FEDERAL SUPPLY CLASS
4730

RATIONALE

ADDED -20 SIZE, REVISED TABLE HEADERS AND NOTES 3, 8, 11, 12, 13, SOME DIMENSIONS AND DELETED PREVIOUS NOTE 10.

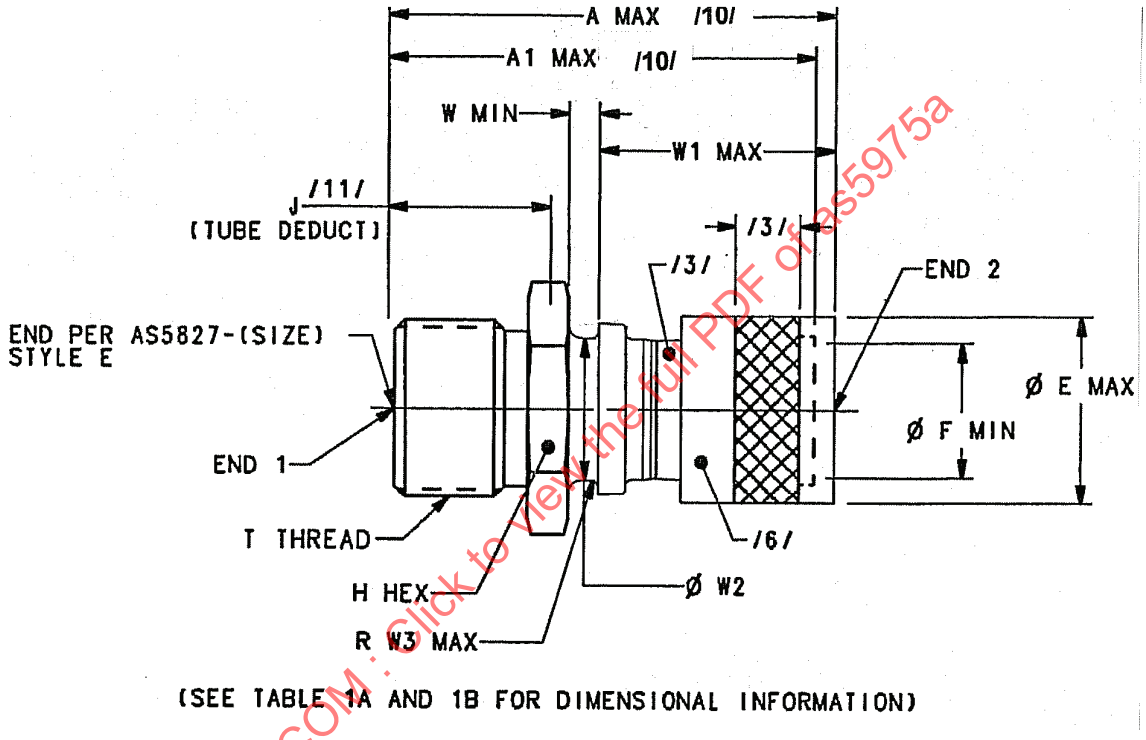
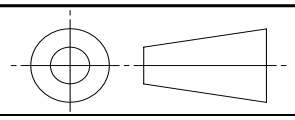


FIGURE 1 - ADAPTER, SWAGE

THIRD ANGLE PROJECTION



ISSUED 2006-01 REVISED 2007-12

CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: AS5958

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

FITTING ASSEMBLY, STRAIGHT, MALE
FLARELESS, AXIALLY SWAGED,
HYDRAULIC, 5080 PSI

AS5975
SHEET 1 OF 4

REV. A

TO PLACE A DOCUMENT ORDER: **Tel: 877-606-7323 (inside USA and Canada)** **Tel: 724-776-4970 (outside USA)**
Fax: 724-776-0790 **Email: CustomerService@sae.org** **SAE WEB ADDRESS: http://www.sae.org**

TABLE 1A - DIMENSIONS A THROUGH J

BASIC NO. AS5975 /12/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	A MAX.	A1 MAX.	E MAX.	F MIN.	(H)	J /11/ TUBE DEDUCT	
0404	.2500	.2500	1.247	1.160	.466	.253	.438	.665	+/- .150
0604	.3750	.2500	1.278	1.191	.466	.253	.563	.696	+/- .150
0406	.2500	.3750	1.477	1.361	.609	.378	.563	.678	+/- .150
0606	.3750	.3750	1.493	1.377	.609	.378	.563	.694	+/- .150
0806	.5000	.3750	1.566	1.450	.609	.378	.750	.767	+/- .150
0608	.3750	.5000	1.717	1.571	.783	.504	.750	.718	+/- .175
0808	.5000	.5000	1.810	1.664	.783	.504	.750	.811	+/- .175
1008	.6250	.5000	1.877	1.731	.783	.504	.875	.878	+/- .175
0810	.5000	.6250	2.112	1.918	.939	.629	.875	.819	+/- .175
1010	.6250	.6250	2.171	1.967	.939	.629	.875	.878	+/- .175
1210	.7500	.6250	2.258	2.064	.939	.629	1.063	.965	+/- .175
1012	.6250	.7500	2.346	2.151	1.122	.754	1.063	.909	+/- .175
1212	.7500	.7500	2.391	2.186	1.122	.754	1.063	.954	+/- .175
1612	1.0000	.7500	2.435	2.240	1.122	.754	1.313	.998	+/- .175
1216	.7500	1.0000	2.733	2.529	1.495	1.004	1.313	1.005	+/- .200
1616	1.0000	1.0000	2.697	2.483	1.495	1.004	1.313	.969	+/- .200
1620	1.0000	1.2500	3.025	2.801	1.758	1.255	1.625	1.014	+/- .200
2016	1.2500	1.0000	2.733	2.529	1.495	1.004	1.625	1.005	+/- .200
2020	1.2500	1.2500	2.999	2.775	1.758	1.255	1.625	.988	+/- .200

