

**INCH-POUND**

MIL-S-24235/3A(SH)

21 August 1989

SUPERSEDING

MIL-S-24235/3(SHIPS)

18 July 1967

**MILITARY SPECIFICATION SHEET**

**STUFFING TUBES, METAL, AND PACKING ASSEMBLIES FOR  
ELECTRIC CABLES, BULKHEAD, FOR BALLAST TANKS**

This specification is approved for use by the Naval Sea Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation: MIL-S-24235.

**NOTES:**

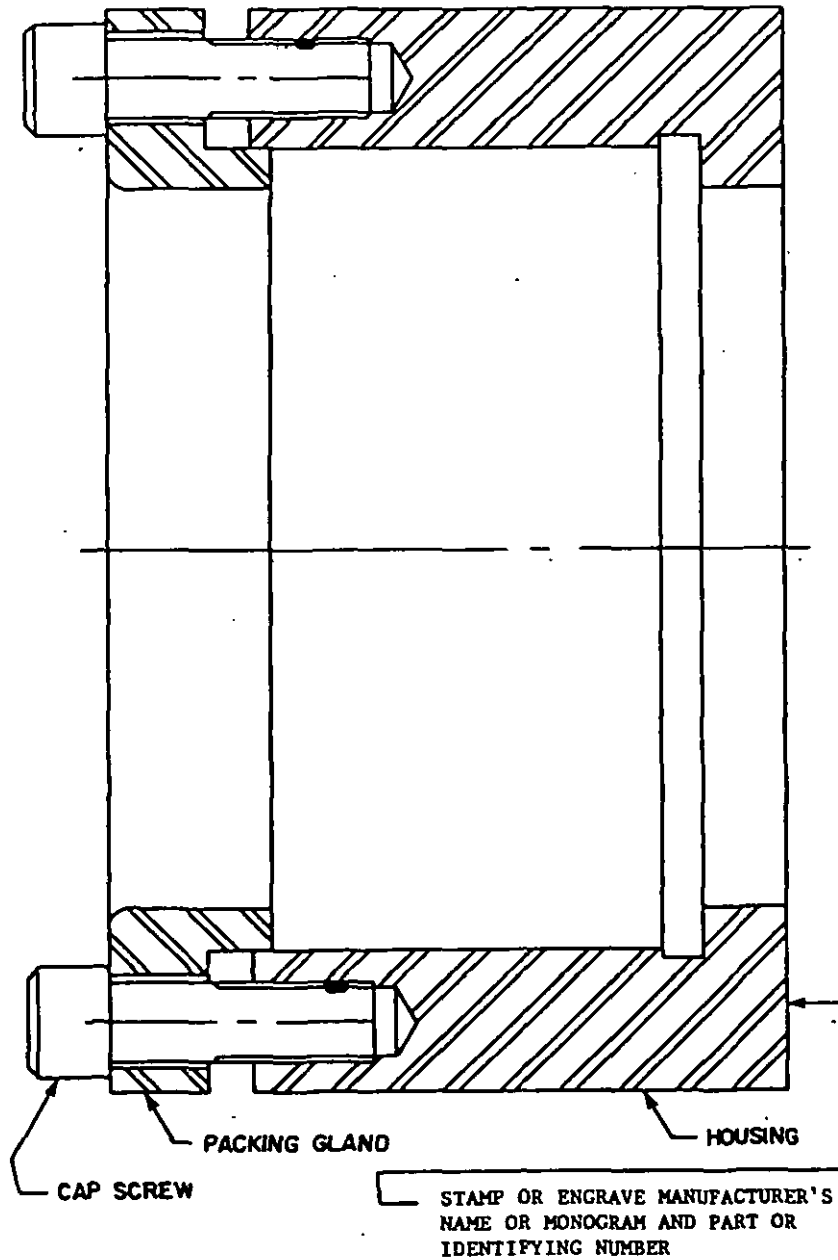
1. Dimensions are in inches.
2. Unless otherwise specified, tolerances shall be as follows:
  - Decimals - plus or minus 0.005 inch.
  - Fractions - plus or minus 1/64 inch.
  - Angular dimensions - plus or minus 30 minutes.

