUT	MILITARY STANDARD
		MS27087
	SUPERSEDES:	SHEET 3 OF 3