INCH-POUND

A-A-59436A
5 October 2011
SUPERSEDING
A-A-59436
17 September 1999

COMMERCIAL ITEM DESCRIPTION

SEPARATORS, OIL AND WATER, COMPRESSED AIR, WALL MOUNTED

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 separators, oil and water, compressed air, wall mounted. Separators, oil and water, compressed air, wall mounted covered by this CID are intended for commercial/industrial applications.

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

A-A-59436 - 01

CID Number

Class (see table I).

Example: PIN denotes A-A-59436-01 wall mounted oil water, class 1 (one regulator and two air outlets.)

TABLE I. Class and configuration.

Designator	Class	Separator configuration
-01	Class I	One regulator and two air outlets
-02	Class II	Two regulators and four air outlets

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.daps.dla.mil/.

3. SALIENT CHARACTERISTICS

3.1 Interface and physical dimensions. Separators, oil and water, compressed air, wall mounted supplied to this CID shall be as specified herein.

3.2 Components.

a. Class I separator shall be a head, a filtering unit, a reservoir, a drain valve, a pressure regulator, a regulated air pressure gauge, at least one regulated filtered air outlet valve, an unregulated air pressure gauge, and one supply line pressure filtered air outlet valve with necessary fittings.

b. Class II separator shall have two pressure regulators, two regulated air pressure gauges, one unregulated air pressure gauge, a minimum of four air outlet valves (at least two of which will be for regulated filtered air and at least one of which will be for supply line pressure, filtered air), and the necessary fittings.

3.2.1 Filtering unit. The filtering unit shall be made of corrosion-resistant material. The filter shall be the cleanable or replaceable type capable of removing 10 micron or finer particle contamination.

3.2.2 Separator reservoir. The reservoir shall be made of corrosion-resistant material, shall have at least a one third (1/3) pint capacity, and shall have a valve for removing collected oil and/or water.

3.2.3 Pressure gauges. The pressure gauges shall be in accordance with ANSI B40.100, accuracy grade B.

3.2.4 Inlet and outlet fittings. The separator shall be provided with a female air inlet with ½ inch NPT thread. All outlet valves shall have ¼-18 NPSH thread, with a tapered seat having a 60° angle included for a female connection.

3.3 Capacity and performance. The capacity and performance requirements stated herein apply to both class I and class II separators unless otherwise indicated. These requirements are summarized in table II.

TABLE II. Components, capacity and performance requirements.

Requirements	Class I	Class II
Inlet air pressure - 200 psig maximum	X	X
Working temperature - 160°F maximum	X	X
Filter element @ 10 microns	X	X
Cleanable/replaceable filter	X	X
Regulator(s)	1	2
Gauges	2	3
1/3 pint reservoir	X	X
Drain Valve	X	X
Air passage 20 CFM @ 60 psig	X	X
Regulated filtered air outlets	1	2
Total number of air outlets	2	4
Inlet fitting ½ inch NPT thread	X	X
Outlet fitting ¼ -18NPSH thread	X	X
Corrosion resistant materials	X	X

3.3.1 Class I separator. With an inlet pressure of 100 pound-force per square inch gauge (psig) and regulated pressure of 60 psig, the regulated air pressure gauge shall record a drop of not more than 11 psig when the regulated air outlet valve is opened to permit air passage at a rate of 20 cubic feet per minute (CFM) free air, for a period of 30 seconds. With the inlet and regulated pressures as stated above, the regulated air pressure gauge shall record a drop of not more than 6 psig when the regulated air outlet valve is opened to permit air passage at the rate of 11 CFM free air for a period of 30 seconds.

3.3.2 Class II separator. The performance requirements for the class II separator shall be the same as the requirements for the class I separator (3.2.1 above) except that the requirements shall apply to the two regulators, individually, while being operated simultaneously.

3.3.3 Working pressures. The separator assembly and its component parts shall be suitable for use with a maximum working pressure of 200 psig, at a maximum operating temperature of +160ºF. Each pressure regulator shall be adjustable for delivery of air at any pressure from not less than 20 to 100 psig. The differential pressure shall not be more than 5 psig from inlet to outlet over the range of regulation.

3.3.4 Safety and health requirements. The separators shall comply with the general safety and health requirements promulgated under Title 29, Code for Federal Regulations (CFR) Chapter XVII, Part 1910 (http://www.osha.gov/), which are applicable to the separators themselves.

3.3.5 Protective plugs and caps. Protective plugs and caps shall be installed in the ports and over the threaded connections to prevent damage.

3.4 Marking. Separators, oil and water, compressed air, wall mounted supplied to this CID shall be marked with the manufacturer's (MFR's) standard commercial PIN. The PIN 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. Separators, oil and water, compressed air, wall mounted 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. The Government reserves the right to require proof of such conformance.

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 is available on their website at http://www.epa.gov/epawaste/hazard/wastemin/index.htm. Included in the EPA list of 31 priority chemicals are cadmium, lead, and mercury. Use of the materials on the list 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 oil and water separators to DLA Land and Maritime under the Military Parts Control Advisory Group (MPCAG) evaluation program, CAGE code 58536 should be used.

7.4 Source of Documents

FEDERAL REGULATION

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.)

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI B40.100 - Pressure Gauges and Gauge Attachments

(Copies of these documents are available online at http://www.ansi.org or from the American National Standard Institute, 25 West 43 Street, 4th Floor, New York, NY 10036.)

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.)

Manufacturer's name and address	Manufacturer's CAGE
Fluid-Air Products Inc 12834 Gravois Rd Saint Louis, MO 63127-1713 Tel: (314) 729-7000	5S985
Sharpe Manufacturing Co 8750 Pioneer Blvd. Santa Fe Springs, CA 90670 (310) 908-6800	54360

7.7 Part number (P/N) supersession data. These CID PINs supersede the following MFR's P/N's as shown. This information is being provided to assist in reducing proliferation in the Government inventory system.

TABLE III. P/N supersession data.

Dash number (see table I) A-A-59436	MFR's CAGE	MFR's P/N 1/	MFR's CAGE	MFR's P/N 1/	MFR's CAGE	MFR's P/N 1/
-01	5S985	606B	17431	HFRL-511 and HAF-408	54360	606B
-02	5S985	606C	17431		54360	606C

1/ The manufacturer's P/N shall not be used for acquisition to the requirements of this CID. At the time of preparation of this CID, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements see 3.5.

7.8 Government users. To acquire information on obtaining these, oil and water, compressed air, wall mounted from the Government inventory system, contact DLA Land and Maritime, ATTN: VAI, P.O. Box 3990, Columbus, OH 43218–3990, or telephone (614) 692-0565.

7.8.1 National stock number (NSN). The following is a list of NSN's assigned which correspond to this CID. The list is for information only and may not be indicative of all possible NSN's associated with the CID. For up to date information on assigned NSN's, please contact the aforementioned DLA Land and Maritime office (See 7.8).

NSN	Class	CID PIN
4940-00-215-8496*	I and II	AA59436-01 and -02
4940-00-242-4100	I	AA59436-01
4940-00-242-4101	II	AA59436-02

7.9 Subject term (key word) listing.
10 micron
1/3 pint
200 psi
Drain valve
Pressure gauge
Life support equipment

7.10 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
Air Force - 84

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FAS

Preparing activity:

DLA - CC

(Project 4940-2011-003)

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.daps.dla.mil.