NIOSH
CERTIFIED EQUIPMENT LIST
as of December 31, 1990

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Centers for Disease Control
National Institute for Occupational Safety and Health

CDC
CENTERS FOR DISEASE CONTROL

NIOSH CERTIFIED EQUIPMENT LIST

AS OF DECEMBER 31, 1990

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JANUARY 1991

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NIOSH CERTIFIED EQUIPMENT

as of

December 31, 1990

Abstract

The National Institute for Occupational Safety and Health, under authorization of the Federal Mine Safety and Health Act of 1977 and the Occupational Safety and Health Act of 1970, provides a testing, approval, and certification program assuring commercial availability of safe personal protective devices and reliable industrial hazard measuring instruments. NIOSH develops improved performance regulations, tests and certifies (or approves) devices, and purchases approved and certified products on the open market to verify the quality of manufacture.

This publication (a) lists products certified as of December 31, 1990, (b) contains tables of useful information concerning certified coal mine dust personal sampler units and respirators, (c) updates the lists of approval applicants, and (d) lists some of the more common cautions and limitations for specific respirator classes.

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INTRODUCTION

The Certification and Quality Assurance Branch (CQAB), Division of Safety Research (DSR), National Institute for Occupational Safety and Health (NIOSH), located at 944 Chestnut Ridge Road, Morgantown, West Virginia 26505, was established to assure that certain devices and instruments used for control and evaluation of occupational hazards meet minimum performance requirements necessary to protect workers' health and safety. The functions of the CQAB include: (1) publish certification requirements, (2) test and certify products meeting those requirements, (3) publish lists of certified products, (4) audit manufacturers plants to determine the acceptability of their quality assurance programs, (5) sample products from the open market and test them for continued conformance to certification requirements, and (6) perform research on development of new test methods and requirements for product improvement, where necessary to assure worker protection.

This publication replaces previous lists of devices certified by NIOSH or by NIOSH and the Mine Safety and Health Administration. It does not list any devices formerly approved by the Bureau of Mines.

Certification applicants have voluntarily withdrawn certain products from the market. This withdrawal is for a variety of reasons, and replacement parts for these products may or may not be available.

Other products are currently not being sold. The status of this withdrawal, the availability of parts, and sale of other products is subject to change.

These products are, therefore, not listed in this publication. NIOSH advises interested persons to call (304/291-4331) or write the CQAB and request available information on certified products that are not listed in this publication.

Respirators are listed by approval class. General cautions and limitations are listed for each approval class. These limitations are by no means all inclusive. The respirator manufacturer may also identify further limitations or cautions for their respirators. In addition, regulatory agencies may also place a limit on the use of respirators in their standards.

Except as it purchases equipment and supplies on the open market for quality control testing, NIOSH does not have frequent internal use for personal protective equipment. It therefore welcomes information from the user concerning NIOSH certified equipment. These comments and suggestions, responses to this publication, and requests for additional information on certified products can be sent to the Chief, Certification and Quality Assurance Branch, Division of Safety Research, NIOSH, 944 Chestnut Ridge Road, Morgantown, West Virginia 26505.

I. Coal Mine Personal Sampler Units

COAL MINE DUST PERSONAL SAMPLER UNITS

I. Certification of Coal Mine Dust Personal Sampler Units.

A coal mine dust personal sampler unit (CMDPSU) consists of a pump, a charger, and a sampling head with a 10 mm nylon cyclone and a preweighed sealed filter cassette. It is used--as a unit--for collecting the mandatory coal mine atmosphere samples as required under the Federal Mine Safety and Health Act of 1977. The sampling requirements are detailed in Title 30, Part 70 of the Code of Federal Regulations.

All certified CMDPSU's must have prior approval by the Mine Safety and Health Administration, Department of Labor, to meet the 2G-2239 Electrical Permissibility requirements. The performance of the CMDPSU's is certified by NIOSH under Title 30, Part 74 of the Code of Federal Regulations. As of December 31, 1990, the following CMDPSU's are certified by NIOSH:

CERTIFICATION NUMBER	CERTIFICATE HOLDER	MODEL
TC-74-015	MSA	G
TC-74-028	MSA	G (tamperproof cassette)
TC-74-029	MSA	1 (Flow-lite)

NAMES AND ADDRESSES OF MANUFACTURERS AND DISTRIBUTORS

Mine Safety Appliances Company, P.O. Box 426, Pittsburgh, PA 15230

II. Respiratory Protective Devices

HOW TO USE THE RESPIRATOR TABLES

Most readers of the "NIOSH Certified Equipment List" use it to answer two basic questions about respiratory protection:

1. What is the appropriate respirator to use? and,

2. Is this respirator approved?

The Respiratory Protective Devices (Respirator) Section is divided into two series of tables to allow the user to readily find the answers to these two questions.

Respirator Selection

The selection of an appropriate respirator for use in a given situation can only be made by carefully considering a series of interrelated environmental, equipment, work situation and human factors.

Once a selection by specific type is made, then a user can refer to the specific section for a list of all approved devices of that type. These types are:

A. Self-contained Breathing Apparatus
   1. Entry Into and Escape
      a. Open circuit pressure demand
      b. Open circuit demand
      c. Closed circuit
   2. Escape Only
      a. Open circuit (pressure demand, demand or continuous flow)
      b. Closed circuit
   3. Combination Self-contained Breathing Apparatus and Supplied-air Respirators

B. Gas Mask
   1. Ammonia
   2. Chlorine
   3. Sulfur Dioxide
   4. Acid Gases
   5. Organic Vapors
   6. Carbon Monoxide
   7. Pesticides
   8. Other gases and vapors

C. Supplied Air Respirators
   1. Type C Continuous Flow
   2. Type C Pressure Demand
   3. Type C Demand
   4. Type CE Continuous Flow Abrasive Blasting
   5. Type A
   6. Type B

D. Particulate
   1. Single Use
   2. Dusts and Mists
   3. Dusts, Fumes and Mists
   4. High Efficiency

E. Chemical Cartridges
   1. Ammonia
   2. Methylamine
   3. Chlorine
   4. Hydrogen Chloride
   5. Sulfur Dioxide
   6. Organic Vapor
   7. Paints, Lacquers and Enamels
   8. Pesticides
   9. Vinyl Chloride
   10. Other Gases and Vapors

F. Powered Air Purifiers
   1. Gas Masks
   2. Particulate
   3. Chemical Cartridge

G. Vinyl Chloride Respirators

For example, if your need was for a self-contained breathing apparatus for use in escaping from a laboratory fire in which the travel distance to safety was 100 feet, then your choice might be an escape self-contained breathing apparatus (SCBA) with a relatively short duration or service life. Turning to Section A(2) Escape Only Self Contained Breathing Apparatus, you would find that the TC-13F-28 approval (among others) has been granted for escape self-contained breathing apparatus (Es) with a service life of 5 minutes.

Abbreviations and Definitions of Terms and Symbols Used in Lists

Respirator Type

A Hose mask respirator, for entry into and escape from atmospheres not immediately dangerous to life or health, which consists of a motor-driven or hand-operated blower that permits the free entrance of air when the blower is not operating, a strong large-diameter hose having a low resistance to air flow.

AE Supplied-air respirator. A type A supplied air respirator equipped with additional devices designed to protect the wearer's head and neck against impact and abrasion from rebounding abrasive material, and with shielding material such as plastic, glass, woven wire, sheet metal, or other suitable material to protect the window(s) of facepieces, hoods, and helmets which do not unduly interfere with the wearer's vision and permit easy access to the external surface of such window(s) for cleaning.

B Supplied-air respirator. A hose mask respirator, for entry into and escape from atmospheres not immediately dangerous to life or health, which consists of a strong large diameter hose with low resistance to airflow through which the user draws inspired air by means of his lungs alone, a harness to which the hose is attached, and a tight-fitting facepiece.

BE Supplied-air respirator. A type B supplied-air respirator equipped with additional devices designed to protect the wearer's head and neck against impact and abrasion from rebounding abrasive material, and with shielding material such as plastic, glass, woven wire, sheet metal, or other suitable material to protect the window(s) of facepieces, hoods, and helmets which do not unduly interfere with the wearer's vision and permit easy access to the external surface of such window(s) for cleaning.

C Supplied-air respirators. An airline respirator, for entry into and escape from atmospheres not immediately dangerous to life or health, which consists of a source of respirable breathing air, a hose, a detachable coupling, a control valve, orifice, a demand valve or pressure demand valve, an arrangement for attaching the hose to the wearer and a facepiece, hood, or helmet.

CE Supplied-air respirator. A type C supplied-air respirator equipped with additional devices designed to protect the wearer's head and neck against impact and abrasion from rebounding abrasive material, and with shielding material such as plastic, glass, woven wire, sheet metal, or other suitable material to protect the window(s) of facepieces, hoods, and helmets which do not unduly interfere with the wearer's vision and permit easy access to the external surface of such window(s) for cleaning.

CF Continuous flow. Type C supplied air respirator which supplies respirable air at a constant flow.

CC Closed-circuit apparatus. An apparatus of the type in which the exhalation is rebreathed by the wearer after the carbon dioxide has been effectively removed and a suitable oxygen concentration restored from sources composed of: (i) Compressed oxygen; or (ii) Chemical oxygen; or (iii) Liquid-oxygen.

ODM Open circuit demand type - An apparatus in which the pressure inside the facepiece in relation to the immediate environment is positive during exhalation and negative during inhalation and from which exhalation is vented to the atmosphere and not rebreathed.

OPD Open circuit pressure demand type. An apparatus in which the pressure inside the facepiece in relation to the immediate environment is positive during both inhalation and exhalation and from which exhalation is vented to the atmosphere and not rebreathed.

GEN Oxygen generating respirator which supplies oxygen by means of a chemical reaction

Es Escape only respiratory devices providing protection only during escape from hazardous atmospheres.

SAR Supplied-air respirator. An airline respirator.

PAPR Powered air-purifying respirator means a device equipped with a facepiece, hood, or helmet, breathing tube, canister, cartridge, filter, canister with filter, or cartridge with filter, and a blower.

Rp Replaceable filter. A filter which is discarded after excessive resistance renders it unsuitable for further use.

Ru Reusable filter. A filter which is cleaned and reused after excessive resistance renders it unsuitable for further use.

Su Single use. A respirator that is entirely discarded after excessive resistance, sorbent exhaustion, or physical damage renders it unsuitable for further use.

AG Acid gas

OV Organic vapor

Cl Chlorine

HCl Hydrogen chloride

HCN Hydrogen Cyanide

O_2 Sulfur dioxide

CO Carbon monoxide

NH_3 Ammonia

MA Methylamine

VC Vinyl chloride

CLO2 Chlorine dioxide

CH2-O Formaldehyde

PH_3 phosphine

H_2S hydrogen sulfide

PLE mists of paints, lacquer and enamel

Pest Pesticide means (1) any substance of mixture of substances (including solvents and impurities) intended to prevent, destroy, repel, or mitigate any insect, rodent, nematode, fungus, weed, or other form of plant or animal life or virus, and (2) any substance or mixture of substances (including solvents and impurities) intended for use as a plant regulator, defoliant, or desiccant, as defined in the Federal Insecticide, Fungicide, and Rodenticide Act of 1947, as amended (7 U.S.C. 135-135k), excluding fumigants which are applied as gases or vapors or in a solid or liquid form as pellets or poured liquids for subsequent release as gases or vapors.

DFM:

D Respirators, either with replaceable or reusable filters, designed as respiratory protection against dusts (1) having an air contamination level not less than 0.05 milligram per cubic meter of air; or (2) dusts having an air contamination level not less than 2 million particles per cubic foot of air.

F Respirators, with replaceable filters, designed as respiratory protection against fumes of various metals having an air contamination level not less than 0.05 milligram per cubic meter.

M Respirators, with replaceable filters, designed as respiratory protection against mists of materials having an air contamination level not less than 0.05 milligram per cubic meter or 2 million particles per cubic foot.

H Respirators, with replaceable filters, designed as respiratory protection against dusts, fumes, and mists having an air contamination level less than 0.05 milligram per cubic meter, and against radionuclides.

R Respirators, with replaceable filters, designed as respiratory protection against radon daughters, and radon daughters attached to dusts, fumes, and mists.

A Respirators, with replaceable filters, designed as respiratory protection against asbestos-containing dusts and mists.

S Single-use dust respirators designed as respiratory protection against pneumoconiosis- and fibrosis-producing dusts, or dusts and mists.

AB Abrasive blasting.

Z Respirators designed as respiratory protection against asbestos-containing dusts and mists, however, no longer permitted for use under the OSHA asbestos standard, 1910.1001.

Service Life

3 min.	3 minutes
5 min.	5 minutes
15 min.	15 minutes
30 min.	30 minutes
45 min.	45 minutes
1 hr.	1 hour

Breathing Gas

A Compressed Air

O Compressed Oxygen

Facepiece Type

ON Orinasal

FF Full facepiece

HH Hood or helmet

MP(M) Mouthpiece

Regulator, valve, or canister location

Fm Facepiece mounted

Bm Belt, chest, or side mounted

Airflow Class

CF Continuous flow

Dm Demand

Pd Pressure-demand

* Obsolete models - these models are still approved, but no longer produced by the manufacturer

Hose Length and Pressure Range

These columns apply only to supplied air respirators (airline) or combination respirators with a supplied air component.

Self-Contained Breathing Apparatus (13F)

A. Self-contained Breathing Apparatus

1. Entry Into and Escape

a. Open circuit pressure demand

Approval

Approved for respiratory protection during entry into or escape from oxygen deficient atmospheres, gases and vapors.

Limitations

Use only for temperatures above the temperature listed on approval label.

Approved only when compressed air reservoir is fully charged with air meeting the requirements of the Compressed Gas Association Specification G-7.1 for Type 1, Grade D air, or equivalent specifications.

The air container shall meet applicable DOT specifications.

Use adequate skin protection when worn in gases or vapors that poison by skin absorption.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Demand mode shall be used only when donning apparatus.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

Recommendation

NIOSH recommends that SCBA be inspected weekly if stored and immediately before use if used regularly, for breathing gas pressure.

SCBA ENTRY INTO AND ESCAPE OPEN CIRCUIT PRESSURE DEMAND

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life (min.)	Facepiece Type	Regulator Position
30	MSA	95069 96338* 461696* 461704* 461946*/461947* 463814*/463815* 463831* 463833* 464985* 466209* 470444*/470445* 470448*/470449*	30	FF	Bm
40	Scott	900014-00 900014-01/05/06/12*/30/31*/39*/50/51* 900214-00/01/05/06/50/51 900314-01/02/03 900414-00/01/05/06/50/51	30	FF	Bm
42	Scott	900015-00 900015-01/05/06	15	FF	Bm
45	Survivair	9038-20*/22*/70*/72* 9838-20/21/22/23/70*/72* 9848-20/22/50/52/54/56/80/82/84/86 9849-20*/22* U9038-00 U9838-00/02 M9838-20*	30	FF	Bm
47	MSA	95063 460262 461697 461703	15	FF	Bm
59	Siebe-Gorman	014422.11*	30	FF	Fm
65	ISD	900-002-267 900-002-267-21*/31*	15	ON,FF	Fm
76	Scott	900403-00 900405-00/01/02/04/10*/11*/12*/14*/20*/21*/22*/24* 900405-30/31/32/34/40*/41*/42*/44*/50*/51*/52*/54* 900409-00/01/02/04/30/31/32/34 900455-00/01/02/04/10*/11*/12*/14*/20/21/30/31/32/34 900455-40*/41*/42*/44*/50/51 900459-00/01/02/04/30/31/32/34	30	FF	Fm

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life (min.)	Facepiece Type	Regulator Position
76 Cont.		930401-00/01/30/31			
		930403-01/10/11/30/31/40/41			
		930451-00/01/30/31			
		930453-00/01/10/11/30/31/40/41			
		900605-00/01/02/04/10*/11*/12*/14*/30/31/32/34/40*/41*			
		900605-42*/44*/60/61/62/64/70*/71*/72*/74*			
		900609-00/01/02/04/30/31/32/34/60/61/62/64			
		900655-00/01/02/04/10*/11*/12*/14*/30/31/32/34			
		900655-40*/41*/42*/44*/60/61/62/64/70*/71*/72*/74*			
		900659-00/01/02/04/30/31/32/34/60/61/62/64			
		930601-00/01/30/31/60/61			
		930603-00/01/30/31/60/61			
		930651-00/01/30/31/60/61			
		930653-00/01/30/31/60/61			
80	Scott		30	FF	Fm
		803855-01/02/03/04/05/06/07/08/09/10/11/12/13/14/			
		803855-15/16/17/18/19/20/21/22/23/24/25/26/27/28/			
		803855-29/30			
		803856-01/02/03/04/05/06/07/08/09/10/11/12/13/14			
		803856-15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30			
		803857-01/02/03/04/05/06/07/08/09/10/11/12/13/			
		803857-14/15/16/17/18/19/20/21/22/23/24/25/26/			
		803857-27/28/29/30			
		803875-01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/			
		803875-16/17/18/19/20/21/22/23/24/25/26/27/28/29/30			
		803876-01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/			
		803876-16/17/18/19/20/21/22/23/24/25/26/27/28/29/30			
		803877-01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/			
		803877-16/17/18/19/20/21/22/23/24/25/26/27/28/29/30			
		900221-00/01/30/31/60/61			
		900225-00/01/02/03*/04/10*/11*/12*/13*/14*/20*/			
		900225-21*/22*/23*/30/31/32/33*/34/40*/41*/42*/43*/44*			
		900225-50*/51*/52*/53*/60/61/62/64/70*/71*/72*/74*			
		900229-00/01/02/04/30/31/32/34/60/61/62/64			
		900235-00/01/02/04/10*/11*/12*/14*/30/31/32/34			
		900235-40*/41*/42*/44*/60/61/62/64/70*/71*/72*/74*			
		900239-00/01/02/04/30/31/32/34/60/61/62/64			
		900275-00/01/02/04/10*/11*/12*/14*/30/31/32/34			
		900275-40*/41*/42*/44*/60/61/62/64/70*/71*/72*/74*			
		900279-00/01/02/04/30/31/32/34/60/61/62/64			
		900325-00/01/02/04/10*/11*/12*/14*/30/31/32/34			
		900325-40*/41*/42*/44*/60/61/62/64/70*/71*/72*/74*			
		900329-00/01/02/04/30/31/32/34/60/61/62/64			
		900335-00/01/02/04/10*/11*/12*/14*/30/31/32/34			
		900335-40*/41*/42*/44*/60/61/62/64/70*/71*/72*/74*			
		900339-00/01/02/04/30/31/32/34/60/61/62/64			
		900375-00/01/02/04/10*/11*/12*/14*/30/31/32/34			
		900375-40*/41*/42*/44*/60/61/62/64/70*/71*/72*/74*			
		900379-00/01/02/04/30/31/32/34/60/61/62/64			
		930213-10*/11*/40*/41*/70*/71*			
		930221-00/01/30/31/60/61			
		930223-00/01/10*/11*/30/31/40*/41*			
		930223-60/61/70*/71*			

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life (min.)	Facepiece Type	Regulator Position
80 Cont.		930231-00/01/30/31/60/61 930233-00/01/10*/11*/30/31/40*/41*/60/61/70*/71* 930271-00/01/30/31/60/61 930273-00/01/30/31/60/61 930321-00/01/30/31/60/61 930323-00/01/30/31/60/61 930331-00/01/30/31/60/61 930333-00/01/30/31/60/61 930371-00/01/30/31/60/61 930373-00/01/30/31/60/61			
82	Survivair	9045-20* 9045-22* 9845-20/22/27/28/30/31/32/33/34/35/36/37/38/39 9845-40/41/42/43	30	FF	Bm
99	Siebe-Gorman	014422.16	30	FF	Fm
100	Draeger	PA80-45 R40280 4050225	30	FF	FM
100	Draeger	C4052013	30	FF	Bm
102	ISI	707.114.00 703.116.00	30	FF	Fm
103	Draeger	PA-80-22 R40645	30	FF	Fm
105	Survivair	9846-20 9846-22	60	FF	Bm
106	O-Two Systems	7010000-1/2 7010300-1/2/3/4 7010600-1/2/3/4/5	30	FF	Fm
107	Globe	2826-W 2826 WSM 2840-W 2840 WSM 2850-W 2850 WSM 2852 WSM 2926-W 2926 WSM	30	FF	Bm

