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REV.
C

AS1731

FEDERAL SUPPLY CLASS
4730

RATIONALE

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

FIGURES REDRAWN FOR CLARITY.

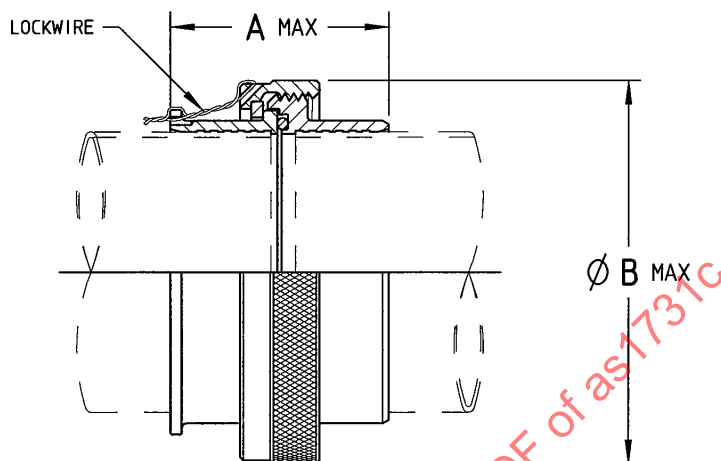


FIGURE 1 - TYPE I COUPLING - ASSEMBLED VIEW

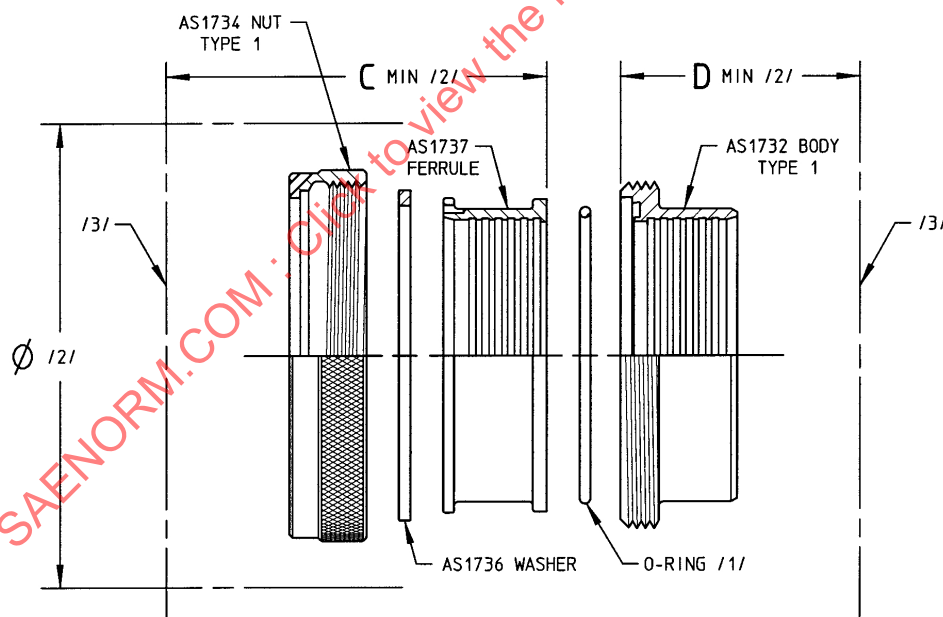
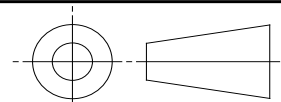


