

RATIONALE

NEW STANDARD FOR OPERATING PRESSURES UP TO AND INCLUDING 1500 PSI

SAE AS6118

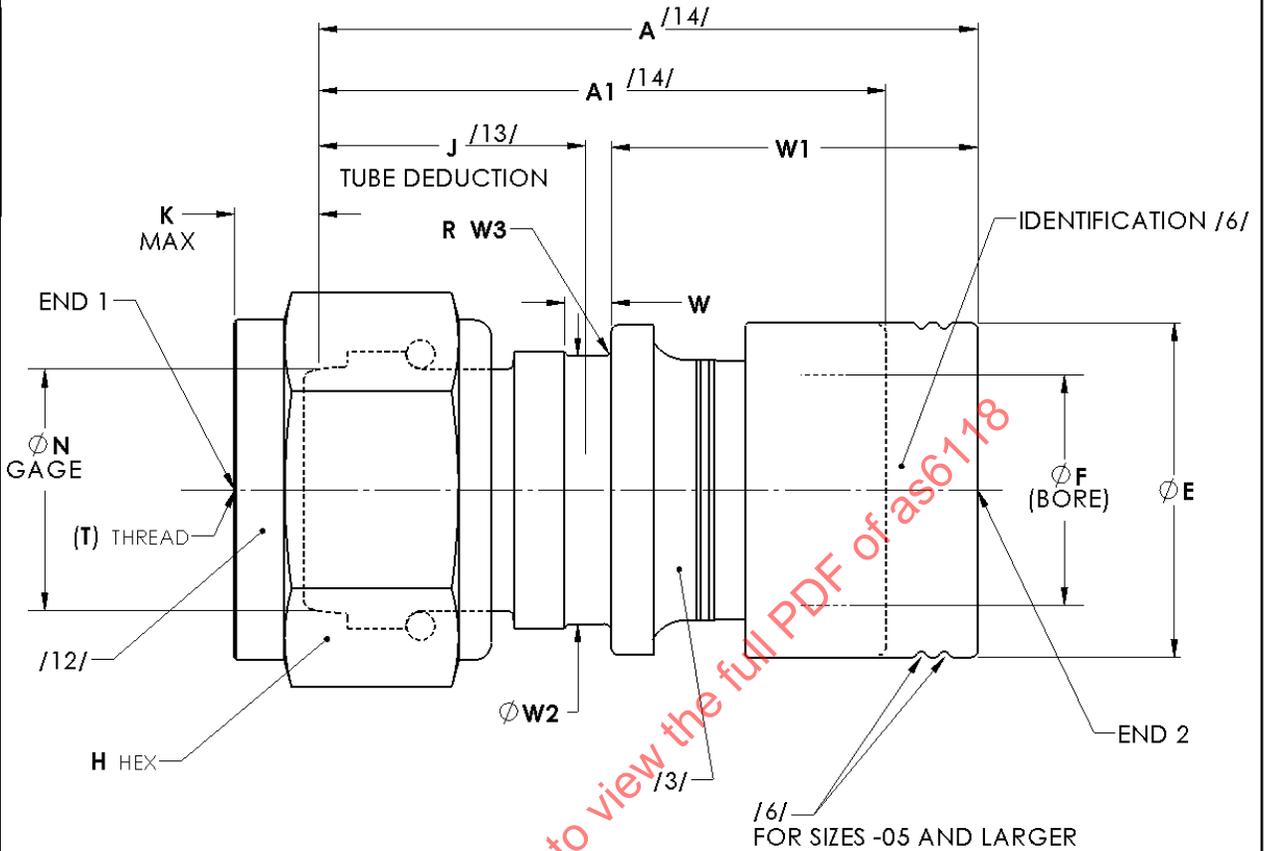
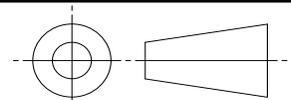


FIGURE 1—FITTING ASSEMBLY, ADAPTER

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THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS6116

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

FITTING ASSEMBLY, STRAIGHT, FEMALE
FLARELESS, AXIALLY SWAGED,
HYDRAULIC, UP TO 1500 PSI

SAE AS6118
SHEET 1 OF 3

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TABLE 1A - DIMENSIONS A THROUGH K