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life (min.)	Facepiece Type	Regulator Position
107 Cont.		2940-W 2940 WSM 2950-W 2950 WSM 2952-W 2952 WSM C2826W C2840W C2850W C2852W U2826W U2840W U2850W U2852W			
108	Survivair	9840-00* 9840-01*/02*/03*/04*/05*/06*/07*/08*/09*/10* 9840-11*/12*/13*/14*/15*/16*/17*/18*/19*/20*/21* 9840-22*/23*/25*/26*/27*/28*/40/41/42/43/44/45 9840-50/51/52/53/54/55/60/62/64/70/72/74/80/81 9840-82/83 9841-00/01*/02*/03*/20*/21*/22*/23*	30	FF	Bm
110	National Draeger	PA-80 4052013 4054305	60	FF	Bm
110	National Draeger	"C" R40280	60	FF	FM
113	Survivair	9870-00* 9870-01*/02*/03*/10*/11*/12*/13*/14*/15*/16*/17* 9870-18*/19*/20*/21*/22*/23*/24*/25*/26*/30*/31* 9870-32*/33*/40/42/44/50/52/54/60/62/64/70/72/74 9870-80/82/84/86 9871-00*/01*/02*/03*/10*/11*/12*/13*/20*/21*/22* 9871-23*/30*/31*/32*/33*	60	FF	Bm
114	Scott	900210-00* 900210-01*/02*/04*/30*/31*/32*/34* 900210-60*/61*/62*/64* 930212-00*/01*/30*/31*/60*/61*	15	FF	Fm
115	Scott	803854-01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/ 803854-16/17/18/19/20/21/22/23/24/25/26/27/28/29/30 804874-01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/ 803874-16/17/18/19/20/21/22/23/24/25/26/27/28/29/30 900215-00/01/02/04/10*/11*/12*/14*/20*/21*/30/31/32/	15	FF	Fm

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life (min.)	Facepiece Type	Regulator Position
115 Cont.		900215-34/40*/41*/42*/44*/50*/51*/60/61/62/64/70*/71* 900215-72*/74* 900219-00/01/02/04/30/31/32/34/60/61/62/64 900315-00/01/02/04/10*/11*/12*/14*/30/31/32/34/40* 900315-41*/42*/44*/60/61/62/64/70*/71*/72*/74* 900319-00/01/02/04/30/31/32/34/60/61/62/64 930211-00/01/30/31/60/61 930213-00/01/10*/11*/30/31/40*/41*/60/61/70*/71* 930311-00/01/30/31/60/61 930313-00/01/30/31/60/61			
128	O-Two Systems	7010200-1* 7010200-2*/3*/4* 7010601-1/2/3/4	30	FF	Bm
129	O-Two Systems	7010199-1* 7010199-2* 7010602-1/2	60	FF	Bm
130	Survivair	9842-00* 9842-01*/02*/03*/04*/05*/06*/07*/08*/09*/10*/12* 9842-40/42/50/52/60/62/70/72/74/80/82	30	FF	Bm
132	Interspiro	4515 608-301-320* 608-311-320 608-321-320 608-321-420 608-351-420 608-301-220* 608-311-220*	30	FF	Fm
133	Interspiro	4530 607-301-321* 607-311-321 607-321-321 607-301-121* 607-311-121* 607-321-421 607-351-421	30	FF	Fm
138	MSA	473625*/473626* 473627*/473628* 473629*/473630* 473631*/473632* 473633*/473634* 473649* thru 473651* 473652*/473653*	30	FF	Bm

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life (min.)	Facepiece Type	Regulator Position
138 Cont.		473654*			
		473655*/473656*			
		473657*/473658*			
		481216*/481217*			
		481218*/481219*			
		481220*/481221*			
		481222*/481223*			
		484925 thru 484928			
		484930 thru 484932			
		484933 thru 484936			
		494730 thru 494735			
		494766 thru 494771			
		494826 thru 494829			
139	MSA	473268*		30	FFBm
		473269*			
		474153*			
		474158*			
		481253*			
		481255*			
		484978			
		484980			
		484982			
		484984			
		484987			
		494757/494759			
		494793/494795			
140	MSA	470889*		60	FFBm
		471528*			
		474152*			
		474155*			
		481252*			
		481254*			
		484093			
		484977			
		484979			
		484981/484983			
		494756/494758			
		494792/494794			
144	North	802*/805	60	FF	Fm
		808*/811			
146	North	803*/806	30	FF	Fm
		809*/812			
		813*/814			
		815*/816			

SCBA ENTRY INTO AND ESCAPE OPEN CIRCUIT PRESSURE DEMAND

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life (min.)	Facepiece Type	Regulator Position
147	North	801*/804 807*/810	30	FF	Fm
164	National Draeger	4050212 thru 4050219 4050226 thru 4050233 4054269 thru 4054274 4052614 thru 4052621	30	FF	OPD
169	MSA	476009/476010 476013/476014	15	FF	Fm
171	Globe	U or C or 2826-2/-3 U or C or 2840-2/-3 U or C or 2850-2/-3 U or C or 2852-2/-3 U or C or 2926-2/-3 U or C or 2940-2/-3 U or C or 2950-2/-3 U or C or 2952-2/-3	30 Model number with prefix means: "U" means upgraded from BM-13E-11 to NIOSH TC-13F-171. "C" means conversion from TC-13F-43 (demand) to TC-13F-171 (pressure demand).	FF	Bm
174	National Draeger	4050304 thru 4050319 4054277 thru 4054282 4052622 thru 4052625	30	FF	Bm
175	National Draeger	4050288 thru 4050303 4054285 thru 4054290 4052626 thru 4052629	45	FF	Fm
177	National Draeger	4050271 4050273 4050275 4050277 4050279 4050281 4050283 4050285 4054293 thru 4054300 4052630 thru 4052633	60	FF	Fm
197	Interspiro	607-301-322* 607-321-322 607-311-322 607-301-222*	60	FF	Fm

SCBA ENTRY INTO AND ESCAPE OPEN CIRCUIT PRESSURE DEMAND

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life (min.)	Facepiece Type	Regulator Position
197 Cont.		607-311-222* 607-321-422 607-351-422			
199	Interspiro	607-301-322 607-311-322 607-321-322 607-321-422 607-351-422	30	FF	Fm
207	Globe Safety	3426-2/-3 3440-2/-3 3450-2/-3 3452-2/-3	30	FF	Bm
208	Globe	3526-2/-3 3540-2/-3 3550-2/-3 3552-2/-3	60	FF	Bm
212	Scott	803860-01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/ 803860-16/17/18/19/20/21/22/23/24/25/26/27/28/29/30 803880-01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/ 803880-16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/ 900445-00/01/02/04/10*/11*/12*/14*/30/31/32/34/40*/41* 900445-42*/44*/60/61/62/64/70*/71*/72*/74* 900449-00/01/02/04/30/31/32/34/60/61/62/64 900645-00/01/02/04/10*/11*/12*/14*/30/31/32/34/40*41*/ 900645-42*/44*/60/61/62/64/70*/71*/72*/74* 900649-00/01/02/04/30/31/32/34/60/61/62/64/ 930441-00/01/30/31/60/61 930443-00/01/30/31/60/61 930641-00/01/30/31/60/61 930643-00/01/30/31/60/61	45 min.	FF	Fm
220	Globe	3626-2/-3 3640-2/-3 3650-2/-3 3652-2/-3	45	FF	Bm
226	National Draeger	4050726 thru 4050729 4050734 thru 4050737 4050742 thru 4050745 4050750 thru 4050753	30	FF	Fm

SCBA ENTRY INTO AND ESCAPE OPEN CIRCUIT PRESSURE DEMAND

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life (min.)	Facepiece Type	Regulator Position
234	ISI	707.149.02	45	FF	Fm
235	ISI	707.149.00	60	FF	Fm
236	ISI	707.149.01 707.149.04	30	FF	Fm
237	ISI	707.149.03	30	FF	Fm
238	ISI	707.150.00/.01/.02	30	FF	Fm
250	Respiratory Systems	L-3000	30	FF	Fm
256	MSA	492437 thru 492448 492457 thru 492462 492466 thru 492468 492451 thru 492452 492455 thru 492446 492471 thru 492472 492475 thru 492476	30	FF	Fm
257	MSA	492440 thru 492442 492446 thru 492449 492451 thru 492453 492455 thru 492456 492460 thru 492462 492466 thru 492469 492471 thru 492473 492475 thru 492476	30	FF	Fm
258	MSA	492440 thru 492442 492446 thru 492448 492450 thru 492452 492454 thru 492456 492460 thru 492462 492466 thru 492468 492470 thru 492472 492474 thru 492476	60	FF	Fm

b. Open Circuit Demand

Approval

Approved for respiratory protection during entry into or escape from oxygen deficient atmospheres, gases and vapors.

Limitations

Use only for temperatures above the temperature listed on approval label.

Approved only when compressed air reservoir is fully charged with air meeting the requirements of the Compressed Gas Association Specification G-7.1 for Type 1, Grade D air, or equivalent specifications.

The air container shall meet applicable DOT specifications.

Use adequate skin protection when worn in gases or vapors that poison by skin absorption.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

Recommendation

NIOSH recommends that SCBA be inspected weekly if stored and immediately before use if used regularly, for breathing gas pressure.

SCBA ENTRY INTO AND ESCAPE OPEN CIRCUIT DEMAND

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Breathing Gas	Service Life (min)	Facepiece Type	Regulator Position
29	MSA	95066 95071 96363 457152 thru 457154 463827/463828 463830 463832 466208 466210 470442/470443 470446/470447	A	30	FF	Bm
39	Scott	900000-00* 900000-01*/05*/30*/31*/39/*50*/51*/60*/61*	A	30	FF	Bm
41	Scott	900002-00* 900002-01*/05*	A	15	FF	Bm
43 (See TC-13F-171)	Globe	2540-W/-B* 2550-W/-B* 2526-W/-B* 2552-W/-B*	A	30	FF	Bm
44	Survivair	9038-00*/02*/60*/62* 9838-00/02/60*/62*	A	30	FF	Bm
46	MSA	95061 95068 457150/457151	A	15	FF	Bm
58	Siebe-Gorman	014422.10*	A	30	FF	Fm
73	Scott	900400-00* 900400-01*/02*/04*/30*/31*/32*/34*/60*/61*/62*/64* 930402-00*/01*/30*/31*/60*/61* 900450-00*/01*/02*/04*/30*/31*/32*/34* -60*/61*/62*/64* 930452-00*/01*/30*/31*/60*/61	A	30	FF	Fm
79	Scott	900220-00* 900220-01*/02*/04*/30*/31*/32*/34*/60*/61*/62*/64* 930222-00*/01*/30*/31*/60*/61* 900230-00*/01*/02*/04*/30*/31*/32*/34* 60*/61*/62*/64* 930232-00*/01*/30*/31*/60*/61*	A	30	FF	Fm

SCBA ENTRY INTO AND ESCAPE OPEN CIRCUIT DEMAND

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Breathing Gas	Service Life (min)	Facepiece Type	Regulator Position
142	MSA	473615 thru 473624 453639 thru 473648	A	30	FF	Bm
168	MSA	476007 thru 476008 476011 thru 476012	A	15	FF	Fm

c. Closed circuit

Approval

Approved for respiratory protection during entry into or escape from oxygen deficient atmospheres, gases and vapors.

Limitations

Use only for temperatures above the temperature listed on approval label.

If compressed air supply is used: Approved only when compressed air reservoir is fully charged with air meeting the requirements of the Compressed Gas Association Specification G-7.1 for Type 1, Grade D air, or equivalent specifications.

If compressed oxygen or liquid oxygen supply is used: Approved for use only when the cylinder or container is charged with compressed oxygen or liquid oxygen meeting U.S.P. specifications.

If enriched air is used: Approved only when the cylinder or container is charged with compressed gas meeting the requirements listed in Federal Register Vol. 20, No. 222, November 18, 1985. Oxygen in the facepiece shall not exceed 30 percent by volume under normal temperature and pressure conditions.

If liquified breathing air is used it must meet Type II - Grade B or higher quality.

The oxygen container shall meet applicable DOT specifications.

Use adequate skin protection when worn in gases or vapors that poison by skin absorption.

Provide proper care, training, and maintenance of the apparatus as specifically described in the manufacturer's instructions and maintenance manuals.

After each use of this apparatus, a fully charged breathing gas container and a recharge of carbon dioxide scrubber shall be installed.

Thorough cleaning and disinfecting of facepiece, breathing tube, and breathing bag must be done in accordance with the manufacturer's instructions.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

Recommendation for Closed Circuit with Breathing Gas Cylinders

NIOSH recommends that SCBA be inspected weekly if stored and immediately before use if used regularly, for breathing gas pressure.

SCBA ENTRY INTO AND ESCAPE CLOSED CIRCUIT

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Breathing Gas	Service Life (min)	Facepiece Type	Regulator Position
27	Biomarine	BioPak 45 45-600* 45-100	O	45	FF	Bm
32	Siebe-Gorman	013831.04./05/.07	O	180	FF	Bm
38	Draeger	BG-174A-3h (R22900)	O	180	FF	Bm
57	Draeger	BG-174-4h (R27081)	O	240	FF	Bm
60	Scott	900050-00 900050-01/02/03/04/05	O	240	FF	In back pack
84	Biomarine	BioPak 30	O	30	FF	Bm
85	Biomarine	BioPak 60	O	60	FF	Bm
176	Draeger	BG-174AP-2h (R32200)	O	120	FF	Bm
185	Biomarine	BioPak 240	O	240	FF	Bm
186	MSA	472973	O	240	FF	Bm
210	Survivair	LP 120	O	120	FF	Bm

d. Closed Circuit Pressure Demand

Approval

Approved for respiratory protection during entry into or escape from oxygen deficient atmospheres, gases and vapors.

Limitations

Use only for temperatures above the temperature listed on approval label.

If compressed air supply is used: Approved only when compressed air reservoir is fully charged with air meeting the requirements of the Compressed Gas Association Specification G-7.1 for Type 1, Grade D air, or equivalent specifications.

If compressed oxygen or liquid oxygen supply is used: Approved for use only when the cylinder or container is charged with compressed oxygen or liquid oxygen meeting U.S.P. specifications.

If enriched air is used: Approved only when the cylinder or container is charged with compressed gas meeting the requirements listed in Federal Register Vol. 20, No. 222, November 18, 1985. Oxygen in the facepiece shall not exceed 30 percent by volume under normal temperature and pressure conditions.

If liquified breathing air is used it must meet Type II - Grade B or higher quality.

The oxygen container shall meet applicable DOT specifications.

Use adequate skin protection when worn in gases or vapors that poison by skin absorption.

Do not use this apparatus where there is direct exposure to open flames or in high radiant heat. (This limitation applies to 100 percent oxygen apparatus only.)

Provide proper care, training, and maintenance of the apparatus as specifically described in the manufacturer's instructions and maintenance manuals.

After each use of this apparatus, a fully charged breathing gas contained and a recharge of carbon dioxide scrubber shall be installed.

Thorough cleaning and disinfecting of facepiece, breathing tube, and breathing bag must be done in accordance with the manufacturer's instructions.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

Recommendation for Closed Circuit with Breathing Gas Cylinders

NIOSH recommends that SCBA be inspected weekly if stored and immediately before use if used regularly, for breathing gas pressure.

SCBA ENTRY INTO AND ESCAPE CLOSED CIRCUIT PRESSURE DEMAND

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Breathing Gas	Service Life (min)	Facepiece Type	Regulator Position
206	Biomarine	240P	O	240	FF	Bm
209	Dragerwerk	R32200	O	120	FF	Bm
228	Clifton Precision	3261060-0101	Enriched Air 36-38% oxygen	90	FF	
229	Biomarine	60P	O	60	FF	
233	Clifton Precision	3261060-0103	Enriched Air 36-38% oxygen	120	FF	
242	Biomarine	BioPak 240 P/A	O	180	FF	Bm

2. Escape Only

a. Open circuit (pressure demand, demand or continuous flow)

Approval

Approved for respiratory protection during escape from oxygen deficient atmospheres, gases and vapors.

Limitations

Use only for temperatures above the temperature listed on approval label.

Approved only when compressed air reservoir is fully charged with air meeting the requirements of the Compressed Gas Association Specification G-7.1 for Type 1, Grade D air, or equivalent specifications.

The air container shall meet applicable DOT specifications.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

OSHA regulations require that escape respirators be inspected monthly.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

Recommendation

NIOSH recommends that SCBA be inspected weekly if stored and immediately before use if used regularly, for breathing gas pressure.

SCBA ESCAPE ONLY OPEN CIRCUIT

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life (min.)	Facepiece Type	Respirator Type
28	ISD	900-002-268-01*/-02*/-11*/-12	5	HH	CF, Es
28A	Lear Siegler		5500	5	HHCF, Es
35	Survivair	9065-03 9865-03*	15	FF	ODM, Es
36	Survivair	9069-02/11 9869-02/11	5	FF	ODM, Es
52	MSA	456040 457156	5	FF	ODM, Es
55	MSA	76753	5	MP	ODM, Es
61	MSA	456989	5	ON	ODM, Es
66	Scott	900055-01*/02*/03*/04*/21*/30*/31*/36*/40* 900055-41*/54*/55*/62*/63*	5	ON,FF	ODM, Es
71	Globe	2508	5	FF	ODM, Es
75	Globe	2503	15	FF	ODM, Es
83	MSA	465251	5	ON	ODM, Es
86	Survivair	0028-00/-03	5	HH	CF, Es
111	ISI	(ELSA) 070.117.00	5	HH	CF, Es
116	Scott	900055-42/43/56/57/64/65	5	FF	OPD, Es
124	Scott	900555-01/02/03/04/05/06	5	FF	OPD, Es

SCBA ESCAPE ONLY OPEN CIRCUIT

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life (min.)	Facepiece Type	Respirator Type
125	Scott	900550-01*/02*/03*/04*/05*/06*	5	FF	OPD, Es
145	ISI	707.117.02	10	HH	CF, Es
166	Globe	2808 2908	5	FF	OPD, Es
167	Globe	2803 2903	15	FF	OPD, Es
172	North	845	5	HH	CF, Es
173	ISI	707.117.07 707.117.08	7	HH	CF, Es
178	Respiratory Systems	(L510) 100100-1 100100-11 (R410) 100100-21 (R410A) 100100-31	10	HH	CF, Es
179	Respiratory Systems	(L505) 100500-1 100500-11 (R405) 100500-21 (R405A) 100500-31		5	HHCF, Es
181	Scott	900105-01	5	HH	CF, Es
182	National Draeger	4052143 4052226 4052250/4052251	5	HH	CF, Es
193	Respiratory Systems	100720-1 100720-11 (L-560)	5	HH	CF, Es
195	North	850	10	HH	CF, Es
198	North	855	5	HH	CF, Es

SCBA ESCAPE ONLY OPEN CIRCUIT

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life (min.)	Facepiece Type	Respirator Type
200	National Draeger	4052192 4052204	10	HH	CF, Es
201	ISI	707.117.10	5	HH	CF, Es
202	Airolife	550	10	HH	CF, Es
203	Airolife	500	5	HH	CF, Es
204	Airolife	600	10	HH	CF, Es
205	Airolife	550HF-7	7	HH	CF, Es
216	MSA	484352	5	HH	CF, Es
217	MSA	484353	5	HH	CF, Es
231	Survivair	9750-80 9751-65	5	HH	CF,Es
232	Survivair	9750-90/-98 9751-66/-67	10	HH	CF,Es
241	Respiratory Systems	(L-507) 100703-500	7	HH	CF, Es
243	Globe	3615-00-2 3615-00-3	15	FF	OPD, Es
245	Globe	3615-01-2 3615-01-3	15	FF	OPD, Es
254	MSA	493997	5	HH	Cf,Es
255	Survivair	9751-90 9751-91	5	HH	Cf,Es

b. Closed Circuit

Approval

Approved for respiratory protection during escape from oxygen deficient atmospheres, gases and vapors.

Limitations

Use only for temperatures above the temperature listed on approval label.

If compressed air supply is used: Approved only when compressed air reservoir is fully charged with air meeting the requirements of the Compressed Gas Association Specification G-7.1 for Type 1, Grade D air, or equivalent specifications.

If compressed oxygen or liquid oxygen supply is used: Approved for use only when the cylinder or container is charged with compressed oxygen or liquid oxygen meeting U.S.P. specifications.

If enriched air is used: Approved only when the cylinder or container is charged with compressed gas meeting the requirements listed in Federal Register Vol. 20, No. 222, November 18, 1985. Oxygen in the facepiece shall not exceed 30 percent by volume under normal temperature and pressure conditions.

If liquified breathing air is used it must meet Type II - Grade B or higher quality.

The oxygen container shall meet applicable DOT specifications.

Use adequate skin protection when worn in gases or vapors that poison by skin absorption.

Provide proper care, training, and maintenance of the apparatus as specifically described in the manufacturer's instructions and maintenance manuals.

After each use of this apparatus, a fully charged breathing gas container and a recharge of carbon dioxide scrubber shall be installed.

Thorough cleaning and disinfecting of facepiece, breathing tube, and breathing bag must be done in accordance with the manufacturer's instructions.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

OSHA regulations require that escape respirators be inspected monthly.

MSHA regulations require that self-rescuers that are carried be inspected daily.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

Recommendation for Closed Circuit with Breathing Gas Cylinders

NIOSH recommends that SCBA be inspected weekly is stored and immediately before use if used regularly, for breathing gas pressure.

SCBA ESCAPE ONLY CLOSED CIRCUIT

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life (min.)	Facepiece Type
77	MSA	304330	10 60	MP
78	MSA	464213	60	MP
87	Draeger	OXY-SR60B(R31230)	60	MP
88	Scott	802300-01/02	15	HH
97	PASS	700*	60	MP
101	CSE	AU-9A1	60	MP
104	Ocenco	(EBA 6.5) 14000	60	MP
109	PASS	720*	60	FF
117	Survivair	9039-00 9040-00	60	FF
170	Romiro	150*/S	15	MP
180	MSA	1118-705/SSR90	60	MP
239	CSE	SR-100	60	MP

3. Combination Self-contained Breathing Apparatus and Supplied-air Respirators (Demand and Pressure Demand)

Approval

Approved for respiratory protection during entry into or escape from oxygen deficient atmospheres, gases and vapors, when using air-line air supply. Approved for escape only, when using self-contained air supply. If service life is 15 minutes or longer then not more than 20% of the rated capacity of air supply can be used on entry.

