

REV.
B

SAE AS5869

RATIONALE

TO BE IN ALIGNMENT WITH AIRBUS EQUIVALENT PART STANDARD.

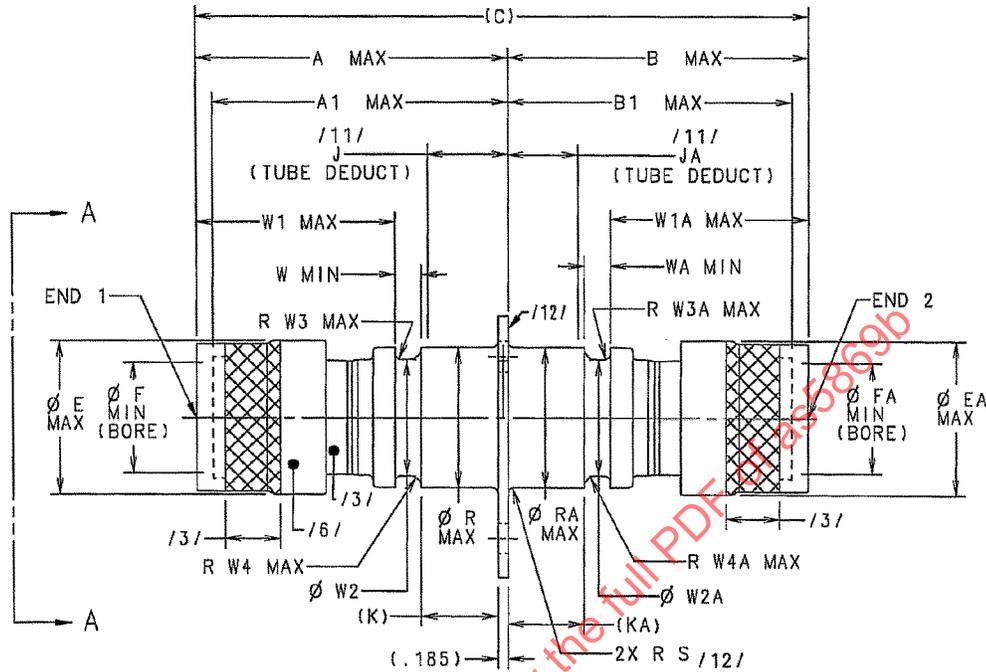
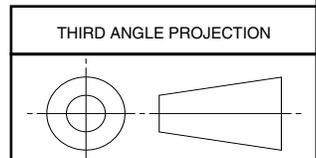
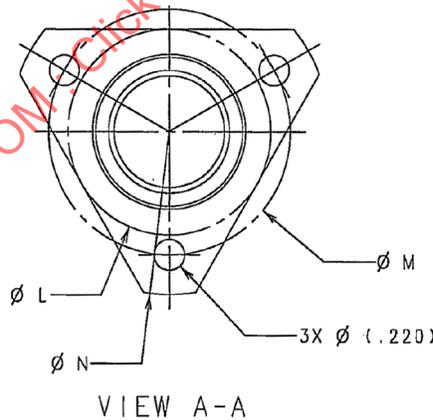


FIGURE 1 - ADAPTER, SWAGE
(SEE TABLE 1 FOR DIMENSIONAL INFORMATION)



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: AS5958

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

FITTING ASSEMBLY, UNION, 3 HOLE FLANGE,
AXIALLY SWAGED, HYDRAULIC,
5080 PSI

SAE AS5869
SHEET 1 OF 4

**REV.
B**

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

SAENORM.COM. Click to view the full PDF file at sae.org

TABLE 1A - DIMENSIONS A THROUGH FA

BASIC NO. AS5869 /13/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	A	A1	B	B1	C	E	EA	F	FA
0404	.2500	.2500	1.333	1.246	1.148	1.061	2.421	.466	.466	.253	.253
0604	.3750	.2500	1.550	1.434	1.148	1.061	2.638	.609	.466	.378	.253
0606	.3750	.3750	1.550	1.434	1.365	1.249	2.855	.609	.609	.378	.378
0806	.5000	.3750	1.758	1.612	1.365	1.249	3.063	.783	.609	.504	.378
0808	.5000	.5000	1.758	1.612	1.573	1.427	3.271	.783	.783	.504	.504
1008	.6250	.5000	2.052	1.848	1.573	1.427	3.565	.939	.783	.629	.504
1010	.6250	.6250	2.052	1.848	1.867	1.663	3.859	.939	.939	.629	.629
1210	.7500	.6250	2.203	1.998	1.867	1.663	4.010	1.122	.939	.754	.629
1212	.7500	.7500	2.203	1.998	2.018	1.813	4.161	1.122	1.122	.754	.754
1612	1.0000	.7500	2.501	2.287	2.018	1.813	4.459	1.495	1.122	1.004	.754
1616	1.0000	1.0000	2.501	2.287	2.316	2.102	4.757	1.495	1.495	1.004	1.004
1616E	1.0000	1.0000	2.799	2.585	2.316	2.102	5.055	1.495	1.495	1.004	1.004

