INCH POUND
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SUPERSEDING
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COMMERCIAL ITEM DESCRIPTION

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

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

1. SCOPE. This (CID) covers direct-reading tire pressure and inflator gages, calibrated in pounds per square inch (psi), used for measuring or checking the inflation pressure of tires or similar items, and for inflating, deflating and measuring the pressure of tires or similar items.

2. CLASSIFICATION.

2.1 Class: Three classes of gages are covered by this CID.

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.

Class 2 - Gages in this class shall be of heavy construction to withstand rough usage as encountered in service stations and tire shops.

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.

2.2 Style: Five styles of gages are covered by this CID.

Style A - Single chuck, standard bore, with a pocket clip, external indicating.

Style B - Dual chuck, standard bore, long extension, external indicating.

Style C - Dual chuck, standard bore, internal indicating.

Style D - Dual chuck, standard and large bore, internal indicating.

Style E - Dual chuck, standard bore, external indicating.

2.3 Range: Four indicated pressure ranges are used with these gages.

1 - 5 - 50 psig.

2 - 10 - 120 psig

3 - 10 - 160 psig.

4 - 20 - 120 psig.

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

TABLE I Gage applicability.

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

3. SALIENT CHARACTERISTICS. Pressure gages furnished under this CID shall meet the requirements as specified in this CID. Pressure gages that meet these requirements are available in the commercial marketplace. Characteristics and specifications for each class, style, and indicator range are as follows:

3.1 Class 1 gages. Gages in this class shall be constructed from commercially used materials and shall be manufactured using commercially acceptable standards. The barrel shall be constructed so as to fully enclose and shield the internal working mechanism. The inside of the barrel shall be corrosion resistant or treated to prevent corrosion along its entire length. They shall have a pocket clip and be 5-6 inches long with the indicator bar retracted. 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. 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. The single chuck shall be constructed so as to fit standard (0.302 - 32) threads used on automotive tire valves. 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. 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 Class 2 gages. Gages in this class shall be constructed from commercially used materials and shall be manufactured using commercially acceptable standards used for heavy duty gages. The barrel shall be constructed as to fully enclose and shield the internal working mechanism. The inside of the barrel shall be corrosion resistant or treated to prevent corrosion along its entire length. 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. Each gage shall have provisions for hanging up the gage. 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. At least one side of the indicator bar shall be marked in the SI version of the metric system. The SI markings shall be in units of kilopascals (kPa). The indicator bar shall be graduated in 2 psi increments or less. The scale shall be marked with the appropriate

numerical value at each 10 psi interval or less. The SI marking shall be graduated in 20 kPa increments with a numeric marking every 100 kPa minimum. Class 2 gages shall indicate the true pressure within ± 2.0 psi at 30 psi and ± 3 psi at 100 psi at +70 ºF and -5 ºF.

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. 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. 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.

3.3.1 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.

3.3.2 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.

4. REGULATORY REQUIREMENTS. 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).

5. PRODUCT CONFORMANCE.

5.1 Product Conformance. The tire pressure gages provided shall meet the salient characteristics of this CID; conform to the producer's own drawings, specifications, standards and quality assurance practices; and is 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 pressure gages offered must have been sold to the government or commercial market for a minimum of one year.

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

7. NOTES.

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

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- Unit marking: Internal indicating gage only (see 3.3.1).
  - A - psi
  - B - SI (kPa)
- Range:
  - 1 - 5 - 50 psig
  - 2 - 10 - 120 psig
  - 3 - 10 - 160 psig
  - 4 - 20 - 120 psig
- 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.
- Class:
  - 1 - Personal use gage.
  - 2 - Heavy construction gage for service station and shop use.
  - 3 - Inflator gage used on air supply lines to inflate, deflate, and measure or check pressure.
- CID number.

7.2 Source of Documents.

7.2.1 The Federal Acquisition Regulation (FAR) may be obtained from the Superintendent of Documents, US Government Printing Office, Washington, D.C. 20402.

7.3 Ordering data. Acquisition documents must specify the following:

a. Number, title, and date of this CID.

b. Class required (see 2.1).

c. Style required (see 2.2).

d. Range required (see 2.3).

e. Indicator unit marking (psi or kPa) only for Class 3, Style C or D inflator gages (see 3.3.1).

f. Quantity ordered.

g. Preservation, packing, and marking requirements (see 6.1).

7.4 Key words.
Gage
Pressure
Tire
Truck
Automotive
Inflator
Pocket

MILITARY INTERESTS:

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

Review activities:
Army - AT
Air Force - 84

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS

Preparing activity:
DLA - CC

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