AMSC N/A

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FSC 5975

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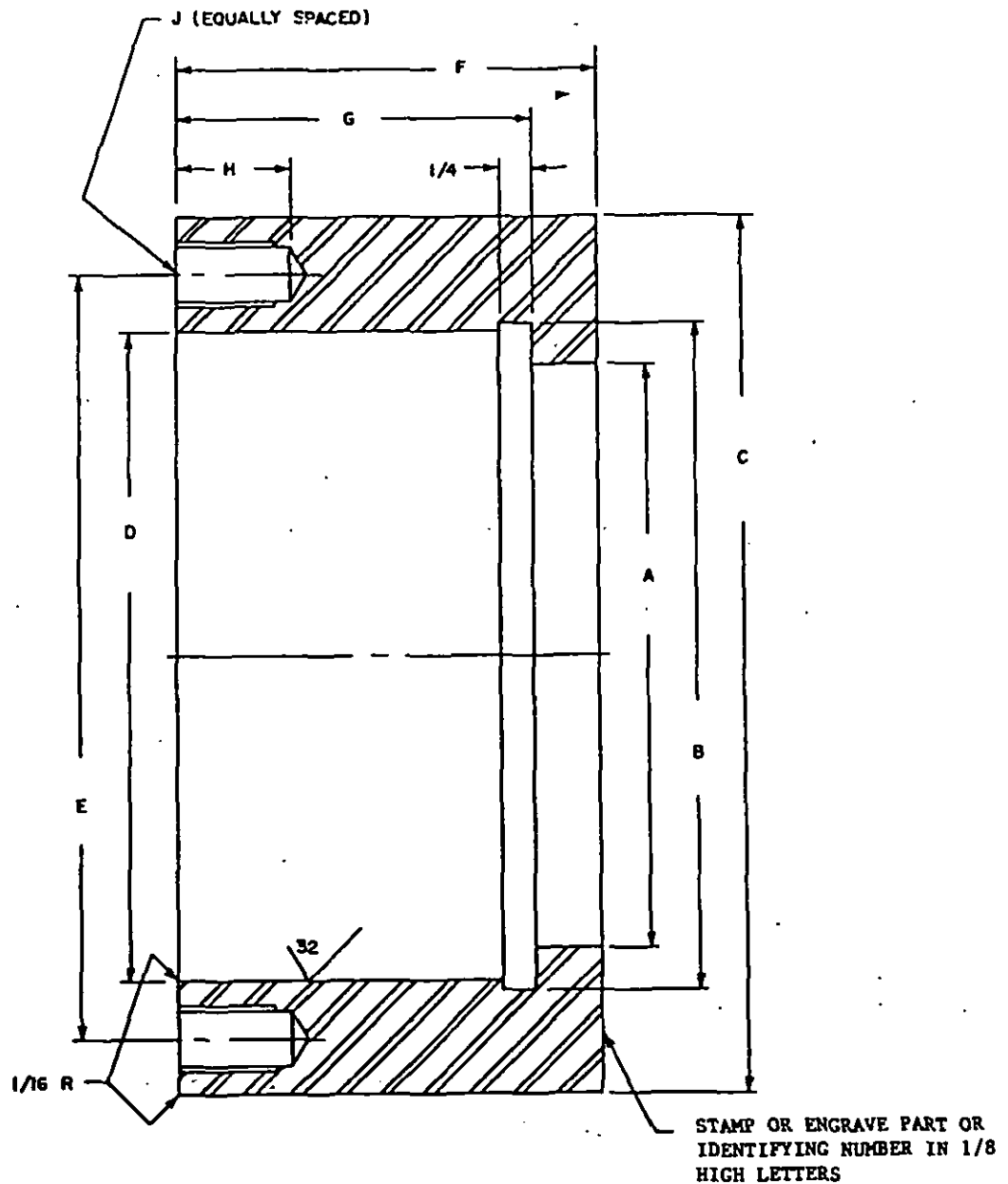


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FIGURE 1. Stuffing tube assembly. (01)TABLE I. Part or identifying numbers.

Symbol number	Assembly part	Part or identifying numbers of components		Socket head cap screw
		Housing 1 required	Packing gland 1 required	
2430	M24235/3-001	M24235/3-011	M24235/3-021	3/8-16, 1LG., 6 required
2428	M24235/3-002	M24235/3-012	M24235/3-022	1/2-13, 1-1/4LG., 8 required
2429	M24235/3-003	M24235/3-013	M24235/3-023	1/2-13, 1-1/4LG., 8 required

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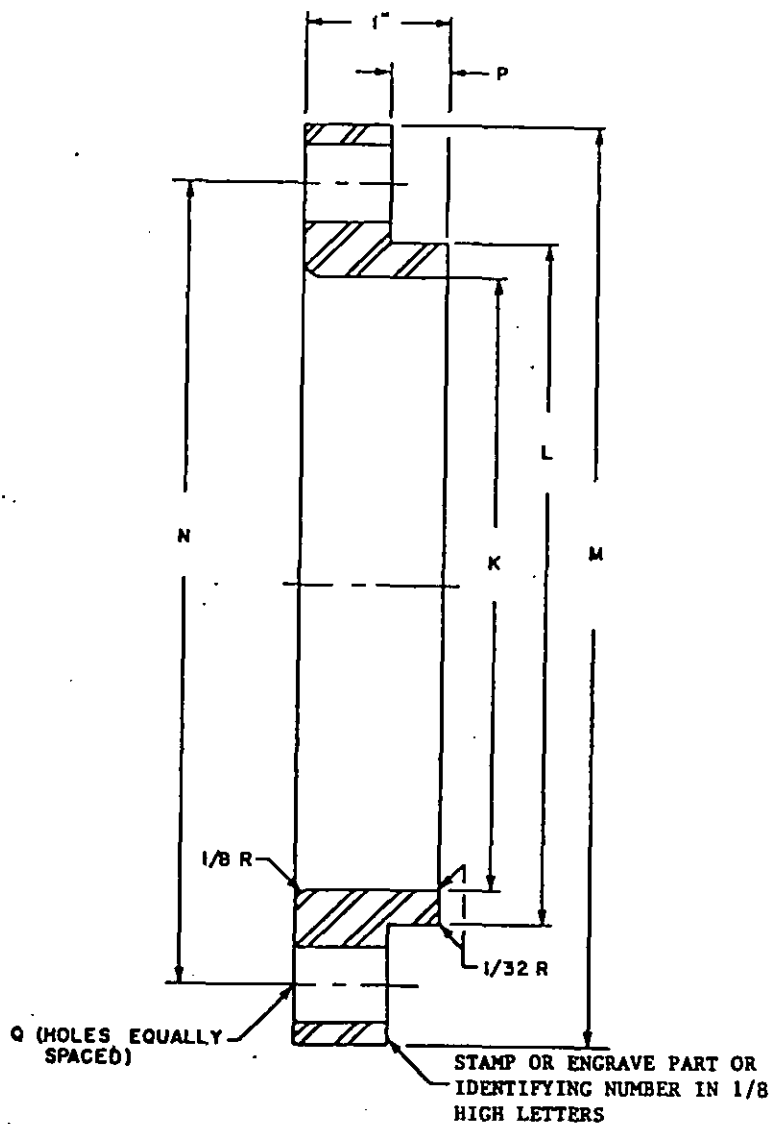


