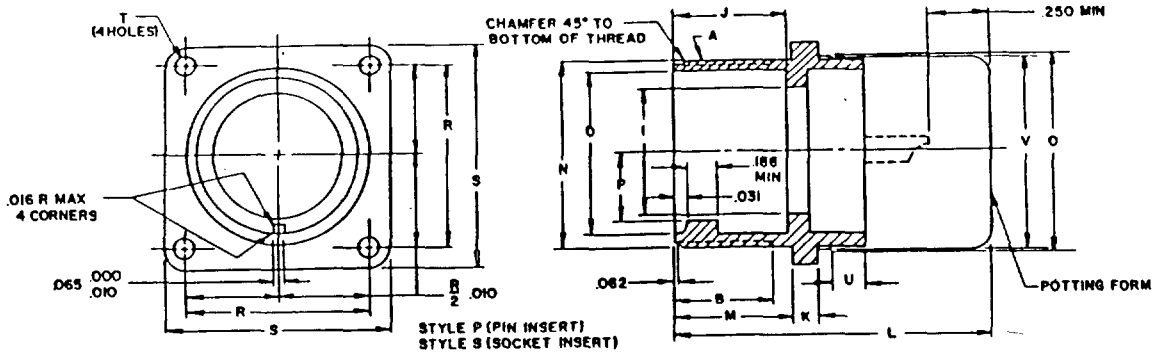
Form approved
OMB No. 0704-0188



CLASS P—ENVIRONMENT RESISTANT, POTTING

SIZE	A COUPLING THREAD	B MIN USABLE THREAD	D +.015 -.000 I.D.	I MAX INSERT DIA	J +.031 -.000 INT SHELL SHLDR	K THICKNESS MOUNTING FLANGE MAX	K MIN	L (a) MAX OVER-ALL LENGTH	M +.031 -.000 MTG FLANGE LOCATION	N MAX O.D.	O(REF) DIA PANEL OPENING MIN	P +.015 -.000 KEY HEIGHT	R +.005 CL-CL MTG HOLE	S +.031 LENGTH SIDE	T +.010 -.005 DIA BOLT HOLE	U MIN (b)	V MAX DIA	FOR INSERT ARRANGEMENT SEE
8S	1/2-28		.370	.250						.532	.635	.130	.594	.875			.613	
10S	5/8-24	.375	.448	.320	.562			1.531	.562	.656	.728	.165	.719	1.000		.085	.707	
10SL																		
12S	3/4-20		.557	.448		.156	.062			.782	.885	.224	.812	1.094	.120		.862	
12		.625			.750			1.968	.750							.141		
14S	7/8-20	.375	.682	.525	.562			1.531	.562	.906	.983	.263	.906	1.188		.085	.941	MIL-STD-1651
14		.625			.750			1.968	.750							.141		
16S	1 -20	.375	.807	.650	.562			1.531	.562	1.032	1.088	.325	.969	1.281		.085	1.066	
16								1.968	.750									
18	1-1/8-18		.932	.770	.750					1.156	1.228	.385	1.062	1.375			1.207	
20	1-1/4-18	.625	1.058	.925						1.282	1.353	.463	1.156	1.500		.141	1.332	
22	1-3/8-18		1.182	1.020		.203	.094			1.406	1.478	.510	1.250	1.625			1.457	
24	1-1/2-18		1.307	1.145				2.188	.812	1.532	1.604	.573	1.375	1.750	.147		1.582	
28	1-3/4-18		1.526	1.365						1.782	1.854	.683	1.562	2.000			1.832	
32	2 -18		1.776	1.615						2.032	2.132	.808	1.750	2.250			2.110	
36	2-1/4-16		1.995	1.830		.359	.125		.875	2.282	2.417	.915	1.938	2.500	1.73	.226	2.395	
40	2-1/2-16		2.245	2.047						2.532	2.616	1.023	2.188	2.750			2.594	

(D) NOTES:
(a) CLASS P IS INACTIVE FOR NEW DESIGN AFTER 1 JAN 1991.
(b) THE SURFACE WITHIN THE "U" DIMENSION SHALL HAVE SURFACE IRREGULARITIES TO ASSIST THE GRIP OF THE POTTING COMPOUND TO THE SHELL.

MS3103-18-5SY

- MS SHELL DRAWING NO.
- SIZE
- INSERT ARRANGEMENT NUMBER
- STYLE (P OR S)
- ALTERNATE INSERT POSITION (W, X, Y, OR Z). LEAVE BLANK FOR NORMAL POSITION

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.015.
THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

PREPARING ACTIVITY: NAVY-AS CUSTODIANS: ARMY-CR NAVY-AS AIR FORCE-85 REVIEW: ARMY-MI, AV, ME, NAVY-SH, EC, AF-99 USER: ARMY-AT, NAVY-OS, MC, CG PROJECT NUMBER: 5935-3745-04	MILITARY SPECIFICATION SHEET TITLE CONNECTOR, RECEPTACLE, ELECTRIC, POTTING SEAL, SOLDER CONTACTS, AN TYPE	SPECIFICATION SHEET NUMBER MS3103D 31 AUG 1990 SUPERSEDING MS25188(AER) AMSC- N/A FSC 5935

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