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REV.
B

AS31001™

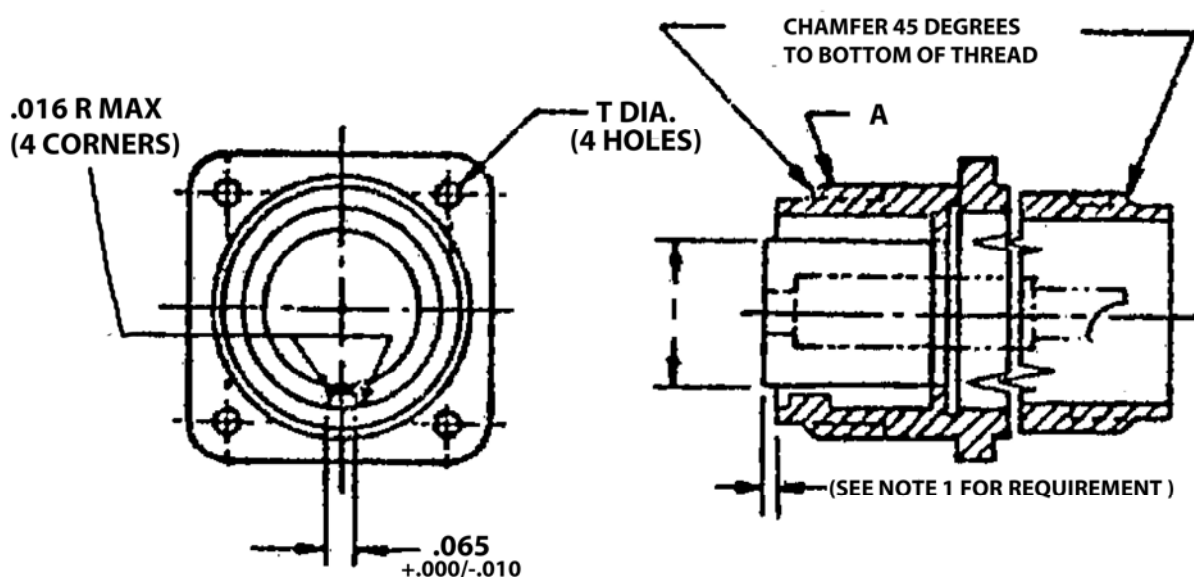
FEDERAL SUPPLY CLASS
5935

RATIONALE

- REVISION IS REQUIRED TO CORRECT THE DIMENSIONAL TOLERANCE VALUE FOR DIMENSION S.
- REVISION IS REQUIRED TO CORRECT THE APPLICATION NOTE 3 APPLICABLE SHELL SIZES.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS50151.



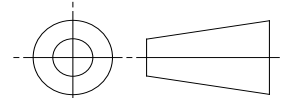
STYLE S (SOCKET INSERT)

CLASS A - SOLID SHELL
CLASS C - PRESSURIZED

FIGURE 1 - STYLE S (SOCKET INSERT)

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THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS50151

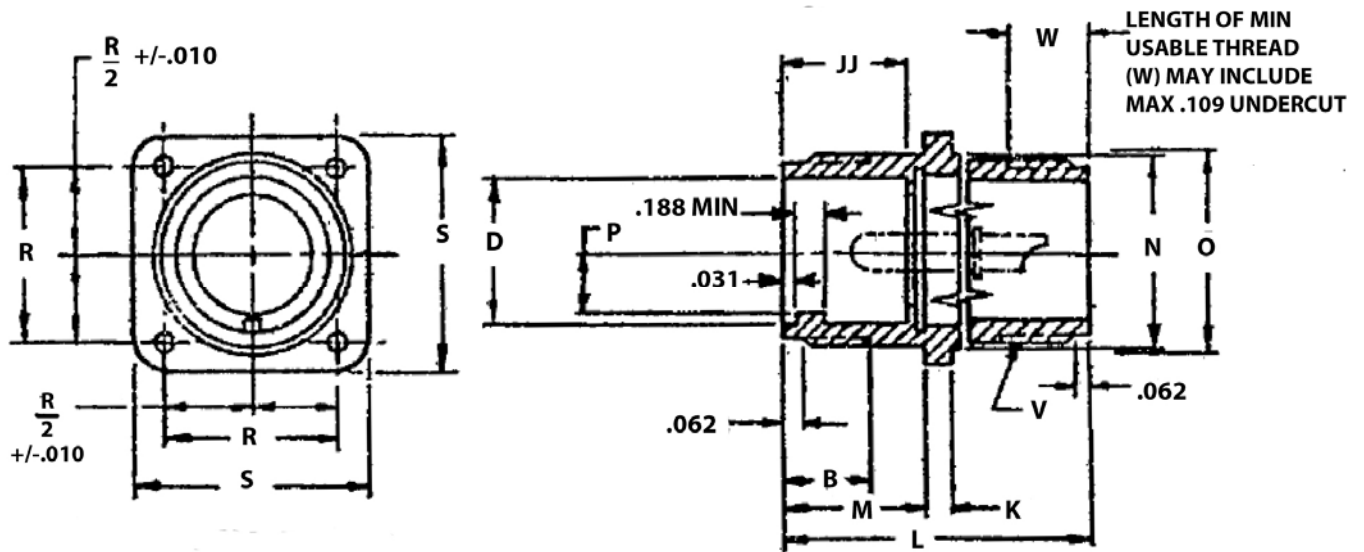


AEROSPACE STANDARD

CONNECTOR, RECEPTACLE, ELECTRIC,
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AN TYPE

