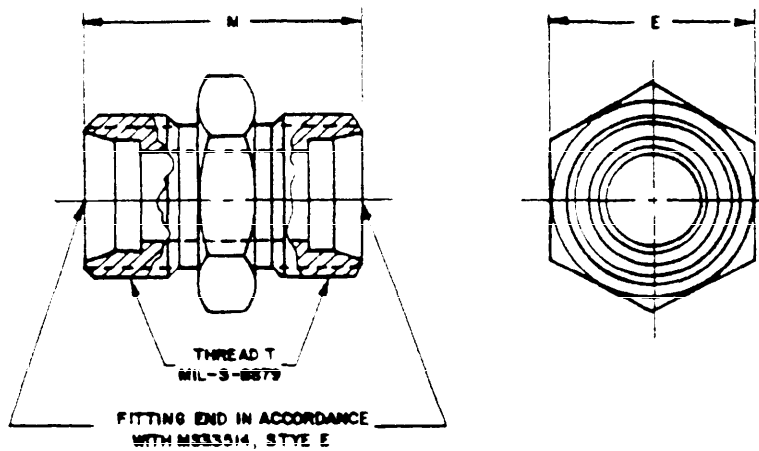


REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODISS SPECIFIED IN THE SOLICITATION MIL - F - 18280



DAS- NO.	TUBE OD	(REF) THREAD T MIL-S-8879	(a) E REF	M	WT LB MAX		
					STEEL	AL ALLOY	Ti ALLOY
-2	1/8	.3125-24 UNF-3A	.563	1.063	.029	.013	.016
-3	3/16	.3750-24 UNF-3A	.625	1.094	.031	.014	.017
-4	1/4	.4375-20 UNF-3A	.688	1.063	.035	.015	.020
-5	5/16	.5000-20 UNF-3A	.750		.045	.016	.025
-6	3/8	.5625-18 UNF-3A	.813	1.188	.066	.023	.036
-8	1/2	.7500-16 UNF-3A	1.000	1.375	.111	.040	.064
-10	5/8	.8750-14 UNF-3A	1.125	1.563	.165	.056	.095
-12	3/4	1.0625-12 UNF-3A	1.375	1.750	.281	.097	.162
-16	1	1.3125-12 UNF-3A	1.625		.355	.126	.204
-20	1-1/4	1.6250-12 UNF-3A	1.875		.514	.183	.296
-24	1-1/2	1.8750-12 UNF-3A	2.125		.754	.277	.435
-32	2	2.5000-10 UNF-3A	2.750		1.094	.400	.630

(a) FOR HEX DIMENSIONS AND TOLERANCES, USE MS33514, STYLE E.

(F) ENTIRE STANDARD REVISED

PREPARING ACTIVITY **NAVY-AS**
CUSTODIANS **ARMY-AV** **NAVY-AS**
AIR FORCE-99 **DLA-**
REVIEW **USAF-B2, ARMY-M1, DLA-CS**
USER **ARMY-ME, AT, AF-71**
PROJECT NUMBER **4730-1066**

MILITARY SPECIFICATION SHEET
TITLE **UNION, FLARELESS TUBE**

SPECIFICATION SHEET NUMBER
MS21902F 21 JULY 1989
SUPERSEDING
MS21902E 7 MAY 1982
AMSC- N/A FSC 4730

DISTRIBUTION STATEMENT A Approved for public release; distribution is unlimited

Page 1 of 2

DD FORM 672 MAY 1986

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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

Form approved
OME no. 0704-0186REQUIREMENTS

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 IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.016.

3. PART NUMBERS:

NO CODE LETTER IN PART NUMBER FOR CARBON STEEL.
ADD D IN PLACE OF DASH FOR ALUMINUM ALLOY (2024).
ADD W IN PLACE OF DASH FOR ALUMINUM ALLOY (7075).
ADD C IN PLACE OF DASH FOR CORROSION RESISTANT STEEL, TYPE 304.
ADD K IN PLACE OF DASH FOR CORROSION RESISTANT STEEL, TYPE 316.
ADD T AFTER DASH FOR TITANIUM ALLOY (6AL-4V).
ADD R AFTER DASH NUMBER FOR CRES TYPE 321.

EXAMPLES OF PART NUMBERS:

MS21902-4 - UNION, 1/4 TUBING, CARBON STEEL.
MS21902D4 - UNION, 1/4 TUBING, ALUMINUM ALLOY (2024).
MS21902W4 - UNION, 1/4 TUBING, ALUMINUM ALLOY (7075).
MS21902C4 - UNION, 1/4 TUBING, CORROSION RESISTANT STEEL, TYPE 304.
MS21902K4 - UNION, 1/4 TUBING, CORROSION RESISTANT STEEL, TYPE 316.
MS21902-4T - UNION, 1/4 TUBING, CRES TYPE 321.
MS21902-4R - UNION, 1/4 TUBING, TITANIUM ALLOY (6AL-4V).

4. ITEMS CODED "C" ON PREVIOUS ISSUES OF THIS STANDARD ARE NO LONGER TO BE FURNISHED. UNLESS OTHERWISE SPECIFIED, PARTS CODED C, K, OR F (AT SUPPLIER'S OPTION) SHALL BE FURNISHED IN LIEU OF "C" CODED PARTS.
5. TITANIUM NOT RECOMMENDED FOR USE IN OXYGEN SYSTEMS.
6. PARTS ARE NOT TO BE MANUFACTURED FROM TYPE 347 MATERIAL AFTER 31 JULY 1991. HOWEVER, TYPE 347 CODE "S" PARTS MAY BE USED UNTIL EXISTING STOCKS ARE DEPLETED.
7. 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.
8. REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DoD ISS) 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-MI, DLA-CS
USER ARMY-ME, AT, AF-71
PROJECT NUMBER 4730-1066

MILITARY SPECIFICATION SHEET
TITLE UNION, FLARELESS TUBE

SPECIFICATION SHEET NUMBER

MS21902F 21 JULY 1989

SUPERSEDING
MS21902E 7 MAY 1982

AMSC- N/A FSC 4730

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Page 2 of 2

DD FORM 672 MAY 1986

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

143994

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-18260

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

INCH-POUND

**NOTICE
OF VALIDATION**

**MS21902F
NOTICE 1
9 October 1991**

**MILITARY STANDARD
UNION, FLARELESS TUBE**

MS21902F, dated 21 July 1989, has been reviewed and determined to be valid for use in acquisition.

Custodians:

**Army — AV
Navy — AS
Air Force — 99**

Preparing activity:

Navy — AS

AMSC N/A

FSC 4730

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