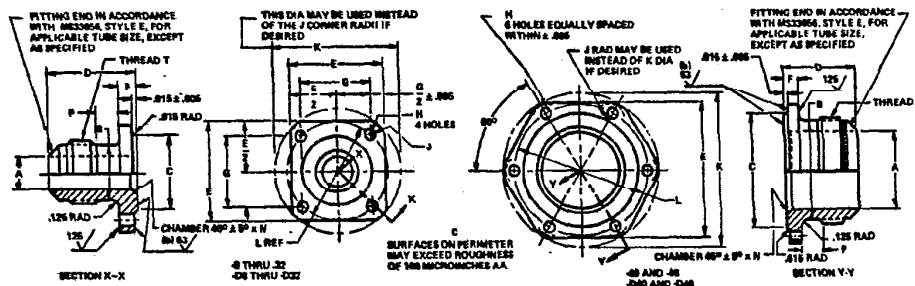


USER ACTIVITIES: Army - ME, AV  
Navy - AS  
Air Force - 99

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

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.



DASH NO. (C)			TYPING OD	THREAD IN (RRP)
STEEL	AL ALLOY	TI ALLOY		
-8	-D8	-T8	.500	3/4-14UNJ-3A
-10	-D10	-T10	.625	7/8-14UNJ-3A
-12	-D12	-T12	.750	1-1/16-12UNJ-3A
-12-16	-D12-16	-T12-16	.750	1-1/16-12UNJ-3A
-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	1.250	1-5/8-12UNJ-3A
-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)			A ±.003 DIA	B DIA	C +.000 -.005 DIA	D	E
STEEL	AL ALLOY	TI ALLOY					
-8	-D8	-T8	.391	.477	.875	1.250	1.300
-10	-D10	-T10	.484	.773	1.000	1.300	1.400
-12	-D12	-T12	.500	.875	1.250	1.500	1.500
-12-16	-D12-16	-T12-16	.600	.801	1.250	1.400	1.500
-16	-D16	-T16	.844	1.156	1.500	1.500	1.750
-20	-D20	-T20	1.078	1.438	1.844	2.188	2.188
-20-24	-D20-24	-T20-24	1.078	1.438	1.844	2.188	2.188
-24	-D24	-T24	1.312	1.688	2.125	2.125	2.375
-32	-D32	-T32	1.781	2.250	2.750	2.750	3.000
-40 (a)	-D40 (a)	-T40 (a)	2.281	2.812	3.281	3.281	4.000
-48 (a)	-D48 (a)	-T48 (a)	2.701	3.344	3.701	3.701	4.500

© denotes changes

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

DD FORM 1 MAY 73 672 (COORDINATED)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATE

APPROVED 9 AUG 57 REVISED 1 APR 52 22 MAY 70 16 JUN 1978

Army-ME,AV  
Navy-AS  
Air Force-99

USER ACTIVITIES:

Army-ME,AV  
Navy-AS  
Air Force-99  
DIA-GS

REVIEWER ACTIVITIES:

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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	T ALLOY
8		.950			1.742	1.344	.451	.304			
10		1.038			1.906	1.458	.544	.407			
12		1.156			2.094	1.635			.00	.25	
12-16	.250		.205	.210			.660	.417	.10	.28	
16		1.312			2.312	1.855	.904	.454	.12	.35	
20		1.656		.265	2.875	2.342			.16	.53	
20-24			.266				1.138	.480	.23	.64	
24		1.812		.281	3.094	2.562	1.372		.25	1.20	
32	.312	2.375		.312	3.853	3.350	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).  
 (c) TITANIUM ALLOY (SEE PROCUREMENT DOCUMENT).  
 (d) TITANIUM IS NOT RECOMMENDED FOR USE IN OXYGEN SYSTEMS.  
 (e) UNLESS OTHERWISE SPECIFIED, SURFACE ROUGHNESS SHALL NOT EXCEED 100 MICROINCHES AA (SEE ANSI B46.1).  
 (f) 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.

APPROVED 9 AUG 57  
REVISED 6 FOR CHANGES SEE PAGES 1 AND 2, 10 JUN 1978

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

U.S. GOVERNMENT PRINTING OFFICE: 1969-602-121/1090

DD FORM 672 (COORDINATED)

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