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This standard has been approved by the Department of the Air Force and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

FED. SUP CLASS 4730	
<p>SECTION A-A</p> <p>MATES WITH MS33514</p> <p>DETAIL C-C</p> <p>F6 SIZE ONLY</p>	
P.A. USAF-11 Other Cust	TITLE ELBOW, FLARELESS TUBE TO HOSE-45° SWIVEL NUT
Procurement Specification	SUPERSEDES:
MILITARY STANDARD MS27637	
SHEET 1 OF 2	

APPROVED 17 Mar 71 (4) 18 Dec 87

NOTE: THE GOVERNMENT HAS A ROYALTY FREE LICENSE UNDER THE FOLLOWING 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)

DD FORM 672 (Limited coordination) 1 SEP 61

Project 4730-F024 MTT

FED. SUP. CLASS
4730

MS PART NUMBER	A MIN	B ±.010	C	D +.005 -.000	E ±.005	F +.000 -.005	G +.000 -.005
MS27637-4C	.633	.550	.116	±.010	.413	—	.346 .250
MS27637-6C	.709	.620	.140	±.020	.442	—	.395 .343
MS27637-8C	.779	.737			.472	—	.564 .445
MS27637-10C	.660	1.050	.170		.405 .150	.679	.588

H ±.005	J ±.003	K ±.30'	L ±.004	M MIN	N ±.005	P	R
.420	.443	—	.040	.578	.161	1.519	.515
—	.497	—	.047	.654	.271	1.840	.663
.610	.680	—		.692	.375	2.179	.761
.762	.823	10"	.062	.606	.465	1.824	.756

- (d) ON -4, -6, AND -8 SIZE 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.

ON -10 SIZE THE BENT TUBE, BEFORE FORMING, SHALL NOT BE LESS THAN THE NIPPLE I.D. OVALITY OF ALL BENT TUBE FITTINGS SHALL NOT EXCEED 7.5 PERCENT OF NOMINAL TUBING O.D.

ANY FORGED DESIGN FITTING IS ACCEPTABLE FOR -4, -6, AND -8 SIZE
ANY BENT TUBE DESIGN FITTING IS ACCEPTABLE FOR -10 SIZE.

NEXT ASSEMBLY MS27633

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

THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.

DIMENSIONS IN INCHES, UNLESS OTHERWISE SPECIFIED: RADIUS OR BREAK ALL CORNERS .005 + .003 / -.000. REMOVE ALL BURRS AND SLIVERS. SURFACE ROUGHNESS PER ANSI B46.1-1962 NOT TO EXCEED 125 AA. ALL DIAMETERS WITHIN LENGTH "A" + "B" MUST BE CONCENTRIC WITHIN .005 TIR.

FINISH: CORROSION RESISTING STEEL, PASSIVATE PER MIL-F-83294 SPECIFICATION.

MATERIAL: CORROSION RESISTING STEEL, CLASS 304, 304L, 321, 316 AND 347, CONDITION "A" PER SPEC QQ-B-763

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PA USAF-11	ELBOW, FLARELESS, TUBE TO HOSE-45° SWIVEL NUT	MILITARY STANDARD
Other Cust		MS27637
Procurement Specification	SUPERSEDES	SHEET 2 OF 2

DD FORM 672