

RATIONALE

NEW STANDARD FOR OPERATING PRESSURES UP TO AND INCLUDING 5080 PSI RESOLVING COMMENTS FROM
BALLOTING DRAFT 2

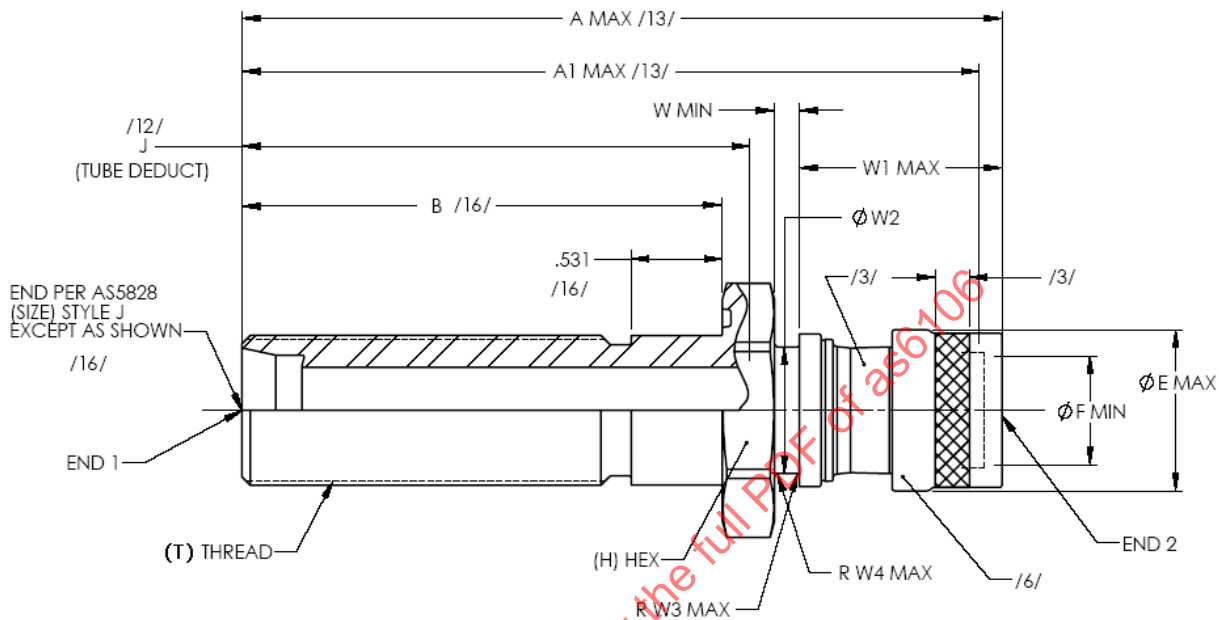
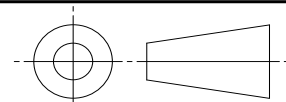


FIGURE 1 – ADAPTER, AXIALLY SWAGED

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS6106>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS5958 /4/

SAE Aerospace
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AEROSPACE STANDARD
FITTING ASSEMBLY, ADAPTER,
EXTENDED BULKHEAD SHANK, FLARELESS,
AXIALLY SWAGED, HYDRAULIC, 5080 PSI

SAE AS6106
SHEET 1 OF 3

TABLE 1A - DIMENSIONS A THROUGH W

BASIC NO. AS6106 /15/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	A MAX.	A1 MAX.	B	E MAX	F MIN.	(H)	J /12/ TUBE DEDUCT	W MIN.
0404	.2500	.2500	3.357	3.270	2.469	.466	.253	.875	2.775	±.150
0606	.3750	.3750	3.640	3.524	2.515	.609	.378	1.000	2.841	±.150
0808	.5000	.5000	4.004	3.858	2.656	.783	.504	1.188	3.005	±.175
1010	.6250	.6250	4.454	4.250	2.797	.939	.629	1.312	3.161	±.175
1212	.7500	.7500	4.734	4.529	2.906	1.122	.754	1.500	3.297	±.175
1616	1.0000	1.0000	5.052	4.838	2.906	1.495	1.004	1.875	3.324	±.200
2020	1.2500	1.2500	5.419	5.195	2.906	1.758	1.255	2.188	3.408	±.200

TABLE 1B – THREAD, DIMENSIONS W1 THROUGH W4, O-RING SIZE AND WEIGHTS

BASIC NO. AS6106 /15/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	T THREAD PER AS8879	W1 MAX.	W2 ±.0015	W3 MAX.	W4 MAX.	AS568 O-RING /14/	WEIGHT LB/EA APP. REF.
0404	.2500	.2500	.4375-28 UNJEF-3A	.488	.3005	.018	.065	-15	.075
0606	.3750	.3750	.5625-24 UNJEF-3A	.675	.4475	.033	.065	-17	.115
0808	.5000	.5000	.7500-20 UNJEF-3A	.871	.5945	.033	.129	-20	.195
1010	.6250	.6250	.8750-20 UNJEF-3A	1.190	.7365	.021	.078	-22	.275
1212	.7500	.7500	1.0625-18 UNJEF-3A	1.327	.8805	.024	.089	-25	.390
1616	1.0000	1.0000	1.3125-16 UNJ-3A	1.612	1.1725	.027	.099	-30	.620
2020	1.2500	1.2500	1.6250-16 UNJ-3A	1.886	1.4345	.030	.113	-32	.930

NOTES:

/1/ MATERIALS:

CODE LETTER "T"

RING - AMS4965 TITANIUM ALLOY 6.0AL 4.0V SOLUTION HEAT TREATED AND AGED, OR AMS4928 TITANIUM ALLOY 6.0AL 4.0V ANNEALED WITH HIGH STRENGTH CARBON FIBER/EPOXY RESIN COMPOSITE REINFORCEMENT.

BODY - AMS4928 TITANIUM ALLOY 6.0AL 4.0V ANNEALED.

2. FINISH:

TITANIUM - NONE.

/3/ COATINGS/LUBRICANTS:

RING - THE OUTER SURFACE SHALL HAVE A .125 INCH MINIMUM WIDE BLUE COLORED RING OR COMPLETELY COLORED BLUE. AN AS1241 FLUID RESISTANT PTFE COATING OR PAINT MUST BE USED.

BODY - SOLID FILM LUBRICANT PER AS5272, TYPE I OR II, PTFE OR PETROLEUM-BASED LUBRICANT SHALL BE APPLIED TO PORTIONS OF THE ID AND OD OF THE SWAGED END. THE PETROLEUM-BASED LUBRICANT AND AS5272 LUBRICANT SHALL NOT BE IN CONTACT WITH THE SYSTEM FLUID.

/4/ PROCUREMENT SPECIFICATION: AS5958 EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED AND ASSEMBLED BY AN ACCREDITED MANUFACTURER OR ASSEMBLED BY AN ACCREDITED DISTRIBUTOR LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST (QPL) PRI-QPL-AS5958 FOR THIS STANDARD. See www.eauditnet.com FOR THE CURRENT QPL ON-LINE.

5. DIMENSIONS AND TOLERANCES NOT DEFINED ON THIS STANDARD SHALL BE SPECIFIED AND CONTROLLED BY THE MANUFACTURER. THE MANUFACTURER IS RESPONSIBLE TO ENSURE COMPLIANCE WITH THE PROCUREMENT SPECIFICATION.

/6/ IDENTIFICATION: PER PROCUREMENT SPECIFICATION AND SHALL BE ON THE RING IN THE LOCATION SHOWN.