[INCH-POUND]
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SUPERSEDING
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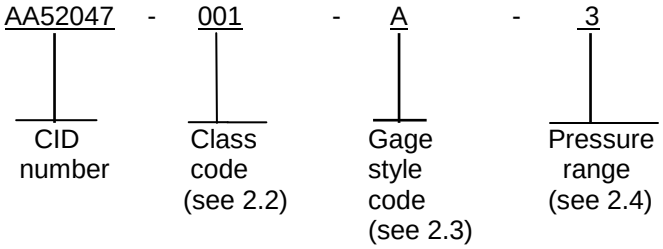
COMMERCIAL ITEM DESCRIPTION

GAGES, MECHANICAL, TIRE PRESSURE, SELF CONTAINED AND INFLATOR GAGE, PNEUMATIC TIRE

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 the general requirements for gages, mechanical, tire pressure, self contained and inflator gage, pneumatic tire. Gages, mechanical, tire pressure, self contained and inflator gage, pneumatic tire covered by this CID are intended for commercial/industrial applications.

2. CLASSIFICATION/PART OR IDENTIFICATION NUMBER (PIN). This CID uses a classification system which is included in the PIN as shown in the following example (see 7.1).



2.1 Classification. Classification for CID codes for class, style and range.

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data that may improve this document should be sent to: DLA Land and Maritime, ATTN: VA**I**, P.O. Box 3990, Columbus OH 43218–3990, or email fluidflow@.dla.mil. Since contact information can change you may want to verify the currency of the address information using the ASSIST Online database at https://assist.dla.mil/.

2.1.1 Class: Three classes of gages are covered by this CID, see table I.

Table I. Class and class code.

CID code	Class
001	Class 1 - Gages in this class are intended for use as a personal item for frequent measuring or checking the pressures of tires or similar items. They are intended to be carried in a person's pocket or storage compartment of a vehicle.
002	Class 2 - Gages in this class shall be of heavy construction to withstand rough usage as encountered in service stations and tire shops.
003	Class 3 - Inflator gages are intended for use on air supply lines to inflate, deflate, and measure or check the pressure of air in tires or similar items.

2.1.2 Gage styles: Five styles of gages are covered by this CID, see table II.

TABLE II. Gage style and gage code.

CID code	Gage style
A	Single chuck, standard bore, with a pocket clip, external indicating.
B	Dual chuck, standard bore, long extension, external indicating.
C	Dual chuck, standard bore, internal indicating
D	Dual chuck, standard and large bore, internal indicating
E	Dual chuck, standard bore, external indicating

2.1.3 Pressure range: Four indicated pressure ranges are used with these gages, see table III.

TABLE III. Pressure range and pressure rage code.

CID code	Pressure range
1	5 - 50 psig.
2	10 - 120 psig
3	10 - 160 psig.
4	20 - 120 psig

2.2 Applicability: Table IV reflects the class, style, and range application for each class of gage.

TABLE IV Gage applicability.

Class	1	2	3
Style	A	B	C, D, E
Indicator range	1, 4	3	2, 3

3. SALIENT CHARACTERISTICS.

3.1 Interface and physical dimensions. Gages, mechanical, tire pressure, self contained and inflator gage, pneumatic tire supplied to this CID shall be as specified herein.

3.1.1 Characteristics. Characteristics and specifications for each class, style, and indicator range are as follows:

3.1.2 Single chuck. The single chuck shall be constructed so as to fit standard (0.302 - 32) threads used on automotive tire valves.

3.2.1 Class 1 gages. Gages in this class shall be constructed for normal duty gages. The barrel shall be constructed so as to fully enclose and shield the internal working mechanism.

3.2.1.1 Class 1 gages barrel corrosion resistant. The inside of the barrel shall be corrosion resistant or treated to prevent corrosion along its entire length.

3.2.1.2 Class 1 low pressure gages tolerance Class 1 low pressure (5 - 50 psi) gages shall indicate the true pressure within ± 1.0 psi at 7 psi and ± 2 psi at 40 psi +70 ºF and -5 ºF.

