**RATIONALE** 

AS1731C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

FIGURES REDRAWN FOR CLARITY.

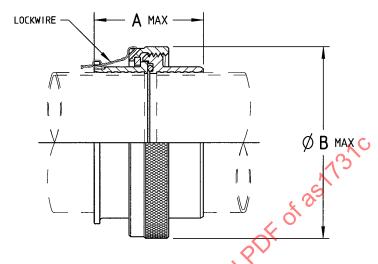


FIGURE 1 - TYPE I COUPLING - ASSEMBLED VIEW

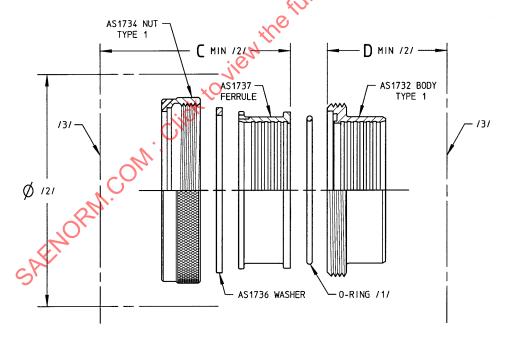
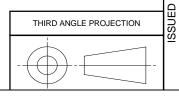


FIGURE 2 - TYPE I COUPLING - EXPLODED VIEW

SAE values your input. To provide feedback on this Technical Report, please visit http://www.sae.org/technical/standards/AS1731C



CUSTODIAN: G-3/G-3A



## **AEROSPACE STANDARD**

COUPLING, RIGID, FIXED CAVITY, THREADED FERRULE TYPE TUBE ENDS, ENVELOPE DIMENSIONS **DESIGN STANDARD** 

AS1731 SHEET 1 OF 4 REV. C

REAFFIRMED 2014-11

**REVISED 2009-05** 

1982-09

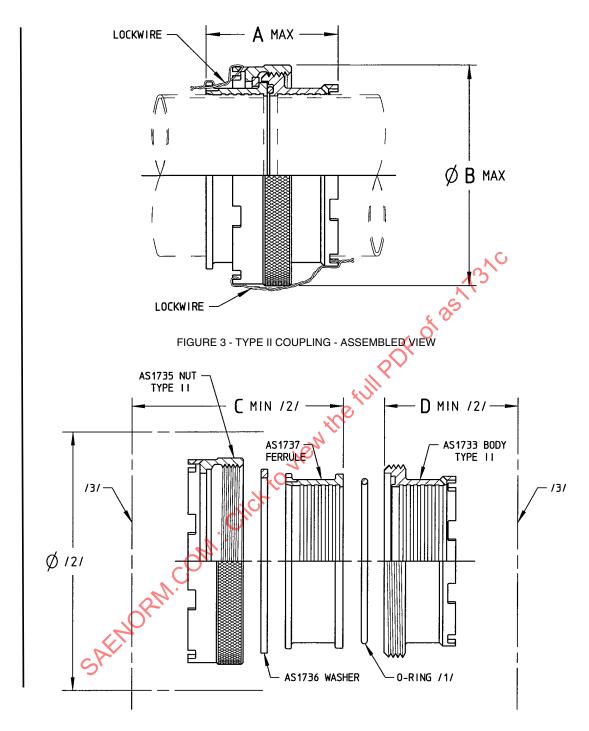


FIGURE 4 - TYPE II COUPLING - EXPLODED VIEW



## TABLE 1 - ENVELOPE DIMENSIONS

				TYPES I AND II	TYPES I AND II	TYPES I AND II
BASIC NO.		AS568	TYPES I AND II	COUPLINGS	COUPLINGS	COUPLINGS
AS1731		O-RING	COUPLINGS	В	С	D
SIZE	(TUBE	DASH NO.	Α	MAX	MIN	MIN
CODE	SIZE)	/1/	MAX	/2/	/2/	/2/
04	.250	012	1.260	.829	1.118	1.00
05	.312	013	1.260	.892	1.118	1.00
06	.375	014	1.260	.954	1.118	1.00
08	.500	016	1.260	1.079	1.118	1.00
10	.625	018	1.275	1.214	1.134	1.00
12	.750	020	1.275	1.402	1.134	1.00
16	1.000	024	1.275	1.652	1.194	1.00
20	1.250	028	1.275	1.902	1.194	1.00
24	1.500	030	1.450	2.152	1.294	1.15
28	1.750	032	1.450	2.402	1.294	1.15
32	2.000	034	1.450	2.662	1.294	<b>(</b> 1.15
36	2.250	036	1.450	2.912	1.355	1.15
					.13	
40	2.500	038	1.450	3.162	1.355	1.15
44	2.750	040	1.450	3.412	1.355	1.15
48	3.000	042	1.380	3.793	41.355	1.15
					, O'	
56	3.500	044	1.380	4.298	1.355	1.15
64	4.000	046	1.365	4.798	1.355	1.15
72	4.500	048	1.698	5.308	1.626	1.15
				11.		
80	5.000	050	1.698	5.807	1.626	1.40

## **NOTES**

- /1/ THE DASH NUMBERS LISTED IN THE TABULATION ARE STANDARD O-RING SIZES AS DEFINED BY AS568. O-RING MATERIAL IS TO BE SELECTED ON BASIS OF FLUID COMPATIBILITY AND SUPPLIED BY USER.
- /2/ DIMENSION REPRESENTS MINIMUM UNOBSTRUCTED CLEARANCE FOR ASSEMBLY. IT IS SUGGESTED THAT IF SPACE PERMITS, AN ADDITIONAL .50 in SHOULD BE PROVIDED TO "C" AND "D" DIMENSIONS AND 2.00 in TO "B" DIMENSIONS TO FURTHER EASE ASSEMBLY AND DISASSEMBLY. THIS ASSEMBLY CLEARANCE DIMENSION SHOULD APPEAR ON TUBING ASSEMBLY DRAWING.
- /3/ TANGENT POINT OF TUBE BEND OR BULKHEAD CLEARANCE REQUIRED FOR ASSEMBLY.
- 4. RIGID COUPLING ASSEMBLY CONSISTS OF THE FOLLOWING:
  - a. TYPE I
    - (1) AS1734 ONENUT
    - (2) AS1732 ONE BODY
    - (3) AS1736 ONE WASHER
    - (4) ONE O-RING (USER FURNISHED)
    - (5) AS1737 ONE FERRULE



## **AEROSPACE STANDARD**