TABLE 1B - DIMENSIONS W THROUGH W3 AND WEIGHTS

BASIC NO. AS5975 /12/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	T THREAD PER AS8879	W MIN.	W1 MAX.	W2 ±.0015	W3 MAX.	WEIGHT LB/EA APP. REF.
0404	.2500	.2500	.4375-28 UNJEF-3A	.123	.488	.3005	.018	.017
0604	.3750	.2500	.5625-24 UNJEF-3A	.123	.488	.3005	.018	.024
0406	.2500	.3750	.4375-28 UNJEF-3A	.153	.675	.4475	.033	.026
0606	.3750	.3750	.5625-24 UNJEF-3A	.153	.675	.4475	.033	.029
0806	.5000	.3750	.7500-20 UNJEF-3A	.153	.675	.4475	.033	.047
0608	.3750	.5000	.5625-24 UNJEF-3A	.165	.871	.5945	.033	.045
0808	.5000	.5000	.7500-20 UNJEF-3A	.165	.871	.5945	.033	.063
1008	.6250	.5000	.8750-20 UNJEF-3A	.165	.871	.5945	.033	.081
0810	.5000	.6250	.7500-20 UNJEF-3A	.140	1.190	.7365	.021	.082
1010	.6250	.6250	.8750-20 UNJEF-3A	.140	1.190	.7365	.021	.100
1210	.7500	.6250	1.0625-18 UNJEF-3A	.140	1.190	.7365	.021	.162
1012	.6250	.7500	.8750-20 UNJEF-3A	.154	1.327	.8805	.024	.132
1212	.7500	.7500	1.0625-18 UNJEF-3A	.154	1.327	.8805	.024	.159
1612	1.0000	.7500	1.3125-16 UNJ-3A	.154	1.327	.8805	.024	.247
1216	.7500	1.0000	1.0625-18 UNJEF-3A	.167	1.612	1.1725	.027	.260
1616	1.0000	1.0000	1.3125-16 UNJ-3A	.167	1.612	1.1725	.027	.332
1620	1.0000	1.2500	1.3125-16 UNJ-3A	.185	1.886	1.4345	.030	372
2016	1.2500	1.0000	1.6250-16 UNJ- 3A	.167	1.612	1.1725	.027	.363
2020	1.2500	1.2500	1.6250-16 UNJ- 3A	.185	1.886	1.4345	.030	.402

NOTES:

/1/ MATERIAL:

CODE LETTER "T"

RING - AMS 4965 TITANIUM ALLOY, 6.0AL 4.0V SOLUTION HEAT TREATED AND AGED OR AMS 4928 TITANIUM ALLOY 6.0AL 4.0V ANNEALED WITH HIGH STRENGTH CARBON FIBER/EPOXY RESIN COMPOSITE REINFORCEMENT.

BODY - AMS 4928 TITANIUM ALLOY, 6.0AL 4.0V ANNEALED

2. FINISH:

TITANIUM - NONE REQUIRED

/3/ COATINGS/LUBRICANTS:

RING - THE OUTER SURFACE SHALL HAVE A .125 in MINIMUM WIDTH BLUE COLORED RING OR COMPLETELY COLORED BLUE TO INDICATE 5080 psi MAXIMUM OPERATION PRESSURE. 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 MAY BE APPLIED TO PORTIONS OF THE ID AND OD. THE PETROLEUM-BASED AND/OR 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 A ACCREDITED DISTRIBUTOR LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED LIST (QPL) PRI QPL AS5958. FOR THIS STANDARD SEE www.eauditnet.com FOR 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 SHALL BE IN ACCORDANCE WITH AS5958 AND SHALL BE IDENTIFIED ON THE RING IN THE AREA SHOWN.

7. FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH AS5959.

8. SURFACE TEXTURE SHALL BE IN ACCORDANCE WITH AMERICAN SOCIETY OF MECHANICAL ENGINEERS, ASME Y14.1 AND THE SYMBOLS IN ACCORDANCE WITH ASME 14.36M. UNLESS OTHERWISE SPECIFIED, THE MAXIMUM MACHINED SURFACES SHALL BE 125 µin Ra AND THE FORGED SURFACES SHALL BE 250 µin Ra.

9. DIMENSIONS AND TOLERANCES SHALL BE IN ACCORDANCE WITH AMERICAN SOCIETY OF MECHANICAL ENGINEERS, ASME Y14.5M.-1994.

a. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED

b. DIMENSIONAL TOLERANCES SHALL BE ±.005 in UNLESS OTHERWISE SPECIFIED

c. ANGULAR TOLERANCES SHALL BE ±0.50 degrees UNLESS OTHERWISE SPECIFIED

d. BREAK ALL EDGES .003 TO .010 in UNLESS OTHERWISE SPECIFIED

/10/ DIMENSION A IS THE FITTING LENGTH PRIOR TO SWAGE AND THE A1 IS AFTER SWAGE.

/11/ THIS DIMENSION IS THE ALLOWABLE TUBE END POSITIONING FOR SYSTEM LAYOUT DESIGN.