3.2.1.3 Class 1 high pressure gages tolerance. Class 1 high pressure (20 - 120 psi) gages shall indicate the true pressure within ± 2 psi at 30 psi and ± 3 psi at 100 psi at +70 ºF and -5 ºF.

3.2.1.4 Class 1 gage pocket clip feature. Class 1 gages shall have a pocket clip and be 5-6 inches long with the indicator bar retracted.

3.2.2 Class 2 gages. Gages in this class shall be constructed for heavy duty gages. The barrel shall be constructed as to fully enclose and shield the internal working mechanism.

3.2.2.1 Class 2 gages barrel corrosion resistant. The inside of the barrel shall be corrosion resistant or treated to prevent corrosion along its entire length.

3.2.2.2 Class 2 gages dual chuck. They shall have a dual chuck constructed so as to fit standard (0.302 - 32) threads used on automotive tire valves. The overall length shall be not less than 11 inches with the indicator retracted.

3.2.2.3 Class 2 gages provisions to hang up. Each gage shall have provisions for hanging up the gage.

3.2.3 Graduations. Graduation marks shall be stamped, etched, or otherwise marked so as to provide a permanent indication for the expected life of the gage. Graduations shall be clear and well defined to permit reading of the gage under normal service conditions.

3.2.4 Pressure markings. At least one side of the indicator bar shall be marked in the International System of Units (SI) version of the metric system. The SI markings shall be in units of kilopascals (kPa). The indicator bar shall be graduated in 1 psi increments with the appropriate numerical value at each 5 psi interval or less for low pressure gages (50 psi or less maximum reading), and in 2 psi increments maximum with the appropriate numerical value at each 10 psi interval for high pressure gages (120 psi maximum reading). The SI marking shall be graduated in 10 kPa increments with a numeric marking every 40 kPa or less for low pressure gages and in 20 kPa increments with a numeric marking every 100 kPa or less for high pressure gages.

3.3 Class 3 gages. Inflator gages shall consist essentially of a pneumatic tire pressure gage, a control valve, and an attached length of hose equipped for supplying compressed air to a valve stem by means of a trigger or lever mechanism. The gage shall indicate the pressure upon release of the trigger or lever. Inflator gages shall be constructed from commercially used materials and shall be manufactured using commercially acceptable standards used for heavy-duty gages.

3.3.1 Class 3 gages construction. The gage shall be constructed as to fully enclose and shield the internal working mechanism. The internal portion and mechanism shall be corrosion resistant or treated to prevent corrosion. They shall have a dual chuck constructed so as to fit standard (.302 - 32) threads used on automotive tire valves (styles C and E) and both standard and large bore (.482 - 26) valve threads used on off-road tires (style D). Class 3 gages shall be constructed to withstand a pressure of 175 psi without leakage. Accuracy class 3 gages shall indicate the true pressure within ± 2.0 psi at 30 psi and ± 3 psi at 100 psi at +70º F and -5º F.

3.3.2 Class 3 indicator markings for inflator gages. Internal indicating gages shall be available for purchase in either psi markings or SI unit (metric, kPa) markings. External indicating gages shall have at least one side of the indicator bar marked in the SI version of the metric system. All inflator gages shall be graduated in 2-psi increments. The scale shall be marked with the appropriate numerical value at each 10 psi interval or less.

3.3.3 Replacement parts and components. Inflator gages shall be designed and constructed in such a manner that replacement parts are available for each particular model gage. As a minimum, the gage cartridge and the valve cartridge must be capable of being replaced (a cartridge combining both the indicating gage and the valve is acceptable). Replacement items shall be capable of being removed and installed in the shop environment by typical shop personnel using common hand tools. Replacement items shall include clear and concise directions for accomplishing the necessary repair action. Each inflator gage shall include a list and an illustration of replacement parts and components for that specific gage.

3.4 Marking. Gages, tire pressure, self contained and inflator gage, pneumatic tire supplied to this CID shall be marked with the manufacturer's (MFR's) standard commercial PIN. (NOTE: The part number marked on the unit pack shall be the CID PIN.)

