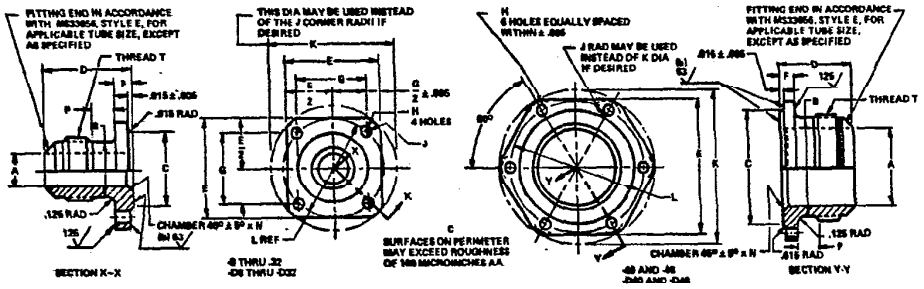
FED. SUP CLASS
4730

USER ACTIVITIES: Army – ME, AV
Navy – AS
Air Force – 99

REVIEWER ACTIVITIES: Army – ME, AV
Navy – AS
Air Force – 99
DLA – 3S



DASH NO. (C) STEEL	AL ALLOY	TI ALLOY	TUBING OD	(C) THREAD "P" (REF)
-8	-D8	-T8	.500	3/4-16UNJF-3A
-10	-D10	-T10	.625	7/8-14UNJF-3A
-12	-D12	-T12	.750	1-1/16-12UNJ-3A
-12-16	-D12-16	-T12-16		
-16	-D16	-T16	1.000	1-5/16-12UNJ-3A
-20	-D20	-T20	1.250	1-5/8-12UNJ-3A
-20-24	-D20-24	-T20-24		
-24	-D24	-T24	1.500	1-7/8-12UNJ-3A
-32	-D32	-T32	2.000	2-1/2-12UNJ-3A
-40 (a)	-D40 (a)	-T40 (a)	2.500	3-12UNJ-3A
-48 (a)	-D48 (a)	-T48 (a)	3.000	3-1/2-12UNJ-3A

DASH NO. (C) STEEL	AL ALLOY	TI ALLOY	A ±.003 DIA	B DIA	C +.000 -.005 DIA	D	E	
-8	-D8	-T8	.391	.470	.875	1.203	1.390	
-10	-D10	-T10	.484	.773	1.000	1.398	1.438	
-12	-D12	-T12	.600	.891	1.250	1.406	1.594	±.016
-12-16	-D12-16	-T12-16						
-16	-D16	-T16	.844	1.156	1.500	1.500	1.750	
-20	-D20	-T20	1.078	1.438	1.844	1.625	2.188	
-20-24	-D20-24	-T20-24						
-24	-D24	-T24	1.312	1.688	2.125	1.750	2.375	
-32	-D32	-T32	1.781	2.250	2.750	2.125	3.000	±.020
-40 (a)	-D40 (a)	-T40 (a)	2.281	2.812	3.281	2.500	4.000	
-48 (a)	-D48 (a)	-T48 (a)	2.781	3.344	3.781	2.125	4.500	

(C) denotes changes

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.

APPROVED 9 AUG 57 REVISED (A) 1 APR 59 (B) 22 MAY 70 (C) 16 JUN 1978

P.A. (C) Air Force -99 Other Cust Navy -AS	INTERNATIONAL INTEREST	TITLE ADAPTER, STRAIGHT, FLANGE TO TUBE	MILITARY STANDARD MS20760
Procurement Specifications MIL-F-5509	SUPERSEDES: AN760		SHEET 1 OF 2

DD FORM 1 MAY 73 672 (COORDINATED) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE DATE

FED. SUP CLASS
4730

DASH NO.	F ±.005	G ±.005	H +.010 -.000 DIA	J RAD	K DIA	L ±.005 DIA	N DIA	P +.015 -.000	WEIGHT MAX (LBS.) AL ALLOY	STEEL	TI ALLOY
8		.950			1.782	1.344	.451	.304			
10		1.038			1.906	1.468	.544	.407			
12		1.156			2.094	1.635			.09	.25	
12-16	.250		.205	.219			.669	.417	.10	.28	
16		1.312			2.312	1.855	.904	.454	.12	.35	
20		1.656		.266	2.875	2.342			.19	.53	
20-24			.266				1.138	.480	.23	.64	
24		1.812		.281	3.094	2.562	1.372		.25	1.29	
32	.312	2.375		.312	3.953	3.359	1.841	.605	.45	1.82	
40(a)			.328	.375	4.500	3.812	2.341	.704	.65	2.32	
48(a)				.625	5.000	4.312	2.841	.751	.83		

(a) NOT TO BE USED UNLESS APPROVED BY PROCURING ACTIVITY.
©(b) ANNULAR TOOL MARKS UP TO 63 MICROINCHES AA MAX WILL BE ALLOWED.
REDUCTION BY FORGING DRAFT ANGLE OF 7° MAXIMUM IS PERMISSIBLE.
POROSITY TEST: FINISHED CASTINGS SHALL NOT LEAK WHEN SUBJECTED TO 100 PSI AIR PRESSURE AND SUBMERGED IN WATER FOR 3 MINUTES MINIMUM.
FOR TUBE SIZES THRU 1 INCH: MAXIMUM OPERATING TEMPERATURE 275°F, MAXIMUM PRESSURE 1500 PSI.
FOR TUBE SIZES EXCEEDING 1 INCH: MAXIMUM OPERATING TEMPERATURE 275°F, MAXIMUM PRESSURE 500 PSI.
MATERIAL: ALUMINUM ALLOY FORGING, QQ-A-367 (2014), CLASS 5 OR 1. Optional MATERIAL: PERMANENT MOLD ALUMINUM ALLOY CASTING, QQ-A-596 OR ALUMINUM ALLOY BAR STOCK, QQ-A-225/6 (2024). STEEL FORGING, QQ-S-637 (1137) OR (1141).
© TITANIUM ALLOY (SEE PROCUREMENT DOCUMENT).
© TITANIUM IS NOT RECOMMENDED FOR USE IN OXYGEN SYSTEMS.
© UNLESS OTHERWISE SPECIFIED, SURFACE ROUGHNESS SHALL NOT EXCEED 100 MICROINCHES AA (SEE ANSI B46.1).
© FINISH: SEE PROCUREMENT DOCUMENT.
FITTINGS SHALL BE PERMANENTLY MARKED WITH MS PART NO. ON AN UNFINISHED SURFACE FOR NOMINAL USE ON FUEL AND OIL SYSTEMS.
BREAK ALL SHARP EDGES AND REMOVE ALL HANGING BURRS AND SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE.
DIMENSIONS IN INCHES, UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS +.005, ANGLES +1/2°.
THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

USER ACTIVITIES: Army-ME,AV Navy-AS Air Force-99

REVIEWER ACTIVITIES: Army-ME,AV Navy-AS Air Force-99 DLA-CS

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REVISED C FOR CHANGES SEE PAGES 1 AND 2. 16 JUN 1978

APPROVED 9 AUG 57

☆U.S. GOVERNMENT PRINTING OFFICE: 1980—603-121/1890

P.A. © Air Force-99 Other Cust Navy-AS	INTERNATIONAL INTEREST	TITLE ADAPTER, STRAIGHT, FLANGE TO TUBE	MILITARY STANDARD MS 20760
Procurement Specifications MIL-F-5509	SUPERSEDES: AN760		SHEET 2 OF 2

DD FORM 1 MAY 73 672 (COORDINATED) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE DATE