BASIC NO. AS6118 /16/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	A MAX	A1 MAX	ØE MAX	ØF MIN	(H)	J /13/ TUBE DEDUCTION		K MAX
0404	.250	.250	1.470	1.327	.435	.253	.562	.771	±.150	.248
0505	.3125	.3125	1.665	1.527	.503	.3155	.625	.836	±.150	.331
0606	.375	.375	1.849	1.632	.580	.378	.688	.871	±.150	.302
0806	.500	.375	1.883	1.666	.580	.378	.875	.905	±.150	.316
0808	.500	.500	2.091	1.841	.755	.503	.875	.910	±.150	.316
1010	.625	.625	2.236	2.011	.929	.629	1.000	1.050	±.150	.424
1212	.750	.750	2.496	2.231	1.150	.754	1.250	1.170	±.150	.388
1616	1.000	1.000	2.861	2.496	1.474	1.004	1.500	1.165	±.150	.454
2020	1.250	1.250	3.141	2.741	1.768	1.255	1.812	1.170	+ .150/- .130	.465
2424	1.500	1.500	3.571	3.091	2.070	1.505	2.125	1.240	+ .150/- .055	.460

TABLE 1B - DIMENSIONS N THROUGH W3 AND WEIGHTS

BASIC NO. AS6118 /16/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	ØN GAGE	(T) THREAD PER AS8879	W MIN	W1 MAX	ØW2 ±.002	W3 MAX	WEIGHT APPROX LB/EA
0404	.250	.250	.2930	.4375-20 UNJF-3B	.185	.604	.320	.020	.018
0505	.3125	.3125	.3500	.5000-20 UNJF-3B	.180	.724	.371	.020	.013
0606	.375	.375	.4120	.5625-18 UNJF-3B	.195	.883	.463	.020	.029
0806	.500	.375	.5600	.7500-16 UNJF-3B	.195	.883	.463	.020	.046
0808	.500	.500	.5600	.7500-16 UNJF-3B	.210	1.076	.595	.020	.055
1010	.625	.625	.6730	.8750-14 UNJF-3B	.225	1.076	.758	.020	.082
1212	.750	.750	.8100	1.0625-12 UNJ-3B	.235	1.201	.903	.025	.140
1616	1.000	1.000	1.0620	1.3125-12 UNJ-3B	.260	1.566	1.196	.035	.225
2020	1.250	1.250	1.3160	1.6250-12 UNJ-3B	.285	1.829	1.460	.035	.350
2424	1.500	1.500	1.5650	1.8750-12 UNJ-3B	.310	2.178	1.704	.035	.560

NOTES:

1/ MATERIALS:

CODE LETTER "D"

BODY - TYPE 6061-T6 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/8.

RING - TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9.

NUT - TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9.

WIRE - TYPE 302 OR 305, CONDITION A CORROSION RESISTANT STEEL WIRE PER ASTM A580 (SIZES -.04 AND .05).

- TYPE 2024-T4 OR 2024-T351 ALUMINUM ALLOY WIRE PER AMS-QQ-A-225/6 (SIZES -.06 AND LARGER).

2. FINISH:

BODY - CHEMICAL CONVERSION COATED PER MIL-DTL-5541 TYPE I CLASS 3.

RING - ANODIZE PER MIL-A-8625, TYPE II, CLASS 2, DYED GREEN, SIMILAR TO NO. 14187, 14193, OR 14223 OF FED-STD-595 AND SHALL BE DUPLEX SEALED.

NUT - ANODIZED PER MIL-A-8625 TYPE II, CLASS 2, DYED BROWN SIMILAR TO NO. 10080, OF FED-STD-595 AND SHALL BE DUPLEX SEALED.

WIRE - PASSIVATED PER AMS 2700. (SIZES -.04 AND -.05)

- ANODIZED PER MIL-A-8625 TYPE II, CLASS 2 (YELLOW) WITH DUPLEX SEAL. (SIZES -.06 AND LARGER)

 An SAE International Group	AEROSPACE STANDARD	SAE AS6118 SHEET 2 OF 3
	FITTING ASSEMBLY, STRAIGHT, FEMALE FLARELESS, AXIALLY SWAGED, HYDRAULIC, UP TO 1500 PSI	