

REV.
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AS21924™

FEDERAL SUPPLY CLASS
4730

RATIONALE

REVISE ACROSS FLATS DIMENSION "E" FROM REFERENCE TO MIN-MAX TOLERANCES PER ARP1201 TO HARMONIZE WITH PREVIOUS REVISION AS21924D AND EXISTING FAMILY OF AS219XX FITTINGS. ADD NEW DIMENSION B TO DEFINE THE DIAMETRICAL ALLOCATION OF THE TAPER CHAMFERS ON EITHER SIDE OF THE HEXAGON NUT. QPL NOTE UPDATED TO CURRENT VERBIAGE.

NOTICE

THE INITIAL PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS21924. THIS SAE STANDARD MAY RETAIN THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

PROCUREMENT OF MS21924 PART NUMBERS TO THIS "AS" STANDARD MAY RESULT IN LOSS OF CONFIGURATION CONTROL WHERE DIFFERENCES IN THE CANCELLED MIL-F-18280 AND THE SUPERSEDING AS18280 PROCUREMENT PAS EXIST. AS1007 IS A RECOMMENDED REPLACEMENT STANDARD THAT ELIMINATES THIS PROBLEM.

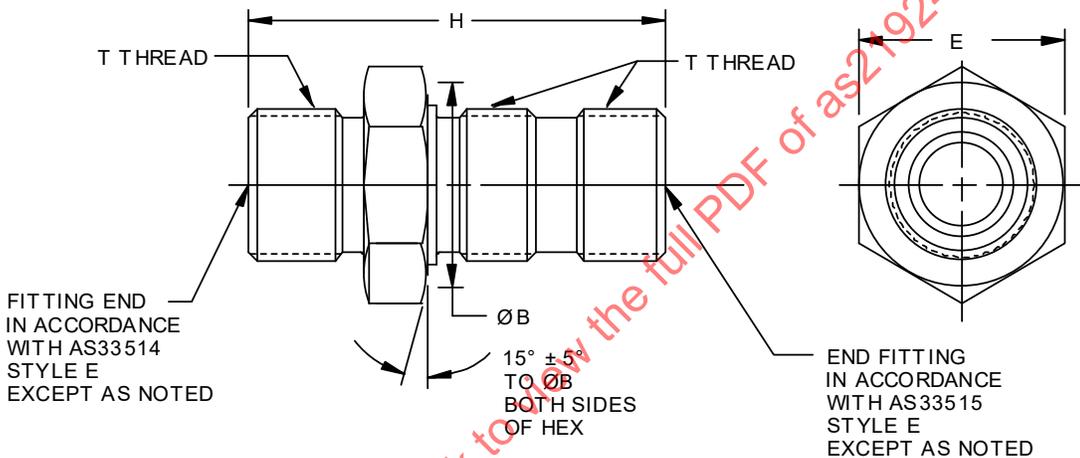
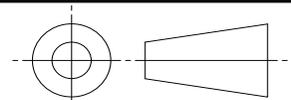


FIGURE 1 - UNION, FLARELESS TUBE, BULKHEAD AND UNIVERSAL

For more information on this standard, visit
<https://www.sae.org/standards/content/AS21924F/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS18280 /11/



AEROSPACE STANDARD

UNION, FLARELESS TUBE
BULKHEAD AND UNIVERSAL

AS21924™
SHEET 1 OF 3

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ISSUED 1998-08 REAFFIRMED 2015-04 REVISED 2021-11

