

MIL-S-2041A(SHIPS)  
 1 October 1964  
 SUPERSEDING  
 MIL-S-2041  
 27 February 1950  
 (See 6.2)

MILITARY SPECIFICATION  
 SINKS (NAVAL SHIPBOARD USE)

1. SCOPE

1.1 This specification covers sinks for use on Naval Ships.

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

SPECIFICATIONS

FEDERAL

- QQ-N-281 - Nickel-Copper-Alloy (Monel and R-Monel) Bars, Plates, Rods, Sheets, Strips, Wire, Forgings, and Structural and Special Shaped Sections.  
 QQ-S-766 - Steel Plates, Sheets, and Strip-Corrosion Resisting.

MILITARY

- MIL-V-1189 - Valve, Gate, Bronze, Flanged Ends, Working Pressures Up to 400 PSI (Shipboard Use).  
 MIL-D-1203 - Drain Cock; Cock, Shut-Off, Screw Stem; and Cock, Priming, and Relief.  
 MIL-C-15726 - Copper-Nickel Alloy Rod, and Flat Products (Flat Wire, Strip, Sheet, Bar and Plate).  
 MIL-B-16444 - Bronze, Hydraulic (Ounce Metal), Castings.

(Copies of specifications, standards, drawings, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications. - The following documents form a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

OFFICIAL CLASSIFICATION COMMITTEE  
 Uniform Freight Classification Rules.

(Application for copies should be addressed to the Official Classification Committee, 1 Park Avenue at 33rd Street, New York 16, N. Y.)

3. REQUIREMENTS

3.1 Material. -

3.1.1 Sinks. - Sinks shall be made of one of the following materials as specified (see 6.1):

- Corrosion-resisting steel conforming to class 304 of QQ-S-766.  
 Copper-nickel alloy, conforming to composition 70-30 of MIL-C-15726.  
 Nickel-copper Alloy in accordance with QQ-N-281.

If material is not specified, corrosion-resisting steel shall be furnished.

FSC 4510

## MIL-S-2041A(SHIPS)

3.1.2 Fittings. - Fittings shall be made of bronze conforming to MIL-B-18444.

3.2 Sizes and weights. -

3.2.1 Sinks. - Sinks shall conform to the size and weight requirements of table I as specified (see 6.1).

Table I - Size and weight requirements.

Size	Weight (approximate)
Inches	Pounds
30 by 24 by 12	58
24 by 24 by 12	50
24 by 18 by 10	43
14 by 18 by 10	33

3.2.2 Fittings. - Fittings shall, in all cases, be equal in thickness to standard iron pipe sizes of the same cross-sectional area of opening. Where weights are not specified, the fittings shall be sufficiently strong to withstand the service for which required (see 6.1).

3.3 Construction. - Sink seams shall be welded and finished smooth. The corners shall be rounded with a radius of 1 inch minimum, 2 inches maximum. The top edge of the sink shall be flanged outward 1 inch for securing to the dresser, except at the corners, where a minimum width of flange of 3/4 inch will be permitted.

3.4 Strainer. - A brass strainer shall be fitted over the drain opening and the total combined area of the holes shall be equal in area to that of 1-1/2 inch pipe. The strainer shall be secured by not less than two screws.

3.5 Drain valve. - A 1-1/2 inch diameter composition plug cock conforming to type M of MIL-D-1203 with circular opening, or a gate valve conforming to MIL-V-1189, shall be secured to the underside of the sink either by a suitable flange arrangement or by a flanged nipple and locknut arrangement. The handle for operating the cock or valve shall extend to the vicinity of the front of the sink.

3.6 Trap. - A 1-1/2 inch trap, S or half-S, as specified (see 6.1) shall be provided. It shall be straight-inlet, vent-capped, shall have a clean-out plug, and the inlet and outlet ends shall be arranged with ground-joint unions.

3.7 Finish. - The inside of the sinks shall be finished smooth with a dull polish. Exposed surfaces of fittings shall be polished.

3.8 Workmanship. - The workmanship shall be first class in every respect. The sinks shall be free from defects affecting appearance or that might affect serviceability.

