INCH-POUND

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SUPERSEDING
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COMMERCIAL ITEM DESCRIPTION

STOPWATCH, GENERAL PURPOSE

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 a mechanically operated, general purpose stopwatch.

2. SALIENT CHARACTERISTICS

2.1 Design and construction. The stopwatch shall have a metal or plastic case and a side push button. The stopwatch shall have a minimum of seven jewels and shall be adjusted for one position. A stem wound, jeweled, non-continuous running movement with a jeweled lever escapement shall drive concentrically mounted second and minute hands around a dial having 1/5-second marking a 60-minute register. The non-continuous running movement shall be controlled by the crown.

2.2 Controls.

2.2.1 Crown. The crown shall start and stop the movement and both hands. Depressing and releasing the crown in one operation shall start the movement and both hands. A subsequent depressing and releasing shall stop the movement and both hands. The hands shall not return to zero as a result of this operation.

2.2.2 Side push button. The side push button, when depressed, shall return both hands to zero. The releasing of the push button, when the depression was made with the movement running, shall result in both hands starting to record the next interval of time.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data that may improve this document should be sent to: STDZNMGT@dla.mil or Defense Supply Center Richmond (DSCR), ATTN: DSCR-VEB, 8000 Jefferson Davis Highway, Richmond, VA 23297-5616.

AMSC N/A FSC 6645

2.3 Functions.

2.3.1 Single interval of time. A single interval of time shall be measured by two successive operations of the crown.

2.3.2 Cumulative intervals of time. Cumulative intervals of time shall be measured by repeating the function for a single interval of time. The hands shall restart at the point where stopped.

2.3.3 Successive intervals of time. Depressing the side push button while recording an interval of time shall result in the hands returning to zero. Releasing the side push button shall result in both hands starting to record the next interval of time.

2.4 Components.

2.4.1 Movement. The movement shall have a minimum of seven jewels with a non-continuous running movement. The movement shall be stem wound with the crown located at the 60-second position on the dial.

2.4.2 Mainspring. The mainspring, when fully wound, shall be capable of driving the movement for 8 hours without rewinding. The material for the mainspring shall be corrosion resistant, high strength, non-breakable alloy.

2.4.3 Dial. The minute dial shall be approximately 1.25 inches in diameter at its outer edge and shall be graduated at 1-minute intervals with numerals to indicate each 5-minute interval. The second dial shall be graduated at 1/5-second intervals with full second intervals identified, and numerals to indicate each 5-second interval. All graduation markings and numerals shall be legible, sized, and located to permit easy and accurate readings. All markings and the dial shall have a durable protective coating.

2.4.4 Hands. There shall be two hands: one to indicate the seconds and one to indicate minutes. The tips of the hands shall be curved downward to reduce parallax. The indicator ends of the second and minute hands, at all positions of recording time, shall terminate on the graduations of their respective dials.

2.4.5 Case. The case shall be a maximum size of 2.50 inches in diameter by 5/8 inch thick. The case, crown, and push button shall be configured to maximize ease of use. The crown shall be located at the 60-second position of the dial. The push button shall be located between the 5- and 10-second or between the 50- and 55-second positions of the dial.

2.4.6 Crystal. The crystal shall be clear, uncolored, and free of bubbles, scratches, or other imperfections that may interfere with the reading of the watch.

2.5 Color. The second hand shall be black; the minute hand shall be white. The second dial shall be white; the minute dial shall be black. Markings on the second dial shall be black; markings on the minute dial shall be white. Other legible color schemes are acceptable, provided that they are of the provider's standard commercial product.

2.6 Finish. Visible parts of the case, including the crown and push button, shall have a dull, non-reflecting finish.

2.7 Performance.

2.7.1 Operating force. The force required to operate the crown shall be 3 pounds ± 1/2 pound. The force required to operate the push button shall be 5 pounds ± 1/2 pound.

2.7.2 Torque. The stopwatch, when fully wound, shall not be damaged when a torque of 32 inch-ounces is applied to the crown.

2.7.3 Shock. The stopwatch shall retain accuracy and show no evidence of damage affecting serviceability after an uncontrolled drop, while running, from a height of 3 feet onto a block of hard wood.

2.7.4 Water resistance. The stopwatch shall be capable of rejecting the entry of water at a depth of 6-1/4 feet for 15 seconds at 75 °F ± 4 °F (24 °C ± 2 °C).

2.7.5 Magnetism. The stopwatch shall conform to the 180-second accuracy requirement of paragraph 2.7.7 after having been subjected to a magnetic field of 60 Gauss (+5 Gauss, -0 Gauss) for a minimum of 10 seconds with the dial in the horizontal position (face up or down).

2.7.6 Storage. The stopwatch shall show no evidence of damage affecting serviceability after being subjected to storage temperatures of -65 °F (-54 °C) and 149 °F (65 °C) for 24 hours at each temperature.

2.7.7 Accuracy. The stopwatch shall not exceed the accuracy tolerances in table I at 72 °F ± 4 °F (22 °C ± 2 °C) in the crown-up position with the back of the case 45 degrees from horizontal.

TABLE I. Accuracy tolerances.

Time	Tolerance
60 seconds	+0.2 second, -0.0 second
180 seconds	+0.2 second, -0.0 second
60 minutes	+0.6 second, -0.0 second

2.7.8 Start-stop mechanism.

2.7.8.1 Crown. The start-stop mechanism controlled by the crown shall be capable of 2,500 cycles of starting and stopping.

2.7.8.2 Side push button. The start-stop mechanism controlled by the side push button shall be capable of 2,500 operations.

2.8 Workmanship. All surfaces of the stopwatch shall be free from burrs, cracks, and sharp edges.

3. REGULATORY REQUIREMENTS

3.1 Recovered materials. 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).

3.2 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 version of FED-STD-376, "Preferred Metric Units for General Use by the Federal Government", 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.

4. PRODUCT CONFORMANCE PROVISIONS

4.1 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 marketplace. The government reserves the right to require proof of such conformance.

4.2 Market acceptability. The product offered must have been previously sold either to the government or on the commercial market.

5. PACKAGING

5.1 Preservation, packing, and marking. Preservation, packing, and marking shall be as specified in the acquisition order (see 6.2(b)).

6. NOTES

6.1 Sources of documents.

6.1.1 FAR. The FAR may be obtained from the Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954. Electronic copies of FAR documents may be obtained from http://www.arnet.gov/far/.

6.1.2 Federal standards. Copies of federal standards may be obtained from General Services Administration, Federal Supply Service, Specification Section, 470 East L'Enfant Plaza SW, Suite 8100, Washington, DC 20407. Electronic copies of federal standards may be obtained from http://assist.daps.dla.mil/quicksearch/.

6.2 Ordering data. The acquisition order should specify the following:

a. CID document number and revision.
b. Preservation, packing, and marking (see 5.1).

6.3 National stock numbers (NSNs). NSN 6645-00-126-0286 corresponds to this CID. This NSN may not be indicative of all possible NSNs associated with this document.

6.4 Subject term (key word) listing.

crown
dial
hands
jewels

MILITARY INTERESTS:

Custodians:
Army - CR
Navy - AS
Air Force - 99

Review Activities:
Navy - MC, OS
Air Force - 71

CIVIL AGENCY
COORDINATING ACTIVITY:

GSA - 2FYIB

Preparing Activity:
DLA - GS1

(Project 6645-0549)

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 www.dodssp.daps.mil.