TABLE 1B - DIMENSIONS N J THROUGH S

BASIC NO. AS5869 /13/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	J /11/		J /11/		K	KA	L	M	N	R	RA	S
			TUBE	DEDUCT	TUBE	DEDUCT								
0404	.2500	.2500	.751	±.150	.566	±.150	.512	.512	1.496	1.496	2.200	.426	.426	.090
0604	.3750	.2500	.751	±.150	.566	±.150	.512	.512	1.496	1.575	2.280	.573	.426	.090
0606	.3750	.3750	.751	±.150	.566	±.150	.512	.512	1.496	1.575	2.280	.573	.573	.090
0806	.5000	.3750	.759	±.175	.566	±.175	.512	.512	1.575	1.811	2.560	.848	.573	.090
0808	.5000	.5000	.759	±.175	.574	±.175	.512	.512	1.575	1.811	2.560	.848	.848	.090
1008	.6250	.5000	.759	±.175	.574	±.175	.493	.512	1.693	1.811	2.560	.888	.848	.090
1010	.6250	.6250	.759	±.175	.574	±.175	.493	.493	1.693	1.811	2.560	.888	.888	.090
1210	.7500	.6250	.766	±.175	.574	±.175	.505	.493	1.772	1.929	2.560	1.064	.888	.090
1212	.7500	.7500	.766	±.175	.581	±.175	.505	.505	1.772	1.929	2.560	1.064	1.064	.090
1612	1.0000	.7500	.773	±.200	.581	±.200	.513	.505	2.047	2.283	2.910	1.366	1.064	.090
1616	1.0000	1.0000	.773	±.200	.588	±.200	.512	.512	2.047	2.283	2.910	1.366	1.366	.090
1616E	1.0000	1.0000	1.071	±.200	.588	±.200	.810	.512	2.047	2.283	2.910	1.301	1.301	.090

TABLE 1C - DIMENSIONS W THROUGH W4A AND WEIGHTS

BASIC NO. AS5869 /13/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	W		W1		W2		W3		W4		WEIGHT LB/EA APPROX. REF
			W	WA	W1	W1A	±.0015	±.0015	W3	W3A	W4	W4A	
0404	.2500	.2500	.123	.123	.488	.488	.3005	.3005	.018	.018	.065	.065	.108
0604	.3750	.2500	.153	.123	.675	.488	.4475	.3005	.033	.018	.065	.065	.127
0606	.3750	.3750	.153	.153	.675	.675	.4475	.4475	.033	.033	.065	.065	.142
0806	.5000	.3750	.165	.153	.871	.675	.5945	.4475	.033	.033	.129	.065	.182
0808	.5000	.5000	.165	.165	.871	.871	.5945	.5945	.033	.033	.129	.129	.214
1008	.6250	.5000	.140	.165	1.190	.871	.7365	.5945	.021	.033	.078	.021	.237
1010	.6250	.6250	.140	.140	1.190	1.190	.7365	.7365	.021	.021	.078	.078	.256
1210	.7500	.6250	.154	.140	1.327	1.190	.8805	.7365	.024	.021	.089	.078	.283
1212	.7500	.7500	.154	.154	1.327	1.327	.8805	.8805	.024	.024	.089	.089	.329
1612	1.0000	.7500	.167	.154	1.612	1.327	1.1725	.8805	.027	.024	.099	.089	.456
1616	1.0000	1.0000	.167	.167	1.612	1.612	1.1725	1.1725	.027	.027	.099	.099	.567
1616E	1.0000	1.0000	.167	.167	1.612	1.612	1.1725	1.1725	.027	.027	.099	.099	.610

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 CARBONFIBER/EPOXY RESIN COMPOSITE REINFORCEMENT.

BODY - AMS4928 TITANIUM ALLOY, 6.0AL 4.0V ANNEALED.

FLANGE - OPTIONAL MATERIAL AMS4911 TITANIUM ALLOY, 6.0AL 4.0V ANNEALED.

2. FINISH:

TITANIUM - NONE REQUIRED

/3/ COATINGS/LUBRICANTS:

RING - THE OUTER SURFACE SHALL HAVE A .125 INCH 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 OR PTFE BASED LUBRICANT MAY BE APPLIED TO PORTIONS OF THE ID OR OD. THE AS5272 OR PTFE LUBRICANT SHALL NOT BE IN CONTACT WITH THE SYSTEM FLUID.

/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 RING IN THE AERA SHOWN.

7. FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH AS5959.

8. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 μ in Ra. FORGED SURFACES TO BE 250 μ in 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 \pm .005 INCHES UNLESS OTHERWISE SPECIFIED.

c. ANGULAR TOLERANCES SHALL BE \pm 0.50 DEGREES UNLESS OTHERWISE SPECIFIED.

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

10. INTERPRETATION OF DRAWING PER AS4296.

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

 An SAE International Group	AEROSPACE STANDARD	SAE AS5869 SHEET 3 OF 4	REV. B
	FITTING ASSEMBLY, UNION, 3 HOLE FLANGE, AXIALLY SWAGED, HYDRAULIC, 5080 PSI		