

INCH-POUND

A-A-54848
16 April 1993

COMMERCIAL ITEM DESCRIPTION

COMPASS, MAGNETIC, UNMOUNTED

The General Services Administration has authorized the use of this Commercial Item Description as a replacement for MIL-C-6235D, which is cancelled.

This Commercial Item Description covers a hand-held compass for inclusion in individual survival kits.

Salient characteristics:

The compass shall be a small (3/4" diameter) magnetic pocket instrument which is water-tight and designed in accordance with Figures 1 and 2, consisting of a brass case, rotating compass card, and clear plastic cover. The compass shall be of a dry construction and contain no liquid. It shall retain luminosity for 30 minutes upon exposure to an external light source. A three-foot length of 45 pound braided nylon fishline, olive drab or green color, shall be threaded through the retainer ring with the end tied to form a necklace.

The compass case (Figure 1) shall be constructed of brass and finished with lusterless olive drab paint. The transparent colorless cover shall be polymethylmethacrylate, or equivalent, and sealed to the case with a gasket to insure water-tightness.

The card assembly (Figure 2) shall consist of a dull black disc with cobalt steel magnet attached and fitted with a glass cup jewel for rotating on a high grade steel pivot. The card assembly shall be graduated in 22.5 degree marks (16 points) with prominent markings for North, East, West, and South. The arrow marking on the disc indicating north direction and the other three cardinal point markings shall be marked with phosphor paint, the other graduations shall be

AMSC N/A

FSC 6605

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

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white in color. Performance of card assembly shall be such that it can rotate freely on pivot without restrictive action within range of tilt (from horizontal plane) between minus 8 and plus 8 degrees. The induction damping of the card is accomplished by the use of a suitable brass compass case so that the card shall not overswing its equilibrium position more than 80° , when rotated 180° and the maximum deflection of the card shall not exceed 5° upon completion of a 360° turn in one minute.

Compass shall operate satisfactorily upon withstanding a low temperature of minus 65F degrees (24 hours), a high temperature of 155F degrees (2 hours), and a drop of 5 feet (onto hard wood).

Workmanship. The magnetic compass shall be free from defects which detract from its appearance or impair its serviceability. All parts, components and assemblies of the compass including molded parts, stampings, and machined surfaces shall be clean and free from dirt, oil, fins, pits, spurs, scale, flux, and other harmful extraneous material. All edges shall be rounded or beveled.

Unit. Each (EA). One compass containing , as specified, constitutes one unit.

Quality Assurance Provisions.

Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by 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.

Records. Records of examinations and tests performed by or for the contractor shall be maintained by the contractor and made available to the Government upon the Government's request, at any time, or from time to time, during the performance of the contract and for a period of three years after delivery of the supplies to which such records relate.

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Inspection. Inspection, as used herein, is defined as both examination (such as visual or auditory investigation without the use of special laboratory appliances or procedures) and testing (determination by technical means of physical and chemical properties) of the item.

Sampling for examination. Sampling for examination shall be conducted in accordance with MIL-STD-105, with an AQL of 2.5 (percent defective) and an inspection level of I. The unit of product for examination purposes shall be one compass.

Sampling for tests. Sampling for tests, including dimensional test, shall be conducted in accordance with MIL-STD-105, with an AQL of 2.5 (percent defective) and an inspection level of I. The unit of product for test purposes shall be one compass.

Tests. Tests shall be conducted to determine compliance with specification requirements. Where feasible, the same sample shall be used for the determination of two or more test characteristics.

Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, providing they fall within the tolerances specified using conversion tables contained in the latest revision of Federal Standard 376, and all other requirements of this document are met.

If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch/pound units, a request should be made to the contracting officer to determine if the product is acceptable.

The contracting officer has the option of accepting or rejecting the product.

Contractor certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this Commercial Item Description, and that the product conforms to the producers' own drawings, specifications, standards, and quality assurance practices. The government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

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Regulatory requirements.

Federal Food, Drug and Cosmetic Act. If the product covered by this document has been determined by the U.S. Food and Drug Administration to be under its jurisdiction, the offeror/contractor shall comply, and be responsible for compliance by its subcontractors/suppliers, with the requirements of the Federal Food, Drug and Cosmetic Act, as amended, and regulations promulgated thereunder. In addition, the offeror/contractor shall comply, and be responsible for, compliance by its subcontractors/suppliers, with the requirements of all other applicable Federal, State, and local statutes, ordinances, and regulations.

Recovered materials. The offeror/contractor is encouraged to use recovered material in accordance with Federal Acquisition Regulation Subpart 23.4 to the maximum extent practical.

