

REV.  
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SAE AS5869

RATIONALE

ADD CODE LETTER A OPTION FOR FITTINGS WITHOUT BLUE PTFE COATING OR PAINT ON THE RING. FITTINGS WITH UNCOATED/UNPAINTED RINGS ARE NEEDED TO PREVENT COATING/PAINT DEBRIS IN CONTAMINATION SENSITIVE SYSTEMS. CORRECTED ERRORS IN TABLES AND NOTES. REFORMATTED TABLES. ADDED NOTE 14 FOR CLARIFICATION OF UNSWAGED AND SWAGED DIMENSIONS.

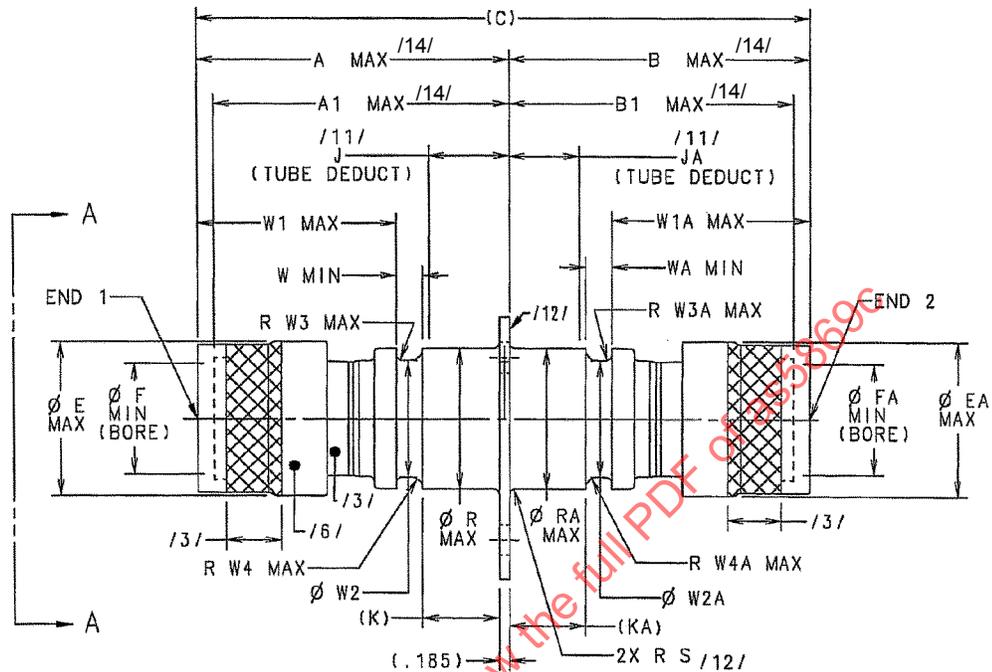
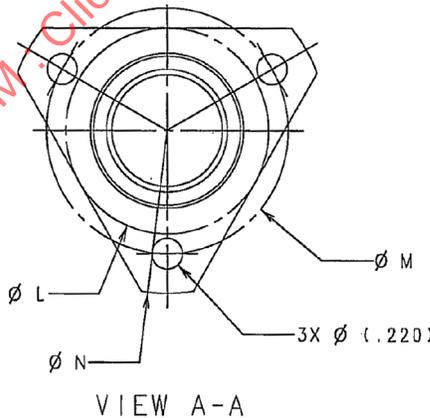
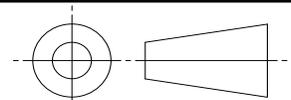


FIGURE 1 - ADAPTER, SWAGE  
(SEE TABLE 1 FOR DIMENSIONAL INFORMATION)



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THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ 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.  
C

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TABLE 1A - DIMENSIONS A THROUGH FA

BASIC NO. AS5869 /13/ SIZE CODE	NOMINAL TUBE SIZE	NOMINAL TUBE SIZE	A	A1	B	B1	C	E	EA	F	FA
	END 1	END 2									
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 J THROUGH S

BASIC NO. AS5869 /13/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 1	J /11/ TUBE	JA /11/ TUBE	(K)	(KA)	L	M	N	R	RA	S
			DEDUCT	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 ± .150	.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 ± .175	.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 1	W	WA	W1	W1A	W2		W3	W3A	W4	W4A	WEIGHT
							±.0015	±.0015					LB/EA APPROX. REF.
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	.129	.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 CARBON FIBER/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

/3/ COATINGS/LUBRICANTS:

a. NO SUFFIX CODE LETTER

- (1) 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.
- (2) 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 BASED LUBRICANT SHALL NOT BE IN CONTACT WITH THE SYSTEM FLUID.

b. SUFFIX CODE LETTER A

- (1) RING - NO BLUE PTFE COATING OR PAINT. THE WORD "BLUE" SHALL BE MARKED ON THE RING TO INDICATE 5080 PSI MAXIMUM OPERATION PRESSURE. MARKING METHODS SHALL BE IN ACCORDANCE WITH AS5958.
- (2) 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/ PROCUREMENT SPECIFICATION: AS5958 EXCEPT AS SPECIFIED ON THIS STANDARD. 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 [www.eAuditNet.com](http://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 RING IN THE AREA 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 µin Ra. FORGED SURFACES TO BE 250 µin Ra.

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