#### 4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. - Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified, the supplier may utilize his own facilities or any commercial laboratory acceptable to the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.2 Inspection. - Each sink shall be inspected to determine conformance with the requirements of this specification. Each sink which fails to conform to the requirements shall not be offered for delivery.

MIL-S-2041A(SHIPS)

4.3 Additional inspection. - Where other specifications form a part of this specification, sampling, and inspection, for chemical composition shall be conducted as required in the referenced specification. Physical tests will not be required.

## 5. PREPARATION FOR DELIVERY

### 5.1 Domestic shipment and early equipment installation. -

#### 5.1.1 Packaging. -

5.1.1.1 Sinks. - Packaging shall be sufficient to afford adequate protection against corrosion, deterioration and physical damage during shipment from the supply source to the using activity and until early installation and may conform to the suppliers commercial practice when such meets these requirements.

5.1.1.2 Fittings. - Fittings shall be packaged as specified in 5.1.1.1 except that when they are included with the sink they shall be securely attached to each sink in such a manner as to prohibit damage to the sink or fittings.

5.1.2 Packing. - Packing shall be accomplished in a manner which will insure acceptance by common carrier at the lowest rate and will afford protection against physical or mechanical damage during direct shipment from the supply source to the using activity for early installation. The shipping containers or method of packing shall conform to the Uniform Freight Classification Rules and Regulations or other carrier regulations as applicable to the mode of transportation and may conform to the suppliers commercial practice when such meets these requirements.

5.1.3 Marking. - Shipment marking information shall be provided on interior packages and exterior shipping containers in accordance with the contractor's commercial practice. The information shall include nomenclature, Federal stock number or manufacturer's part number, contract or order number, supplier's name and destination.

5.2 Domestic shipment and storage or overseas shipment. - The requirements, and levels of packing, packing and marking for shipment shall be specified by the procuring activity (see 6.1).

5.2.1 (The following provides various levels for protection during domestic shipment and storage or overseas shipment, which may be required when procurement is made.)

#### 5.2.1.1 Packaging. -

##### 5.2.1.1.1 Level A. -

5.2.1.1.1.1 Sinks and fittings. - Sinks and fittings shall be individually packaged in accordance with method III of MIL-P-116. When fittings are included with the sink they shall be securely attached to each sink in such a manner as to prohibit damage to the sink or fittings.

#### 5.2.1.2 Packing. -

##### 5.2.1.2.1 Level A. -

5.2.1.2.1.1 Sinks and fittings shall be packed in boxes conforming to any of the following specifications at the option of the supplier:

<u>Specification</u>	<u>Type and class</u>
PPP-B-636	Type I or II, class 2
PPP-B-591	Class II

## MIL-S-2041A(SHIPS)

5.2.1.2.2 Level B. -

5.2.1.2.2.1 Sinks and fittings shall be packed separately in boxes conforming to any of the following specifications at the option of the supplier:

<u>Specification</u>	<u>Type and class</u>
PPP-B-636	Type I or II, class 1
PPP-B-591	Class I

5.2.1.2.3 Level A or B. -

5.2.1.2.3.1 Cushioning, anchoring, blocking and bracing shall be in accordance with MIL-STD-1186. Box closure and stripping shall be in accordance with the applicable box specification or appendix thereto.

5.2.1.3 Marking. - In addition to any special marking required by the contract or order, or herein, interior packages and exterior shipping containers shall be marked in accordance with MIL-STD-129.

## 6. NOTES

6.1 Ordering data. - Procurement documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) Material required (see 3.1.1).
- (c) Size and weight of sinks required (see 3.2.1).
- (d) Weights of bronze fittings, if applicable (see 3.2.2).
- (e) Type of trap required (see 3.6).
- (f) Packaging, packing and marking requirements other than those required by 5.1 (see 5.2).

6.2 Changes from previous issue. - The extent of changes (deletions, additions, etc.) preclude the annotation of the individual changes from the previous issue of this document.

Preparing activity:  
Navy - SH  
(Project 4510-N023SH)