Limitations

Use only for temperatures above the temperature listed on approval label.

Approved only when compressed air reservoir is fully charged with air meeting the requirements of the Compressed Gas Association Specification G-7.1 for Type 1, Grade D air, or equivalent specifications.

The air container shall meet applicable DOT specifications.

Use adequate skin protection when worn in gases or vapors that poison by skin absorption.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Use only the hose lengths and pressure ranges specified on the approval label.

If the supplied air fails open cylinder valve and proceed to fresh air immediately.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

Recommendation

NIOSH recommends that SCBA be inspected weekly if stored and immediately before use if used regularly, for breathing gas pressure.

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face-piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
33	Survivair	9081-14 9881-14	5	FF	Es,ODM,SAR	4-250	50-125
34	Survivair	9081-12 9881-12	5	FF	Es,ODM,SAR	4-250	50-125
48	Scott	900006-00*/02*/08*/10*/11*/20*/21*/22*/23*/24*/25*	3 or 5	FF	Es,ODM,SAR	25-300	350-450
49	Scott	900007-00/02/08/10/11/20/21/22/23/24/25	3 or 5	FF	Es,OPD,SAR	25-300	350-450
53	Survivair	9081-13 9881-13/17/32/33/34	5	FF	Es,OPD,SAR	4-250	50-125
54	Survivair	9081-15 9881-15/-19	5	FF	Es,OPD,SAR	4-250	50-125
56	MSA	96395 455938 455993/455994	10	FF	Es,OPD,SAR	8-300	75-90
56A	MSA	304213 304194	10	FF	Es,OPD,SAR	8-300	75-90
62	MSA	458178 458479	5	FF	Es,ODM,SAR	8-300	50-90
63	ISD	900-002-267-01*/-11*	15	ON,FF	OPD,SAR	25-250	50-125
64	ISD	900-002-266-01/02/03/04/11/12/13/14	5	ON,FF	Es,OPD,SAR	25-250	50-125
67	Scott	900055-05*/06*/09*/10*/17*/18*/32*/33* 900055-50*/51*/58*/59*/66*/67*	5	ON,FF	Es,ODM,SAR	10-250	60-125
68	Scott	900055-13/14/22/23/24/25/60/61/52/53/68/69 900055-70/71/72/73/74/75/76/77/78/79	5	FF	Es,OPD,SAR	10-250	60-125

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face-piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
69	MSA	457159 456039	5	FF	Es,ODM,SAR	8-300	50-100
70	MSA	460713 461698 466556	5	FF	Es,OPD,SAR	8-300	50-100
72	Globe	2509	5	FF	Es,ODM,SAR	25-100	50-70
74	Globe	2505 2505-4	15	FF	ODM,SAR	25-100	50-70
76	Scott	930403-00/01/10*/11*/30/31/40*/41*/70*/71* 900405-00/01/02/04/10*/11*/12*/14*/20*/21*/22*/24* 900405-30/31/32/40*/41*/42*/34/44*/50*/51*/52*/54* 930453-00/01/10*/11*/30/31/40*/41*/70*/71* 900455-00/01/02/04/10*/11*/12*/14*/20/21/30/31/32/34 900455-40*/41*/42*/44*/50/51 900409-60/-61/-62/-64 900459-60/-61/-62/-64 900401-60/-61 930451-60/-61 900469-60/-61/-62/-64 900461-60/-61	30	FF	OPD,SAR	0-300	60-115
79	Scott	900220-00 900220-01/02/03*/04/30/31/32/33*/34 930222-00/01/30/31 900230-00/01/02/04/30/31/32/34 930232-00/01/30/31	30	FF	ODM,SAR	0-300	60-115
80	Scott	803855-01/02/03/04/05/06/07/08/09/10/11/12/13/14/ 803855-15/16/17/18/19/20/21/22/23/24/25/26/27/28/ 803855-29/30 803856-01/02/03/04/05/06/07/08/09/10/11/12/13/14 803856-15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30 803857-01/02/03/04/05/06/07/08/09/10/11/12/13/ 803857-14/15/16/17/18/19/20/21/22/23/24/25/26/ 803857-27/28/29/30 803875-01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/ 803875-16/17/18/19/20/21/22/23/24/25/26/27/28/29/30 803876-01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/ 803876-16/17/18/19/20/21/22/23/24/25/26/27/28/29/30 803877-01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/ 803877-16/17/18/19/20/21/22/23/24/25/26/27/28/29/30 900221-00/01/30/31/60/61 900225-00/01/02/03*/04/10*/11*/12*/13*/14*/20*/	30	FF	OPD,SAR	0-300	60-115

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face-piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
80 Cont.		900225-21*/22*/23*/30/31/32/33*/34/40*/41*/42*/43*/44*					
		900225-50*/51*/52*/53*/60/61/62/64/70*/71*/72*/74*					
		900229-00/01/02/04/30/31/32/34/60/61/62/64					
		900235-00/01/02/04/10*/11*/12*/14*/30/31/32/34					
		900235-40*/41*/42*/44*/60/61/62/64/70*/71*/72*/74*					
		900239-00/01/02/04/30/31/32/34/60/61/62/64					
		900275-00/01/02/04/10*/11*/12*/14*/30/31/32/34					
		900275-40*/41*/42*/44*/60/61/62/64/70*/71*/72*/74*					
		900279-00/01/02/04/30/31/32/34/60/61/62/64					
		900325-00/01/02/04/10*/11*/12*/14*/30/31/32/34					
		900325-40*/41*/42*/44*/60/61/62/64/70*/71*/72*/74*					
		900329-00/01/02/04/30/31/32/34/60/61/62/64					
		900335-00/01/02/04/10*/11*/12*/14*/30/31/32/34					
		900335-40*/41*/42*/44*/60/61/62/64/70*/71*/72*/74*					
		900339-00/01/02/04/30/31/32/34/60/61/62/64					
		900375-00/01/02/04/10*/11*/12*/14*/30/31/32/34					
		900375-40*/41*/42*/44*/60/61/62/64/70*/71*/72*/74*					
		900379-00/01/02/04/30/31/32/34/60/61/62/64					
		930213-10*/11*/40*/41*/70*/71*					
		930221-00/01/30/31/60/61					
		930223-00/01/10*/11*/30/31/40*/41*					
		930223-60/61/70*/71*					
		930231-00/01/30/31/60/61					
		930233-00/01/10*/11*/30/31/40*/41*/60/61/70*/71*					
		930271-00/01/30/31/60/61					
		930273-00/01/30/31/60/61					
		930321-00/01/30/31/60/61					
		930323-00/01/30/31/60/61					
		930331-00/01/30/31/60/61					
		930333-00/01/30/31/60/61					
		930371-00/01/30/31/60/61					
		930373-00/01/30/31/60/61					
89	MSA	465182/465183 465185/465186 465199/465200 465202/465203 470450/470451 470454/470455	30	FF	ODM,SAR	25-300	50-100
90	MSA	465188*/465189* 461191*/465192* 465205*/465206* 465208*/465209* 470452*/470453* 470456*/470457*	30	FF	OPD,SAR	25-300	50-100
91	MSA	465184 465187	15	FF	ODM,SAR	25-300	50-100

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face-piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
91 Cont.		465201 465204					
92	MSA	465190* 465193* 465207* 465210*	15	FF	OPD,SAR	25-300	50-100
93	MSA	464775* 464777* 472676*/472677* 472684*/472685*	30	FF	OPD,SAR	25-300	50-100
94	MSA	464776* 464778*	15	FF	OPD,SAR	8-300	50-100
95	Scott	900460-00*/01*/02*/04*/30*/31*/32*/34*/60*/61*/62*/64* 930462-00*/01*/30*/31*/60*/61*	60	FF	ODM,SAR	0-300	60-115
96	Scott	900463-00/01/10*/11*/30/31/40*/41/70*/71* 900465-00/01/02/04/10*/11*/12*/14*/20*/21*/30/31/32/34 900465-40*/41*/42*/44*/50*/51* 900469-00/01/02/04/30/31/32/34/60/61/62/64 930461-00/01/30/31/60/61 930463-10*/11*/40*/41*/70*/71* 900665-00/01/02/04/10*/11*/12*/14*/30/31/32/34/40*/41*/42* 900665-44*/60/61/62/64/70*/71*/72*/74* 900669-00/01/02/04/30/31/32/34/60/61/62/64 900661-00/01/30/31/60/61 900663-00/01/30/31/60/61	60	FF	OPD,SAR	0-300	60-115
98	Scott	900228-00* 900228-01*	15	FF	OPD,SAR	25-300	450-550
108	Survivair	9840-00* 9840-01*/02*/03*/04*/05*/06*/07*/08*/ 9840-09*/10*11*/12*/13*/14*/15*/16*/ 9840-17*/18*/19*/20*/21*22*/23*/25*/ 9840-26*/27*/28*/40/41/42/43/44/45/ 9840-50/51/52/53/54/55/60/62/64/70/ 9840-72/74/80/81/82/83 9841-00/01*/02*/03*/20*/21*/22*/23*	30	FF	(9308 series) Bm	10-300 (9304 & 9306 series) 25-250	85-125 85-125

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face-piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
					(9308 series)		
112	Scott	900480-01	5	FF	Es,CF,SAR	15-250	10-15
113	Survivair	9870-00*	60	FF	Bm	10-300	85-125
		9870-01*/02*/03*/10*/11*/12*/13*/14*/					
		9870-15*/16*/17*18*/19*/20*/21*/22*/				(9304 & 9306 series)	
		9870-23*/24*/25*/26*/30*/31*32*/33*/				25-250	85-125
		9870-40/42/44/50/52/54/60/62/64/70/					
		9870-72/74/80/82					
		9871-00*/01*/02*/03*/10*/11*/12*/13*/20*/21*/22*					
		9871-23*/30*/31*/32*/33*					
114	Scott		15	FF	OPM,SAR	0-300	60-115
		900210-00/01/02/04/30/31/32/34					
		930212-00/01/30/31					
115	Scott		15	FF	OPD,SAR	0-300	60-115
		803854-01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/					
		803854-16/17/18/19/20/21/22/23/24/25/26/27/28/29/30					
		804874-01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/					
		803874-16/17/18/19/20/21/22/23/24/25/26/27/28/29/30					
		900215-00/01/02/04/10*/11*/12*/14*/20*/21*/30/31/32/					
		900215-34/40*/41*/42*/44*/50*/51*/60/61/62/64/70*/71*					
		900215-72*/74*					
		900219-00/01/02/04/30/31/32/34/60/61/62/64					
		900315-00/01/02/04/10*/11*/12*/14*/30/31/32/34/40*					
		900315-41*/42*/44*/60/61/62/64/70*/71*/72*/74*					
		900319-00/01/02/04/30/31/32/34/60/61/62/64					
		930211-00/01/30/31/60/61					
		930213-00/01/10*/11*/30/31/40*/41*/60/61/70*/71*					
		930311-00/01/30/31/60/61					
		930313-00/01/30/31/60/61					
					(9308 series)		
118	National Draeger		30	FF	OPD,SAR	25-300	85-120
		4059192 thru 4059199		(2216 psig)			
		4054313 thru 405318					
		4050443					
119	National Draeger		30	FF	OPD,SAR	25-300	85-120
		4059200 thru 4059207		(4500 psig)			
		4054319 thru 4054324					
		4050441					
120	National Draeger		15	FF	OPD,SAR	25-300	85-120
		4059184 thru 4059191		(4500 psig)			
		4054307 thru 4054312					
		4050442					

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face-piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
121	Globe	2809/-4 C2809/-4 2909/-4	5	FF	Es,OPD,SAR w/series 3000 fittings 25-100 w/series 6000 fittings	25-250	60-75
122	Globe	2805/-4 C2805/-4 2905/-4	15	FF	OPD,SAR w/series 3000 fittings 25-100 w/series 6000 fittings	25-250	60-75
123	MSA	470199 470740 471955 thru 471962 471989 thru 471996	5	FF	Es,OPD,SAR	8-300	65-85
126	Scott	900565-01/02/03/04/05/06	5	FF	Es,OPD,SAR	0-300	60-105
127	Scott	900560-01*/02*/03*/04*/05*/06*	5	FF	Es,OPD,SAR	0-300	60-105
130	Survivair	9842-00* 9842-01*/02*/03*/04*/05*/06*/07*/ 9842-08*/09*/10*/12*40/42/50/52/ 9842-60/62/70/72/74/80/82	30	FF	Bm	10-300 (9304 & 9306 series) 25-250	85-125 85-125
131	Survivair	9882-00/01/02/03/10/11/12/13	30	FF	OPD,SAR	25 50 75 100 150 200 250	35-125 38-125 40-125 45-125 55-125 60-125 75-125
132	Interspiro	608-301-220* 608-311-220 608-301-320 608-311-320 608-321-320 336-890-161 336-890-162 336-890-163	30	FF	OPD,SAR	25-300	60-125

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face-piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
133	Interspiro	607-301-121* 607-311-121 607-301-321 607-311-321 607-321-321 611-321-421 336-890-164 336-890-165 336-890-166	30	FF	OPD,SAR	25-300	60-125
134	Interspiro	915 915V	5	FF	Es,OPD,SAR	25-300	60-125
135	O-Two Systems	7010420-1*/2*/3*/4*/5*/6*/7*/8* 7010612-1 thru 7010612-16	30	FF	OPD,SAR	25-300	100-125
136	O-Two Systems	7010421-1*/2*/3*/4*/5*/6*/7*/8* 7010611-1 thru 7010611-16	30	FF	OPD,SAR	25-300	100-125
137	O-Two Systems	7010422-1*/2*/3*/4* 7010612-1 thru 7010612-8	60	FF	OPD,SAR	25-300	100-125
141	National Draeger	4059276* thru 4059279* 4054337* thru 4054340*	5	FF	Es,OPD,SAR	25-300	85-120
143	MSA	474944* thru 474961* 479168* thru 479181* 487150* thru 487181*	5	FF	OPD, Es	8-300	65-85
144	North	802*/805 808*/811	60	FF	OPD,SAR	12.5-300	78-82
146	North	803*/806 809*/812 813*/814 815*/816	30	FF	OPD,SAR	12.5-300	78-82
147	North	801*/804 807*/810	30	FF	OPD,SAR	12.5-300	78-82

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face-piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
148	MSA	474204 thru 474211 474234 thru 474241	30	FF	ODM,SAR	15-300	85-90
149	MSA	475898/475899 475864/475865	15	FF	ODM,SAR	15-300	85-90
150	MSA	474188*/474189* 474192*/474193* 474218*/474219* 474222*/474223* 481245* 481249* 484962 484966 484970 484974 494749 494753 494785 494789	60	FF	ODM,SAR	15-300	85-90
151	MSA	474187* 474191* 474217* 474221* 481244* 481248* 484965 484973 484961 484969 494748 494752 494784 494788	30	FF	ODM,SAR	15-300	85-90
152	MSA	475956/475957 475960/475961 475975/475976 475979/475980	60	FF	ODM,SAR	15-300	85-90
153	MSA	475959 475974	30	FF	ODM,SAR	15-300	85-90

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face-piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
153 Cont.		475978 475995					
154	MSA	474212* thru 474215* 474242* thru 474245* 475822* thru 475825* 475884* thru 475887* 481224* thru 481227* 481234* thru 481237* 484943 thru 484945 484955 thru 484957 484937 thru 484939 484949 thru 484951 494736/494738 494742 thru 494744 494772 thru 494774 494778 thru 494780 494830 494832/494834 494836/494837	30	FF	OPD,SAR	15-300	85-90
155	MSA	475900/475901 475866/475867 481228 481238	15	FF	OPD,SAR	15-300	85-90
156	MSA	474196 thru 474203 474226 thru 474233	30	FF	ODM,SAR	15-300	85-90
157	MSA	475896/475897 475862/475863	15	FF	ODM,SAR	15-300	85-90
158	MSA	475810/475811 475814 thru 475817 475820/475821 481247 481251 484964 484968 484972 484976	60	FF	ODM,SAR	15-300	85-90

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face-piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
159	MSA	474195 474225 475813 475819 481246 481250 484963 484967 484971 484975	30	FF	ODM,SAR	15-300	85-90
160	MSA	475964/475965 475968/475969 475983/475984 475987/475988	60	FF	ODM,SAR	15-300	85-90
161	MSA	475963 475967 475982 475986	30	FF	ODM,SAR	15-300	85-90
162	MSA	475888 thru 475895 475826 thru 475833 481229 thru 481232 481239 thru 481242 484946 thru 484948 484958 thru 484960 484940 thru 484942 484952 thru 484954	30	FF	ODM,SAR	15-300	85-90
163	MSA	475902/475903 475868/475869 481233 481243	15	FF	OPD,SAR	15-300	95-90
165	ISI	707.127.00/.01/.02/.03/.04	5	FF	Es,OPD,SAR	25-300	80-100
183	Dual Safe	DS-100-1	3	FF	Es,OPD,SAR	50-250	50-120
184	Dual Safe	DS-100-2	3	FF	Es,OPD,SAR	50-250	50-120

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face-piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
187	Scott	900155-01/02	5	FF	Es,OPD,SAR	to 300	70-125
188	North	85500	5	FF	Es,OPD,SAR	12.5-300	78-80
189	O-Two Systems	7010400-1/2/3/4	5	FF	Es,OPD,SAR	25-300	100-125
190	ISI	707.137.00/.01 707.147.00/.01	30	FF	OPD,SAR	25-300	80-120
191	ISI	707.137.02/.04 707.147.02/.04	30	FF	OPD,SAR	25-300	80-120
192	ISI	707.137.03 707.147.03	60	FF	OPD,SAR	25-300	80-120
194	PMI	SAS100	5	HH	Es,OPD,SAR	to 300	70-80
196	National Draeger	4050602 thru 4050605 4050645 thru 4050647 4050651 thru 4050657 4054269 thru 4054274	5	FF	Es,OPD,SAR	25-300	85-120
197	Interspiro	607-301-222 607-311-222 607-301-322 607-311-322 607-321-322	60	FF	OPD,SAR	25-300	60-125
211	Respiratory Systems	L-1500	15	FF	OPD, SAR	6 25 50 75 100 150 200 250	65-85 65-85 65-85 70-85 70-85 70-85 75-85 75-85

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face-piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
212	Scott		45 min.	FF	Fm	0-300	60-115
		803860-01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/					
		803860-16/17/18/19/20/21/22/23/24/25/26/27/28/29/30					
		803880-01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/					
		803880-16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/					
		900445-00/01/02/04/10*/11*/12*/14*/30/31/32/34/40*/41*					
		900445-42*/44*/60/61/62/64/70*/71*/72*/74*					
		900449-00/01/02/04/30/31/32/34/60/61/62/64					
		900645-00/01/02/04/10*/11*/12*/14*/30/31/32/34/40*41*/					
		900645-42*/44*/60/61/62/64/70*/71*/72*/74*					
		900649-00/01/02/04/30/31/32/34/60/61/62/64/					
		930441-00/01/30/31/60/61					
		930443-00/01/30/31/60/61					
		930641-00/01/30/31/60/61					
		930643-00/01/30/31/60/61					
213	Interspiro		45	FF	OPD,SAR	25-300	60-125
		607-311-323					
		607-321-323					
		607-321-422					
		607-351-423					
		336-890-167					
		336-890-168					
		336-890-169					
214	SAMS	SAMS-1	3	HH	Es,OPD,SAR	100-300	120-125
215	MSA		5	FF	Es,OPD,SAR	25-300	65-85
		485525* thru 485528*					
		485532* thru 485535*					
218	Respiratory Systems	500	5	FF	Es,OPD,SAR	6	65-85
						25	65-85
						50	65-85
						75	70-85
						100	70-85
						150	70-85
						200	75-85
						250	75-85
219	Respiratory Systems	1000	10	FF	Es,OPD,SAR		
						25	65-85
						50	65-85
						75	70-85
						100	70-85
						150	70-85
						200	75-85
						250	75-85

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face-piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
221	National Draeger	4060837 thru 4050848	15	FF	OPD, SAR	25-300	90-120
222	National Draeger	4050849 thru 4050860 4050877 thru 4050912	30	FF	OPD, SAR	25-300	90-120
223	National Draeger	4050913 thru 4050936	30	FF	OPD, SAR	25-300	90-120
224	National Draeger	4050937 thru 4050960	45	FF	OPD, SAR	25-300	90-120
225	National Draeger	4050961 thru 4050972	60	FF	OPD, SAR	25-300	90-120
227	National Draeger	4059384 thru 4059388 4059390 thru 4059395 4059397 thru 4059402 4059404 thru 4059409 4059411 4052915	5	FF	Es,OPD,SAR	25-300	90-120
230	Globe	2805W 2905W	15	FF	Es,OPD,SAR	25-200	70-85
234	ISI	707.149.02	45	FF	OPD,SAR	25-300	80-120
235	ISI	707.149.00	60	FF	OPD,SAR	25-300	80-120
236	ISI	707.149.01 707.149.04	30	FF	OPD,SAR	25-300	80-120
237	ISI	707.149.03	30	FF	OPD,SAR	25-300	80-120
238	ISI	707.150.00/.01/.02	30	FF	OPD,SAR	25-300	80-120
240	Survivair	9884-50	5	FF	Es,OPD,SAR	10-300	75-125

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face-piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
247	MSA	476190 478191 489004 489003	8	FF	ES,OPD,SAR (6 sections) 50-300 (12 sections) 8-300 With Vortex (4 sections) 8-100	Without Vortex 85-90 85-90 85-90	
248	MSA	489039 489040	4	FF	Es,OPD,SAR	8-200	90-95
249	MSA	489045 489046	8	FF	Es,OPD,SAR	8-200	90-95
251	MSA	494110 thru 494123 494125 thru 494138 494145 thru 494158 494160 thru 494173	5	FF	OPD,SAR	8-300	65-85
252	MSA	493668 thru 493681 493683 thru 493684 493980 thru 493991 494038 thru 494051 494053 thru 494066	5	FF	OPD,SAR	8-300	65-85
253	MSA	494073/494074 494076/494077 494079/494080 494082/494083	5	FF	OPD,SAR	8-300	65-85
259	Globe	269-00-00 269-00-01	5	FF	(1840 series) Es,OPD,SAR (1860 series) 25-300	25-200 95-110	95-110
260	MSA	495634 495554	15	FF	OPD,SAR	8-300	85-90
261	Breathing Systems	CT-2000	5	FF	OPD,SAR	80-150	120-125

Gas Masks (14G)

B. Gas Masks

1. Ammonia

Approval

Approved for respiratory protection against ammonia.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types.