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FIGURE 2. Housing configuration. (02)TABLE II. Housing dimensions.

Part or identifying number	A DIA	B DIA	C DIA	D DIA	E DIA	F	G	H	J Thread	Holes required
M24235/3-011	2-5/8	3-1/8	4-1/2	3.000	3-3/4	2-7/8	2.495	3/4	0.375-16NC-2B	6
M24235/3-012	3-5/8	4-1/8	5-3/4	3.970	4-7/8	3-1/4	2.745	7/8	.500-13NC-2B	8
M24235/3-013	4-1/2	5-1/8	6-3/4	4.970	5-7/8	3-1/4	2.745	7/8	.500-13NC-2B	8

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FIGURE 3. Packing gland configuration. (03)TABLE III. Packing gland dimensions.

Part or identifying number	K DIA	L DIA	M DIA	N DIA	P	Q	
						Holes DIA	Holes required
M24235/3-021	2-5/8	2.945	4-1/2	3-3/4	0.360	13/32	6
M24235/3-022	3-5/8	3.945	5-3/4	4-7/8	.360	9/16	8
M24235/3-023	4-1/2	4.945	6-3/4	5-7/8	.380	9/16	8

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## REQUIREMENTS:

1. Stuffing tubes can accommodate the maximum number of cables with molded plugs as shown in table IV.

TABLE IV. Cables with molded plugs.

Stuffing tube part or identifying number	Cable		Molded plug specification and drawing
	Number	Diameter (inch)	
M24235/3-001	5	1/2	MIL-C-24231 815-1197170 MIL-C-24231 815-1197170
	5	1/2	
	1	5/8	
	2	5/8	
M24235/3-002	10	1/2	MIL-C-24231 815-1197170 MIL-C-24231 815-1197170
	10	1/2	
	10	5/8	
	10	5/8	
M24235/3-003	16	1/2	MIL-C-24231 815-1197170 MIL-C-24231 815-1197170
	16	1/2	
	12	5/8	
	12	5/8	

2. Packing assemblies: For information only, not furnished with stuffing tube.

TABLE V. Packing assemblies.

Stuffing tube part or identifying number	Packing assembly part or identifying number
M24235/3-001	M24235/4-001 M24235/4-002
M24235/3-002	M24235/4-003 M24235/4-004
M24235/3-003	M24235/4-005 M24235/4-006

3. Intended use: The stuffing tubes are for multiple electric cable penetrations of submarine ballast tank bulkheads. Stuffing tubes shall not be used in locations where they will be subjected to a pressure greater than 45 pounds per square inch (lb/in<sup>2</sup>).
4. Application: See DOD-STD-2003, section 3.

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TABLE VI. Parts list.

Item no.	Description <u>1/</u>	Qty <u>2/</u>	Material and specification	Remarks
01	Stuffing tube assemblies	-	--	See figure 1 and table I
02	Tube housing	1	CRES, type 316L, cond A, <u>3/</u> QQ-S-763	See figure 2 and table II
03	Packing gland	1	Aluminum bronze, QQ-C-465 or MIL-B-24480	See figure 3 and table III
04	Cap screw, socket head (self-locking)	<u>4/</u>	CRES, type VI, FF-S-86	See table I

1/ See applicable figure and table listed in "Remarks" column for part numbers and dimensions.

2/ Quantity is for one complete assembly of each size.

3/ May be of another material when specified in the contract or order (see MIL-S-24235).

4/ See table I for quantity.

The previous issue of this specification sheet replaced that part of Drawings, NAVSEA Nos. 815-1197198, 815-1197199 and 815-1197300 covering stuffing tubes.

Revision letters are not used to denote changes due to the extensiveness of the changes.

Preparing activity:  
Navy - SH  
(Project 5975-N626-3)