

GGG-M-125/6B  
14 October 1985  
SUPERSEDING  
GGG-M-125/6A  
September 20, 1982

## FEDERAL SPECIFICATION

### RESPIRATOR ASSEMBLY: HALF MASK, AIR-PURIFYING, COMBINATION CHEMICAL CARTRIDGE AND FILTER (FOR PAINT SPRAY AND ORGANIC VAPORS)

This specification is approved for use by the Naval Facilities Engineering Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

The complete requirements for procuring the respirators described herein shall consist of this document and the issue in effect of GGG-M-125/GEN.

#### 1. SCOPE AND CLASSIFICATION

1.1 Scope. This specification covers the requirements for air-purifying, half-mask respirators with chemical cartridges and filters for removing mists of paints, lacquer and enamel, and organic vapors from air.

1.2 Classification. Half-mask respirators covered by this specification shall be of the following types, styles, and sizes as specified (see 6.2):

Type I - Replaceable cartridge(s)

Style A - Single cartridge  
Style B - Dual cartridge

Type II - Non-replaceable cartridge (disposable)

Style A - Single cartridge

Size 1 - Small  
Size 2 - Medium  
Size 3 - Large

#### 2. APPLICABLE DOCUMENTS

Latest issue of GGG-M-125/GEN and documents referenced therein and the additional documents specified herein.

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DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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### 3. REQUIREMENTS

#### 3.1 Approval and certification. (See GGG-M-125/GEN).

3.2 Design. The respirator shall provide protection against concentrations of organic vapors, paint spray mists, and dusts specified in 30 CFR Part 11, Subpart L. Respirator masks shall be of a design that covers the mouth and nose, leaving the eyes uncovered (see figures 1 and 2). The design shall allow respirable air to pass through the filter with minimum resistance to breathing when worn. The lower part of the half-mask facepiece shall make facial contact under the chin. The design shall provide a gas-tight seal with the face, when worn.

3.2.1 Type I. The type I respirator assembly shall be a half-mask, air-purifying respirator with provisions to replace the chemical cartridge(s) and filter(s).

3.2.2 Type II. The type II respirator assembly shall be a half-mask, air-purifying respirator where the chemical cartridge is not intended to be replaceable but with provisions to replace the filter.

3.3 Principal parts. Respirators shall consist of the following parts where required:

- a. Half-mask flexible facepiece
- b. Head harness (see 3.3.1)
- c. Exhalation valve or valves (see 3.3.2)
- d. Inhalation valve or valves (see 3.3.3)
- e. Chemical cartridge(s) (see 3.3.4)
- f. Filter(s) (see 3.3.5)

3.3.1 Head harness. The head harness shall be adjustable and secure the respirator facepiece to the wearer's head.

3.3.2 Exhalation valve(s). The exhalation valve or valves shall be securely mounted on the facepiece, and shall permit passage of the exhaled air and prevent entrance of air into the mask during inhalation.

3.3.3 Inhalation valve(s). The inhalation valve or valves shall prevent the passage of exhaled air into the air-purifying elements.

3.3.4 Chemical cartridge(s). The chemical cartridge(s) shall remove organic vapors from respirable air. A cartridge may also contain an integral filter for removal of particulate matter from air.

3.3.4.1 Chemical cartridge-filter combinations for type I respirator. Each type I, style A respirator assembly shall be furnished with 25 cartridges and 50 filters, and each type I, style B respirator assembly shall be furnished with 50 cartridges and 100 filters.

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3.3.5 Filter(s). Filters shall remove particulate matter from air. A filter may be attached to a chemical cartridge.

3.3.5.1 Filters for type II respirator. Each type II respirator shall be furnished with 10 filters.

3.4 Interchangeability. Requirements in accordance with GGG-M-125/GEN.

3.5 Instructions. Requirements in accordance with GGG-M-125/GEN.

3.6 Marking. Requirements in accordance with GGG-M-125/GEN.

3.7 Sanitization. Type I shall conform to the cleaning and sanitization requirements specified in GGG-M-125/GEN.

#### 4. QUALITY ASSURANCE PROVISIONS

4.1 Quality assurance provisions shall be in accordance with the requirements of GGG-M-125/GEN and the additional requirements specified herein.

4.2 Examination. Respirator samples selected in accordance with GGG-M-125/GEN shall be examined for the defects listed in table I.

TABLE I. Classification of defects.

categories	Defects
Major:	
101	Type, style, or size not as specified.
102	NIOSH/MSHA approval label missing.
103	Principal parts missing.
104	Chemical cartridge and/or filter not as specified.
105	Quantity of extra cartridges and/or filters not as specified.
106	Instructions missing.
107	Marking not as specified.
108	Poor workmanship.

4.3 Tests. Respirator assemblies sampled in accordance with GGG-M-125/GEN shall be subjected to the following test:

a. Cleaning and sanitization test type I only (see GGG-M-125/GEN).

5. PREPARATION FOR DELIVERY (In accordance with GGG-M-125/GEN).

6. NOTES

6.1 Intended use. Half-mask respirators covered by this specification are intended to give protection to the respiratory organs of the wearer from organic vapors, paint spray mists, and dust in atmospheres not immediately dangerous to life or health.

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6.2 Ordering data. Purchasers shall select the preferred options offered herein and include the following data in procurement documents:

- a. Title, number, and date of this specification.
- b. Title and date of general specification GGG-M-125/GEN.
- c. Type, style, and size of respirator required (see 1.2).
- d. Level of packaging and level of packing required  
(see GGG-M-125/GEN).

MILITARY INTEREST:

Custodians

Army - EA  
Navy - YD  
Air Force - 99

Review Activities

Army - MD, ME  
DLA - GS

User Activities

Navy - SH, CG, MC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS  
TVA  
DCG

PREPARING ACTIVITY:

Navy - YD

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Orders for this publication are to be placed with General Services Administration, acting as an agent for the Superintendent of Documents. See section 2 of this specification to obtain extra copies and other documents referenced herein.