Follow the manufacturer's instructions for changing canisters.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

GAS MASKS - AMMONIA

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
88	MSA	448979 thru 448982	Fm	FF	D,M	
93	Willson	2164F* 2264F*	Fm	FF	D,F,M	MA
96	MSA	465331 465327 471839 471840	Bm	FF	H,A	OV/CO/AG
101	MSA	448926 thru 448931 448936 thru 448939	Bm	FF	D,M	
103	Scott	6030-1104* 6030-1204* 6030-2104* 6030-2204* 6030-3104* 6030-3204* 6030-4104* 6030-4204* 6030-5104* 6030-5204* 63-AM 63F-AM 63FG-AM 63R-AM 63S-AM 63XL-AM 63RV-AM A63-AM A63S-AM A63XL-AM	Fm	FF	D,M	MA
111	North	7604L*/LS*/LN*/SLN*	Fm	FF		
112	MSA	469039 469040	Fm	FF	D,F,M	OV/Cl
121	Pirelli	4333.2012	Fm	FF		

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
126	MSA	472884 472885	Fm	FF	D,M	
			Combination Type C, CF 35-40 psig; 25-300 ft hose			
128	Pirelli	4333.2015	Fm	FF	H	
132	Racal	BE 3/K BE 7/K	PAPR	FF		MA
137	MSA	478120 478121 480949 480955 480961 480967 480973 480979 480985 480991 480997 481003 481009 481015 481021 481027 481033 481039	SAR Combination Type CE, CF 35-40 psig, 8-300 ft hose	FF		
140	Scott	63-OAAM 63R-OAAM 63S-OAAM 63F-OAAM 63FG-OAAM 63XL-OAAM 63RV-OAAM A63-OAAM A63S-OAAM A63XL-OAAM	Rp,Fm	FF	D,M	OV/Cl/HCl MA/H2S
144	Willson	6664F/S6664F 6764F/S6764F W6664F/W6764F	Fm	FF	DFM	MA

GAS MASKS - AMMONIA

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
148	MSA	483875	Rp,Bm	FF Combination Type C, CF Hose Length feet: 8-300	DM Air Press. psig: 35-40	OV/Cl
151	MSA	484425	Bm	FF Combination Type C, Pd Hose Length feet: 8-300	DM Air Press. psig: 65-85	
157	MSA	484430	Bm	FF Combination Type C, Pd Hose Length feet: 8-300	DM Air Press. psig: 65-85	OV/Cl
163	Pulmosan	1964F	Fm	FF	DFM	MA
166	MSA	489956* 489964* 489972	Bm	FF Comb. Type C, CF Hose Length feet: 8 - 300	DM Press. Range psig: 85 - 100	
171	MSA	489961* 489969* 489977	Fm	FF Comb. Type C, CF Hose Length feet: 8 - 300	DM Press. Range psig: 85 - 100	OV/Cl

2. Chlorine

Approval

Approved for respiratory protection against chlorine.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types and page 9 for gas and vapor.

Follow the manufacturer's instructions for changing canisters.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

GAS MASKS - CHLORINE

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
89	MSA	460131 thru 460134	Fm	FF	D,M	
95	Willson	2162F* 2262F*	Fm	FF	D,F,M	
98	MSA	460125 thru 460130	Bm	FF	D,M	OV/H2S/PH3
102	Scott	6030-1108* 6030-1208* 6030-2208* 6030-2108* 6030-3108* 6030-3208* 6030-4108* 6030-4208* 6030-5108* 6030-5208*	Fm	FF	D,M	
105	MSA	466225* 466226*	Fm	FF	H,A	
106	MSA	466231 466232	Fm	FF	H	
112	MSA	469039 469040	Fm	FF	D,F,M	OV/NH3
113	MSA	468921	SAR (combination Type C, CF 35-40 psig; 25-300 ft. hose)	ON	H,A	
114	MSA	468922	SAR (combination type C, CF 35-40 psig; 25-300 ft. hose)	ON	H,A	
118	Scott	6030-1175* 6030-1275* 6030-2175*/6030-2275* 6030-3175*/6030-3275* 6030-4175*/6030-4275* 6030-5175*/6030-5275* 63-TEDA-H 63F-TEDA-H 63FG-TEDA-H	Fm	FF	H	

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other Gas and Vapor Approval
118 Cont.		63R-TEDA-H 63S-TEDA-H 63XL-TEDA-H 63RV-TEDA-H A63-TEDA-H A63S-TEDA-H A63XL-TEDA-H				
123	Racal	BE3/B* BE7/B*	PAPR, FF	FF		HCl
130	Scott	63-Cl 63F-Cl 63FG-Cl 63R-Cl 63S-Cl 63XL-Cl 63RV-CL A63-CL A63S-CL A63XL-CL	Fm	FF	D,M	HCl/H2S CH2-O
131	Scott	63Cl-H 63F-Cl-H 63FG-Cl-H 63R-Cl-H 63S-Cl-H 63XL-Cl-H 63RV-Cl-H A63-Cl-H A63S-Cl-H A63XL-Cl-H	Fm	FF	H,R,A	HCl/H2S CH2-O
140	Scott	63-OAAM 63R-OAAM 63S-OAAM 63F-OAAM 63FG-OAAM 63XL-OAAM 63RV-OAAM A63-OAAM A63S-OAAM A63XL-OAAM	Rp,Fm	FF	D,M	OV/MA/HCl NH3/H2S
143	Willson	6662F/S6662F 6762F/S6762F W6662F/W6762F	Fm	FF	DFM	

GAS MASKS - CHLORINE

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
147	MSA	483874	Rp,Bm	FF Combination Type C, CF Hose Length feet: 8-300 Air Press. psig: 35-40	DM	
148	MSA	483875	Rp,Bm	FF Combination Type C, CF Hose Length feet: 8-300 Air Press. psig: 35-40	DM	OV, NH3
153	MSA	484429	Bm	FF Combination Type C, Pd Hose Length feet: 8-300 Air Press. psig: 65-85	DM	
157	MSA	484430	Bm	FF Combination Type C, Pd Hose Length feet: 8-300 Air Press. psig: 65-85	DM	OV/NH3
158	MSA	488063 488064 487203 487473	Fm,Bm	FF	DM	H2S/OV/PH3
162	Pulmosan	1962F	Fm	FF	DFM	
170	MSA	489960* 489968* 489976	Bm	FF Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100	DM	
171	MSA	489961* 489969* 489977	Bm	FF Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100	DM	OV/NH3

3. Sulfur Dioxide

Approval

Approved for respiratory protection against sulfur dioxide.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types.

Follow the manufacturer's instructions for changing canisters.

Do not use in concentrations which generate high heats of reaction with sorbent material.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

GAS MASKS - SULFUR DIOXIDE

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
92	MSA	461133/461134 461140/461141	Fm	FF	D,M	

4. Acid Gases

Approval

Approved for respiratory protection against acid gases.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types.

Follow the manufacturer's instructions for changing canisters.

Do not use in concentrations which generate high heats of reaction with sorbent material.

Not for use against gases and vapors with poor warning properties.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

GAS MASKS - ACID GAS

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
96	MSA	465331 465327 471839/471840	Bm	FF	H,A	OV/CO/AG
100	MSA	460119 thru 460124	Bm	FF	D,M	OV/HCN
107	MSA	466227 466351 466228 466350	Fm	FF	D,M	OV
127	Willson	2165* 2265*	Fm	FF	D,M	OV
129	Scott	63-OA 63F-OA 63FG-OA 63R-OA 63XL-OA 63S-OA 63RV-OA A63-OA A63S-OA A63XL-OA	Fm	FF	D,M	OV/H2S CH2-O
133	Racal	BE 3/E BE 7/E	PAPR, FF	FF		
145	Willson	6665/S6665 6765/S6765 W6665/W6765	Fm	FF	DM	OV
149	MSA	483873	Rp,Bm	FF Combination Type C, CF Hose Length feet: 8-300 Air Press. psig: 35-40	DM	OV
155	MSA	484428	Bm	FF Combination Type C, Pd Hose Length feet: 8-300 Air Press. psig: 65-85	DM	OV

GAS MASKS - ACID GAS

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
164	Pulmosan	1965	Fm	FF	DM	OV
169	MSA	489959* 489967* 489975	Bm Comb. Type C, CF	FF Hose Length feet 8 - 300	DM Press. Range psig 85 - 100	OV

5. Organic Vapors

Approved for respiratory protection against organic vapors.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types.

Follow the manufacturer's instructions for changing canisters.

Do not wear for protection against gases or vapors with poor warning properties or those which generate high heats of reaction with sorbent materials in the canister.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DF Approval	Other gas Mand Vapor Approval
86	MSA	448983 thru 448986	Fm	FF	H,A	Pest
87	MSA	448975 thru 448978	Fm	FF	D,M	
96	MSA	465331 465327 471839/471840	Bm	FF	H,A	NH3/CO/AG
97	MSA	448932 thru 448935 448920 thru 448925	Bm	FF	D,M	
98	MSA	460125 thru 460130	Bm	FF	D,M	Cl/H2S/PH3
99	MSA	448940 thru 448943	Bm	FF	H	Pest
100	MSA	460119 thru 460124	Bm	FF	D,M	AG/HCN
104	Scott	6030-1113* 6030-1213* 6030-2113* 6030-2213* 6030-3113* 6030-3213* 6030-4113* 6030-4213* 6030-5113* 6030-5213* 63-OV 63F-OV 63FG-OV 63R-OV 63S-OV 63XL-OV 63RV-OV A63-OV A63S-OV A63XL-OV	Fm	FF	D,M	

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
107	MSA	466227 466351 466228 466350	Fm	FF	D,M	AG
108	MSA	466229 466230	Fm	FF	H,A	
110	North	7601L*/LN*/LS*/LSN*	Fm	FF		
112	MSA	469039 469040	Fm	FF	D,F,M	NH3/Cl
115	MSA	469268 469269	Fm (combination Type C, CF 35-40 psig; 8-300 ft. hose)	FF	H,A	
116	MSA	469270 490546	Fm, Es Combination Type C, CF 35-40 psig; 8-300 ft. hose)	ON	H,A	
117	Scott	6030-1157* 6030-1257* 6030-2157* 6030-2257* 6030-3157* 6030-3257* 6030-4157* 6030-4257* 6030-5157* 6030-5257* 63-OV-H 63FG-OV-H 63F-OV-H 63R-OV-H 63S-OV-H 63XL-OV-H 63RV-OV-H A63-OV-H A63S-OV-H A63XL-OV-H	Fm	FF	H	Pest
119	Pirelli	4333.2011	Fm	FF		
120	Pirelli	4333.2014	Fm	FF	H	

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
122	Racal	BE 3/A BE 7/A	PAPR, FF	FF		
124	MSA	472886 472887	SAR	FF	H,A	Pest
			Combination Type C, CF 35-40 psig and hose length 8-300 feet			
125	MSA	472882 472883	SAR	FF	D,M	AG
			Combination Type C, CF 35-40 psig; hose length 8-300 feet			
127	Willson	2165* 2265*	Fm	FF	D,M	AG
129	Scott	63-OA 63F-OA 63FG-OA 63R-OA 63S-OA 63XL-OA 63RV-OA A63-OA A63S-OA A63XL-OA	Fm	FF	D,M	AG/CH2-O H2S
136	MSA	478118 478119 480948 480954 480960 480966 480972 480978 480984 480990 480996 481002 481008 481014 481020 481026 481032 481038	SAR Combination Type CE, CF 8-300 ft hose, 35-40 psig	FF	D,M	

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
138	MSA	478122	SAR	FF	H,A	Pest
		478123	Combination Type CE, CF			
		480950	8-300 ft hose, 35-40 psig			
		480956				
		480960				
		480962				
		480968				
		480998				
		481004				
		481022				
		481028				
		480974				
		480980				
		480986				
		480992				
		481010				
		481016				
		481034				
		481040				
139	MSA	478124	SAR	FF	H,A	
		478125	Combination type CE, CF			
		480951	35-40 psig, 8-300 ft hose			
		480957				
		480963				
		480969				
		480993				
		481011				
		481023				
		481029				
		481041				
		480975				
		480981				
		480987				
		480999				
		481017				
		481005				
		481035				
140	Scott	63-OAAM	Rp,Fm	FF	D,M	MA/Cl/HCl
		63R-OAAM				NH3/H2S
		63S-OAAM				
		63F-OAAM				
		63FG-OAAM				
		63XL-OAAM				
		63RV-OAAM				
		A63-OAAM				
		A63S-OAAM				
		A63XL-OAAM				

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
141	National Draeger	4052215 4052216	Rp,Fm	FF	H	
142	Willson	6661F/S6661F 6761F/S6761F W6661F/W6761F	Fm	FF	DFM	Pest
145	Willson	6665/S6665 6765/S6765 W6665/W6765	Fm	FF	DM	AG
148	MSA	483875	Rp,Bm	FF Combination Type C, CF Hose Length feet: 8-300 Air Press. psig: 35-40	DM	Cl/NH3
149	MSA	483873	Rp,Bm	FF Combination Type C, CF Hose Length feet: 8-300 Air Press. psig: 35-40	DM	AG
150	MSA	484424	Bm	FF Combination Type C, Pd Hose Length feet: 8-300 Air Press. psig: 65-85	DM	
152	MSA	484426	Bm	FF Combination Type C, Pd Hose Length feet: 8-300 Air Press. psig: 65-85	HA	Pest
154	MSA	484427	Bm	FF Combination Type C, Pd Hose Length feet: 8-300 Air Press. psig: 65-85	HA	

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
155	MSA	484428	Bm	FF Combination Type C, Pd Hose Length feet: 8-300	DM Air Press. psig: 65-85	AG
157	MSA	484430	Bm	FF Combination Type C, Pd Hose Length feet: 8-300	DM Air Press. psig: 65-85	Cl/NH3
158	MSA	488063 488064 487203 487473	Fm,Bm	FF	DM	Cl/H2S/PH3
161	Pulmosan	1961F	Fm	FF	DFM	Pest
164	Pulmosan	1965	Fm	FF	DM	AG
165	MSA	489955* 489963* 489971	Bm	FF Comb. Type C, CF Hose Length feet: 8 - 300	DM Press. Range psig: 85 - 100	
167	MSA	489957* 489965* 489973	Bm	FF Comb. Type C, CF Hose Length feet: 8 - 300	HA Press. Range psig: 85 - 100	Pest
168	MSA	489958* 489966* 489974	Bm	FF Comb. Type C, CF Hose Length feet: 8 - 300	HA Press. Range psig: 85 - 100	
169	MSA	489959* 489967* 489975	Bm	FF Comb. Type C, CF Hose Length feet: 8 - 300	DM Press. Range psig: 85 - 100	AG

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
171	MSA	489961* 489969* 489977	Bm	FF Comb. Type C, CF Hose Length feet 8 - 300	DM Press. Range psig 85 - 100	Cl/NH3

6. Carbon Monoxide

Approval

Approved for respiratory protection against carbon monoxide.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types.

Follow the manufacturer's instructions for changing canisters.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

GAS MASKS - CARBON MONOXIDE

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
82	MSA	455299 (W65)	Es	M		
83	Drager	FSR810* FSR910*	Es	M		
96	MSA	465331 465327 471839/471840	Bm	FF	H,A	NH3/OV/AG
173	Drager	FSR950	Es	MP		

7. Pesticides

Approval

Approved for respiratory protection against pesticides.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types.

Follow the manufacturer's instructions for changing canisters.

Do not wear for protection against gases or vapors with poor warning properties or those which generate high heats of reaction with sorbent materials in the canister.

Not approved for fumigants.

Refer to pesticide label for limitations on respirator use.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

GAS MASKS - PESTICIDE

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
86	MSA	448983 thru 448986	Fm	FF	H,A	OV
94	Willson	2161F* 2261F*	Fm	FF	D,F,M	OV
99	MSA	448940 thru 448943	Bm	FF	H	OV
117	Scott	6030-1157* 6030-1257* 6030-2157*/6030-2257* 6030-3157*/6030-3257* 6030-4157*/6030-4257* 6030-5157*/6030-5257* 63-OV-H 63F-OV-H 63FG-OV-H 63R-OV-H 63S-OV-H 63XL-OV-H 63RV-OV-H A63-OV-H A63S-OV-H A63XL-OV-H	Fm	FF	H	OV
124	MSA	472886	SAR	FF	H,A	OV
				Combination Type C, CF Hose Length feet: 8-300 Air Press. psig: 35-40		
138	MSA	478122 480950 480956 480962 480968 480974 480980 480986 480992 480998 481004 481010 481016 481022	SAR	FF	H,A	OV
			Combination Type C, CF Hose Length feet: 8-300	Air Press. psig: 35-40		

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
138 Cont.		481028 481034 481040				
142	Willson	6661F/S6661F 6761F/S6761F W6661F/W6761F	Fm	FF	DFM	OV
152	MSA	484426	Bm	FF Combination Type C, Pd Hose Length feet: 8-300 Air Press. psig: 65-85	HA	OV
161	Pulmosan	1961F	Fm	FF	DFM	OV
167	MSA	489957* 489965* 489973	Fm	FF Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 150	HA	OV

8. Other gases and vapors

Approval

See approval labels for approved maximum use concentration and for specific limitations.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types.