FIGURE 2 - TYPE I COUPLING - EXPLODED VIEW

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THIRD ANGLE PROJECTION



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

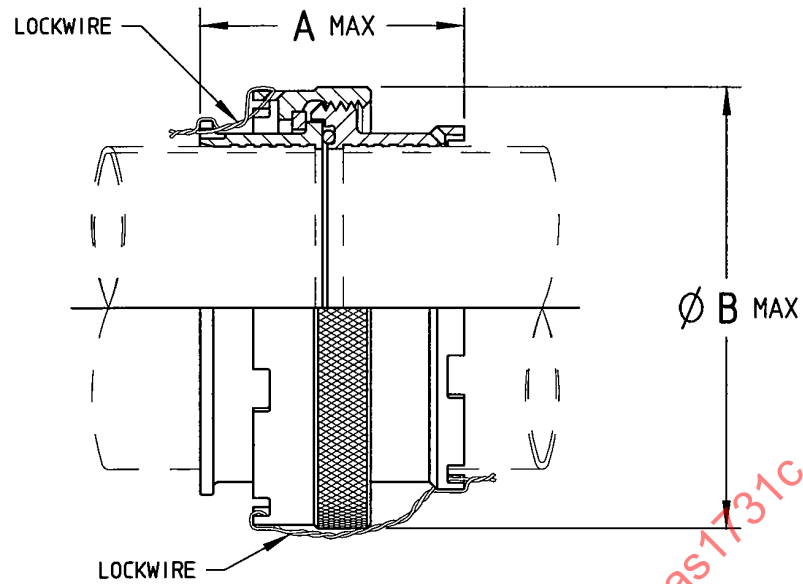


FIGURE 3 - TYPE II COUPLING - ASSEMBLED VIEW

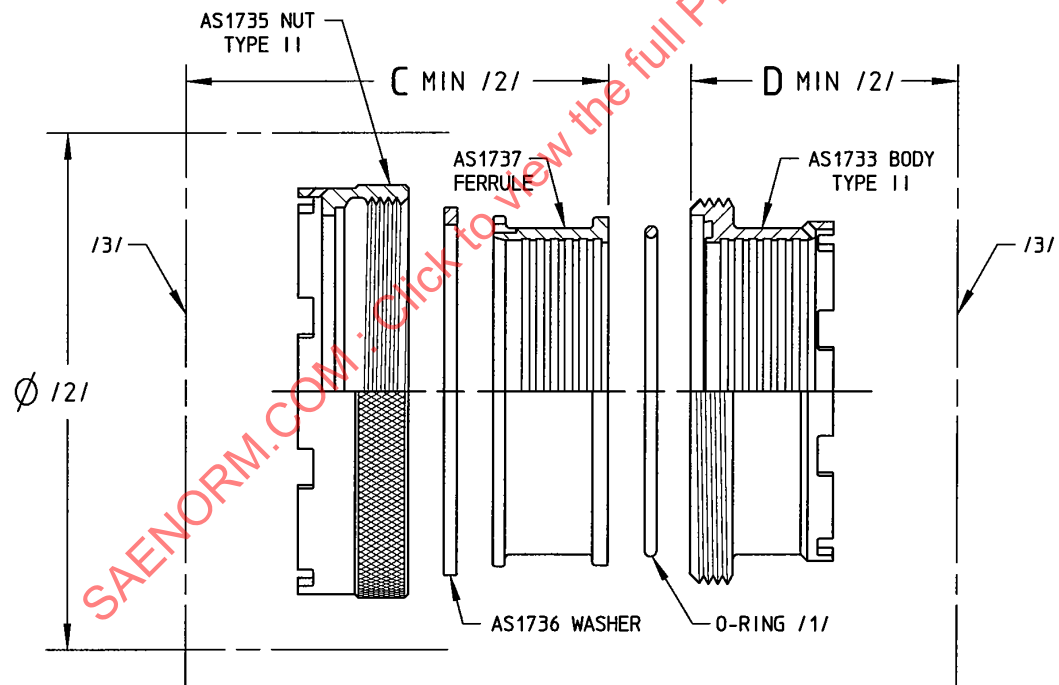


FIGURE 4 - TYPE II COUPLING - EXPLODED VIEW

TABLE 1 - ENVELOPE DIMENSIONS

BASIC NO. AS1731 SIZE CODE	(TUBE SIZE)	AS568 O-RING DASH NO. /1/	TYPES I AND II COUPLINGS A MAX	TYPES I AND II COUPLINGS B MAX /2/	TYPES I AND II COUPLINGS C MIN /2/	TYPES I AND II COUPLINGS D MIN /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	1.15
36	2.250	036	1.450	2.912	1.355	1.15
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	1.355	1.15
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
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:
- TYPE I
 - AS1734 ONE NUT
 - AS1732 ONE BODY
 - AS1736 ONE WASHER
 - ONE O-RING (USER FURNISHED)
 - AS1737 ONE FERRULE

	AEROSPACE STANDARD	AS1731 SHEET 3 OF 4	REV. C
	COUPLING, RIGID, FIXED CAVITY, THREADED FERRULE TYPE TUBE ENDS, ENVELOPE DIMENSIONS DESIGN STANDARD		