

REV.
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AS21914

RATIONALE

THIS DOCUMENT HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE 5-YEAR REVIEW POLICY.

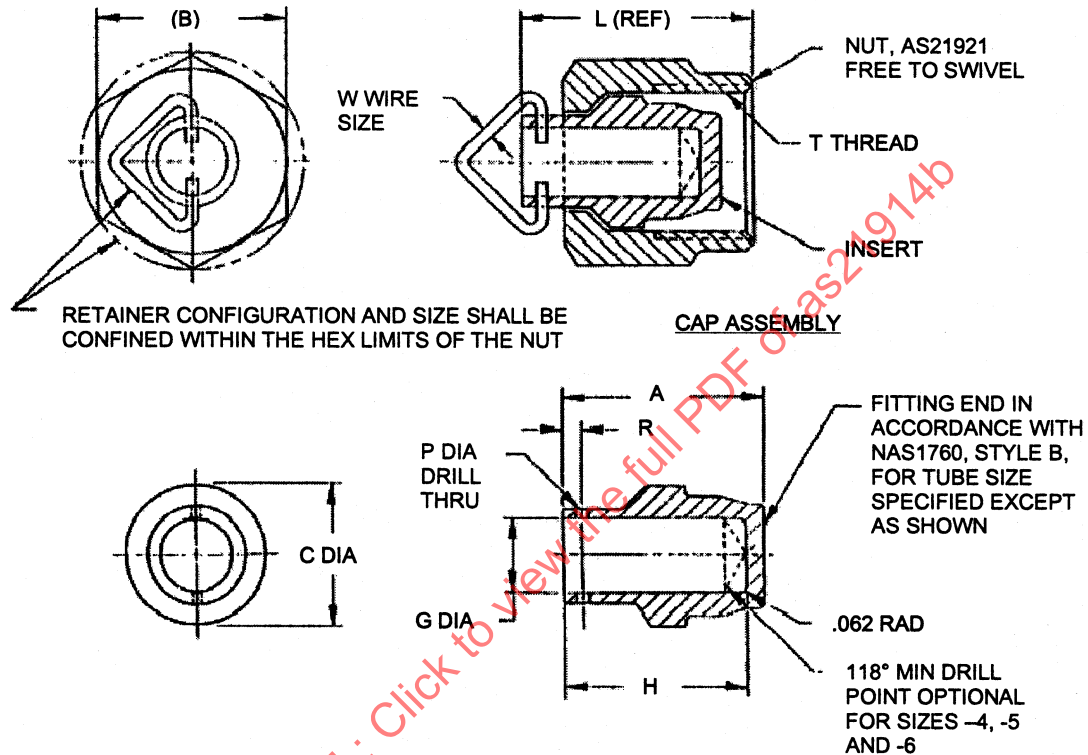


FIGURE 1- CAP, PRESSURE SEAL, FLARELESS TUBE FITTING

CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: AS18280

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD
(R) CAP, PRESSURE SEAL, FLARELESS TUBE FITTING

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TABLE 1A - DIMENSIONS A-C

DASH NO.	NOMINAL TUBE SIZE	T THREAD AS8879	A ±.010	B	C DIA ±.005
-2	.125	.3125-24 UNJF-3B	.600	.375	.256
-3	.188	.3750-24 UNJF-3B	.672	.438	.318
-4	.250	.4375-20 UNJF-3B	.745	.562	.371
-5	.313	.5000-20 UNJF-3B	.845	.625	.434
-6	.375	.5625-18 UNJF-3B	.885	.688	.490
-8	.500	.7500-16 UNJF-3B	.935	.875	.670
-10	.625	.8750-14 UNJF-3B	1.062	1.000	.786
-12	.750	1.0625-12 UNJ-3B	1.082	1.250	.960
-16	1.000	1.3125-12 UNJ-3B	1.218	1.500	1.210
-20	1.250	1.6250-12 UNJ-3B	1.193	2.000	1.470
-24	1.500	1.8750-12 UNJ-3B	1.271	2.250	1.719

TABLE 1B - DIMENSIONS G-W

DASH NO.	G DIA ±.010	H ±.010	L (REF)	P DIA	R	W DIA MIN
-2	-	-	.720	.047	.065	.033
-3	-	-	.767	.047	.065	.033
-4	.187	.600	.893	.047	.087	.033
-5	.234	.700	.977	.078	.101	.055
-6	.297	.740	.965	.078	.101	.055
-8	.405	.790	1.077	.078	.101	.055
-10	.500	.917	1.210	.078	.101	.055
-12	.656	.937	1.208	.078	.101	.055
-16	.906	1.073	1.189	.093	.101	.066
-20	1.093	1.048	1.288	.093	.101	.066
-24	1.343	1.125	1.305	.093	.101	.066

NOTES:

1. MATERIAL: SEE PROCUREMENT SPECIFICATION.

NUT AND INSERT: ALLOY STEEL

ALUMINUM ALLOY

CORROSION RESISTANT STEEL

TITANIUM ALLOY

RETAINER:

STEEL WIRE, CLASS 302 ANNEALED PER ASTM A 493 OR CLASS 305 PER AMS 5685

2. FINISH: NUT, INSERT AND RETAINER - SEE PROCUREMENT SPECIFICATION.

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

4. SURFACE TEXTURE IN ACCORDANCE WITH ANSI B46.1.

5. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.005, ANGLES ±0°30'.