Follow the manufacturer's instructions for changing canisters.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

GAS MASKS - OTHER GASES AND VAPORS - VINYL CHLORIDE

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other Gas and Vapor Approval
84	MSA	461481 thru 461486	Bm	FF		
85	Scott	601211-17* 601221-17* 601111-17* 601121-17* 601511-17* 601521-17*	Bm	FF		
91	North	7820*/S*/N*/SN* 7829*/S*/N*/SN*	Bm	FF		

GAS MASKS - OTHER GASES AND VAPORS - PHOSPHINE

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other Gas and Vapor Approval
98	MSA	460125 thru 460130	Bm	FF	D,M	OV/H2S/Cl
158	MSA	488063 488064 487203 487473	Fm,Bm	FF	D,M	OV/H2S/Cl

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other Gas and Vapor Approval
98	MSA	460125 thru 460130	Bm	FF	D,M	OV/PH3/Cl
129	Scott	63-OA 63F-OA 63FG-OA 63R-OA 63S-OA 63XL-OA 63RV-OA A63-OA A63S-OA A63XL-OA	Fm	FF	D,M	OV/AG/ CH2-O
130	Scott	63-Cl 63F-Cl 63FG-Cl 63R-Cl 63S-Cl 63XL-Cl 63RV-Cl A63-Cl A63S-Cl A63XL-Cl	Fm	FF	D,M	Cl/HCl CH2-O
131	Scott	63Cl-H 63F-Cl-H 63FG-Cl-H 63R-Cl-H 63S-Cl-H 63XL-Cl-H 63RV-Cl-H A63-Cl-H A63S-Cl-H A63XL-Cl-H	Fm	FF	H,R,A	Cl/HCl CH2-O
140	Scott	63-OAAM 63R-OAAM 63S-OAAM 63F-OAAM 63FG-OAAM 63XL-OAAM 63RV-OAAM A63-OAAM A63S-OAAM A63XL-OAAM	Rp,Fm	FF	D,M	OV/Cl/HCl NH3/MA

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other Gas and Vapor Approval
158	MSA	488063 488064 487203 487473	Fm,Bm	FF	D,M	Cl/OV/PH3

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other Gas and Vapor Approval
123	Racal	BE3/B* BE7/B*	PAPR	FF		Cl
130	Scott	63-Cl 63F-Cl 63FG-Cl 63R-Cl 63S-Cl 63XL-Cl 63RV-Cl A63-Cl A63S-Cl A63XL-Cl	Fm	FF	D,M	Cl/H2S CH2-O
131	Scott	63Cl-H 63F-Cl-H 63FG-Cl-H 63R-Cl-H 63S-Cl-H 63XL-Cl-H 63RV-Cl-H A63-Cl-H A63S-Cl-H A63XL-Cl-H	Fm	FF	H,R,A	Cl/H2S CH2-O
140	Scott	63-OAAM 63R-OAAM 63S-OAAM 63F-OAAM 63FG-OAAM 63XL-OAAM 63RV-OAAM A63-OAAM A63S-OAAM A63XL-OAAM	Rp,Fm	F	D,M	OV/Cl/NH3 MA/H2S

GAS MASKS - OTHER GASES AND VAPORS - ETHYLENE OXIDE

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other Gas and Vapor Approval
134	MSA	474143 474144	FM	FF	D,M	

GAS MASKS - OTHER GASES AND VAPORS - HYDROGEN FLUORIDE

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other Gas and Vapor Approval
135	MSA	476451 476453	Fm	FF	H,A	
146	MSA	483876	Rp,Bm	FF Combination Type C, CF Hose Length feet 8-300	HA Air Press. psig 35-40	
156	MSA	484431	Bm	FF Combination Type C, Pd Hose Length feet 8-300	HA Air Press. psig 65-85	
172	MSA	489962 489970 489978	Bm	FF Comb. Type C, CF Hose Length feet 8 - 300	HA Press. Range psig 85 - 100	

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other Gas and Vapor Approval
129	Scott	63-OA 63F-OA 63FG-OA 63R-OA 63S-OA 63XL-OA 63RV-OA	Fm	FF	D,M	H2S/OV AG
130	Scott	63-Cl 63F-Cl 63FG-Cl 63R-Cl 63S-Cl 63XL-Cl 63RV-Cl	Fm	FF	D,M	H2S/HCl Cl
131	Scott	63-Cl-H 63F-Cl-H 63FG-Cl-H 63R-Cl-H 63S-Cl-H 63XL-Cl-H 63RV-Cl-H	Fm	FF	H,R,A	H2S/HCl Cl

GAS MASKS - OTHER GASES AND VAPORS - METHYLAMINE

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other Gas and Vapor Approval
93	Willson	2164F	Fm	FF	DFM	NH3
103	Scott	63-AM 63F-AM 63FG-AM 63R-AM 63S-AM 63XL-AM 63RV-AM A63-AM A63S-AM A63XL-AM	Fm	FF	DM	NH3
132	Racal	BE 3/K BE 7/K	PAPR	FF		NH3
140	Scott	63-OAAM 63R-OAAM 63S-OAAM 63F-OAAM 63FG-OAAM 63XL-OAAM 63RV-OAAM A63-OAAM A63S-OAAM A63XL-OAAM	Rp,Fm	FF	D,M	OV/Cl/HCl NH3/H2S
144	Willson	6664F/S6664F 6764F/S6764F W6664F/W6764F	Fm	FF	DFM	NH3
163	Pulmosan	1964F	Fm	FF	DFM	NH3

GAS MASKS - OTHER GASES AND VAPORS - HYDROGEN CYANIDE (ESCAPE ONLY)

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other Gas and Vapor Approval
100	MSA	460119 thru 460124	Bm	FF	DM	OV/AG

GAS MASKS - OTHER GASES AND VAPORS - ALPHA CHLOROACETOPHONE

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other Gas and Vapor Approval
159	Def-Tec	487314* thru 487316* 487318* thru 487319* 487323* thru 487328* 488222* thru 488227* 488231* thru 488236* 1407/S/L 1488 thru 1593 1622 thru 1645	Fm	FF	HA	
160	MSA	487320 thru 487322 487329 thru 487331 488228 thru 487230 488237 thru 488239 491962 thru 491964 491971 thru 491974 491980 thru 491982 491989 thru 491991	Fm	FF	HA	

GAS MASKS - OTHER GASES AND VAPORS - HYDROGEN FLUORIDE

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other Gas and Vapor Approval
172	MSA	489962* 489970* 489978	Bm	FF Comb. Type C, CF Hose Length feet 8 - 300	HA Press. Range psig 85 - 100	

Supplied Air Respirators (19C)

C. Supplied Air Respirators

1. Type C Continuous Flow

Approval

Approved for respiratory protection against atmospheres not immediately dangerous to life or health. Respirator only approved when used with respirable air.

Limitations

Not for use in atmospheres containing less than 19.5 percent oxygen.

Use only the hose lengths and pressure ranges specified on the approval label.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

SUPPLIED AIR RESPIRATORS - TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
64	Cesco	PI-800-AA PI-800-/DA/NA/AAHF	Bm	HH	15-50 75-100	6-17 7-20
64	US Safety	PI-800-AA PI-800-DA/-NA/-AAHF	Bm	HH	15-50 75-100	6-17 7-20
64	Wheeler Protective Apparel	17032 17032A 17036 17036H	Bm	HH	15-50 75-100	6-17 7-20
65	Survivair	9011-12 9811-12	Fm	FF	4-250	50-125
66	Survivair	9011-14 9811-14	Fm	FF	4-250	50-125
67	Survivair	9011-13 9811-13/16	Fm	FF	4-250	50-125
68	Survivair	9011-15 9811-15/17	Fm	FF	4-250	50-125
69	3M	W-280-100/50/25 W-283-100/50/25* W-286-100/50/25 W-292-100/50/25* W-308-100/50/25 W-313-100/50/25 W-314-100/50/25 W-318-100/50/25 W-321-100*S/M/L W-321-25*S/M/L W-321-50*S/M/L W-329-100/50/25 W-332-100/50/25 W-335-100/50/25 W-338-100/50/25 W-346-100/50/25 W-352-100/50/25 W-368-25/50/100 W390 W394 W398 W-371-25/50/100	Bm	HH	25 & 50 100 200 300	25-35 30-45 35-60 40-75

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
69 Cont.		W-810-100/50/25				
		W-840-100/50/25				
		W-856-100L/M/S*				
		W-856-25L/M/S				
		W-856-50L/M/S				
		W-858-100/50/25				
		W-870-100/50/25				
69	Pauli	W-858-100/50/25				
	& Griffin*	"				
	Clemco*	"				
	Bowen Tools*	"				
	Empire Abrasive*	"				
	Kelco Sales*	"				
	Pangborn*	"				
70	3M		Bm	HH	25-100	60-80
		W-281-100/50/25			100-200	80-100
		W-284-100/50/25*			200-300	85-100
		W-287-100/50/25				
		W-293-100/50/25*				
		W-310-100/50/25				
		W-311-100/50/25				
		W-315-100/50/25				
		W-317-100/50/25				
		W-322-100/50/25L				
		W-322-100/50/25M				
		W-322-100S*/50S*/25S*				
		W-328-100/50/25				
		W-330-100/50/25				
		W-333-100/50/25				
		W-336-100/50/25				
		W-347-25/50/100				
		W-354-25/100/50				
		W-369-25/50/100				
		W-372-25/50/100				
		W-820-100/50/25				
		W-880-100/50/25				
		W-881-100/50/25L/M				
		W-881-100/50/25S*				
		W-888-100/50/25*				
		W-890-100/50/25				
		W389				
		W393				
		W397				
	Pauli	W-888-100/50/25				
	& Griffin	"				
	Clemco	"				
	Bowen Tools	"				
	Empire Abrasive	"				

SAR RESPIRATORS - TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
70 Cont.	Kelco Sales	"				
	Pangborn	"				
71	Scott	4616-11/12/15 4616-21/22/25 4622-11/12/15/21/22/25	Bm	FF	15-50 50-250	12-25 25-40
72	Scott	4616-18/19/28/29 4622-18/19/28/29	Bm	FF	15-50 50-250	6-16 16-22
73	Scott	802230 Ser.	Fm	FF	3-250	60-125
78	MSA	460862 thru 460865 461708 461717 thru 461719 469716/469717 469720/469721 475146 thru 475149 480464 thru 480467 480600 480629 thru 480636 480671/480672 480481 480483 480663/480664 480667/480668 490780 thru 490785 490851 thru 490857	Bm	ON,FF	8-300	35-40
80	MSA	460903 thru 460906 461709 thru 461712 480601/480602 480673 thru 480676	Bm	HH	8-300	55-60
81	MSA	460907 thru 460910 461713 thru 461716	Bm	HH	8-300	55-60
82	Pulmosan	AL180-10168*	Bm	FF	15-50	6-8

SAR RESPIRATORS - TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
83	Willson	1810-A/B/C/D/E 1810* 1820* 1820-A/B/C/D/E*	Bm	ON	15-100 100-300	10-32 21-50
84	Bullard	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Anderson	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Bowen	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Quaker State	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Pauli and Griffin	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Empire	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Kelco	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Marthens	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Ace	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95

SAR RESPIRATORS - TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
84	Clemtex	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	A-BEC	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Schmidt	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Matfer	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Air Components	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Porter Warner	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Clark Sand	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Sulliblast	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Key Houston	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
85	Clemco	46(PCE)	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95

SAR RESPIRATORS - TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
86	Cabot Safety	R6099*	Bm	ON	12.5-75	7-15
		R5099*			100-175	13-25
		S5099*			200-300	18-35
		S6099*				
87	3M		Bm	HH	25-100	60-70
		W-270-100/50/25			100-200	80-100
		W-271-100/50/25			200-300	85-100
		W-272-100/50/25				
		W-274-100/50/25L/M/				
		W-274-100/50/25S*				
		W-277-S/M/L*				
		W-282-100/50/25				
		W-285-100/50/25*				
		W-288-100/50/25				
		W-294-100/50/25*				
		W-309-100/50/25				
		W-312-100/50/25				
		W-319-100/50/25				
		W-320-100/50/25M/L				
		W-320-100/50/25S*				
		W-323-100/50/25				
		W-327-100/50/25				
		W-331-100/50/25				
		W-334-100/50/25				
		W-337-25/50/100				
		W-348-25/50/100				
		W-353-25/50/100				
		W-370-25/50/100				
		W-373-25/50/100				
		W388				
		W392				
		W396				
87	Pangborn*	W-271-100/50/25				
	Pauli&Griffin*	"				
	Bowen Tools*	"				
	Clemco*	"				
	Empire Abrasive*	"				
	Kelco*	"				
88	Binks	40-160	Bm	ON	8-300	35-40
		40-200/220/240/260/280/300/320				
		40-571/573/575/577/579/581/583/585				
89	Cabot Safety	R56001	Bm	HH	12.5-25	10-20
					50-100	18-32
					125-200	25-40
					225-300	35-60

SAR RESPIRATORS - TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
92	Globe	2185-6 2185-4	Fm	FF	25-200	60-70
94	Willson	1850* 1860* 1850A/B/C/D/E 1860A/B/C/D/E*	Bm	FF	15-100 100-300	11-32 21-50
95	Pulmosan	10159* 10237* 11033 AL330*	Bm	ON	15-50	6-9
96	Cesco	801-AA/DA/NA/AAHF	Bm	HH	15-100	60-100
96	US Safety	801-AA/DA/NA/AAHF	Bm	HH	15-100	60-100
96	Wheeler Protective Apparel	17232 17232H 17236 17236H	Bm	HH	15-100	60-100
97	Scott	802280-01 802280-02/05/06/09/10/13/14	Fm	ON	3-250	60-125
102	Bullard	999-3*/-4* 999-5*/6* 999-7*/-8*	Bm	HH	25-100 25-100 100 only	12-25 80-100 8-15
102	Anderson	999-3/-4/-5 999-7/-8	Bm	HH 10-100 100 only	10-100 80-100 8-15	12-25
102	Bowen	999-3/-4/-5 999-7/-8	Bm	HH 10-100 100 only	10-100 80-100 8-15	12-25
102	Pauli & Griffin	999-3/-4/-5 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15

SAR TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
102	Empire	999-3/-4/-5 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Deane	999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Kelco	999-3/-4/-5 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Titan	999-3/-4/-5 999-6/-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	A-BEC	999-3/-4 999-5/-6	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Schmidt	999-3/-4 999-5/-6	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Key Houston	999-3/-4/-5 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Clemco	999-3/-4/-5 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Binks	999-3/-4/-5 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Air Components	999-3/-4/-5 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Ace	999-3/-4/-5 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15

SAR TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
102	Clemtex	999-3/-4/-5 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Sulliblast	999-3/-4 999-5/-6	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
103	MSA	463925/463926 463970 463973/463974 463983 463986/463987 480495 480497 480499 480714 480716 480718 480489 480491 480701 480703 480705 480707	Bm	HH	8-300	55-60
104	MSA	463971/463972 463975/463976 463984/463985 463988/463989 480496 480498 480713 480715 480717 480719 480490 480492 480702 480704 480706 480708	Bm	HH	8-50	16-20

SAR TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
					3/8 inch I.D.	
109	North	85100	Bm	ON	12.5-25	8- 9
		85101* thru			50-75	10-11
		85126*			100-150	12-13
					175-300	17-18
					1/2 inch I.D.	
					12.5-25	5-15
					50-100	6-17
					125-200	8-22
					225-300	9-28
					3/8 inch I.D.	
110	North	85200 series	Bm	FF	12.5	8-9
		85201* thru			25-75	10-11
		85225*			75-150	12-13
					175-300	17-18
					1/2 inch I.D.	
					12.5 - 25	5-15
					50 - 100	6-17
					125-200	8-22
					225-300	9-28
111	Cabot Safety	50733*	Bm	FF	25	8-11
		50734*			50-75	11-15
					100-125	14-18
					150-200	18-23
					225-300	21-28
112	Glendale	GR5000	Bm	ON,FF	25-300	30-35
		GR6000*				
		GR6000S				
		GR6000N				
113	MSA	463277	Bm	FF	8-50	10-15
		463281				
		463297 thru 463302				
		469718/469719				
		469722/469723				
		475148/475149				
		480472 thru 480475				
		480482				
		480484				
		480637 thru 480646				
		480665/480666				
		480669/480670				
		490785 thru 490790				
		490858 thru 490860				

SAR TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
114	Binks	40-140 40-210/230/250/270/290/310/330 40-572/574/576/578/580/582/584/586	Bm	FF	8-50	10-15
115	MSA	463293 463294 463305 thru 463310 480650 480655 thru 480660 480470 480477 thru 480479	Bm	HH	8-50	16-20
118	MSA	463927/463928 463977/463978	Bm	HH	8-300	75-100
120	Defense Apparel-Nucon Products	HSQ-10	Bm	HH	50-100 100	25-35 35-50
121	US Safety	152	Bm	ON	25-300	35-40
122	Cesco	97	Bm	ON	25-300	35-40
123	3M	W-298/25/50/100 W-378/25/50/100	Bm	ON	25 50 100	6-16 7-16 11-22
124	Safety and Supply	RC2095ST/SC/HA RC2095G-HA/SC/ST RC2095R-HA/SC/ST RC2095B-HA/SC/ST RC2095W-HA/SC/ST RC-2095GY-HA/SC/S	Bm	HH	25-50 50-100 75-150 100-200 125-250 150-250	18-29 23-36 28-42 32-47 35-51 37-57
124	Trusafe				25-300	38-66
125	DeVilbiss	MPH-532*	Bm	ON	15-100 100-300	10-32 21-50

SAR TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
126	US Safety Service	153	Bm	FF	25-300* 25-50**	35-60 35-60
				*max 7 lengths w/152-25 & 152-50 hose **max 2 lengths of 16261 hose		
127	Cesco	98	Bm	FF	25-300* 25-50**	35-60 35-60
				*max 7 lengths w/152-25 & 152-50 hose **max 2 lengths of 16261 hose		
128	Standard Safety Equipment	SD-5890	Bm	HH	25 50 75 100	10-30 15-35 17-41 20-48
129	MSA	468697	Bm	FF	8-300	35-40
131	Bullard	1414*	Bm	HH	10-100 10-100 100 only	15-25 63-67 8-15
132	Bullard	1515*	Bm	HH	10-100 10-100 100 only	15-25 63-67 8-15
133	Racal	AH30	Bm	HH	25-300	55-70
134	Racal	AH31	Bm	HH	25-300	55-70
135	Racal	AH33	Bm	HH	25-100	25-100
136	Racal	AH32	Bm	HH	25-100	75-120
137	Racal	AC30	Bm	HH	25-300	55-70
138	Racal	AC32	Bm	HH	25-100	75-120

SAR TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
139	Racal	AC38	Bm	HH	25-100	70-115
140	NPO			HH	See Below	
		SAR 100NH-AY/BY/CY/C-1Y/DY				
		SAR 100NH-AG/BG/CG/C-1G/DG				
		SAR 100NH-AB/BB/CB/C-1B/DB				
		SAR 100NH-AR/BR/CR/C-1R/DR				
		SAR 100NH-AC/BC/CC/C-1C/DC				
		SAR 101H-AY/BY/CY/C-1Y/DY				
		SAR 101H-AG/BG/CG/C-1G/DG				
		SAR 101H-AB/BB/CB/C-1B/DB				
		SAR 101H-AR/BR/CR/C-1R/DR				
		SAR 101H-AC/BC/CC/C-1C/DC				
		SAR 102H-AY/BY/CY/C-1Y/DY				
		SAR 102H-AG/BG/CG/C-1G/DG				
		SAR 102H-AB/BB/CB/C-1B/DB				
		SAR 102H-AR/BR/CR/C-1R/DR				
		SAR 102H-AC/BC/CC/C-1C/DC				
		SAR 100NH-1AY/AG/AB/AR/AC				
		SAR 100NH-1C-1Y/C-1G/C-1B/C-1R/C-1C				
		SAR 100NH-1BY/BG/BB/BR/BC				
		SAR 100NH-1DY/DG/DB/DR/DC				
		SAR 100NH-1CY/CG/CB/CR/CC				
		SAR 100NH-2AY/AG/AB/AR/AC				
		SAR 100NH-2BY/2BG/2BB/2BR/2BC				
		SAR 100NH-2DY/DG/DB/DR/DC				
		SAR 100NH-2CY/CG/CB/CR/CC				
		SAR 100NH-2C-1Y/1G/1B/1R/1C				
		SAR 101H-1AY/AG/AB/AR/AC				
		SAR 101H-1DY/DG/DB/DR/DC				
		SAR 101H-1BY/BG/BB/BR/BC				
		SAR 101H-1CY/CG/CB/CR/CC				
		SAR 101H-1C-1Y/1G/1B/1R/1C				
		SAR 101H-2AY/AG/AB/AR/AC				
		SAR 101H-2DY/DG/DB/DR/DC				
		SAR 101H-2CY/CG/CB/CR/CC				
		SAR 101H-2BY/BG/BB/BR/BC				
		SAR 101H-2C-1Y/1G/1B/1R/1C				
		SAR 102H-1AY/AG/AB/AR/AC				
		SAR 102H-1DY/DG/DB/DR/DC				
		SAR 102H-1BY/BG/BB/BR/BC				
		SAR 102H-1CY/CG/CB/CR/CC				
		SAR 102H-1C-1Y/1G/1B/1R/1C				
		SAR 102H-2AY/AG/AB/AR/AC				
		SAR 102H-DY/DG/DB/DR/DC				
		SAR 102H-2BV/BG/BB/BR/BC				
		SAR 102H-2CY/CG/CB/CR/CC				
		SAR 102H-2C-1Y/1G/1B/1R/1C				

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi

140 Cont.

Operating Pressure Ranges (PSIG) for fittings

Length (feet)	No. of Sections	[A]-Foster [C]-Shrader (Scovil) [C-1]-Foster (Schrader)	[B]-Hansen [D]-Snap-Tite [E]-Saflomatic
25-50	1 or 2	20-34	20-37
75-100	1 - 4	25-45	25-40
125-175	2 - 6	30-50	30-45
200-275	2 - 6	38-55	38-55

Operating Pressure Ranges (PSIG) for fittings

Length (feet)	No. of Sections	[G]-CEHN (safety) [H]-CEJN (standard)
15-25	1	9-14
50-75	1 - 3	16-22
100-150	1 - 6	22-35
175-225	3 - 6	30-45
250-300	3 - 6	30-55

A section of coiled hose may be substituted as one of the hose lengths.

