

RATIONALE

FEDERAL SUPPLY CLASS
4730

NEW STANDARD FOR OPERATING PRESSURES UP TO AND INCLUDING 1500 PSI

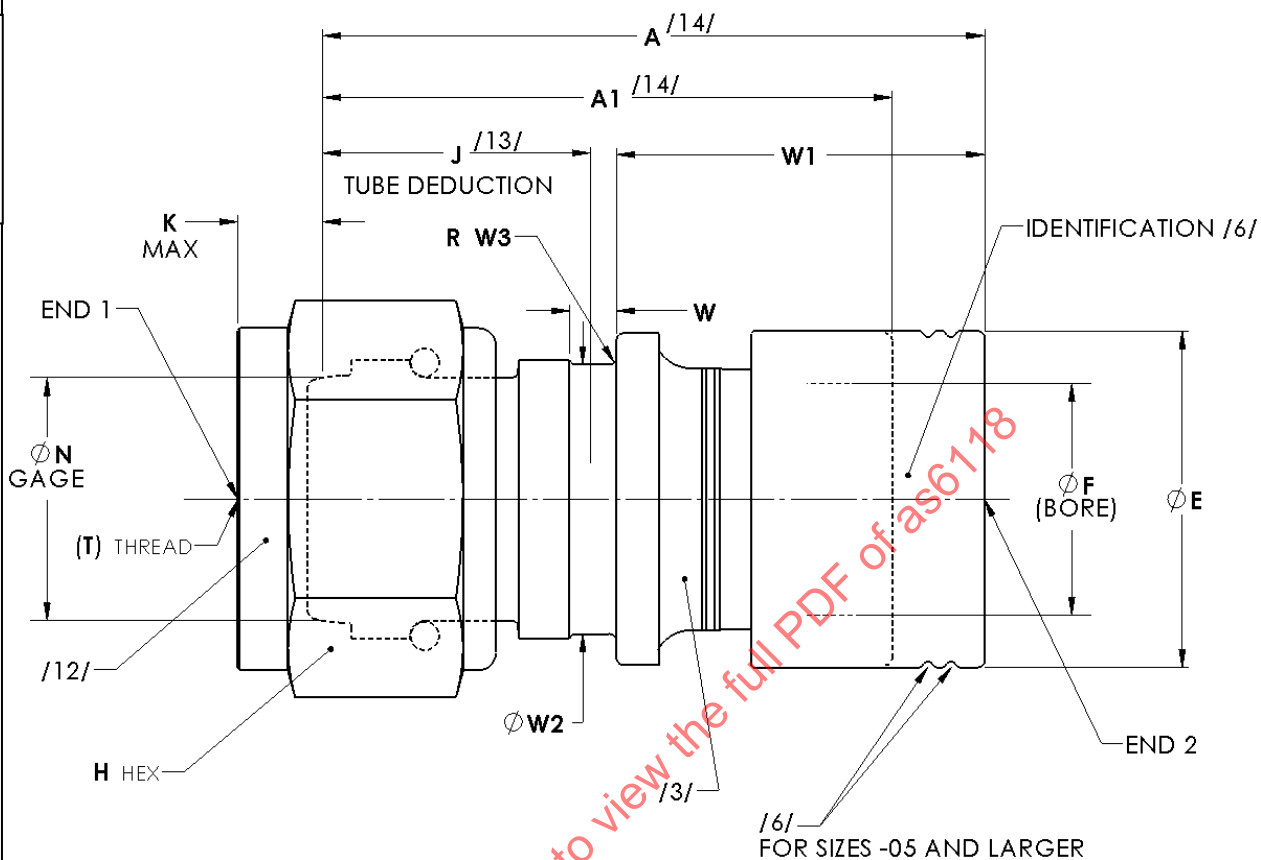
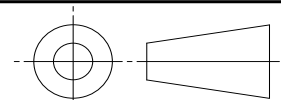


FIGURE 1—FITTING ASSEMBLY, ADAPTER

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS6118>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS6116

SAE Aerospace
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AEROSPACE STANDARD

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

SAE AS6118
SHEET 1 OF 3

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)