

GGG-M-125/5B
14 October 1985
SUPERSEDING
GGG-M-125/5A
September 20, 1982

FEDERAL SPECIFICATION

RESPIRATOR ASSEMBLY: HALF MASK, AIR-PURIFYING PARTICULATE-FILTER (FOR DUSTS, FUMES, AND MISTS)

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 filters for removing dust, metal fumes, or mists from air.

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

Type I - Replaceable filter(s)

Style A - Single filter

Style B - Dual filter

Type II - Non-replaceable filter (disposable)

Style A - single filter

Model 1 - Dust, fume, and mist

Model 2 - Dust, fume, mist, and radionuclides (High efficiency filter)

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.

FSC 4240

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

GGG-M-125/5B

3. REQUIREMENTS

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

3.2 Design. Respirator masks shall be of a design that covers the mouth and nose, leaving the eyes uncovered. The design shall allow respirable air to pass through the filter with minimum resistance to breathing when worn. Type I mask (see figure 1) shall have provisions for allowing one or two filters to be attached to the facepiece. Type II mask (see figure 2) shall be a completely disposable item, that is discarded after use. Both types shall permit the wearer to have unobstructed and good downward vision even when protective spectacles or eyeglasses are worn. 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 air-purifying filter(s).

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

3.2.3 Model 1. The model 1 respirator shall provide respiratory protection against dusts, fumes, and mists having an air contamination level not less than 0.05 milligram per cubic meter or 2 million particles per cubic foot.

3.2.4 Model 2. The model 2 respirator shall provide respiratory protection against dusts, fumes, and mists having an air contamination level less than 0.05 milligram per cubic meter, and against radionuclides.

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

- a. Half-mask 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. Filter(s) or filter cartridge(s) (see 3.3.4)

3.3.1 Head harness. The head harness shall be of the type supplied on the respirator when certified by the NIOSH/MSHA.

3.3.2 Exhalation valve. The exhalation valve(s) shall be securely mounted on the facepiece, and shall be so designed as to permit passage of the exhaled air and prevent entrance of ambient air to the respirator during inhalation.

3.3.3 Inhalation valve. The inhalation valve(s) shall be securely mounted on the facepiece, and shall be so designed to permit the entry of inhaled air into the respirator through the filter with no outward leakage during exhalation.

GGG-M-125/5B

3.3.4 Filters. The filters shall provide protection against concentrations of metal fumes, dusts, and mist contaminants specified in 30 CFR Part 11, Subpart K.

3.3.4.1 Filters for type I respirator. Each type I, style A, respirator assembly shall be furnished with 50 filters and each type I, style B respirator assembly shall be furnished with 100 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 Workmanship. Requirements in accordance with GGG-M-125/GEN.

3.8 Sanitization. Type I shall conform to the requirement for masks 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	Filter not as specified.
105	Quantity of extra filters not as specified.
106	Instructions missing.
107	Markings 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).

GGG-M-125/5B

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 against dusts, mists, and metal fumes 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:

- a. Title, number, and date of this specification.
- b. Title and date of general specification GGG-M-125/GEN.
- b. Type, model, style, and size required (see 1.2).
- c. 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

DoD project 4240-0520

DLA - GS

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.