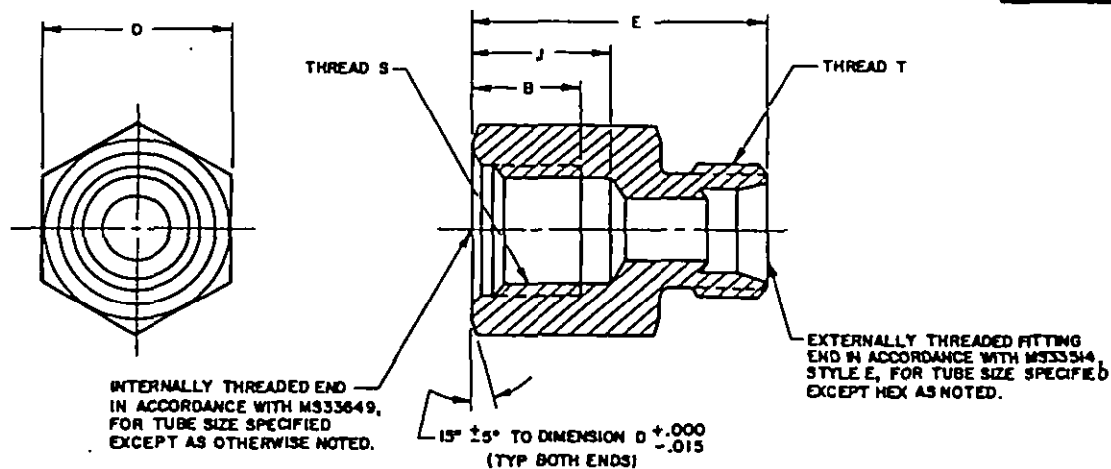


THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODISS SPECIFIED IN THE SOLICITATION: MIL - F - 18280



(a) DASH NO.	INTERNALLY THREADED END		EXTERNALLY THREADED END		B FULL THREAD MIN	J +.032 -.000	OVERALL		WT	LB	MAX
	TUBE OD	THREAD S (REF) MIL-S-8879	TUBE OD	THREAD T (REF) MIL-S-8879			D	E			
-3-2	3/16	.3750-24 UNJF-3B	1/8	.3125-24 UNJF-3A	.405	500	.625	1.125	.070	.025	.040
-4-2	1/4	.4375-20 UNJF-3B	3/16	.3750-24 UNJF-3A	.438		.688	1.234	.078	.027	.045
-4-3	1/4	.4375-20 UNJF-3B	1/4	.4375-20 UNJF-3A		594	.750	1.250	.079	.028	.045
-5-4	5/16	.5000-20 UNJF-3B	1/4	.4375-20 UNJF-3A				1.281	.086	.032	.049
-6-4	3/8	.5625-18 UNJF-3B	5/16	.5000-20 UNJF-3A	.469		.813	1.313	.104	.037	.060
-6-5	3/8	.5625-18 UNJF-3B	1/4	.4375-20 UNJF-3A				1.281	.110	.038	.063
-8-4	1/2	.7500-16 UNJF-3B	5/16	.5000-20 UNJF-3A	.562	718	1.000	1.484	.120	.059	.069
-8-5	1/2	.7500-16 UNJF-3B	1/4	.4375-20 UNJF-3A				1.453	.125	.060	.072
-8-6	1/2	.7500-16 UNJF-3B	3/8	.5625-18 UNJF-3A				1.469	.130	.061	.075
-10-4	5/8	.8750-14 UNJF-3B	1/4	.4375-20 UNJF-3A	.625	781	1.125	1.578	.175	.069	.100
-10-5	5/8	.8750-14 UNJF-3B	5/16	.5000-20 UNJF-3A				1.563	.206	.073	.118
-10-6	5/8	.8750-14 UNJF-3B	3/8	.5625-18 UNJF-3A				1.656	.210	.076	.121
-10-8	3/4	1.0625-12 UNJ-3B	1/2	.7500-16 UNJF-3A				1.734	.230	.080	.132
-12-6	3/4	1.0625-12 UNJ-3B	3/8	.5625-18 UNJF-3A				1.828	.260	.127	.207
-12-8	3/4	1.0625-12 UNJ-3B	1/2	.7500-16 UNJF-3A		906	1.375	1.828	.370	.133	.213
-12-10	3/4	1.0625-12 UNJ-3B	5/8	.8750-14 UNJF-3A				1.891	.380	.138	.219
-16-6	1	1.3125-12 UNJ-3B	3/8	.5625-18 UNJF-3A				1.844	.515	.188	.297
-16-8	1	1.3125-12 UNJ-3B	1/2	.7500-16 UNJF-3A	.688	938	1.625	1.938	.496	.182	.286
-16-10	1	1.3125-12 UNJ-3B	5/8	.8750-14 UNJF-3A				1.984	.510	.188	.294
-16-12	1	1.3125-12 UNJ-3B	3/4	1.0625-12 UNJ-3A				2.031	.550	.195	.317
-20-8	1-1/4	1.6250-12 UNJ-3B	1/2	.7500-16 UNJF-3A				2.078	.655	.240	.377
-20-10	1-1/4	1.6250-12 UNJ-3B	5/8	.8750-14 UNJF-3A				2.125	.655	.240	.377
-20-12	1-1/4	1.6250-12 UNJ-3B	3/4	1.0625-12 UNJ-3A		984	1.875	2.156	.665	.232	.383
-20-16	1-1/4	1.6250-12 UNJ-3B	1	1.3125-12 UNJ-3A				2.078	.625	.224	.360

(a) THE DASH NUMBERS IN THE PART NUMBER ARE CODED FOR THE TWO EQUIVALENT TUBE SIZES, EXPRESSED IN SIXTEENTHS. FOR EXAMPLE: MS21915-4-3 REFERS TO A CARBON STEEL FITTING WITH AN INTERNALLY THREADED END FOR 1/4 OD TUBE AND AN EXTERNALLY THREADED END FOR 3/16 OD TUBE.