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STYLE P (PIN INSERT)

CLASS A - SOLID SHELL CLASS C - PRESSURIZED

FIGURE 2 - STYLE P (PIN INSERT)

TABLE 1 - FIGURE 1 AND 2 DIMENSIONS

SIZE	A COUPLING THREAD	B MIN USABLE THREAD	D +.015 -.000 ID	I MAX INSERT DIA	JJ 1/ +.031 -.000 INSERT LOCATION	K THICKNESS MOUNTING FLANGE		L MAX OVERALL LENGTH	M +.031 -.000 MOUNTING FLANGE LOCATION	
						MAX	MIN			
8S	1/2 - 28	.375	.370	.250	.562	.156	.062	1.469	.562	
10S	5/8 - 24		.448	.320				1.531		
10SL			.448	1.688						
12S	3/4 - 20			.625				.557		.750
12	7/8 - 20	.375	.682	.525	.562			1.688	.562	
14S		.625	.750	2.062	.750					
14		.375	.562	1.688	.562					
16S	1 - 20	.625	.807	.650	.562			.203	.094	2.062
16	.932		.770	.750	2.188					
18						1-1/8 - 18	1.058			.925
20						1-1/4 - 18	1.182			1.020
22						1-3/8 - 18	1.307	1.145	2.312	.812
24						1-1/2 - 18	1.526	1.365		
28	1-3/4 - 18		1.776	1.615	.359	.125	2.438	.875		
32	2 - 18		1.995	1.830			2.562			
36	2-1/4 - 16		2.245	2.045						
40	2-1/2 - 16		2.495	2.300						
44	2-3/4 - 16		2.745	2.550						
48	3 - 16									

$\frac{1}{2}$ WHERE RESILIENT INSERTS ARE USED, "JJ" MAY BE .109 LESS THAN THAT INDICATED.

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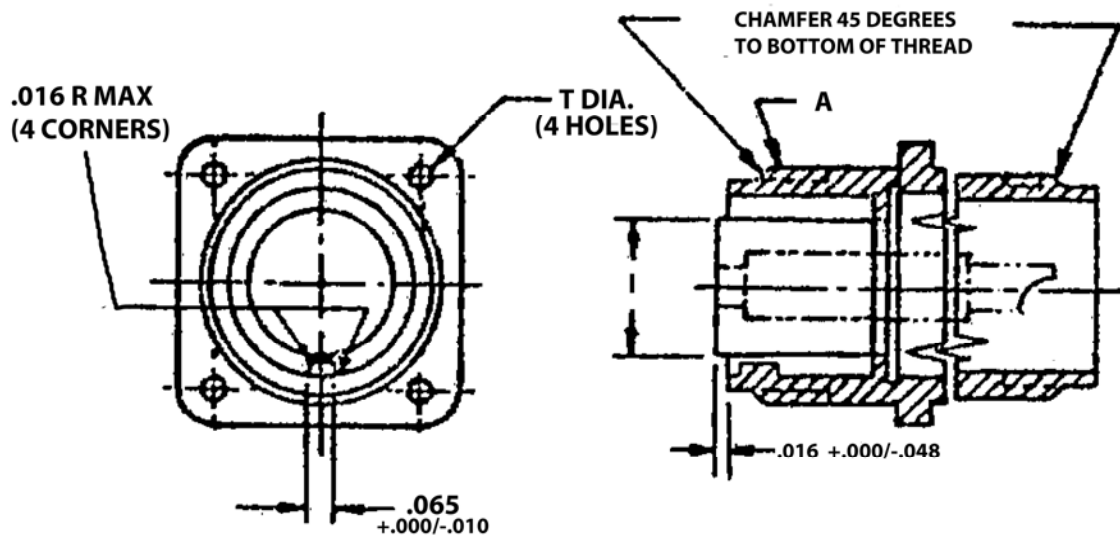
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TABLE 1 - FIGURE 1 AND 2 DIMENSIONS (CONTINUED)

