FEDERAL SUPPLY CLASS
4730

RATIONALE

THIS STANDARD WAS PREPARED TO PROVIDE ENVELOPE REQUIREMENTS FOR AXIALLY SWAGED, FIELD ATTACHABLE, TUBE FITTINGS.

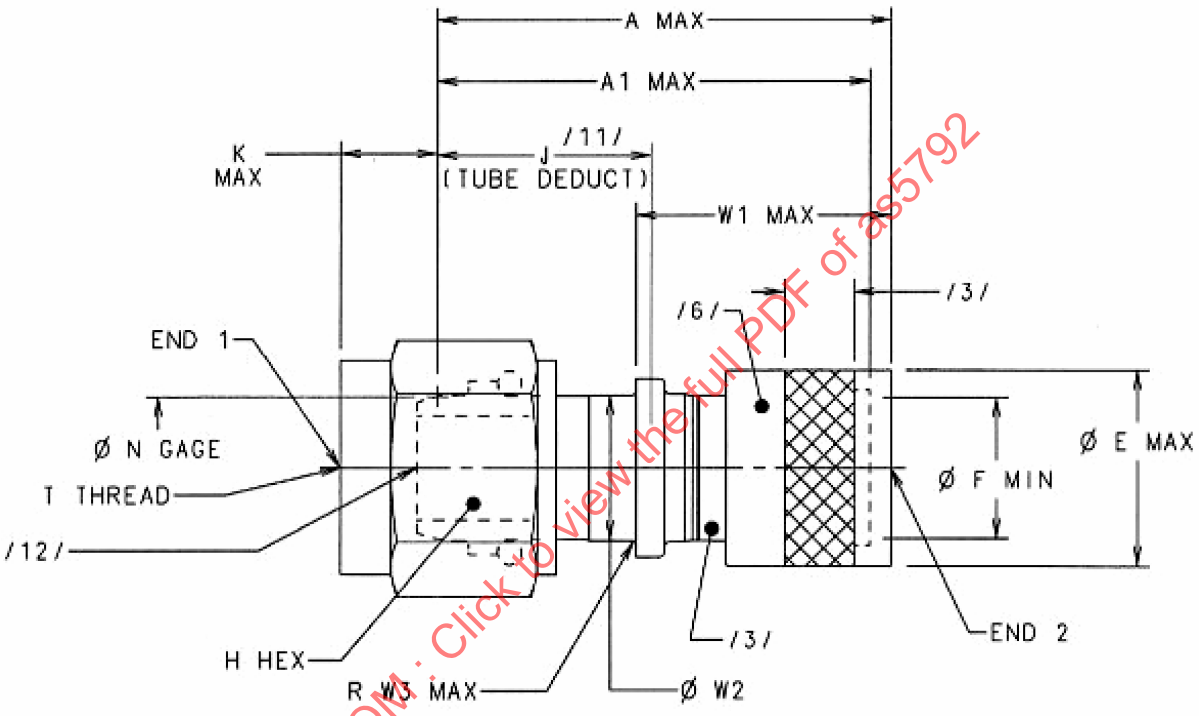
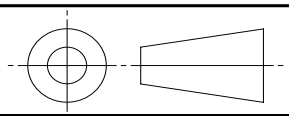


FIGURE 1 - ADAPTER, SWAGE
(SEE TABLE 1A AND 1B FOR DIMENSIONAL INFORMATION)

THIRD ANGLE PROJECTION



ISSUED 2006-06

CUSTODIAN: SAE G-3/G-3D

PROCUREMENT SPECIFICATION: AS5958

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

FITTING ASSEMBLY, STRAIGHT,
FEMALE FLARELESS,
AXIALLY SWAGED, HYDRAULIC

AS5792
SHEET 1 OF 4

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 K

BASIC NO. AS5792 /13/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	A	A1	E	F	(H)	J /11/ TUBE DEDUCT		K
0404	.2500	.2500	1.131	1.044	.466	.253	.563	.669	±.030	.325
0604	.3750	.2500	1.316	1.229	.466	.253	.688	.734	±.150	.337
0406	.2500	.3750	1.325	1.209	.609	.378	.563	.646	±.030	.325
0606	.3750	.3750	1.373	1.257	.609	.378	.688	.694	±.030	.337
0806	.5000	.3750	1.711	1.595	.609	.378	.875	.912	±.150	.380
0608	.3750	.5000	1.624	1.478	.783	.504	.688	.770	±.030	.337
0808	.5000	.5000	1.664	1.518	.783	.504	.875	.810	±.030	.380
1008	.6250	.5000	2.044	1.898	.783	.504	1.000	1.045	±.175	.407
0810	.5000	.6250	2.129	1.925	.939	.629	.875	.981	±.030	.380
1010	.6250	.6250	2.127	1.923	.939	.629	1.000	.979	±.030	.407
1210	.7500	.6250	2.305	2.100	.939	.629	1.250	1.011	±.175	.433
1012	.6250	.7500	2.330	2.125	1.122	.754	1.000	1.038	±.030	.407
1212	.7500	.7500	2.295	2.090	1.122	.754	1.250	1.003	±.030	.433
1612	1.0000	.7500	2.567	2.362	1.122	.754	1.500	1.130	±.175	.437
1216	.7500	1.0000	2.662	2.448	1.495	1.004	1.250	1.104	±.030	.433
1616	1.0000	1.0000	2.692	2.478	1.495	1.004	1.500	1.134	±.030	.437

