

INCH-POUND

A-A-59308

24 August 1998

SUPERSEDING

MIL-C-20061D

18 January 1991

COMMERCIAL ITEM DESCRIPTION

CLINOMETERS, SHIP, AND ACCESSORIES

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

1. **SCOPE.** This commercial item description (CID) covers two types and three classes of bubble-in-tube type ship clinometers used for measuring the trim and the heel of ships.

2. CLASSIFICATION

2.1 Types. The clinometers shall be of the following types as specified (see 7.3):

Type I - Trim clinometer

Type II - Heel clinometer

2.2 Classes. The clinometers shall be of the following classes as specified (see 7.3):

Class A - 15 degrees of arc each side of the vertical

Class B - 20 degrees of arc each side of the vertical

Class C - 60 degrees of arc each side of the vertical

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data which may improve this document should be sent by letter to: Defense Supply Center Richmond (DSCR), ATTN: DSCR-VBD, 8000 Jefferson Davis Highway, Richmond, VA 23297-5610.

AMSC N/A

FSC 6605

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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3. SALIENT CHARACTERISTICS

3.1 Toxic chemicals, hazardous substances, and ozone depleting substances (ODS). The use of toxic chemicals, hazardous substances, or ODS shall be avoided, whenever feasible.

3.2 Mounting board. The mounting board shall be fabricated from plastic or stainless steel.

3.2.1 Type I. The mounting board shall be 14 inches wide and 5 inches high. Along the top edge, there shall be two mounting holes 0.196 inches in diameter. The holes shall be spaced five-eighths of an inch from the top and each side edge. Along the bottom edge, there shall be one mounting hole 0.196 inches in diameter. The hole shall be located five-eighths of an inch from the bottom and 5 7/8 inches from the left edge.

3.2.2 Type II. The mounting board shall be 17 inches wide and 10 inches high. Along the top edge, there shall be two mounting holes 0.196 inches in diameter. The holes shall be spaced five-eighths of an inch from the top and each side edge. Along the bottom edge, there shall be one mounting hole 0.196 inches in diameter. The hole shall be located five-eighths of an inch from the bottom and 7 7/16 inches from the left edge.

3.3 Graduations. Centered above each clinometer tube shall be a degree-graduated scale. The zero-degree mark shall be in the center, and the remainder of the degree marks shall be equally spaced to the left and right of the zero in one-degree increments. Each five-degree mark shall be numbered. The scale shall be permanently marked or affixed on the clinometer. The numerals and the graduations shall be in a contrasting color from the color of the material on which they are placed.

3.4 Accuracy. Any angular movement of the tube in a vertical plane shall produce a corresponding movement of the bubble within 1 degree for the type I, class A and type II, class B tube; and within 2 degrees for the type II, class C tube. This shall be verified by mounting the clinometer on a dividing head or other calibrated stand so that it can be revolved in the vertical plane. The indications shall be observed when the clinometer is displaced from the vertical. Five points on each side of the vertical shall be tested. The test shall be performed at a temperature between 15.3°C and 23.9°C.

3.5 Shock. The assembled unit shall withstand, without breakage of board or tube(s), Grade B, Class I, Type A shock test in accordance with MIL-S-901, Shock Tests, H.I. (High Impact) Shipboard Machinery, Equipment, and Systems, Requirements for.

3.6 Identification. The following information shall be permanently marked, or affixed, in a contrasting color, on the front of the unit:

- (a) SHIP CLINOMETER
- (b) TYPE _____
- (c) CONTRACTING AGENCY _____
- (d) CONTRACT NO. _____ YEAR _____
- (e) MANUFACTURER'S NAME _____
- (f) NSN _____

(g) U.S.

4. REGULATORY REQUIREMENTS

4.1 Marking, packaging, and labeling. Material shall be labeled, packed, and marked in accordance with Title 49, Code of Federal Regulations (CFR) paragraphs 100 to 185.

4.2 Recycled materials. The offeror/contractor is encouraged to use recovered materials to the maximum extent practical, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

5. QUALITY ASSURANCE PROVISIONS

5.1 Product conformance. The product provided shall meet the salient characteristics of this commercial item description, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance.

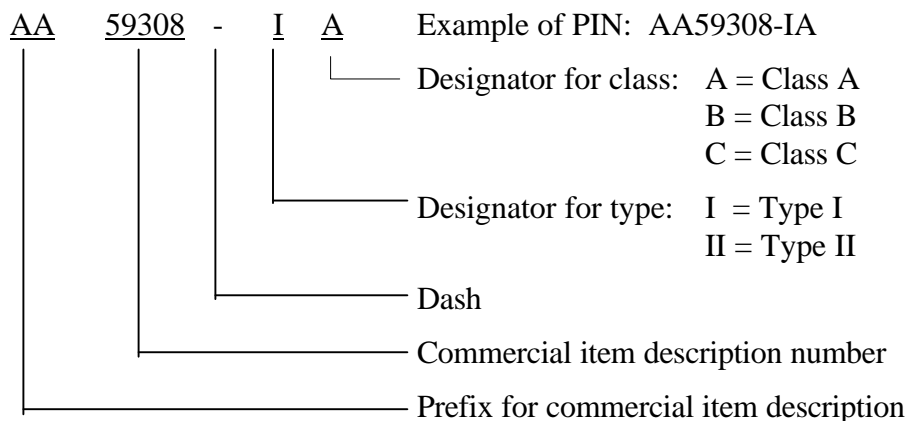
5.2 Market acceptability. The item offered must have been sold to the government or commercial market.

6. **PACKAGING**. Preservation, packing, and marking shall be as specified in the contract or order.

7. NOTES

(This section contains information of a general or explanatory nature that is helpful, but is not mandatory).

7.1 Part identification number (PIN). The following part identification numbering procedure is for government purposes and does not constitute a requirement for the contractor.



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7.2 Source of documents.

7.2.1 The Code of Federal Regulations and Federal Acquisition Regulation may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402-0001.

7.2.2 Military specifications may be obtained from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.

7.3 Ordering data. Acquisition documents must specify the following:

7.3.1 Title, number, and date of this commercial item description.

7.3.2 Type and class required (see 2).

7.3.3 Packaging requirements (see 6).

7.4 National stock number (NSN). The following NSNs correspond to this commercial item description. They may not be indicative of all possible NSNs for this CID.

NSN	Type	Class	Description
6605-00-391-4234	II	n/a	Board
6605-00-391-4235	I	n/a	Board
6605-00-752-8791	II	C	Tube
6605-00-752-8792	II	B	Tube
6605-00-752-8793	I	A	Tube
6605-00-276-9254	II	E ⁽¹⁾	Tube

⁽¹⁾ non standard

7.5 Sources of supply. The following company produces products known to meet the commercial item description requirements. Competition is not to be limited to the suppliers on this list.

Connecticut Valley Industries Incorporated
8 Center Road
Old Saybrook, CT 06475
(860) 388-0822

Navistar Marine Instrument Corporation
2505 West Coast Highway
Suite 102
Newport Beach, CA 92663
(714) 650-3799
Moeller Instrument Company, Incorporated

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P.O. Box 668
128 Main Street
Ivoryton, CT 06442
(800) 243-9310

MILITARY INTERESTS:

Custodians

Navy - SH
Air Force - 99

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FCGC

Preparing Activity:
DLA - GS

(Project 6605-0502)