	N MAX O.D.	O (REF) MOUNTING HOLE DIA	P +.015 -.000 KEY HEIGHT	R ±.005 ℄ - ℄ MOUNTING HOLES	S ±.031 INCHES LENGTH SIDE	T +.010 -.005 MOUNTING BOLT HOLE DIA	V THREAD	W MIN USABLE THREAD	FOR INSERT ARRANGEMENT SEE DRAWING
SIZE									
8S	.532	.562	.130	.594	.875	.120	1/2 - 28	.375	MIL-STD 1651
10S	.656	.688	.165	.719	1.000		5/8 - 24		
10SL	.782	.812							
12S			.224	.812	1.094				
12									
14S	.906	.938	.263	.906	1.188		3/4 - 20		
14									
16S	1.032	1.062	.325	.969	1.281		7/8 - 20		
16									
18	1.156	1.188	.385	1.062	1.375		1 - 20		
20	1.282	1.312	.463	1.156	1.500	1-3/16 - 18			
22	1.406	1.438	.510	1.250	1.625	.147	1-7/16 - 18	.438	
24	1.532	1.562	.573	1.375	1.750				
28	1.782	1.812	.683	1.562	2.000				
32	2.032	2.062	.808	1.750	2.250				
36	2.282	2.312	.915	1.938	2.500	.173	1-3/4 - 18	.500	
40	2.532	2.562	1.023	2.188	2.750		2 - 18		
44	2.782	2.812	1.150	2.375	3.000		2-1/4 - 16		
48	3.032	3.062	1.275	2.625	3.250		2-1/2 - 16		.562
							3 - 16	.625	

NOTES FOR CLASS A AND C:

1. SOCKET INSERTS OF HARD MATERIAL SHALL EXTEND .016 MAXIMUM BEYOND OR .032 MAXIMUM BELOW SHELL. SOCKET INSERT OF RESILIENT MATERIAL SHALL EXTEND .047 +.000/-.047 BEYOND SHELL.



STYLE S (SOCKET INSERT)

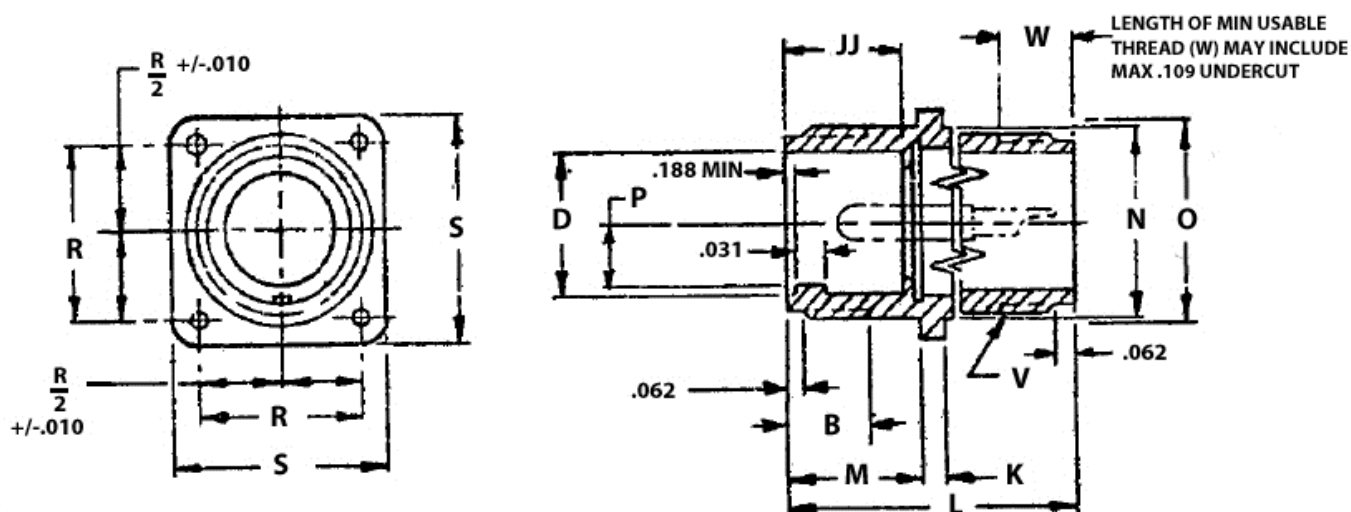
CLASS K - FIREWALL

FIGURE 3 - STYLE S (SOCKET INSERT)

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CLASS K - FIREWALL

FIGURE 4 - STYLE P (PIN INSERT)

TABLE 2 - FIGURE 3 AND 4 DIMENSIONS

SIZE	A COUPLING THREAD	B MIN USABLE THREAD	D +.015 -.000 ID	I MAX INSERT DIA	JJ +.031 -.000 INSERT LOCATION	K MIN THICKNESS MOUNTING FLANGE	L MAX OVERALL LENGTH	M +.031 -.000 MOUNTING FLANGE LOCATION		
8S	1/2 - 28	.375	.370	.250	.562	.062	2.188	.562		
10S	5/8 - 24		.448	.320						
10SL										
12S	3/4 - 20	.625	.557	.448	.750					
12										
14S	7/8 - 20	.375	.682	.525	.562		2.875	.750		
14		.625			.750		2.188	.562		
16S	1 - 20	.375	.807	.650	.562		2.875	.750		
16		.625			.750	2.188	.562			
18	1-1/8 - 18		.932	.770				.078	2.875	.750
20	1-1/4 - 18		1.058	.925						
22	1-3/8 - 18		1.182	1.020						
24	1-1/2 - 18		1.307	1.145		.125	3.125	.812		
28	1-3/4 - 18		1.526	1.365						
32	2 - 18	1.776	1.615							
36	2-1/4 - 16	.625	1.995	1.830	.750	.125	3.125	.875		
40	2-1/2 - 16		2.245	2.045						



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