Preservation, packaging, packing, labeling, and marking. Unless otherwise specified, preservation, packaging, and packing shall be to a degree of protection to preclude damage to containers and/or contents thereof under normal shipping conditions, handling, etc., involving shipment from the supply source to the receiving activity, plus reshipment from receiving activity, and shall conform to applicable carrier's rules and regulations. Intermediate and exterior package quantities and labeling and marking shall be as specified in the contract and/or order.

Ordering data. Intermediate/exterior package quantities, labeling, and marking must be specified in the contract and/or order.

NOTE: The following National Stock Number is covered by this document.

6605-01-326-1654

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MILITARY INTERESTS:

Custodians:

Air Force - 03
Army - MD
Navy - MS

PREPARING ACTIVITY:

DoD-MB

Agent:

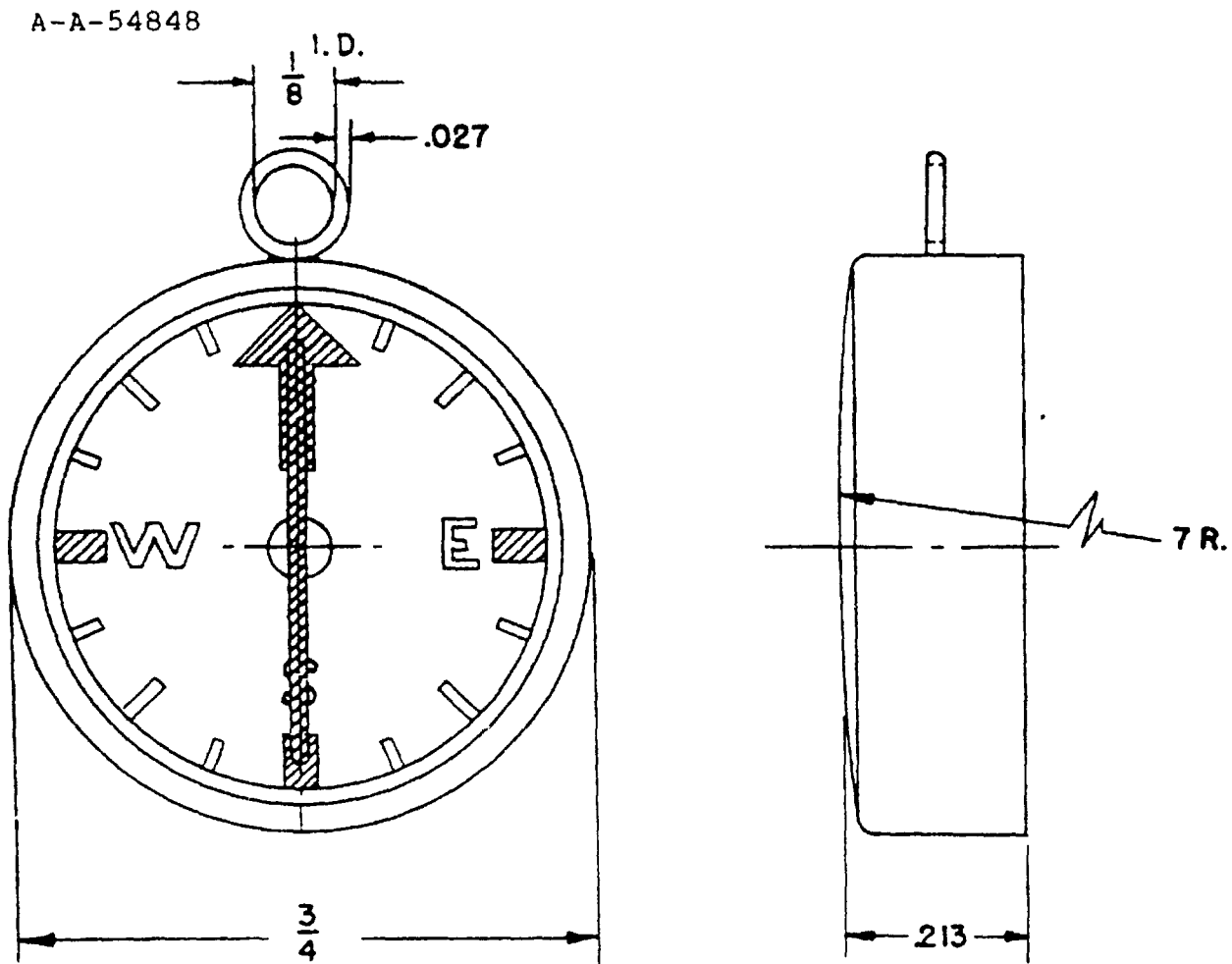
DLA-DM

CIVIL AGENCY COORDINATING ACTIVITIES:

FDA-MPQAS
USPHS
VA - OSS

Project Number: 6605-0411

Location: COMPS14C.DOC

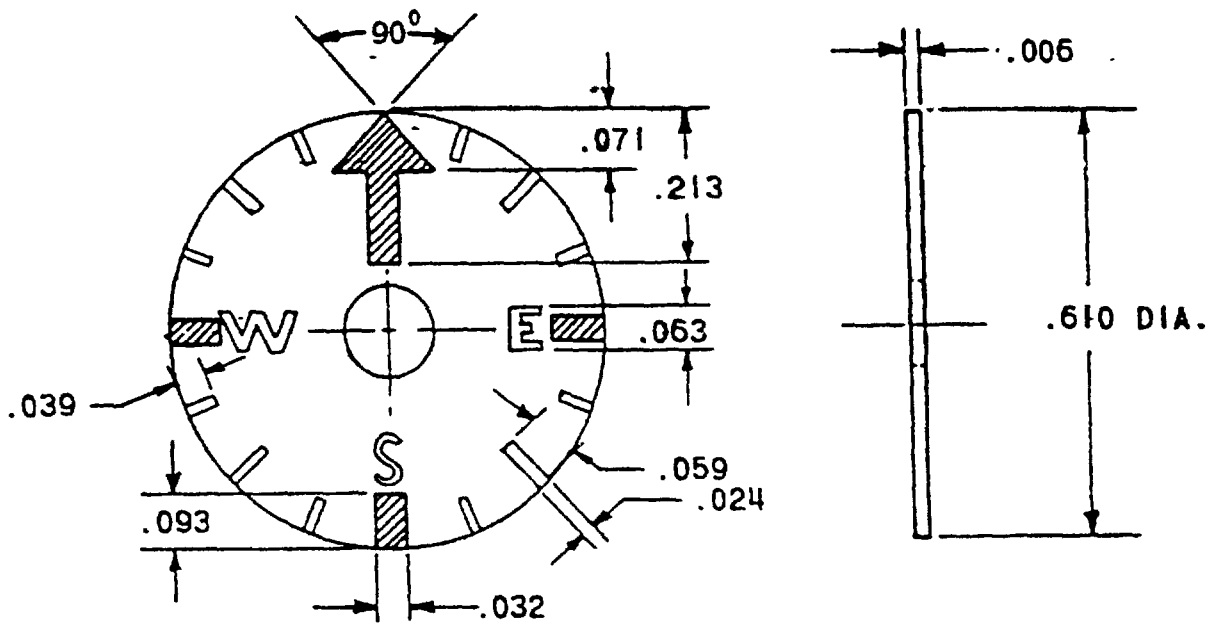


DIMENSIONS IN INCHES
UNLESS OTHERWISE SPECIFIED.
TOLERANCES.

ANGLE ± 2
DECIMALS $\pm .002$
FRACTION $\pm \frac{1}{32}$

FIGURE 1. Compass.

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NOMINAL SIZE $\frac{3}{4}$

DIMENSIONS IN INCHES
UNLESS OTHERWISE SPECIFIED.
TOLERANCES:

ANGLES $\pm 2^\circ$
DECIMALS $\pm .002$

FIGURE 2. Compass card.

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

- 1 The preparing activity must complete blocks 1, 2, 3, and 8 in block 1, both the document number and revision letter should be given
- 2 The submitter of this form must complete blocks 4, 5, 6, and 7
- 3 The preparing activity must provide a reply within 30 days from receipt of the form

NOTE This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

1. RECOMMEND A CHANGE:		1 DOCUMENT NUMBER A-A-54848	2 DOCUMENT DATE (YYMMDD) 16 April 1993
3 DOCUMENT TITLE COMPASS, MAGNETIC, UNMOUNTED			
4 NATURE OF CHANGE (Identify paragraph number and include proposed rewrite if possible. Attach extra sheets as needed.)			
5 REASON FOR RECOMMENDATION			
6. SUBMITTER			
a. NAME (Last, First, Middle Initial)		b. ORGANIZATION	
c. ADDRESS (include Zip Code)		d. TELEPHONE (include Area Code) (1) Commercial (2) AUTOVON (if applicable)	e. DATE SUBMITTED (YYMMDD)
8 PREPARING ACTIVITY			
a. NAME DEFENSE PERSONNEL SUPPORT CENTER ATTN: DPSC-MSE		b. TELEPHONE (include Area Code) (1) Commercial AC 215-737-2870	(2) AUTOVON AV 444-2870
c. ADDRESS (include Zip Code) 2800 SO 20TH STREET PHILADELPHIA, PA 19145		IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS CONTACT Defense Quality and Standardization Office 5203 Leesburg Pike Suite 1403 Falls Church VA 22041 3466 Telephone (703) 756-2340 AUTOVON 289-2340	