TABLE 1 - DIMENSIONS

DASH NO. /5/	NOMINAL			WEIGHT, LB/EA, APPROX REF					
	TUBE SIZE REF	(T) THREAD AS8879	B ±.010	E	H	STEEL	AL ALLOY	TI ALLOY	
-2	.125	.3125-24 UNJF-3A	.542	.553- .566	1.484	.031	.011	.017	
-3	.188	.3750-24 UNJF-3A	.605	.615- .628	1.563	.048	.018	.027	
-4	.250	.4375-20 UNJF-3A	.668	.678- .691	1.656	.062	.023	.035	
-5	.313	.5000-20 UNJF-3A	.730	.740- .753	1.688	.078	.029	.045	
-6	.375	.5625-18 UNJF-3A	.792	.803- .816	1.797	.095	.035	.054	
-8	.500	.7500-16 UNJF-3A	.980	.990-1.003	2.031	.175	.064	.100	
-10	.625	.8750-14 UNJF-3A	1.103	1.113-1.128	2.250	.244	.090	.140	
-12	.750	1.0625-12 UNJ-3A	1.353	1.363-1.380	2.484	.361	.133	.208	
-16	1.000	1.3125-12 UNJ-3A	1.603	1.613-1.630	2.469	.552	.202	.318	
-20	1.250	1.6250-12 UNJ-3A	1.853	1.863-1.880	2.469	.678	.249	.391	
-24	1.500	1.8750-12 UNJ-3A	2.099	2.109-2.135	2.469	.814	.295	.469	
-32	2.000	2.5000-12 UNJ-3A	2.724	2.734-2.760	2.734				

NOTES:

NOTICE

THIS DOCUMENT REFERENCES A PART WHICH CONTAINS CADMIUM AS A PLATING MATERIAL. CONSULT LOCAL OFFICIALS IF YOU HAVE QUESTIONS CONCERNING CADMIUM'S USE.

1. MATERIAL:

- SEE PROCUREMENT SPECIFICATION
- ALLOY STEEL
- ALUMINUM ALLOY
- CORROSION RESISTANT STEEL
- TITANIUM ALLOY

2. FINISH: SEE PROCUREMENT SPECIFICATION.

3. BREAK EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.

4. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.016, ANGLES ±0°30'.

/5/ PART NUMBERS:

- MATERIAL CODE DASH "-" IN PART NUMBER FOR 4130 ALLOY STEEL.
- ADD MATERIAL CODE "V(SIZE)P" IN PLACE OF DASH FOR CORROSION RESISTANT STEEL (15-5PH), CADMIUM PLATED.
- ADD MATERIAL CODE "V" IN PLACE OF DASH FOR CORROSION RESISTANT STEEL (15-5PH), NOT CADMIUM PLATED.
- ADD MATERIAL CODE "D" IN PLACE OF DASH FOR ALUMINUM ALLOY (2024).
- ADD MATERIAL CODE "W" IN PLACE OF DASH FOR ALUMINUM ALLOY (7075).
- ADD "MATERIAL CODE J" IN PLACE OF DASH FOR CORROSION RESISTANT STEEL (TYPE 304).
- ADD MATERIAL CODE "K" IN PLACE OF DASH FOR CORROSION RESISTANT STEEL (TYPE 316).
- ADD MATERIAL CODE "R" AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL (TYPE 321).
- ADD MATERIAL CODE "S" AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL (TYPE 347) (INACTIVE).
- ADD MATERIAL CODE "T" AFTER DASH FOR TITANIUM ALLOY (6Al-4V).

EXAMPLES OF PART NUMBERS:

- MS21924-4 UNION, .250 TUBING, 4130 ALLOY STEEL.
- MS21924V4P UNION, .250 TUBING, CORROSION RESISTANT STEEL (15-5PH), CADMIUM PLATED. SEE TABLE 2 /A/.
- MS21924V4 UNION, .250 TUBING, CORROSION RESISTANT STEEL (15-5PH), NOT CADMIUM PLATED.
- MS21924D4 UNION, .250 TUBING, ALUMINUM ALLOY (2024). SEE TABLE 2 /C/.
- MS21924W4 UNION, .250 TUBING, ALUMINUM ALLOY (7075).
- MS21924J4 UNION, .250 TUBING, CORROSION RESISTANT STEEL (TYPE 304).
- MS21924K4 UNION, .250 TUBING, CORROSION RESISTANT STEEL (TYPE 316).
- MS21924-4R UNION, .250 TUBING, CORROSION RESISTANT STEEL (TYPE 321).
- MS21924-4S UNION, .250 TUBING, CORROSION RESISTANT STEEL (TYPE 347). REPLACED, SEE TABLE 2 /D/.
- MS21924-4T UNION, .250 TUBING, TITANIUM ALLOY (6Al-4V).

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