141	Racal	AT-30	Bm	HH	25-300	55-70
142	Racal	AT-32	Bm	HH	25-100	80-120
143	Racal	AT-38	Bm	HH	25-100	70-115
144	Mohawk	1010 1020	Bm	HH	50-100	25-35
147	Racal	AH38	Bm	HH	25-100	70-115
150	MSA	471518 471519	Bm	HH	8-50 50-125 125-200 200-300	15±3 20±3 25±3 35±3
151	MSA	471514 471515	Bm	HH	8-50	16-20
152	MSA	471516 471517	Bm	HH	8-300	55-60

SAR TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
153	Racal	AH39	Bm	HH	25-100	70-115
154	Bullard	CC20	N/A	HH	10 only	8-17
					25-100	12-17
					125-200	20-35
					225-300	25-45
					100 only	5-13
					200 only	8-20
					300 only	11-22
			(See approval label for Air Entry Systems)			
					300	11-22
					25-50	15-30
					25-300	80-95
					25-100	18-25
					25-200	80-85
					225-300	90-95
154	DuPont	M-163	N/A		25-50	15-30
155	Bullard	FAM*, FAM-B	N/A	FF or ON	50 only	1.5-6.0
					100 only	2.5-8.0
					150 only	3.5-12.0
					200 only	4.5-14.0
					250 only	5.5-16.0
					300 only	7.0-20.0
155	DuPont	M-162	N/A	FF or ON	50 only	1.5-6.0
					100 only	2.5-8.0
					150 only	3.5-12.0
					200 only	4.5-14.0
					250 only	5.5-16.0
					300 only	7.0-20.0
157*	3M	W-366-25*/50*/100*	Bm	FF	25-50	15-45
					75-100	17-50
					125-200	22-65
					225-300	25-75
159	MSA	474184	Bm	HH	8-300	55-60
160	Lancs		Bm	HH	25-100	18-34
		LI520Y-HA/SC/ST			50-200	25-40
		LI520B-HA,-SC,-ST			75-300	28-48
		LI520G-HA,-SC,-ST			100-300	29-53
		LI520R-HA,-SC,-ST			25-300	31-59

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
160 Cont.		LI520W-YHA/-BHA/-YSC -YST/-BSC/-BST			150-300	32-60
163	3M		Bm	HH	25	4-9
		W356-25/50/100			50	5-11
		W357-25/50/100			100	6-15
		W360-25L/50L/100L				
		W360-25M/50M/100M				
		W361-25/50/100				
		W362-25/50/100				
		W364-25/50/100				
		W374-25/50/100				
		W391-25/50/100				
		W399-25/50/100				
164	Survivair	9850-25	Bm	FF	25	30-60
		9850-40			50	35-70
					75	40-85
					100	45-95
					150	55-110
					200	65-125
					250	75-125
165	Survivair	9850-40*	Bm	FF	25	30-60
					50	35-70
					75	40-85
					100	45-95
					150	55-110
					200	65-125
					250	75-125
166	Willson		Bm	HH	25-300	8-40
		4000A/B/C/D/E				
168	Binks	40-360	Bm	FF	8-150	20-40
		40-370/380/390				
		40-567/568/569/570				
170	Bullard		Bm	FF	25-100	9-22
		M-30/31/32/33/35			125-200	14-40
		M30V/31V/32V/33V			225-300	22-50
					10-100	45-75
					125-300	50-90
171	National Draeger	4052017	Bm	FF	25-300	50-60
		4042025				
		4052034				

SAR TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
171 Cont.		4052037 4052040 4052043 thru 4052045				
172	Survivair	9812-02 9812-22 9812-32 9812-42	Bm	FF	25 50 75 100 150 250	30-60 35-70 40-85 45-95 55-110 65-125
173	Survivair	9813-02 9813-22	Bm	ON	25 50 75 100 150 250	30-60 35-70 40-85 45-95 55-110 65-125
176	MSA	476056 478327	Bm	HH	8-50	16-20
177	MSA	474054 478326	Bm	HH	8-300	55-60
179	Racal	FP30-7	Bm	FF	25-300	55-70
180	Racal	FP30-8	Bm	ON	25-300	55-70
181	Racal	FP32-7	Bm	FF	25-100	75-120
182	Racal	FP38-7	Bm	FF	25-100	70-115
183	Racal	FP32-8	Bm	ON	25-100	75-120
184	Racal	FP38-8	Bm	ON	25-100	70-115
185	Racal	VH30	Bm	HH	25-300	55-70
186	Racal	VH32	Bm	HH	25-100	75-120

SAR TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
187	Racal	VH38	Bm	HH	25-100	75-115
188	Trusafe	WEI-HA WEI-SC WEI-ST WEI-SS	Bm	HH	25-100 (1 section) 50-200 (2 sections) 75-300 (3 sections) 100-300 (4 sections) 125-250 (5 sections) 150-300 (6 sections)	20-35 26-43 36-50 36-56 37-61 38-66
190	Trusafe	ACII-HA/-SC/-ST/-SS WEII-HA/-SC/-ST/-SS	Bm	HH	25-50 (1 section) 50-100 (2 sections) 75-150 (3 sections) 100-200 (4 sections) 125-250 (5 sections) 150-250 (6 sections)	20-35 24-43 30-50 34-56 37-61 38-66
191	US Safety	804-DI 804-DN	Bm	HH	Without Valve 25-50 75-125 150-200 225-300 W/Control Valve 25-50 75-125 150-200 225-300	 15-30 25-45 30-60 40-70 25-30 30-40 35-50 40-60
192	U.S. Safety	805-DI 805-DN	Bm	HH	25-300	85-100
193	U.S. Safety	802-SL 802-WL 802-SN 802-WN	Bm	HH	W/O Valve 25-50 75-125 150-200 225-300 W/Control Valve 25-50 75-125 150-200 225-300	 15-30 25-45 30-60 40-70 25-30 30-40 35-50 40-60
196	North	85300	Bm	HH	1/2" Diameter 12.5-25 50-75 100-150	 4-12 6-14 7-16

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
196 Cont.					175-200	9-18
					225-250	11-20
					275-300	12-22
					3/8" Diameter	
					12.5	6-15
					25	8-17
					50	9-19
					100	15-30
					150	20-35
					200	25-45
					250	28-50
197	U.S. Safety	803-SL/-WL/-SN/-WN	Bm	HH	25-300	85-100
199	3M	W-366-25	Bm	FF	25-50	15-45
		W-366-50			75-100	17-50
		W-366-100			125-200	22-60
					225-300	25-75
200	Neoterik	NP1740-1 thru -15	Bm	HH	25-100 (NP1680)	12-14
		NP1750-1 thru -15			25-300 (NP1681)	25-30
		NP1760-1 thru -15			25-300 (NP1682)	65-75
201	Pulmosan	20330	Bm	HH	15-25	7-9
					50	9-12
					100	7-10
202	Bullard	M-40-30*/-31*/-32*/-33*/-35	Bm	FF	25-300	35-70
		M-40-30V/-31V/-32V/-33V			50-150	6-25
					200-300	8-30
202	DuPont	M-188*	Bm	FF	25-300	35-70
					50-150	6-25
					200-300	8-30
203	Safety Products	AF0306	Bm	HH	25 or 35	55-90
					3/8 inch I.D.	
204	North	85210	Bm	FF	12.5-50	5-15
					75-150	9-24

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
204 Cont.					175-300	15-35
					1/2 inch I.D.	
					12.5 - 50	3-18
					75 - 150	5-22
					175-300	8-27
206	Cabot Safety	R7800	Bm	FF	25	8-29
		S7800	Bm	FF	50	11-35
					75	12-39
					100	12-39
					125	13-42
					150	14-46
					175	15-50
					200	16-53
					225	18-56
					250	19-60
					275	20-61
					300	21-62
207	US Safety	Series 97LP	Bm	ON	50	1.5-7
					100	2.5-11
					150	3.5-15
					200	4.5-18
					250	5.5-21
					300	6.5-24

						R714A	R714B	R714C	R714D
208	Willson	6370-A(S)	Bm	ON	25	5-18	5-20	8-20	5-30
		-B(S)			50	6-25	6-25	10-75	6-20
		-C(S)			75	8-25	8-25	12-30	8-25
		-D(S)			100	8-30	10-35	14-35	10-35
		-E(S)			125	14-38	16-40	16-40	16-40
		6370-A(M)			150	16-40	20-45	20-45	20-45
		-B(M)			175	20-42	24-50	24-50	24-50
		-C(M)			200	22-44	28-55	28-55	28-55
		-D(M)			225	24-46	32-60	32-60	32-60
		-E(M)			250	26-48	36-60	36-65	36-65
		6370-A(L)			300	30-50	40-65	40-65	40-65
						R814A	R814B	R814C	R814D	R814E
		-B(L)			50	4-15	4-30	6-30	4-30	2-11
		-C(L)			100	5-19	5-30	8-30	5-30	3-17
						R825A	R825B	R825C	R825D	R825E
		-D(L)			25	5-18	6-35	8-35	7-35	3-24
		-E(L)			50	5-35	6-40	8-42	7-42	5-30
209	Willson	6470-AL-A thru E	Bm	FF	25	6-18	6-20	6-20	6-20
					50	6-22	8-25	8-25	8-25
		S6470-AL-A thru E			75	8-28	10-30	12-30	12-30
		6570-AL-A thru E			100	10-30	10-35	14-35	14-35

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
209 Cont.					R714A/R714B/R714C/R714D	
		S6570-AL-A thru E			125	16-38 18-40 18-40 18-40
		6670AL-A thru E			150	18-40 22-45 22-45 22-45
		S6670AL-A thru E			175	22-42 26-50 26-50 26-50
		6770AL-A thru E			200	24-44 30-55 30-55 30-55
		S6770AL-A thru E				
		6670AL-P				
		S6670AL-P				
		6770AL-P				
		S6770AL-P				
		W6470/W6570				
		W6670/W6770				
210	SATA	15628	Bm	ON	25 or 50	60-87
211	SATA	54148	Bm	HH	25 or 50	60-87
213	3M	W608	Bm	HH		Inches of Water Column Height
		W403			50	4-14
		W404			100	6-23
		W406			150	9-32
		7820				
214	3M	W-401	Bm	FF	25	7.5-15
					50	8-15
					100	10-15
215	3M	W-402	Bm	FF	25	5-15
					50	5-15
					100	6-15
216	Vortec	22800	Bm	HH	25-300	80-95
216	Norgren	VT-22800	Bm	HH	25-300	80-95
217	North	85110	Bm	FF	3/8" I.D.	
					12.5-50	5-15
					75-150	9-24
					175-300	15-35
					1/2" I.D.	
					12.5-50	4-18
					75-150	5-22
					175-300	8-27

SAR TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
218	Parmelee	804LP-DI	Bm	HH	0-50	5.5-13.0
					0-100	7.5-17.0
					0-150	9.5-20.0
					0-200	10.5-23.0
					0-250	12.5-25.0
					0-300	14.5-28.0
219	Parmelee	802LP-SL	Bm	HH	0-50	5.5-13.0
		802LP-WL			0-100	7.5-17.0
		802LP-SN			0-150	9.5-20.0
		802LP-WN			0-200	10.5-23.0
					0-250	12.5-25.0
					0-300	14.5-28.0
220	MSA		Bm	HH	8-25	3.5-5
		482716/482717			25-50	4.5-6
		482719			50-100	6-8
		482721			100-150	8-11
		482723			150-200	9-15
		482725			200-250	10-18
		483607/483608			250-300	12-20
		483610				
		483612				
		483614				
		483616				
221	Binks	40-908/-909	Bm	HH	8-25	3.5-5
		40-911			25-50	4.5-6
		40-913			50-100	6-8
		40-915			100-150	8-11
		40-917 thru 40-919			150-200	9-15
		40-921			200-250	10-18
		40-923			250-300	12-20
		40-925				
		40-927				
222	MSA	482823	Bm	HH	8-300	55-60
		482827				
		482903				
		482907				
		482807 thru 482814				
		482824 thru 482826				
		482828 thru 482830				
		482887 thru 482894				
		482904 thru 482906				
		482908 thru 482910				
		482967 thru 482974				
		482983 thru 482990				

SAR TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
223	Binks	40-617	Bm	HH	8-300	55-60
		40-621				
		40-697				
		40-701				
		40-601/-602/-603/-604/-605/-606/-607/-608				
		40-618/-619/-620				
		40-622/-623/-624				
		40-681/-682/-683/-684/-685/-686/-687/-688				
		40-698/-699/-700				
		40-702/-703/-704				
		40-761/-762/-763/-764/-765/-766/-767/-768				
		40-777/-778/-779/-780/-781/-782/-783/-784				
224	MSA		Bm	HH	8-25	10-11
		482999/483000			33-50	13-14
		483003			50-75	15-17
		483004			75-100	19-21
		483011/483012			100-150	23-25
		483027/483028			150-200	28-31
		483001/483002			200-250	32-36
		483005/483006			250-300	36-40
		483013/483014				
		483019 thru 483022				
		483029/483030				
		483035 thru 483038				
225	Binks	40-793	Bm	HH	8-25	10-11
		40-797			33-50	13-14
		40-805			50-75	15-17
		40-821			75-100	19-21
		40-794/-795/-796			100-150	23-25
		40-798/-799/-800			150-200	28-31
		40-806/-807/-808			200-250	32-36
		40-813/-814/-815/-816			250-300	36-40
		40-822/-823/-824				
		40-829/-830/-831/-832				
228	A.O.	R5599	Bm	ON	3/8 inch	
		S5599			25-75	11-25
		R6599			100-150	14-33
		S6599			175-225	18-40
					250-300	21-46
					1/2 inch	
					25-75	9-16
					100-150	12-20
					175-225	15-24
					250-300	16-27

SAR TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi	
229	Bullard	1093 1094 1095 1096	Bm	HH	F30 thru 33 Air Entry Sys. 25-100 (4 sec.) 14-25 AC-1000-30 thru 33 Air Entry Sys. 25-300 (6 sec.) 80-95 1300-30 thru 33 Air Entry Sys. 25-300 (6 sec.) 80-95 T-35 only Air Entry Sys. 100 only (2 sec.) 8-15		
			(See approval label for Air Entry System)				
					25-100	14-25	
					25-300	80-95	
					25-200	80-85	
					225-300	90-95	
					100 only	8-15	
230	Survivair	9855-02	Bm	FF		(1/4 NPT-OBAC)	(Schrader-Foster)
					25	2.5-10	3.5-13
					50	4-15	5-18
					75	6-20	7-23
					100	7-24	8-27
					125	8-25	9-28
					150	9.5-28	10.5-31
					175	10-32	11-35
					200	11-33	12-36
					225	11.5-35	12.5-38
					250	12-38	13-41
					300	14-41	15-44
231	Survivair	9810-02 9810-04	Bm	ON		(1/4 NPT-OBAC)	(Schrader-Foster)
					25	2.5-10	3.5-13
					50	4-15	5-18
					75	6-20	7-23
					100	7-24	8-27
					125	8-25	9-28
					150	9.5-28	10.5-31
					175	10-32	11-35
					200	11-33	12-36
					225	11.5-35	12.5-38
					250	12-38	13-41
					300	14-41	15-44
232	Pulmosan	AL-190	Bm	FF	25 or 50 or 100 only	5-15	

SAR TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi	
233	Neoterik	1790/-1/-2 1791/-1/-2	Bm FF or ON	25-200 (4 sec.) 25-300 (6 sec.) 25-300 (6 sec.)		9-13 (NP-1683) 26-60 (NP-1684) 35-55 (NP-1685)	
234	Cabot Safety	R76HT* R76HS*	Bm	HH		3/8"I.D.	1/2"I.D.
					25-75	13-15	9-12
					100-150	18-23	12-16
					175-225	22-30	14-19
					250-300	25-36	16-22
235	Clemco	11148/11149	Bm	HH	50 or 100	12-15	
						Inches of Water Column Height	
241	Neoterik	2600-CF	Bm	FF	50	12-15	
					100	6-23	
					150	9-32	
242	Pro-Tech	2601	Bm	FF	25 to 300	30-60	
243	Pro-Tech	2611	Bm	FF	25 to 200	8-25	
					Millimeters of Water Column Height		
244	Kasco	K80S-T19N/2 K80S-T17N/2	Bm	HH	164	65-230	
245	Pro-Tech	2621	Bm	FF	25 to 300	40-55	
246	WGM Safety Corp.	AL340(S)/(M)/(L)	Bm	ON	25 to 100	5-15	
249	Racal	ST30	Bm	HH	25-300	55-70	
250	Racal	ST32	Bm	HH	25-100	80-100	
251	Racal	ST38	Bm	HH	25-100	70-115	
252	Northstar	ASH-301	Bm	HH	25-200	75-85	

SAR TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
253	North	86165	Bm	HH	50	9-15
255	MSA	490771 thru 490779	Bm	FF	8-300	85-100
257	Cabot Safety	52004/53004 52007/53007	B	FF		

Breathing Tube 52006

3/8" I.D. Hose			1/2" I.D. Hose		
Hose Length	Min. Pres.	Max. Pres.	Hose Length	Min. Pres.	Max. Pres.
25-75	10	25	50-100	9	18
100-150	14	32	150-200	10	24
175-225	18	40	250-300	12	27
250-300	20	45			

Breathing Tube 53006

25-75	8	20	50-100	5	18
100-150	12	28	150-200	7	22
175-225	14	36	250-300	10	25
250-300	18	40			

259	MSA	488089 thru 488096 491886 thru 491889	Bm	FF,ON	25-50 50-100 100-150 150-200 200-250 250-300	2-4 3-5 4-6 5-8 6-10 7-12
260	MSA	488073 thru 488088 491978 thru 491985	Bm	FF,ON	8-25 25-75 75-100 100-150 150-200 200-250 250-300	6-8 8-12 11-15 14-18 16-23 18-28 20-32
261	Binks	40-1215 thru 40-1218	Bm	FF,ON	25-50 50-100 100-150 150-200 200-250 250-300	2-4 3-5 4-6 5-8 6-10 7-12

SAR TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
262	Binks	40-1207 thru 40-1214	Bm	FF,ON	8-25	6-8
					25-75	8-12
					75-100	11-15
					100-150	14-18
					150-200	16-23
					200-250	18-28
					250-300	20-32
263	3M	7221	Bm	ON	25	8-15
					50	10-19
					100	12-21
					200	17-31
					300	21-36
264	3M	7222	Bm	ON	25	7-11
					50	7-11
					100	7-12
					200	8-16
					300	10-18
265	3M	7224	Bm	ON	25	15-25
					50	18-25
					100	19-30
					200	25-40
					300	25-55
266	Willson	4112	Bm	HH	Millimeters of Water-Column Height	
					50	65-230
267	Cabot Safety	R-7400 AL (CV) S-7400 AL (CV) R-7400 AL (ST) S-7400 AL (ST)	Bm	FF		

52006 Breathing Tube Assembly with Adjusting Valve

3/8" I.D. Hose
Inlet Air Pressure (psig)

Hose Length	Valve Closed Min. Pressure For 4 cfm Flow	Valve Open Max. Pressure For 10 cfm Flow
25-75	10	25
100-150	14	32
175-225	18	40
250-300	20	45

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
267 Cont.						

1/2" I.D. Hose
Inlet Air Pressure (psig)

Hose Length	Valve Closed Min. Pressure For 4 cfm Flow	Valve Open Max. Pressure For 10 cfm Flow
50-100	9	20
150-200	10	24
250-300	12	27

53006 Breathing Tube Assembly with Non-Adjustable Valve

3/8" I.D. Hose
Inlet Air Pressure (psig)

Hose Length	Valve Closed Min. Pressure For 4 cfm Flow	Valve Open Max. Pressure For 10 cfm Flow
25-75	8	20
100-150	12	28
175-225	14	36
250-300	18	40

1/2" I.D. Hose
Inlet Air Pressure (psig)

Hose Length	Valve Closed Min. Pressure For 4 cfm Flow	Valve Open Max. Pressure For 10 cfm Flow
50-100	5	18
150-200	7	22
250-300	10	25

269	Survivair	9812-00 9812-12	Bm	Fm	25 50 75 100 150 200 250 300	9-25 10-30 14-30 15-30 20-45 22-50 26-55 29-60
270	DeVilbiss	MPH-540	Bm	ON	25-75 100-150 175-225 250-300	8-20 12-28 14-36 18-40

SAR TYPE C CONTINUOUS FLOW

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
271	Bullard	3261 3262 3263	Bm	FF	50 100 150 200 250 300	21-24 23-27 26-31 29-35 32-39 35-43
272	Racal	AV-17	Bm	HH	25-100	75-100
273	Racal	AV-1	Bm	HH	25-100	75-100
274	MSA	494439 495462	Bm	FF/ON	8-300 100	60-80 23-27

2. Type C Pressure Demand

Approval

Approved for respiratory protection against atmospheres not immediately dangerous to life or health. Respirator only approved when used with respirable air.

Limitations

Not for use in atmospheres containing less than 19.5 percent oxygen.