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		DASH “-” IN PART NUMBER FOR 4130 ALLOY STEEL IS CANCELLED AND REPLACED, SEE 7 /A/ ADD “V(SIZE)P” IN PLACE OF DASH FOR CORROSION RESISTANT STEEL (15-5PH), CADMIUM PLATED ADD “V” IN PLACE OF DASH FOR CORROSION RESISTANT STEEL (15-5PH), NOT CADMIUM PLATED ADD “D” IN PLACE OF DASH FOR ALUMINUM ALLOY (2024): CANCELLED AND REPLACED, SEE 7 /C/ ADD “W” IN PLACE OF DASH FOR ALUMINUM ALLOY (7075) 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 “R” AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL (TYPE 321) ADD “S” AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL (TYPE 347): CANCELLED, SEE 7 /D/ ADD “T” AFTER DASH NUMBER FOR TITANIUM ALLOY (6AL-4V) EXAMPLES OF PART NUMBERS: MS21914-4 CAP, .250 TUBING, 4130 ALLOY STEEL IS CANCELLED AND REPLACED, SEE 7 /A/ MS21914V4P CAP, .250 TUBING, CORROSION RESISTANT STEEL (15-5PH), CADMIUM PLATED MS21914V4 CAP, .250 TUBING, CORROSION RESISTANT STEEL (15-5PH), NOT CADMIUM PLATED MS21914D4 CAP, .250 TUBING, ALUMINUM ALLOY (2024) IS CANCELLED AND REPLACED, SEE 7 /C/ MS21914-4W CAP, .250 TUBING, ALUMINUM ALLOY (7075) MS21914-4J CAP, .250 TUBING, CORROSION RESISTANT STEEL (TYPE 304) MS21914-4K CAP, .250 TUBING, CORROSION RESISTANT STEEL (TYPE 316) MS21914-4R CAP, .250 TUBING, CORROSION RESISTANT STEEL (TYPE 321) MS21914-4S CAP, .250 TUBING, CORROSION RESISTANT STEEL (TYPE 347) IS CANCELLED, SEE 7 /D/ MS21914-4T CAP, .250 TUBING, TITANIUM ALLOY (6AL-4V) 7. TITANIUM NOT RECOMMENDED FOR USE IN OXYGEN SYSTEMS. 8. SEE TABLE 2 FOR CANCELLED AND SUPERSEDED DOCUMENT AND PART NUMBERS.																																																				
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/A/ PARTS CODED “-” FOR 4130 ALLOY STEEL ARE NOT TO BE MANUFACTURED. PARTS CODED “V(SIZE)P” FOR CORROSION RESISTANT STEEL (15-5PH) WITH CADMIUM PLATE SHALL BE FURNISHED IN LIEU OF “-” CODED (4130) PARTS. PARTS CODED “-” FOR 4130 ALLOY STEEL MAY BE PROCURED UNTIL 12-31-06. /B/ PARTS CODED “C” FOR CORROSION RESISTANT STEEL (TYPE 303) ARE NOT TO BE MANUFACTURED. PARTS CODED “J”, “K” OR “R” FOR CORROSION RESISTANT STEEL (TYPES 304, 316, OR 321, RESPECTIVELY) SHALL BE FURNISHED IN LIEU OF “C” CODED PARTS AT SUPPLIERS OPTION. /C/ PARTS CODED “D” FOR ALUMINUM ALLOY 2024 ARE NOT TO BE MANUFACTURED. PARTS CODED “W” FOR ALUMINUM ALLOY 7075 SHALL BE FURNISHED IN LIEU OF 2024 (D CODE) PARTS. PARTS CODED “D” FOR ALUMINUM ALLOY 2024 MAY BE PROCURED UNTIL 12-31-06. /D/ PARTS CODED “S” FOR CORROSION RESISTANT STEEL (TYPE 347) ARE NOT TO BE MANUFACTURED. PARTS CODED “S” MAY BE USED UNTIL EXISTING STOCK IS DEPLETED. PARTS CODED “R” FOR CORROSION RESISTANT STEEL (TYPE 321) SHALL BE FURNISHED IN LIEU OF “S” CODED PARTS.																																																						
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