

GGG-M-125/4C  
14 October 1985  
SUPERSEDING  
GGG-M-125/4B  
September 20, 1982

FEDERAL SPECIFICATION

RESPIRATOR ASSEMBLY: HALF MASK, AIR-PURIFYING, CHEMICAL CARTRIDGE  
(FOR 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 specific requirements for air-purifying, half-mask respirators with chemical cartridges for removal of low concentrations of 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.

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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 half-mask (see figures 1 and 2) shall cover the wearer's nose and mouth leaving the eyes uncovered, and shall provide protection against low concentrations of organic vapors as specified in 30 CFR Part 11, Subpart L. 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 provision to replace the air-purifying cartridge(s).

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

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

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

3.3.1 Chemical cartridge(s). The chemical cartridges shall remove organic vapors from respirable air.

3.3.1.1 Chemical cartridge(s) for type I respirator. Each type I, style A respirator assembly shall be furnished with 50 cartridges, and each type I, style B respirator assembly shall be furnished with 100 cartridges.

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

3.3.3 Exhalation valve(s). The exhalation valve(s) shall be securely mounted on the facepiece, and shall permit passage of the exhaled air from the respirator and prevent entrance of ambient air into the respirator during inhalation.

3.3.4 Inhalation valve(s). The inhalation valve(s) shall prevent the passage of exhaled air into the air-purifying element(s).

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3.4 Cleaning and sanitization. Type I respirators shall conform to the cleaning and sanitizing requirements specified in GGG-M-125/GEN.

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

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

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

3.8 Workmanship. Requirements in accordance with 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 not as specified.
105	Quantity of extra cartridges not as specified.
106	Instructions missing.
107	Markings not as required.
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 in concentrations that are not immediately dangerous to life or health.

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

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- 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. Specify level of packaging and level of packing required (see GGG-M-125/GEN).

MILITARY INTEREST:

CIVIL AGENCY COORDINATING ACTIVITY:

Custodians

GSA - FSS

TVA

DCG

Army - EA

Navy - YD

Air Force - 99

PREPARING ACTIVITY:

Review Activities

Navy - YD

Army - MD, ME

DLA - CS

DoD project 4240-0519

User Activities

Navy - SH, CG, MC

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.