Use only the hose lengths and pressure ranges specified on the approval label.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

SAR TYPE C PRESSURE DEMAND

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
67	Survivair	9011-13 9811-13/16	Fm	FF	4-250	50-125
68	Survivair	9011-15 9811-15/17	Fm	FF	4-250	50-125
74	Scott	801548 Series* 801548-02/-03/-06/-07	Fm	FF	3-250	60-125
90	ISD	900-002-264-01/02/03/04/11/12/13/14	Fm	ON,FF	25-250	50-125
93	MSA	89104* 461669 461699/461700	Bm	FF	8-300	80-100
98	Scott	802280-03 802280-04/07/08/11/12/15/16	Fm	ON	3-250	60-125
145	Willson	1915* 1915A/B/C/D	Bm	ON	25-250	50-125
146	Willson	1950* 1960* 1950/A/B/C/D 1960/A/B/C/D	Bm	FF	25-250	50-125
149	National Draeger	4059081 thru 4059107 4059104 thru 4509111 4052957 thru 4052961	Fm	FF	25-300	85-120
156	Interspiro	336-890-034 336-890-043	Bm	FF	25-200	60-125
158	MSA	473998 473457 473464 474020 475209 thru 475224 478721 thru 478728	Bm	ON,FF	8-300	65-85

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
158 Cont.		490809 thru 490817 490830 thru 490838				
167	Globe	2939-1* 2939-2/3*/4	Bm	FF	25-200	60-75
169	Binks	40-525/-526/-340/-395	Bm	FF	8-300 8-300 15-300	65-85 65-85 65-85
174	Survivair	9815-02 9815-22 9815-32 9815-42	Bm	FF	25 50 75 100 150 250	30-60 35-70 40-85 45-95 55-110 65-125
175	Survivair	9816-02 9816-22	Bm	FF	25 50 75 100 150 250	30-60 35-70 40-85 45-95 55-110 65-125
189	ISI	707.135.00/.01/.02/.03	Bm	FF	25-300	80-120
194	Dual Safe	DS-100-0	Bm	FF	50-250	50-125
195	North	85400	Bm	FF	12.5-300	78-80
198	North	85500A	Bm	FF	12.5-300	78-80
212	Willson	6690-A,B,C,D S6690-A,B,C,D 6790-A,B,C,D S6790-A,B,C,D W6690/W6790	Fm	FF	25-300	75-125
226	Respiratory Systems	101178-500	Fm	FF	6 25 50 75 100	65-85 65-85 65-85 70-85 70-85

SAR TYPE C PRESSURE DEMAND

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
226 Cont.					150	70-85
					200	75-85
					250	75-85
227	ISD	900-002-264-20/-21/-22/-23/-24 900-002-264-31/-32/-33/-34		FF,ON	25-250	50-125
237	National Draeger	4050664	Fm	FF	25-300	90-120
238	3M	W402	Fm	FF	25	7-11
					50	7-11
					100	7-12
					200	8-16
					300	10-18
239	3M	W401	Fm	FF	25	8-15
					50	10-19
					100	12-21
					200	17-31
					300	21-36
240	Neoterik	2600-PD	Bm	FF	50	8-20
					100	12-28
					150	16-28
					200	21-30
254	3M	W-407	Bm	FF	25-300	80-100
256	Willson	6660A-D S6660A-D 6760A-D S6760A-D W6660/W6760	Bm	FF	25-50 (R825) 50-100 (R814) 25-300 (R714)	60-100 60-100 60-100
258	Bullard	40-PD 50-PD	Bm	FF	25-50(V-20) 2	6-8
					75-100(V-20)2	7-9
					125-300(V-20)3	8-10
					225-300(V-20)5	10-12
					25-50(V-10) 2	13-16
					75-100(V-10)3	16-19
					125-200(V-10)4	19-24
					225-300(V-10)5	24-30

SAR TYPE C PRESSURE DEMAND

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
268	Pro-Tech	2631	Fm	FF	25-300	40-60

3. Type C Demand

Approval

Approved for respiratory protection against atmospheres not immediately dangerous to life or health. Respirator only approved when used with respirable air.

Limitations

Not for use in atmospheres containing less than 19.5 percent oxygen.

Use only the hose lengths and pressure ranges specified on the approval label.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

SAR TYPE C DEMAND

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
65	Survivair	9011-12 9811-12	Fm	FF	4-250	50-125
66	Survivair	9011-14 9811-14	Fm	FF	4-250	50-125
75	MSA	84283 93928 94988 46539 457164/457165	Bm	ON,FF	8-300	50-125
91	MSA	457157 93224/93225 461666	Fm	ON,FF	8-300	50-90
205	MSA	480761 thru 480772 480778 thru 480781	Bm	ON,FF	8-300	50-80

4. Type CE Continuous Flow Abrasive Blasting

Approval

Approved for abrasive blasting and for respiratory protection against atmospheres not immediately dangerous to life or health. Respirator only approved when used with respirable air.

Limitations

Not for use in atmospheres containing less than 19.5 percent oxygen.

Use only the hose lengths and pressure ranges specified on the approval label.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
64	Cesco	PI-800-AA	Bm	HH	15-50	6-17
		PI-800-/DA/NA/AAHF			75-100	7-20
64	US Safety	PI-800-AA	Bm	HH	15-50	6-17
		PI-800-DA/-NA/-AAHF			75-100	7-20
64	Wheeler Protective Apparel	17032	Bm	HH	15-50	6-17
		17032A			75-100	7-20
		17036				
		17036H				
69	3M		Bm	HH	25 & 50	25-35
		W-280-100/50/25			100	30-45
		W-283-100/50/25*			200	35-60
		W-286-100/50/25			300	40-75
		W-292-100/50/25				
		W-308-100/50/25				
		W-313-100/50/25				
		W-314-100/50/25				
		W-318-100/50/25				
		W-321-100*S/M/L				
		W-321-25*S/M/L				
		W-321-50*S/M/L				
		W-329-100/50/25				
		W-332-100/50/25				
		W-335-100/50/25				
		W-338-100/50/25				
		W-346-100/50/25				
		W-352-100/50/25				
		W-368-25/50/100				
		W-371-25/50/100				
		W-810-100/50/25				
		W-840-100/50/25				
		W-856-100L/M/S*				
		W-856-25L/M/S				
		W-856-50L/M/S				
		W-858-100/50/25				
		W-870-100/50/25				
		W-858-100/50/25				
69	Pauli & Griffin*					
	Clemco*					
	Bowen Tools*					
	Empire Abrasive*					
	Kelco Sales*					
	Pangborn*					

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
70	3M		Bm	HH	25-100	60-80
		W-281-100/50/25			100-200	80-100
		W-284-100/50/25*			200-300	85-100
		W-287-100/50/25				
		W-293-100/50/25*				
		W-310-100/50/25				
		W-311-100/50/25				
		W-315-100/50/25				
		W-317-100/50/25				
		W-322-100/50/25L				
		W-322-100/50/25M				
		W-322-100S*/50S*/25S*				
		W-328-100/50/25				
		W-330-100/50/25				
		W-333-100/50/25				
		W-336-100/50/25				
		W-347-25/50/100				
		W-354-25/100/50				
		W-369-25/50/100				
		W-370-25/50/100				
		W-372-25/50/100				
		W-820-100/50/25				
		W-880-100/50/25				
		W-881-100/50/25L/M				
		W-881-100/50/25S*				
		W-888-100/50/25*				
		W-890-100/50/25				
	Pauli & Griffin					
	Clemco					
	Bowen Tools					
	Empire Abrasive					
	Kelco Sales					
	Pangborn					
79	Encon	6400*	Bm	HH	25-50	70-90
		01-6401-31*/-32*/-33*/-34*/-35*/-36*				
		01-6451-31*/-32*/-33*/-34*/-35*/-36*				
79	Schmidt	6400*	Bm	HH	25-50	70-90
		01-6401-37/-38/-39/-40/-41/-42				
81	MSA		Bm	HH	8-300	55-60
		460907 thru 460910				
		461713 thru 461716				
		480606 thru 480609				
		480682 thru 480688				

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
84	Bullard	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Anderson	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Bowen	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Quaker State	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Pauli and Griffin	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Empire	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Kelco	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Marthens	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Ace	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Clemtex	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	A-BEC	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
84	Schmidt	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Matfer	77 46	Bm	HH	25-200 25-300 100 only	80-95 80-95 8-15
84	Air Components	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Porter Warner	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Clark Sand	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Sulliblast	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
84	Key Houston	77 46	Bm	HH	25-200 100 only 25-300	80-95 8-15 80-95
85	Clemco	46(PCE)	Bm	HH	25-200 100 only	80-95 8-15
87	3M	W-270-100/50/25 W-271-100/50/25 W-272-100/50/25 W-274-100/50/25L/M/ W-274-100/50/25S* W-277-S/M/L* W-282-100/50/25 W-285-100/50/25* W-288-100/50/25 W-294-100/50/25* W-309-100/50/25 W-312-100/50/25 W-319-100/50/25 W-320-100/50/25M/L	Bm	HH	25-100 100-200 200-300	60-70 80-100 85-100

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
87 Cont.		W-320-100/50/25S*				
		W-323-100/50/25				
		W-327-100/50/25				
		W-331-100/50/25				
		W-334-100/50/25				
		W-337-25/50/100				
		W-348-25/50/100				
		W-353-25/50/100				
		W-373-25/50/100				
	Pangborn*					
	Pauli&Griffin*					
	Bowen Tools*					
	Clemco*					
	Empire Abrasive*					
	Kelco*					
96	Cesco	801-AA/DA/NA/AAHF	Bm	HH	15-100	60-100
96	US Safety	801-AA/DA/NA/AAHF	Bm	HH	15-100	60-100
96	Wheeler Protective Apparel	17232 17232H 17236 17236H	Bm	HH	15-100	60-100
99	Pulmosan	20009	Bm	HH	15-50	17-20
100	Pulmosan	20027*	Bm	HH	15-50	17-20
102	Bullard	999-3*/-4*/-5*/-6* 999-7*/-8*	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Anderson	999-3/-4/-5 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Bowen	999-3/-4/-5 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
102	Pauli & Griffin	999-3/-4/-5 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Empire	999-3/-4/-5 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Deane	999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Kelco	999-3/-4/-5 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Titan	999-3/-4/-5/-6 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	A-BEC	999-3/-4/-5/-6	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Schmidt	999-3/-4/-5/-6	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Key Houston	999-3/-4/-5 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Clemco	999-3/-4/-5 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Binks	999-3/-4/-5 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Air Components	999-3/-4/-5 999-7/-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
102	Ace		Bm	HH	10-100	12-25
		999-3/-4/-5			10-100	80-100
		999-7/-8			100 only	8-15
102	Clemtex		Bm	HH	10-100	12-25
		999-3/-4/-5			10-100	80-100
		999-7/-8			100 only	8-15
102	Sulliblast		Bm	HH	10-100	12-25
		999-3/-4/-5/-6			10-100	80-100
					100 only	8-15
105	MSA	463939	Bm	HH	8-300	55-60
		463979				
		480493				
		480709/480710				
106	MSA		Bm	HH	8-50	16-20
		463980/463981				
		480494				
		480711/480712				
107	MSA		Bm	HH	8-300	55-60
		463929/463930				
		463959				
		463962/463963				
		463967				
		480485				
		480487				
		480689/480690				
		480693/480694				
108	MSA		Bm	HH	8-50	16-20
		463960/463961				
		463964/463965				
		463968/463969				
		480486				
		480488				
		480691/480692				
		480695/480696				
116	MSA		Bm	HH	8-50	16-20
		463291/463292				
		463295/463296				
		463303/463304				
		463311/463312				
		480469				

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
116 Cont.		480471 480647/480648 480651 thru 480654 480476 480480 480661/480662				
117	MSA	463924 463982	Bm	HH	8-300	75-100
119	MSA	463935/463936 463956 thru 463958 463966	Bm	HH	8-300	75-100
130	Clemco	04400* 04401* 04402* 10505 10508 thru 10524	Bm	HH	10-200	85-45
161	MSA	468716 468720 473297 473299 480851/853/855/ 857/859/861/863/ 865/867/869/871/ 873/875/877/879/ 881/883/885/887/ 889/891/893/895/ 897/899/901/903/ 905/907/909/911/913 481779/781/783/ 785/787/789/791/ 793/795/797/799/ 801/803/805/807/ 809/811/813/815/ 817/819/821/823/ 825/827/829/831/833 480867/869/871/873 875/877/879/881/899/ 901/903/905/907/909/ 911/913 481791/793/795/797/ 799/801/803/805/819/ 821/823/825/827/829/ 831/833	Bm	FF	100-300 125-300 150-300	29-53 31-59 32-60

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
162	MSA	468718 458722 473298 473300 480852/854/856/ 858/860/862/864/ 866/868/870/872/ 874/876/878/880/ 882/884/886/888/ 890/892/894/896/ 898/900/902/904/ 906/908/910/912/914 481780/782/784/ 786/788/790/792 794/796/798/800 802/804/806/808 810/812/814/816 818/820/822/824 826/828/830/832/834/ 480868/870/872/874/ 876/878/880/882/900/ 902/904/906/908/910/ 912/914 481792/794/796/798/800/ 802/804/806/820/822/ 824/826/828/830/832/834	Bm	FF	15-300	35-40
163	3M	W356-25/50/100* W357-25/50/100* W358-25/50/100 W360-25L/50L/100L* W360-25M/50M/100M* W361-25/50/100* W362-25/50/100* W364-25/50/100* W374-25/50/100* W375-25/50/100 W391* W395 W399*	Bm	HH	25 50 100	4-9 5-11 6-15
170	Bullard	M-30/31/32/33/35 M30V/31V/32V/33V	Bm	FF	25-100 125-200 225-300 10-100 125-300	9-22 14-40 22-50 45-75 50-90
178	MSA	474263 thru 474266 480915 thru 480946	Bm	FF	15-300	60-80

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
178 Cont.		481835 thru 481862 480931 thru 480946 481847 thru 481862				
216	Vortec	22800	Bm	HH	25-300	80-95
229	Bullard	1093 1094 1095 1096	Bm	HH	F30 thru 33 Air Entry Sys. 25-100 (4 sec.) 14-25 AC-1000-30 thru 33 Air Entry Sys. 25-300 (6 sec.) 80-95 1300-30 thru 33 Air Entry Sys. 25-300 (6 sec.) 80-95 T-35 only Air Entry Sys. 100 only (2 sec.) 8-15	
236	MSA	485751 thru 485766	Bm	FF	8-300	65-85
247	Clemco	11080 11081	Bm	HH	50-100	12-15
248	Clemco	11077 11073	Bm	HH	50-200	85-95
252	Northstar	ASH-301	Bm	HH	25-200	75-85

5. Type A

Approval

Approved for respiratory protection against atmospheres not immediately dangerous to life or health. Respirator only approved when used with respirable air.

Limitations

Not for use in atmospheres containing less than 19.5 percent oxygen.

Use only the hose lengths, RPM, or pressure ranges specified on the approval label.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow manufacturer's instructions for fitting the facepiece, for location of the blower, for preventing entanglement and fouling of the hose, or operation of the blower and for caring of the respirator while not in use.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

SAR TYPE A

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
101	MSA	463018 thru 463025	N/A	FF	50-250	N/A
148	MSA	466033	N/A	FF	50-250	N/A

6. Type B

Approval

Approved for respiratory protection against atmospheres not immediately dangerous to life or health. Respirator only approved when used with respirable air.

Limitations

Not for use in atmospheres containing less than 19.5 percent oxygen.

Use only the hose lengths specified on the approval label.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow the manufacturer's instructions for locating the intake of the air supply hose.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

SAR TYPE B

Approval Number TC-19C-	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face-piece Type	Hose Length feet	Pressure Range psi
77	MSA	457623	N/A	FF	Up to 75	N/A

Particulate Respirators (21C)

D. Particulate Respirators

1. Single Use

Approval

Approved for respiratory protection against pneumoconiosis- and fibrosis-producing dusts and mists.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Follow the manufacturer's instruction for replacing respirators.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

PARTICULATE RESPIRATORS - SINGLE USE

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Other Approvals
132	3M	6983 8710 8550	D,M
143	Willson	1400*	
170A	North	7170	
173	3M	8800 8530	D,M
174	Binks	40-150*	
195	Glendale	(SU-1) GR-500	
214	Pulmosan	1410 CP1410 MM1410	D,M
215	Binks	40-145	D,M
238	Glendale	GR555	D
271	Gerson	1710	D,M
292	Zee Med. Prod.	2303	D,M
293	Safety Supply	Respair 200	D,M,Z
315	Air-Tek	AT-100	D,M
347	North	7175	D,M
364	Balkamp	763-2271	D,M
416	New England Thermoplastics	0401	D,M

PARTICULATE RESPIRATORS - SINGLE USE

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Other Approvals
445	Akron Safety	A-Safe 970 DM	D,M
464	Gerson	1725	D,M
518	Zee Medical	2304	D,M
525	Akron Safety Equipment	A-Safe 970	DMZ
532	Gerson	1711	DMZ

2. Dusts and Mists

Approval

Approved for respiratory protection against dusts and mists having an exposure limit measured as a time weighted average not less than 0.05 milligram per cubic meter or 2 million particles per cubic foot.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow manufacturer's instructions for changing filters and replacing respirators.

Particulate respirators may also be approved for asbestos containing dusts and mists as indicated in the last column.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

PARTICULATE RESPIRATORS - DUSTS AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
132	3M	6983 8550 8710	Su,ON	1	S
133	MSA	459440 466252 thru 466254 466530/466531 476729 thru 476731 479605/479606 479608 thru 479613 489825* 490509 thru 490514	Rp,Fm,ON	2	
138	MSA	96000 457344	Rp,Fm,ON	1	
139	Willson	560	Rp,Fm,ON	1	
140	Willson	1210/R/S/SR/SS/SSS S1210/R/S/SR/SS/SSS	Rp,Fm,ON	2	
144	Cabot Safety	R4030/S4030 R4530/S4530 R5030/S5030 R5530/S5530 R6030/S6030 R6530/S6530	Rp,Fm,ON	2	
147	Cabot Safety	R1050	Ru,ON	1	
151	North	7506* 7506S*/M*/L* 7706S/M/L	Rp,Fm,ON	2	
153	North	7406L*/M*	Rp,Fm,ON	1	Z
154	Sellstrom	315-F100	Rp,Fm,ON	2	
154	Protech	1482-F100 1482-S-F100 1482-L-F100 1585S-F100 1585-F100 1585L-F100	Rp,Fm,ON	2	
154	Safe-Tex*	236-F100*	Rp,Fm,ON	2	

PARTICULATE RESPIRATORS - DUSTS AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
154	Eastern	E-450* 290	Rp,Fm,ON	2	
156	MSA	461683	Rp,Fm,ON	1	
157	Pulmosan	C264* 10045* 10213 10234* 10294*	Rp,Fm,ON	1	
159	MSA	460357	Rp,Fm,ON	1	
162	Cabot Safety	R2100* R8100* S8100*	Rp,Fm,ON	1	
163	Cesco	94R20*	Rp,Fm,ON	2	Z
164	Glendale	GR1600 GR2000 GR4000 GR8000	Rp,Fm,ON	2	Z
165	Pulmosan	L800* 10171* 10174 10216* 10297*	Rp,Fm,ON	1	
166	Cabot Safety	R2090N S2090N	Rp,Fm,ON	1	
167	DeVilbiss	MSD-507*	Rp,Fm,ON	1	
170	North	7170	Ru,ON	1	
172	Glendale	GR1000 GR1500 GR3000 GR9000	Rp,Fm,ON	1	

PARTICULATE RESPIRATORS - DUSTS AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
173	3M	8800 8530	Su,ON	1	S
174	Binks	40-150*	Su,ON	1	
175	North	7100/V	Rp,Fm,ON	1	
176	3M	9900	Su,ON	1	
177	Scott	6411-0100* 6411-2100*/6411-3100* 6412-0100*/6413-0100*/6413-2100*/6413-3100* 6421-0100*/6422-0100*/6423-0100* 64-D* 64E-D* 64M-D* 64ME-D* 64S-D* 64SE-D* 604035-00*	Rp,Fm,ON	2	
REPLACED BY TC-21C-389					
179	US Safety	150L10 150T10 100S10 200S10 100M10 200M10 100L10 200L10 300S/M10 300M/L10	Rp,Fm,ON	2	
179	Stewart Warner	7932	Rp,Fm,ON	2	
179	Lab Safety Supply	11291-S-1 11291-M-1 11291-L-1			

PARTICULATE RESPIRATORS - DUSTS AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
180	Cesco	95RC15 95SMRC15 100S10 200S10 100M10 200M10 100L10 200L10 300S/M10 300M/L10	Rp,Fm,ON	2	
180	Northcott	70-451	Rp,Fm,ON	2	
181	MSA	462240 466212 468011 thru 468014 480046 thru 480054 489766* 490528 thru 490533	Rp,Bm, ON	2	
181	MSA	462240 466212 468011 thru 468014 480046 thru 480054 489766 490528 thru 490533	Rp,Bm, ON	2	
182	Willson	1610/1710	Rp,Fm,FF	2	
188	MSA	461845 466242/466243 471730/471731 480389 thru 480391 483498*	Rp,Fm,FF	2	
190	3M	9910	Su,ON	1	
191	North	7606/S*/N*/SN*	Rp,Fm,FF	2	
197	Racal	AH5	PAPR,HH	1	

PARTICULATE RESPIRATORS - DUSTS AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
198	Scott	6470-0100* 6480-0100* 65-D 65S-D 65XL-D A65-D A65S-D A65XL-D	Rp,Fm,FF	2	
206	MSA	467010	Rp,Fm,ON	1	Z
207	Cabot Safety	R7030/S7030 R7730/S7730	Rp,Fm,FF	2	
211	Racal	AH21 AH15	PAPR,HH	1	
213	MSA	467559	Rp,Fm,ON	1	Z
214	Willson	1410 CP1410 MM1410	Ru,Su,ON	1	S
214	Pulmosan	1410	Ru,Su,ON	1	S
215	Binks	40-145	Ru,Su,ON	1	S
216	Cesco	96RC15	Rp,Fm,FF	2	
217	US Safety	151T10	Rp,Fm,FF	2	
217	Lab Safety	11292-1			
220	MSA	467541	Ru,ON	1	
221	Pulmosan	10303* 10306* 10309* 10312*	Rp,Fm,ON	1	
224	3M	9906	Su,ON	1	

