

[INCH-POUND]

A-A-52406A

May 12, 1998

SUPERSEDING

A-A-52406

August 6, 1992

COMMERCIAL ITEM DESCRIPTION

CLAMP, LOOP, MUFFLER

The General Services Administration has authorized the use of this Commercial Item Description (CID) for all federal agencies.

1. **SCOPE.** This CID covers standard and heavy duty muffler loop clamps of various sizes. The muffler loop clamps shall hereinafter be referred to as clamps.

2. SALIENT CHARACTERISTICS

2.1 **Materials.** Materials shall be weldable low-carbon steel or material of equivalent or greater strength and characteristics (see 3.1).

2.2 **Design and construction.** The design and construction of the clamps shall be the prerogative of the contractor. Each clamp typically consists of one U-bolt threaded on both ends, a saddle, two hexagon nuts, and two lockwashers. Clamps are made in standard duty and/or heavy duty versions, and shall be as specified in table I.

Beneficial comments, recommendations, additions, deletions clarifications, etc. and any other data which may improve this document should be sent to: U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-TR-E/BLUE, Warren, MI 48397-5000.
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AMSC N/A

FSC 5340

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

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TABLE I. Clamp size and duty.

AA52406 Dash no.	“A” dia.	Duty	AA52406 Dash no.	“A” dia.	Duty
-1	1.13	S	-22	4.50	S
-2	1.25	S	-23	5.00	S
-3	1.38	S	-24	1.50	H
-4	1.50	S	-25	1.63	H
-5	1.63	S	-26	1.75	H
-6	1.75	S	-27	1.88	H
-7	1.88	S	-28	2.00	H
-8	2.00	S	-29	2.13	H
-9	2.13	S	-30	2.25	H
-10	2.25	S	-31	2.50	H
-11	2.38	S	-32	2.75	H
-12	2.50	S	-33	3.00	H
-13	2.63	S	-34	3.25	H
-14	2.75	S	-35	3.50	H
-15	2.88	S	-36	3.88	H
-16	3.00	S	-37	4.00	H
-17	3.25	S	-38	4.38	H
-18	3.50	S	-39	4.50	H
-19	3.75	S	-40	5.00	H
-20	4.00	S	-41	5.50	H
-21	4.38	S			

NOTES:

1. “A” diameter is nominal pipe diameter (see figure 1).
2. “S” specifies standard duty clamp, “H” specifies heavy duty clamp.
3. Dimensions are in inches, tolerances are ± 0.03 inches.
4. Heavy duty clamps AA52406-24 through -41 shall evidence markedly superior performance when compared to the manufacture’s standard duty clamp.
5. Former MS dash numbers are the same as the CID dash numbers, regardless of old MS styles. Example: MS52150-1S/A or MS52150-1S/D are equivalent to AA52406-1 (see 6.1 and 6.5).

2.3 Function. The clamps shall be capable of securing the muffler to the exhaust system pipes without loosening. The clamps shall show no sign of deformation when the nuts are tightened to the applied torque specified by the manufacturer for the particular size clamp being used.

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2.4 Identification and markings. Unless otherwise specified, identification and markings shall be permanent and legible and shall include, as a minimum, the manufacturer's identification code (CAGE) and the Part Identification Number (PIN) (see 6.1 and 6.3).

3. REGULATORY REQUIREMENTS

3.1 Recovered material. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. The contractor is responsible for the performance of all inspections (examinations and tests).

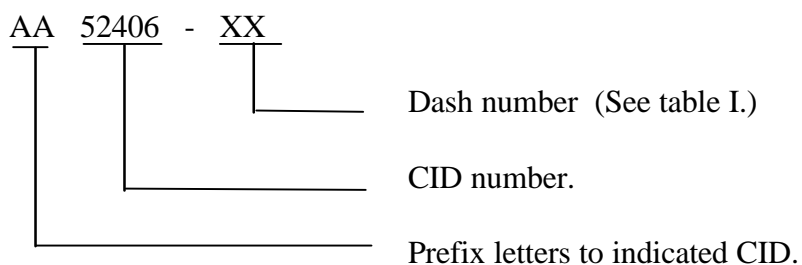
4.2 Product conformance. The products provided shall meet the salient characteristics of this commercial item description, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The Government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

5. PACKAGING. Preservation, packing, and marking shall meet the requirements of ASTM D3951.

6. NOTES

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

6.1 Part or identification number (PIN). The following part identification numbering procedure is for Government purposes and does not constitute a requirement for the contractor. The PINs to be used for clamps acquired to this CID are as follows:



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6.2 Addresses for obtaining copies of referenced documents.

6.2.1 Government publications. The Code of Federal Regulations (CFR) may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

6.2.2 Non-Government publications. ASTM A108 “Standard Specification for Steel Bars, Carbon, Cold Finished, Standard Quality”; ASTM A575 “Standard Specifications for Steel Bars, Carbon, Merchant Quality, M-Grades”; ASTM A366 “Standard Specification for Steel, Sheet, Carbon, Cold-Rolled, Commercial Quality” and ASTM D3951 “Standard Practice for Commercial Packing ” are available from the American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

6.3 Ordering data. Acquisition documents must specify the following:

- a. Title, number, and date of this CID.
- b. Clamp PIN and quantity required.
- c. Whether identification and markings are other than as specified.

6.4 Historical design. Historically, the following materials have proven satisfactory for the construction of the muffler clamps:

Muffler component	Material
U-bolt	Carbon steel in accordance with ASTM A575, C1010-C1025 de-scaled or ASTM A108, cold finished, C1010-C1025
Saddle	Low carbon sheet or strip steel in accordance with ASTM A366
Hexagon nuts	Grade A steel
Lockwashers	Carbon Steel

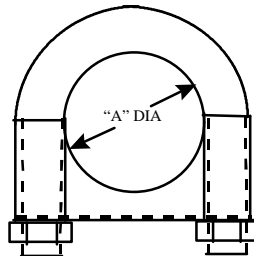


FIGURE 1. Dimension “A” of clamp.

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6.5 Cross reference data. Clamps conforming to this document are interchangeable-substitutable with clamps conforming to MS52150. The CID dash numbers and the MS dash numbers are the same, expect that the duty and style notations have been removed. The duty is now represented by the dash number (-1 through -23 are standard duty, -24 through -41 are heavy duty), and the clamp style is up to the discretion of the manufacturer.

MILITARY INTERESTS:

Custodians:

Army - AT
Air Force - 99

Review Activities:

Air Force - 82
DLA - IS

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS

Preparing Activity:

Army - AT

(Project 5340-2454)