3.5 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs.

3.6 Workmanship. Gages, tire pressure, self contained and inflator gage, pneumatic tire shall be processed in such a manner as to be uniform in quality and shall be free from other defects that will affect life, serviceability, or appearance.

4. REGULATORY REQUIREMENTS. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with 23.403 of the Federal Acquisition Regulation (FAR).

5. PRODUCT CONFORMANCE PROVISIONS.

5.1 Product conformance. The products provided shall meet the salient characteristics of this CID, 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 place. The Government reserves the right to require proof of such conformance

5.2 Certification. Certification must be done with the procuring activity approval. The contractor shall certify that the product offered meets the salient characteristics of the description and conforms to the producer's own drawings, specifications, standards, and quality assurance practices, and is the same as the product offered for sale in the commercial marketplace. The government reserves the right to require proof of such conformance prior to first delivery and their

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

7. NOTES.

7.1 PIN. The PIN should be used for Government purposes to buy commercial products to this CID. See section 2 for PIN format example.

7.2 Environmentally preferable material. Environmentally preferable materials should be used to the maximum extent possible to meet the requirements of this specification. As of the dating of this document, the U.S. Environmental Protection Agency (EPA) is focusing efforts on reducing 31 priority chemicals. The list of chemicals and additional information is available on their website http://www.epa.gov/osw/hazard/wastemin/priority.htm. Included in the EPA list of 31 priority chemicals are cadmium, lead, and mercury. Use of these materials should be minimized or eliminated unless needed to meet the requirements specified herein (see Section 3).

7.3 Commercial and Government Entity (CAGE) code. For ordering purposes, inventory control, and submission of these gages, tire pressure, self contained and inflator gage, pneumatic tire to DLA Land and Maritime under the Parts Management Advisory Team (PMAT), CAGE code 58536 should be used.

7.4 Source of documents.

FEDERAL REGULATIONS

FAR – Federal Acquisition Regulations (FAR)

(Copies of these documents are available online at www.acquisition.gov/comp/far/index.html or from the U.S. Government Printing Office, 732 North Capital Street, NW, Washington D.C. 20401.)

7.5 Ordering data. The contract or order should specify the following:

a. CID document number, revision, and CID PIN.

b. Product conformance provisions.

c. Packaging requirements.

7.6 Commercial products. As part of the market analysis and research effort, this CID was coordinated with the following manufacturers of commercial products. At the time of CID preparation and coordination, these manufacturers were known to have commercial products that would meet the requirements of this CID. (NOTE: This information should not be considered as a list of approved manufacturers or be used to restrict acquisition to only the manufacturers shown.)

MFR's CAGE	MFR's name and address
02769	Lockheed Martin Corporation 199 Borton Landing Road Moorestown, NJ 08057 deborah.p.kister@lmco.com james.v.amatrudi@lmco.com 856) 722-4615 (856) 608-6370
79343	Science Applications International 155 Passaic Ave Fairfield, NJ 07004-2309 piconep@saic.com buglionec@saic.com (877) 397-6756 (973) 808-4767

7.7 Government users. To acquire information on obtaining these gages, tire pressure, self contained and inflator gage, pneumatic tire from the Government inventory system, contact DLA Land and Maritime, ATTN DLA Land and Maritime Call Center (-NAB), P.O. Box 3990, Columbus, OH 43218–3990 or telephone (614) 692-2271 or (614) 692-3191.

7.8 Legacy. This commercial item description is a replacement for GG-G-91 for all federal agencies (GG-G-91 is canceled as of 15 December 1972 and copies of these documents are available online at http://quicksearch.dla.mil/ or from the DLA Document Services Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111–5094).

7.9 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

MILITARY INTERESTS

Custodians:
Army - AR
Navy - MC
Air Force - 99
DLA - CC

Review activities:
Army-AT
Navy – SA,YD
Air Force – 71,84

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FAS

Preparing activity:
DLA - CC

Project 4910-2014-001

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at https://assist.dla.mil/.