

INCH-POUND

MIL-H-87961(USAF)
 AMENDMENT 3
21 February 1990
 SUPERSEDING
 AMENDMENT 2
 1 APRIL 1983

MILITARY SPECIFICATION

HOSE AND HOSE ASSEMBLIES, AIR DUCT, AIR
 BREATHING, OXYGEN SYSTEMS, GENERAL
 SPECIFICATION FOR

This amendment forms a part of MIL-H-87961(USAF), dated 31 July 1979, and is approved for use by the Department of the Air Force and is available for use by all Departments and Agencies of the Department of Defense.

PAGE 1

- * 2.1 Delete "paragraph" entirely and add: "Government documents."
- * Add: "2.1.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2)."
- * Delete address on lines 3 and 4 of beneficial comments block and add, "Oklahoma City Air Logistics Center/MMEOR, Tinker AFB, OK 73145-5990."

PAGE 2

Under SPECIFICATIONS, Military, Change title of "MIL-P-116" to read "Preservation, Method of".

- * Under STANDARDS, Military, delete "MIL-STD-143", "MIL-STD-794" entirely and add: "MIL-STD-970 Standards & Specifications, Order Of Preference For The Selection Of" and "MIL-STD-2073/1A DOD Material Procedures For Development And Application Of Packaging Requirements."
- * Add: 2.1.2 Other Government documents, drawings, and publications. The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

Air Force Drawings.

7225317	Retainer Strap Assy - Hose, Connector To Regulator
8148650	Cleaning, Inspection And Packaging Of Breathing Oxygen Equipment

AMSC N/A

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- * Add Source Statement: "(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Naval Publications and Forms Center, (ATTN: NPODS), 5801 Tabor Avenue, Philadelphia, PA 19120-5099.)"
- * Add: "2.2 Non-Government publications. The following document(s) form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted are those listed in the issue of the DODISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS are the issues of the documents cited in the solicitation (see 6.2)."

American Society For Testing And Materials (ASTM)

ASTM D3951 Packaging, Commercial

(Application for copies should be address to: ASTM, 1916 Race St, Philadelphia, PA 19103.)

(Non-Government standards and other publications are normally available from the organizations that prepare or distribute the documents. These documents also may be available in or through libraries or other informational services.)

- * Add: "2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein (except for related associated detail specifications, specification sheets, or MS standards), the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained."
- * 3.1 Line 2 between "be" and "products" add: "assembled from".

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- * 3.2 Line 3 delete "MIL-STD-143" and add: "MIL-STD-970".

3.4 Delete the first sentence and add: "The design and construction of the hose assembly shall be in accordance with MIL-H-87961/1, MIL-H-87961/2 and MIL-H-87961/3."

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- * 3.5.2 add: "Unless otherwise specified, the applicable cleaning and inspection procedures of AF drawing 8148650 shall apply" at the end of the sentence.

PAGE 6

- * Add: "4.1.1 Responsibility for compliance. All items shall meet all requirements of sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does

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not authorize submission of known defective material either indicated or actual nor does it commit the Government to accept defective material."

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4.6.4 Delete entire paragraph and add: the following: "4.6.4 Flexibility. The hose shall be closely coiled about a 1.75 inch diameter rod and released. This test shall be repeated four times, except that for each successive test, the hose shall be turned 90 degrees about its longitudinal axis and recoiled on the rod. Then the hose shall be mounted in a fixture as shown in Figure 1. With one end of the hose assembly securely clamped in place and the overall hose held by a pillow block loosely secured clockwise through one complete (360 degrees) rotation for hoses under 30 inches in length. For hose 30 inches or longer, flex the hose five times by turning the loosely secured end clockwise through two complete (720 degrees) rotations. Repeat this procedure five times for the opposite end. The hose shall pass the requirements specified in paragraph 3.5.3."

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* Delete Section 5 in its entirety and add the following:

"5. PACKAGING

5.1 Preservation. Unless otherwise specified by the contracting activity, the hose or hose assembly shall be level A, C, or Industrial, IAW MIL-STD-2073/1A.

5.1.1 Level A.N

5.1.1.1 Cleaning. Cleaning shall be accomplished in accordance with Air force Engineering Drawing 8148650 or industry Practice for Liquid Oxygen (LOX) Service. Petroleum Derivative Solvents shall not be used.

5.1.1.2 Preservation application. Preservative shall not be used.

5.1.1.3 Unit Packaging. Each hose or hose assembly shall be packaged in quantity unit packs of one each in accordance with method IA of MIL-P-116.

5.1.2 Level C. Each hose or hose assembly shall be provided preservation which will afford adequate protection against corrosion, deterioration, and physical damage during shipment from the supply source to the first receiving activity. This level may conform to the supplier's industrial practice.

5.2 Packing. Packing shall be level A, B, C, or Industrial as specified (see 6.2).

5.2.1 Level A. Hose or hose assembly preserved as specified in 5.1.1 shall be packed in exterior type weather resistant shipping containers.

5.2.2 Level B. Hose or hose assembly preserved as specified in 5.1.1 shall be packed in domestic type shipping containers.

5.2.2.1 Closure. All containers shall be closed, sealed, and reinforced in accordance with the applicable container specification.

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5.2.3 Level C. Packing shall be applied which affords adequate protection during domestic shipment from the supply source to the first receiving activity for immediate use. This level shall conform to applicable carrier rules and regulations.

5.2.4 Industrial. The packaged hose or hose assembly shall be packed in accordance with ASTM D3951.

5.3 Marking. Each unit and shipping container shall be marked in accordance with MIL-STD-129. In addition, the following precautionary marking shall be required on each unit package and shipping container:

Oxygen components - All oil, grease, shop residue, or other contaminants have been removed.

Do not open until ready for use.

5.4 Packaging inspection. The inspection of these packaging requirements shall be in accordance with 4.6."

PAGE 15

- * 6.2 Delete "title and sentence" entirely and add: "Acquisition requirements. Acquisition documents must specify the following:".
- * Add: "6.2.f Issue of DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1)".

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- * Delete "6.4" entirely and add new paragraph: "6.4 "With respect to products requiring qualification, awards will be made only for products which are, at the time of award of contract, qualified for inclusion in Qualified Products List QPL No. 87961 whether or not such products have actually been so listed by that date. The attention of the contractors is called to these requirements, and manufacturers are urged to arrange to have the products that they propose to offer to the Federal Government tested for qualification in order that they may be eligible to be awarded contracts or purchase orders for the products covered by this specification. The activity responsible for the Qualified Products List is OC-ALC/MMEOR, Tinker AFB, OK 73145-5990 and information pertaining to qualification of products may be obtained from that activity."

The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

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Preparing Activity:
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