(F) ENTIRE STANDARD REVISED.

PREPARING ACTIVITY NAVY-AS

CUSTODIANS: ARMY- AV NAVY- AS

AIR FORCE-99 OLA-

REVIEW: USAF-02, ARMY-AR, MI, OLA-CS

USER: ARMY-ME, AT, AF-71

PROJECT NUMBER: 4730-0975

MILITARY SPECIFICATION SHEET

TITLE: ADAPTER, STRAIGHT, TUBE TO BOSS

SPECIFICATION SHEET NUMBER

MS21915F 17 JULY 1989

SUPERSSEDING

MS21915E 31 NOV 81

AMSC-

N/A

FSC 4730

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited

Page 1 at 2

DD FORM 672 MAY 1988

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

THIS SPECIFICATION IS APPROVED FOR USE  
BY ALL DEPARTMENTS AND AGENCIES OF THE  
DEPARTMENT OF DEFENSE

GRAPHIC TITLE INFORMATION

**REQUIREMENTS:**

1. MATERIAL: CARBON STEEL - BARS  
ALUMINUM ALLOY - BARS  
CORROSION-RESISTANT STEEL - BARS  
TITANIUM ALLOY - BARS } SEE PROCUREMENT SPECIFICATION.
2. FINISH: SEE PROCUREMENT SPECIFICATION.

**NOTES:**

1. BREAK ALL SHARP EDGES AND REMOVE ALL BURRS AND SLIVERS.
2. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS  $\pm .016$ .
3. PART NUMBERS:  
NO CODE LETTER IN PART NUMBER FOR CARBON STEEL.  
ADD D IN PLACE OF FIRST DASH FOR ALUMINUM ALLOY (2024).  
ADD W IN PLACE OF FIRST DASH FOR ALUMINUM ALLOY (7075).  
ADD J IN PLACE OF FIRST DASH FOR CORROSION-RESISTANT STEEL, TYPE 304.  
ADD K IN PLACE OF FIRST DASH FOR CORROSION-RESISTANT STEEL, TYPE 316.  
ADD T AFTER DASH NUMBER FOR TITANIUM ALLOY (6AL-4V).  
ADD R AFTER DASH NUMBER FOR CORROSION-RESISTANT STEEL, TYPE 321.

**EXAMPLES OF PART NUMBERS:**

- MS21915-8-4 = BUSHING, 1/2 TUBING (INTERNAL THD) TO 1/4 TUBING (EXTERNAL THD), CARBON STEEL.  
MS21915D8-4 = BUSHING, 1/2 TUBING (INTERNAL THD) TO 1/4 TUBING (EXTERNAL THD), ALUMINUM ALLOY (2024).  
MS21915W8-4 = BUSHING, 1/2 TUBING (INTERNAL THD) TO 1/4 TUBING (EXTERNAL THD), ALUMINUM ALLOY (7075).  
MS21915J8-4 = BUSHING, 1/2 TUBING (INTERNAL THD) TO 1/4 TUBING (EXTERNAL THD), CORROSION-RESISTANT STEEL, TYPE 304.  
MS21915K8-4 = BUSHING, 1/2 TUBING (INTERNAL THD) TO 1/4 TUBING (EXTERNAL THD), CORROSION-RESISTANT STEEL, TYPE 316.  
MS21915-8-4T = BUSHING, 1/2 TUBING (INTERNAL THD) TO 1/4 TUBING (EXTERNAL THD), TITANIUM ALLOY (6AL-4V).  
MS21915-8-4R = BUSHING, 1/2 TUBING (INTERNAL THD) TO 1/4 TUBING (EXTERNAL THD), CORROSION-RESISTANT STEEL, TYPE 321.
4. ITEMS CODED "C" ON PREVIOUS ISSUES OF THIS STANDARD ARE NO LONGER TO BE FURNISHED. UNLESS OTHERWISE SPECIFIED, PARTS CODED J, K, OR R (AT SUPPLIER'S OPTION) SHALL BE FURNISHED IN LIEU OF "C" CODED PARTS.
5. PARTS ARE NOT TO BE MANUFACTURED FROM TYPE 347 MATERIAL AFTER 31 DEC 1991. HOWEVER, TYPE 347, CODE "S" PARTS MAY BE USED UNTIL EXISTING STOCKS ARE DEPLETED.
6. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE.
7. REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DoDISS) SPECIFIED) IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN.

(F) ENTIRE STANDARD REVISED.

PREPARING ACTIVITY: NAVY-AS CUSTODIANS: ARMY- AV      NAVY-AS AIR FORCE-99      DLA- REVIEW: USAF-82, ARMY-AR, MI, DLA-CS USER: ARMY- ME, AT, AF-71 PROJECT NUMBER: 4730-0975	MILITARY SPECIFICATION SHEET TITLE ADAPTER, STRAIGHT, TUBE TO BOSS	SPECIFICATION SHEET NUMBER <b>MS21915F 17 JULY 1989</b> SUPERSEDING MS21915E 31 NOV 81 AMSC- N/A      FSC 4730
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DD FORM 672 MAY 1988

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THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE

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