TABLE 1B - DIMENSIONS N THROUGH W3 AND WEIGHTS

BASIC NO. AS5792 /13/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	N GAGE	T THREAD PER AS8879	W1	W2	W3 ±.0015	MAX WEIGHT LB/EA
0404	.2500	.2500	.2930	.4375-20UNJF-3B	.488	.3005	.018	.024
0604	.3750	.2500	.4160	.5625-18UNJF-3B	.488	.3005	.018	.038
0406	.2500	.3750	.2930	.4375-20UNJF-3B	.675	.4475	.033	.043
0606	.3750	.3750	.4160	.5625-18UNJF-3B	.675	.4475	.033	.043
0806	.5000	.3750	.5600	.7500-16UNJF-3B	.675	.4475	.033	.065
0608	.3750	.5000	.4160	.5625-18UNJF-3B	.871	.5945	.033	.067
0808	.5000	.5000	.5600	.7500-16UNJF-3B	.871	.5945	.033	.068
1008	.6250	.5000	.6860	.8750-14UNJF-3B	.871	.5945	.033	.097
0810	.5000	.6250	.5600	.7500-16UNJF-3B	1.190	.7365	.021	.130
1010	.6250	.6250	.6860	.8750-14UNJF-3B	1.190	.7365	.021	.116
1210	.7500	.6250	.8100	1.0625-12UNJ-3B	1.190	.7365	.021	.157
1012	.6250	.7500	.6860	.8750-14UNJF-3B	1.327	.8805	.024	.163
1212	.7500	.7500	.8100	1.0625-12UNJ-3B	1.327	.8805	.024	.173
1612	1.0000	.7500	1.0620	1.3125-12UNJ-3B	1.327	.8805	.024	.233
1216	.7500	1.0000	.8100	1.0625-12UNJ-3B	1.612	1.1725	.027	.297
1616	1.0000	1.0000	1.0620	1.3125-12UNJ-3B	1.612	1.1725	.027	.352

NOTES:

/1/ MATERIALS:

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.

NUT - AMS 4965 TITANIUM ALLOY 6.0AL 4.0V SOLUTION TREATED.

WIRE - AMS 5637 STEEL, CORROSION RESISTANT, 18CR - 9.0NI (UNS 30302) SOLUTION TREATED AND COLD DRAWN 125 KSI TENSILE STRENGTH.

AMS 5685 STEEL, CORROSION RESISTANT, SAFETY WIRE 18CR - 11.5NI, 305 WIRE, SOLUTION TREATED, COLD FINISHED.

ASTM A 580 STEEL, CORROSION RESISTANT, WIRE, 302 OR 305 CONDITION A.

2. FINISH:

TITANIUM - NONE REQUIRED.

CRES - PASSIVATION PER AMS 2700.

/3/ COATINGS/LUBRICANTS:

RING - THE OUTER SURFACE SHALL HAVE A .125 INCH MINIMUM WIDTH BLUE COLORED RING OR COMPLETELY COLORED BLUE. AN AS2141 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 LUBRICANT SHALL NOT BE IN CONTACT WITH THE SYSTEM FLUID.

NUT - LUBRICATE ID THREADS AND WIRE GROOVE LOAD BEARING SHOULDER OR MATING WIRE GROOVE LOAD BEARING SHOULDER WITH SOLID FILM LUBRICANT PER AS5272, TYPE 1 OR TYPE 2.

/4/ ALL PRODUCTS SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AN ACCREDITED MANUFACTURER AS LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST FOR PRI-QPL-AS5958 FOR THIS STANDARD. SEE HTTP://WWW.PRI.SAE.ORG/QPL/AS5958.PDF FOR CURRENT QPL ONLINE.

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 EITHER 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 MAXIMUM 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 INCHES UNLESS OTHERWISE SPECIFIED.

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

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