

RATIONALE

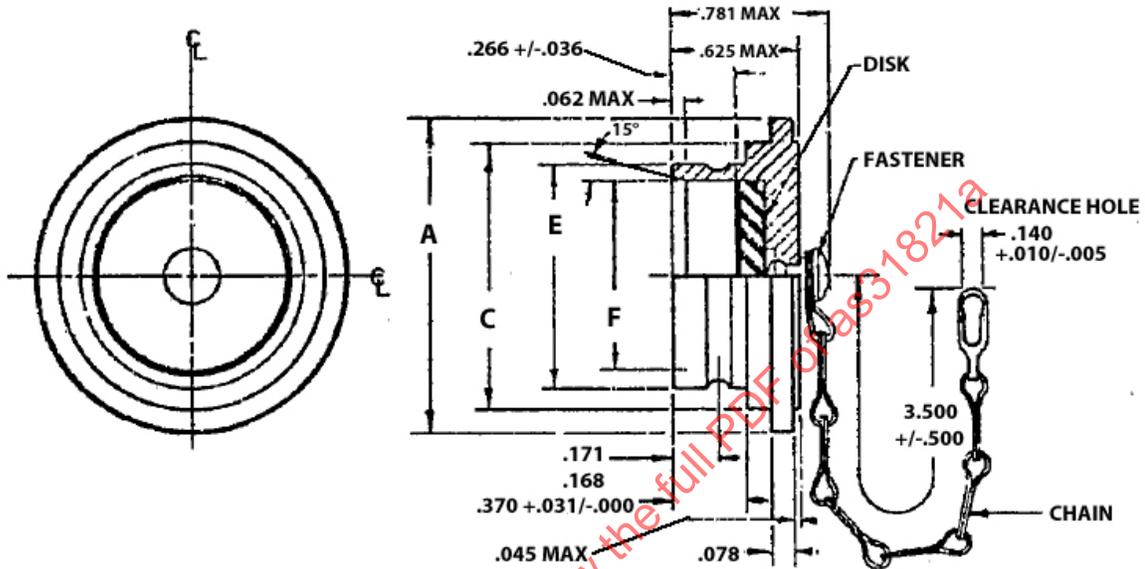
REVISE TO INCLUDE COMMENTS RECEIVED BY THE GOVERNMENT AND INDUSTRY, UPDATE REFERENCES, ALIGN SPECIFICATION WITH SAE GUIDELINES AND RE-WORK ILLEGIBLE DRAWINGS/TABLES, AND REVIEW SPECIFICATION FOR KNOWN TECHNICAL PROBLEMS.

THE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF SAE AS81703.

REV.
A

SAE AS31821

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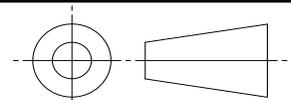
STYLE A (FOR USE WITH SOCKET CONTACT PLUGS)

FIGURE 1 – CONNECTOR COVER CONFIGURATION AND DIMENSIONS

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THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS81703

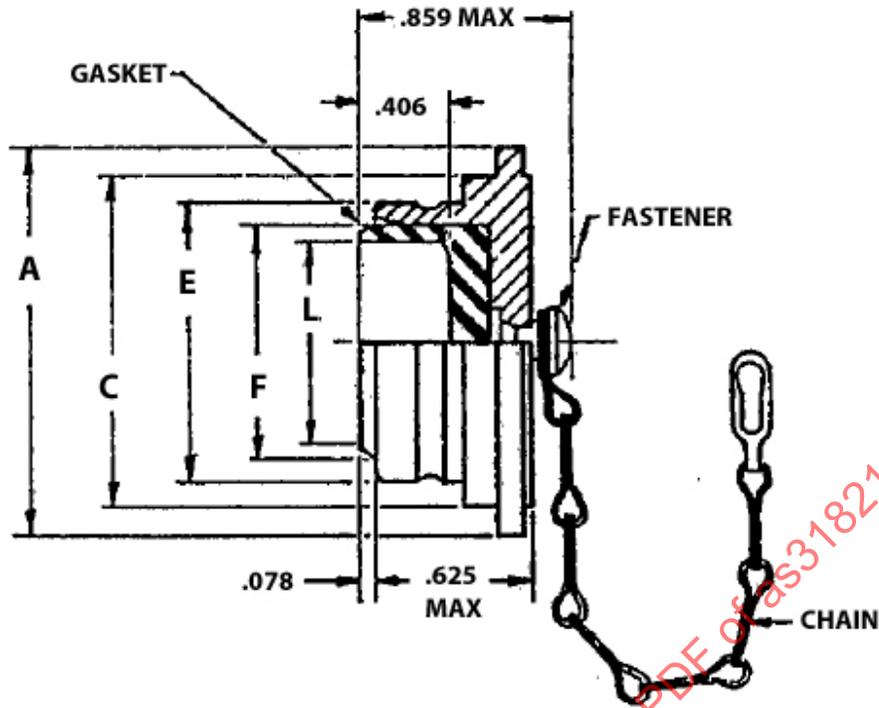
SAE Aerospace
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AEROSPACE STANDARD

(R) COVER, PROTECTIVE,
ELECTRONIC CONNECTOR, PLUG,
PUSH-PULL COUPLING

SAE AS31821
SHEET 1 OF 3

REV. A



STYLE B (FOR USE WITH PIN CONTACT PLUGS)

FIGURE 2 – CONNECTOR COVER CONFIGURATION AND DIMENSIONS (CONTINUED)

TABLE 1 – FIGURE 1 AND 2 DIMENSIONS

SHELL SIZE DASH NO.	A MAX. DIA. FLANGE	C MAX DIA. FRONT	E +.006/-.004 SHELL OUTSIDE DIA.	F +.003/-.007 SHELL INSIDE DIA.	L INSERT INSIDE DIA.
-3	.750	.578	.435	.364	.262
-7	.906	.703	.570	.480	.354
-12	1.093	.828	.704	.621	.490
-19	1.219	1.016	.843	.760	.625
-27	1.374	1.172	.998	.918	.781
-37	1.531	1.266	1.120	1.037	.900

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS81703.

1. DESIGN

CONNECTOR COVERS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURES 1 AND 2 AND TABLE 1. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE ± 0.016 INCHES. ANGULAR TOLERANCES ARE ± 0.5 DEGREES.

2. MATERIALS

COVER: IN ACCORDANCE WITH AS81703.

CHAIN: STAINLESS STEEL PASSIVATED CONFORMING TO NAS 1455.

DISK: CLOSED CELL NEOPRENE SPONGE PER ASTM-D1056.

GASKET: SYNTHETIC RUBBER WITH 55 ± 10 DUROMETER OR SUITABLE MATERIAL THAT MEETS THE REQUIREMENTS OF AS81703.

	AEROSPACE STANDARD	SAE AS31821 SHEET 2 OF 3	REV. A
	(R) COVER, PROTECTIVE, ELECTRONIC CONNECTOR, PLUG, PUSH-PULL COUPLING		