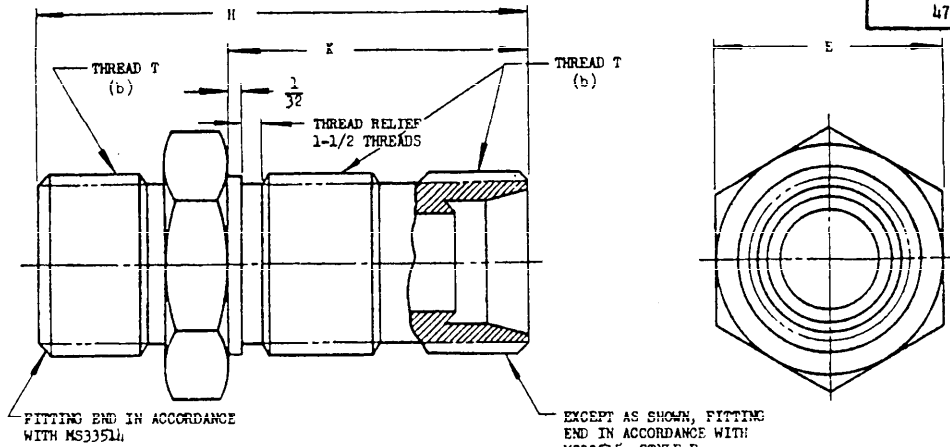


FED. SUP CLASS  
4730



DASH NO.	TUBE OD	THREAD T (b) MIL-F-8879	H	K	(a) E	WT LB MAX	
						STEEL	AL ALLOY
-2	1/8	.3125-24 UNF-3A	1-43/64	1- 3/64	.563	.040	.014
-3	3/16	.3750-24 UNF-3A	1- 3/4	1- 3/32	.625	.056	.020
-4	1/4	.4375-20 UNF-3A	1-27/32		.688	.062	.022
-5	5/16	.5000-20 UNF-3A	1- 7/8	1-5/32	.750	.086	.031
-6	3/8	.5625-18 UNF-3A	1-63/64	1-13/64	.813	.104	.037
-8	1/2	.7500-16 UNF-3A	2- 7/32	1-11/32	1.000	.191	.064
-10	5/8	.8750-14 UNF-3A	2- 7/16	1-31/64	1.125	.258	.087
-12	3/4	1.0625-12 UNF-3A	2-43/64		1.375	.452	.135
-16	1	1.3125-12 UNF-3A		1-19/32	1.625	.535	.200
-20	1-1/4	1.6250-12 UNF-3A	2-21/32		1.875	.792	.265
-24	1-1/2	1.8750-12 UNF-3A			2.125	.860	.316
-28	1-3/4	2.2500-12 UNF-3A	2-47/64	1-43/64	2.500		
-32	2	2.5000-12 UNF-3A	2-59/64	1-51/64	2.750		

User activities: Navy - OS, Army - GL, EL, ME, AF  
Navy - AS, USAP - 82, IA, Army - AV, WC, MI, ISA - CS

Review activities: This military standard is approved by the Department of Defense and is mandatory on all activities. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

- (a) FOR HEX DIMENSIONS AND TOLERANCES, USE MS33515, STYLE E.  
(b) PARTS WITH THREADS IN ACCORDANCE WITH MIL-S-7742 OF THE SAME THREAD SIZE, PITCH AND COEFFICIENT CLASS ARE ACCEPTABLE FOR PROCUREMENT UNTIL 1 JULY 1971, BUT PARTS WITH MIL-S-7742 THREADS WILL NOT BE PROCURED THEREAFTER. EXISTING STOCKS ARE TO BE USED UNTIL EXHAUSTED.
- MATERIAL: CARBON STEEL - PARS  
ALUMINUM ALLOY - PARS  
CORROSION RESISTANT STEEL - PARS  
SEE PROCUREMENT SPECIFICATION.
  - FINISH: SEE PROCUREMENT SPECIFICATION.
  - BREAK ALL SHARP EDGES AND REMOVE ALL BURRS AND SLIVERS.
  - DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: FRACTIONS ±1/64, ANGLES ±1/2°.
  - 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 G AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL, TYPE 304, 309, 304L, 316 OR 321.~~  
ADD J IN PLACE OF DASH FOR CORROSION RESISTANT STEEL, TYPE 304.  
ADD K IN PLACE OF DASH FOR CORROSION RESISTANT STEEL, TYPE 316.  
ADD S AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL, TYPE 304 AND 307. PARTS ARE NOT TO BE MANUFACTURED FROM TYPE 304L STEEL AFTER 21 JUNE 1969.  
EXAMPLE OF PART NUMBERS:  
MS21903-4 - UNION, 1/4, TUBING, CARBON STEEL.  
MS21903DL - UNION, 1/4, TUBING, ALUMINUM ALLOY (2024).  
MS21903WL - UNION, 1/4, TUBING, ALUMINUM ALLOY (7075).  
MS21903JL - UNION, 1/4, TUBING, CORROSION RESISTANT STEEL, TYPE 304.  
MS21903KL - UNION, 1/4, TUBING, CORROSION RESISTANT STEEL, TYPE 316.  
MS21903SL - UNION, 1/4, TUBING, CORROSION RESISTANT STEEL, TYPE 304.

- PARTS CODED C ARE CANCELLED AFTER 27 JUNE 1969. PARTS CODED C MAY BE USED UNTIL STOCKS ARE EXHAUSTED. PARTS CODED J OR K MAY BE USED IN LIEU OF PARTS CODED C.
- CERTAIN PROVISIONS (SPRUE THREADS, HEXAGON SIZE AND UNDERFIT DIMENSIONS) OF THIS STANDARD ARE THE SUBJECT OF INTERNATIONAL STANDARDIZATION AGREEMENT ASCO AIR STD 17/15. WHEN REVISION, OR CANCELLATION OF THIS STANDARD IS PROPOSED WHICH WILL AFFECT OR VIOLATE THE INTERNATIONAL AGREEMENT CONCERNED, THE PREPARING ACTIVITY WILL TAKE APPROPRIATE RECONCILIATION ACTION THROUGH INTERNATIONAL STANDARDIZATION CHANNELS, INCLUDING DEPARTMENTAL STANDARDIZATION OFFICES, IF REQUIRED.

(C) ENTIRE STANDARD REVISED.  
**INACTIVE FOR DESIGN AFTER 2 MAY 1956. USE MS21924.**  
FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.  
REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

P.A. Navy - AS Other Cust USAP - 82 Army - AV	INTERNATIONAL INTEREST	TITLE	MILITARY STANDARD <b>MS21903</b>
	SEE NOTE	UNION, FLARELESS TYPE, 3/8 BULKHEAD AND UNIVERSAL	
PROCUREMENT SPECIFICATION MIL-F-18280		SUPERSEDES:	SHEET 1 OF 1

DD FORM 672-1 (Coordinated)  
150 use only

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

DRAWN BY m. cousins DATE 2-19-69  
TYPED BY

REVISED (A) 28 Jun 54 (B) 2 May 56 (C) 27 June 69  
APPROVED 4 Oct 51