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* INCH-POUND *

A-A-50469B
June 3, 1994

SUPERSEDING
A-A-50469A
September 8, 1989

COMMERCIAL ITEM DESCRIPTION

HOOK, REGULAR EYE, LATCH TYPE

The General Services Administration has authorized the use of this commercial item description in preference to style B, type I, class I of the Military Specification MIL-H-19253C.

Abstract. This CID applies to latch type hooks that support a load in a direct-pull configuration, and such load is carried in the base (bowl-saddle) of the hook. The hook is intended for use in material handling operations.

Salient characteristics:

1. Requirements. Hoist hooks shall be as specified herein and shall be in accordance with the basic requirements shown in table I for the rated capacity and throat openings. Hooks of a rated capacity greater than specified in this table will be acceptable provided they meet all other requirements. The hook shall have a latch type closure device to bridge the throat opening of the hook. The hook shall be constructed with a fixed lifting eye in the same plane as the throat opening.

TABLE I. Basic requirements.

Rated capacity Short tons (2,000 pounds)	Inside eye diameter (minimum) (inches)	Throat opening w/latch (minimum) (inches)
1.5	0.875	0.875
2.0	1.125	0.937
2.5	1.250	1.000
5.0	2.000	1.688

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commanding Officer (Code 156), Naval Construction Battalion Center, 1000 23rd Avenue, Port Hueneme, CA 93043-4301, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

FSC 4030

2. Material. The hooks shall be constructed conforming to the requirements specified herein. The hook material shall have sufficient ductility to permanently deform before failure. The hook shall be zinc-coated in accordance with the manufacturer's standard practice.

3. Defects. There shall be no defects when magnetic particle inspected over the entire area of the hook in accordance with ASTM A275, Magnetic Particle Examination of Steel Forgings. A defect is defined as a linear indication revealed by magnetic particle inspection that is greater than 0.125 inch long and whose length is equal to or greater than three times its width.

4. Rated capacity and safety factor. Hooks covered by this CID shall be designed with a rated capacity as specified in table I, with a minimum safety factor of 5.

5. Tested capacity. The hooks shall lift and hold a load equal to not less than five times the rated capacity of the hook. Tests and examinations shall be in accordance with ASME B30.10.

6. Hook-latch assembly. The latch assembly shall be manufactured of noncorrosive metal or have an all-weather anticorrosive finish. The latch assembly shall bridge the throat opening in the closed position and retain loose slings or other hoisting devices under slack conditions. Opening the latch may be accomplished manually or by other methods.

7. Identification marking. Each hook shall be permanently and legibly marked with the rated capacity in short tons (2,000/pound/ton).

8. Measurement conversion. Values used herein are in the inch-pound system and are converted to the metric system in table II.

TABLE II. Measurement conversion.

Inch-pound	Metric
Linear	
0.125 inch	03.175 millimeters (mm)
0.875 inch	22.225 mm
0.937 inch	23.813 mm
1.000 inch	25.400 mm
1.125 inches	28.575 mm
1.250 inches	31.750 mm
1.688 inches	42.875 mm
2.000 inches	50.800 mm
Mass (force)	
1.50 ton (2000 pound ton)	13.345 kilonewtons (kN)
2.00 ton	17.793 kN
2.50 ton	22.241 kN
5.00 ton	44.482 kN

Contractor certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this CID and that the product conforms to the producer's 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.

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

Regulatory requirements. The offeror/contractor is encouraged to use recovered materials in accordance with Public Law 94-580 to the maximum extent practicable.

Preservation, packaging, packing and marking. Unless otherwise specified in the contract or order, the packaging and packing shall be in accordance with ASTM D3951. Marking shall be as specified in the contract or order.

CID based part identification numbers. The following part identification numbering procedure is for Government purposes and does not constitute a requirement for contractor.

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A - XXXXX - X
*     *     *
*     *     *---------------- Size
*     *---------------------- CID Number
*---------------------------- Designates a Commercial Item Description
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The size of throat opening with latch is identified by an alphanumeric code.

Size (inches)	Size Designator Code
0.875	A
0.937	B
1.000	C
1.688	D

Notes. Purchasers should specify rated capacity.

Application for copies should be addressed to the American Society of Mechanical Engineers, United Engineering Center, 345 East 47th Street, New York, NY 10017.

ASTM standards are available from ASTM, 1916 Race Street, Philadelphia, PA 19103-1187.

National Motor Freight Classification standards are available from National Motor Freight Traffic Association, 2200 Mill Road, Alexandria, VA 22314. Uniform Freight Classification standards are available from National Railroad Freight Committee, 222 South Riverside Plaza, Suite 1120, Chicago, IL 60606.

Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Standardization Documents Order Desk, Bldg. 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

MILITARY INTERESTS:

Custodians
Navy - YD1
Air Force - 99

Review Activities
Navy - OS
Air Force - 82
DLA - IS

PREPARING ACTIVITY:

Navy - YD1

(Project 4030-0250)