PARTICULATE RESPIRATORS - DUSTS AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
225	3M	W-316 W-343*	PAPR,H/H	1	
232	Survivair	2110-00/-10 2210-00/-10 2310-00/-10	Rp,Fm,ON	2	
233	3M	9908	Su,ON	1	
234	3M	9913	Su,ON	1	
235	3M	W-325*	PAPR,HH	1	Z,AB
238	Glendale	GR555	Ru,Su,ON	1	
247	3M	9901 6982	Su,ON	1	Z
253	Willson	3010* 3010R/S/SR/SS/SSS S3010/R/S/SR/SS/SSS	Rp,Bm,ON	2	
254	Willson	3110* 3210*	Rp,Bm,FF	2	
261	Glendale	GR7000	Rp,Fm,FF	2	Z
264	Cabot Safety	R1070*	Su,ON	1	
266	Cabot Safety	R2090AN* S2090AN*	Rp,Fm,ON	1	
267	DeVilbiss	MSD-512*	Rp,Fm,ON	1	Z
271	Gerson	1710	Su,ON	1	S
274	MSA	472783 472785 472787 489796*	Rp,Fm,ON	2	

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
274 Cont.		490540 thru 490545			
279	3M	9915	Su,ON	1	
282	Pulmosan	10435*	Rp,Fm,FF	1	
287	Moldex/Metric	2200	Su,ON	1	
288	Pirelli	4336.2027	Rp,Fm,ON	2	
289	3M	7218	Rp,Fm,ON	2	
290	Cesco	AD15*	Su,ON	1	
291	US Safety	AD10	Su,ON	1	
292	Zee Med. Prod.	2303	Su,ON	1	S
293	Safety Supply	Respair 200	Su,ON	1	Z,S
294	Neoterik	AB5 HH5	PAPR,HH	1	
295	Neoterik	AB6 VB6 VH6 HH6 SH6 SB6	PAPR,HH	1	
298	Racal	DM1 BR DM1 WR DM1 BL DM1 WL DM1 BRU DM1 WRU DM1 BLU DM1 WLU	PAPR,HH	1	Z
299	Racal	DM3-S DM3-U	PAPR,HH	1	Z

PARTICULATE RESPIRATORS - DUSTS AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
300	Pirelli	4333.2027	Rp,Fm,FF	2	
301	Safety Supply	F-160-F F-200-F F-800-F	Rp,Fm,ON	2	
302	Safety Supply	F-700-F	Rp,Fm,ON	2	
307	Willson	1510/R/SS	Rp,Fm,ON	2	
308	Willson	3510*/R/SS	Rp,Bm,ON	2	
315	Air-Tek	AT-100	Su,ON	1	S
317	Dunrite	475785	Rp,Fm,ON	1	
318	3M	W425	PAPR,HH	1	AB
320	NZ Safety Ltd	NZ1710*	Su,ON	1	
322	Stewart-Warner	70-453	Su,ON	1	
328	Cabot Safety	R1090*	Su,ON	1	
334	Cabot Safety	R1080*	Su,ON	1	
335	Cabot Safety	R1010*	Su,ON	1	
344 344	Eastern Protech	790 1694-F100	FF,Rp,Fm Rp,Fm,FF	2 2	
347	North	7175	Su,ON	1	S
350	Moldex	2300	Su,ON	1	
351	Cabot Safety	AO 1010	Su,ON	1	

PARTICULATE RESPIRATORS - DUSTS AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
352	Canadian Technical Tape	3535	Su,ON	1	
361	3M	8715	Su,ON	1	
363	3M	7818 7818C 7818-L 7818-H	Rp,Fm,FF	2	
			For 7818C - Comb. Type C, CF		
			Air pressure (psig)	Hose length (feet)	
			15 - 25	25	
			18 - 25	50	
			29 - 30	100	
			25 - 40	200	
			25 - 55	300	
		For 7818-L and 7818-H - Comb. Type C, CF			
		Hose Length (ft)	Pressure Range (psig) 7818-H	7818-L	
		25	8 - 15	7 - 11	
		50	10 - 19	7 - 11	
		100	12 - 21	7 - 12	
		200	17 - 31	8 - 16	
		300	21 - 36	10 - 18	
364	Balkamp	763-2271	Su,ON	1	S
374	3M	9902	Su,ON	1	
376	Willson	6110S/M/L/SR/MR/LR	ON,Rp,Fm	2	
383	Willson	6410/6510 S6410/S6510 W6410/W6510	FF,Rp,Fm	2	
386	Willson	6210S/M/L/SR/MR/LR	ON,Rp,Fm	1	
389	Scott	66STC-D S66STC-D 66MTC-D S66MTC-D 66LTC-D S66LTC-D	Rp,Fm,ON	2	

PARTICULATE RESPIRATORS - DUSTS AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
401	3M	8710/S 6983	ON,Su	1	Z
410	3M	9900	Su, ON	1	Z
411	Koken	RE1210S-K RE1210L-K	ON,Fm	2	Z
415	3M	8715	Su, ON	1	Z
416	New England Thermoplastics	0401	Su, ON	1	S
420	Cabot Safety	S7530 S7530C	FF,Rp,Fm	2 For S7530C Comb. Type C, CF For 3/8" I.D. Hose Hose Length feet / Air Press. psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" I.D. Hose Hose Length feet / Air Press. psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	
421	Glendale	GR9500	ON,Fm,Rp	2	
431	MSA	484455 484456 484457 484467 484468 484469	FF,Fm,Rp	2 Comb. Type C, Pd Hose Length feet / Air Press. psig 8 - 300 / 65 - 80	
433	MSA	484021 484022	FF,Fm,Rp	2	

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
433 Cont.		484023 484033 484034 484035 489275*		Comb. Type C, CF Hose Length feet 8 - 300	 Air Press. psig 35 - 40
443	3M	W316	PAPR,HH	1	Z
444	3M	W425	PAPR,HH	1	Z,AB
445	Akron Safety	A-Safe 970 DM		Su,ON	1S
464	Gerson	1725	Su,ON	1	S
465	Masprot	M-2.200/M	Rp,Fm,ON	2	
466	Masprot	M-2.201/M	Rp,Fm,ON	2	
476	3M	7818-H 7818-L 7818-PD	Rp,Fm,FF	2	

Comb. Type C, Pd

Hose Length feet	Air Pressure (psig) 7818-H	7818-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

For 7818-PD

Hose length (feet)	Air pressure (psig)
25	80 - 100
50	80 - 100
100	80 - 100
200	80 - 100
300	80 - 100

478	Racal	Air-Mate 1	HH,PAPR	1	
479	Racal	Air-Mate 3	HH,PAPR	1	
501	MSA	489889 thru 489891	Fm,Rp,FF	2	

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
501 Cont.		489901 thru 489903 489913 thru 489915 489925 thru 489227 489937 thru 489939 489949 thru 489951	Comb. Type C, CF Hose Length feet 8 - 300	Air Pressure (psig) 85 - 100	
518	Zee Medical	2304	Su	1	S
520	Cabot Safety	R7430/S7430	Rp,Fm,FF	2	
523	Moldex	2500	Su,ON	1	
524	Moldex	2400	Su,ON	1	
525	Akron Safety Equipment	A-Safe 970 DMA	Su,ON	1	Z,S
532	Gerson	1711	Su,ON	1	Z,S
540	3M	9916	Su,ON	1	
545	Masprot	M-2.100	Rp,Rm,ON	1	

3. Dusts, Fumes and Mists

Approval

Approved for respiratory protection against dusts, fumes and mists having an exposure limit measured as a time weighted average not less than 0.05 milligram per cubic meter or 2 million particles per cubic foot.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow manufacturer's instructions for changing filters and replacing respirators.

Particulate respirators may also be approved for asbestos containing dusts and mists or radon daughters as indicated in the last column.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

PARTICULATE RESPIRATORS - DUSTS, FUMES AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
134	MSA	459438 461011 465360 465936 489749 489757 489807 489815	Rp,Bm,Fm,ON	2	R
141	Willson	1211/R/S/SR/SS/SSS S1211/R/S/SR/SS/SSS	Rp,Fm,ON	2	
161	Cabot Safety	R4056*/S4056* R5056*/S5056* R6056*/S6056*	Rp,Fm,ON	2	R
169	Cabot Safety	R8156*	Rp,Fm,ON	1	
183	Willson	1611/1711	Rp,Fm,FF	2	
187	MSA	461847 465938 483479 483492	Rp,Fm,FF	2	R
189	Glendale	GR-1626 GR-2026 GR-4026 GR-8026	Rp,Fm,ON	2	
193	US Safety	150T11*	Rp,Fm,ON	2	R,Z
194	Cesco	95RC16*	Rp,Fm,ON	2	R,Z
196	Eastern	E456* 305	Rp,Fm,ON	2	R,Z
	Protech	1482-F108 1482-S-F108 1482-L-F108 1585S-F108 1585-F108 1585L-F108			R,Z
	Sellstrom	315-F108			R,Z

PARTICULATE RESPIRATORS - DUSTS, FUMES AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
202	3M	9920	Su,ON	1	R
203	North	7507* 7507S*/M*/L* 7707S/M/L	Rp,Fm,ON	2	
204	North	75BP07*/M*/L* 77BP07S/M/L	Rp,Bm,ON	2	
205	North	7607/S*/SN*/N*	Rp,Fm,FF	2	
209	Scott	6411-0300* 6413-0300* 6423-0300* 6412-0300* 6422-0300* 6421-0300* 64-F* 64E-F* 64ME-F* 64S-F* 64SE-F* 64M-F*	Rp,Fm,ON	2	R
REPLACED BY TC-21C-390					
210	Scott	6470-0300* 6480-0300* 65-F 65S-F 65XL-F A65-F A65S-F A65XL-F	Rp,Fm,FF	2	R
218	Cesco	96RC16*	Rp,Fm,FF	2	R,Z
219	US Safety	151T11*	Rp,Fm,FF	2	R,Z
222	Willson	1213*/R/S/SR/SS/SSS* S1213/R/S/SR/SS/SSS*	Rp,Fm,ON	2	
223	Willson	1613*/1713*	Rp,Fm,FF	2	

PARTICULATE RESPIRATORS - DUSTS, FUMES AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
230	Cabot Safety	R7056*/S7056*	Rp,Fm,FF	2	R
236	Survivair	2230-00* 2130-00* 2330-00*	Rp,Fm,ON	2	R
240	US Safety	150T15 150L15 100S15 100M15 100L15 200S15 200M15 200L15 300S/M15 300M/L15	Rp,Fm,ON	2	R
240	Lab Safety Supply	11291-S-2 11291-M-2 11291-L-2			
241	Cesco	95RC19 95SMRC19 100S15 100M15 100L15 200S15 200M15 200L15 300S/M15 300M/L15	Rp,Fm,ON	2	R
242	US Safety	151T15	Rp,Fm,FF	2	R
242	Lab Safety Supply	11292-2			
243	Cesco	96RC19	Rp,Fm,FF	2	R
248	Sellstrom	315-G108	Rp,Fm,ON	2	
255	Willson	3011*/R/S/SR/SS/SSS S3011/R/S/SR/SS/SSS	Rp,Bm,ON	2	

PARTICULATE RESPIRATORS - DUSTS, FUMES AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
256	Willson	3111*/3211*	Rp,Bm,FF	2	
259	Willson	3013*/S/SS/SSS/R/SR S3013/S/SS/SSS/R/SR	Rp,Bm,ON	2	
260	Willson	3113*/3213*	Rp,Bm,FF	2	
262	Glendale	GR7026	Rp,Fm,FF	2	
268	Cabot Safety	R4050W/*S4050W* R5050W*/S5050W* R6050W*/S6050W*	Rp,Fm,ON	2	R
273	MSA	472754 472763 489779 489788	Rp,Bm,ON	2	R
280	Survivair	2140-00/-10 2240-00/-10 2340-00/-10	Rp,Fm,ON	2	R
297	Cabot Safety	R4050AW/S4050AW R5050AW/S5050AW R6050AW/S6050AW R5550AW/S5550AW R4550AW/S4550AW R6550AW/S6550AW	Rp,Fm,ON	2	
303	Safety Supply	F-200-MF F-160-MF F-800-MF	Rp,Fm,ON	2	
304	Safety Supply	F-700-MF	Rp,Fm,FF	2	
305	Cabot Safety	R4056A/S4056A R5056A/S5056A R6056A/S6056A R5556A/S5556A R6556A/S6556A	Rp,Fm,ON	2	

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
305 Cont.		R4556A/S4556A			
306	Cabot Safety	R7056A/S7056A R7756A/S7756A	Rp,Fm,FF	2	
309	Willson	1511/R/SS	Rp,Bm,ON	2	
310	Willson	3511*/R/SS	Rp,Fm,ON	2	
311	Willson	1513/R/SS	Rp,Fm,ON	2	
312	Willson	3513*/R/SS	Rp,Fm,ON	2	
323	MSA	476412 thru 476420 479649 thru 479657 490516 thru 490521	Rp,Fm,ON	2	R
331	North	7509S*/M*/L* 7709S*/M*/L*	Rp,Fm,ON	2	
332	North	75BP09M* 75BP09L*	Rp,Fm,ON	2	
333	North	7609*/S*	Rp,Fm,FF	2	
340	North	7590S*/M*/L* 7790S/M/	Rp,Fm,ON	2	
341	North	75BP90M*/L* 77BP90S/M/L	Rp,Fm,ON	2	
342	North	7690/S*	Rp,Fm,FF	2	
345	Protech	1694-F108	Rp,Fm,FF	2	R,Z
345	Eastern	705	FF,Rp,Fm	2	

PARTICULATE RESPIRATORS - DUSTS, FUMES AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
348	3M	9925	Su,ON	1	R
365	Willson	1217/S/R/SR/SS/SSS S1217/S/R/SR/SS/SSS	ON,Rp,Fm	2	
366	Willson	1517/R/SS	ON,Rp,Fm	2	
367	Willson	1617/1717	FF,Rp,Fm	2	
368	Willson	3017*/S/R/SR/SS/SSS S3017/S/R/SR/SS/SSS	ON,Rp,Bm	2	
369	Willson	3117*/3217*	FF,Rp,Bm	2	
370	Willson	3517*/R/SS	ON,Rp,Bm	2	
388	North	7190	Su,ON	1	
390	Scott	66STC-F/S66STC-F 66MTC-F/S66MTC-F 66LTC-F/S66LTC-F	Rp,Fm,ON	2	R
392	Jackson Products	RW-1*	Su, ON	1	
394	Willson	6120S/M/L/SR/MR/LR	Rp,Fm,ON	2	R
395	Willson	6420/S6420 6520/S6520 W6420/W6520	Rp,Fm,FF	2	R
400	3M	9920	Su,ON	1	R,Z
409	3M	9925	Su,ON	1	R,Z

PARTICULATE RESPIRATORS - DUSTS, FUMES AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
412	Koken	RE1280S-K RE1280L-K	ON,Rp,Fm	2	R,Z
418	Moldex	3400	Su,ON	1	R
419	Cabot Safety	S7556A S7556AC	Rp,FF,Fm	2 For S7556AC Comb. Type C, CF For 3/8" Hose Hose Length feet / Air Press. psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Pressure Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 26 - 32	
422	Glendale	GR9526	Rp,Fm,ON	2	
424	Willson	6220S/M/L/SR/MR/LR	Rp,Fm,ON	1	
435	MSA	483990 484003 489257* 489270*	FF,Fm,Rp	2 Comb. Type C, CF Hose Length feet / Air Press. psig 8 - 300 / 35 - 40	R
507	MSA	490024* 490037* 490044* 490077 490057* 490064	Fm,FF	2 Comb. Type C, CF Hose Length (feet) / Press. Range psig 8 - 300 / 85 - 100	R
519	Gerson	2020	Su,ON	1	R

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
520	Cabot Safety	R7456A S7456A	Rp,Fm,FF	2	
521	Cabot Safety	R7456A S7456A	Rp,Fm,FF	2	

4. High Efficiency

Approval

Approved for respiratory protection against dusts, fumes and mists having an exposure limit measured as a time weighted average less than 0.05 milligram per cubic meter and radionuclides.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow manufacturer's instructions for changing filters and replacing respirators.

Particulate respirators may also be approved for asbestos containing dusts and mists, radon daughters, as indicated in the last column.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

For Combination Type C Supplied Air Respirators with escape high efficiency respirators add the following limitations:

Use only the hose lengths and pressure ranges specified on the approval label.

When airflow is cut off, switch to filter and immediately exit to clean air.

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
135	MSA	459439 461010 465361 465935 489748 489756 489809 489816 490302/490303	Rp,Bm,Fm,ON	2	A
136A	3M	W-250* W-252* W-254* W-260-12 W-260-24* W-261-12 S*/M/L W-261-24 S*/M*/L* W-266-12 W-266-24* W-267* W-278-12 W-278-24* W-350* W-349-12 W-289-12 W-289-24* W-290* W-295-12* W-295-24* W-297* W-349-24*	PAPR,HH	1	R
137	3M	W-251* W-252 W-265-12 W-265-24*	PAPR,HH	1	AB
142	Willson	1212/R/S/SR/SS/SSS S1212/R/S/SR/SS/SSS	Rp,Fm,ON	2	A
149	Scott	6160-1050 6160-2050 6170-0050 6170-1050 6170-2050 6150-0050 6150-1050 6150-2050 6155-0050 6155-1050	Rp,Fm,FF	1	A

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
149 Cont.		6155-2050 6160-0050 6165-0050 6165-1050 6165-2050 6175-0050 6175-1050 6175-2050 662-1* 662-2* 6180-0050 6180-1050 6180-2050			
150	MSA	88479 457117 480826 491740 491742	Rp,Fm,FF	1	A
152	North	7580* 7580S*/M*/L* 7780S/M/L	Rp,Fm,ON	2	A
155	MSA	460185 465937 483478 483491	Rp,Fm,FF	2	A
158	Pulmosan	C263* 10042* 10231	Rp,Fm,ON	1	R,A
160	Cabot Safety	R4057* R5057* R6057*	Rp,Fm,ON	2	
168	North	75BP80*/M*/L* 77BP80S/M/L		Rp,Bm,ON	2A
171	North	7680 7680N* 7680S* 7680SN*	Rp,Fm,FF	2	A
178	Scott	6411-0050*/-2050*/-3050*	Rp,Fm,ON	2	R,A

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
178 Cont.		6412-0050*			
		6413-0050*/-2050*/-3050*			
		6421-0050*			
		6422-0050*			
		6423-0050*			
		604022-50*			
		64-H*			
		64E-H*			
		64M-H*			
		64ME-H*			
		64S-H*			
		64SE-H*			
REPLACED BY TC-21C-391					
184	Willson	1612	Rp,Fm,FF	2	A
		1712			
186	MSA		PAPR,ON,FF	2	A
		463353 thru 463355			
		466607 thru 466608			
		467963 thru 467964			
		478735 thru 478736			
		480456 thru 480458			
		480067 thru 480069			
		480073 thru 480075			
		480084 thru 480086			
		480090 thru 480092			
		484110 thru 484112			
		484116 thru 484118			
		484122 thru 484124			
		484128 thru 484130			
		484134 thru 484136			
		484140 thru 484142			
		484146 thru 484148			
		484152 thru 484154			
		487867 thru 487868			
		490211 thru 490213			
		490217 thru 490219			
		490235 thru 490237			
		490241 thru 490243			
		490283 thru 490285			
		490289 thru 490291			
		490295 thru 490297			
		490301 thru 490303			
		490331 thru 490332			
198	Scott	6470-0100*	Rp,Fm,FF	2	
		6480-0100*			
		65-D			
		65S-D			
		65XL-D			

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
199	Scott	6422-0050* 6480-0050* 65-H 65S-H 65XL-H A65-H A65S-H A65XL-H	Rp,Fm,FF	2	R,A
200	MSA	466095 466096 478773 478774 480196 thru 480197	SAR,FF Combination Type C, CF 35 - 40 psig; 8-300 ft. hose	1	A
201	MSA	466097 466098 466603 480202 thru 480204 480208 thru 480210 490223 thru 490225 490229 thru 490231	SAR,ON Combination Type C, CF 35 - 40 psig; 8-300 ft. hose	1	A
208	Cabot Safety	R7057*	Rp,Fm,FF	2	
212	Racal	AH3 AH3-1 AH3B AH3B-1 AH17 AH17-1	PAPR,HH	2	R,A
226	Cesco	95RC18 95SMRC18 100S12/200S12 100M12/200M12 100L12/200L12 300S/M12 300M/L12	Rp,Fm,ON	2	R,A
227	Cesco	96RC18	Rp,Fm,FF	2	R,A
228	US Safety	150T12/150L12 100S12/200S12 100M12/200M12 100L12/200L12	Rp,Fm,ON	2	R,A

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
228 Cont.		300S/M12 300M/L12			
228	Lab Safety Supply	11291-S-3 11291-M-3 11291-L-3			
229	US Safety	151T12	Rp,Fm,FF	2	R,A
229	Lab Safety Supply	11292-3			
231	Protech	1482-G108 1482-S-G108 1482-L-G108 1585S-G108 1585-G108 1585L-G108	Rp,Fm,ON	2	R,A
237	Racal	AC3	PAPR,HH	2	R,A
239	3M	9940	Su,ON	1	R,A
244	Survivair	2190-00/-10 2290-00/-10 2390-00/-10	Rp,Fm,ON	2	RA
245	Survivair	3290-00 4290-00 4190-10 4290-10	Rp,Fm,FF	2	RA
246	3M	W-344	PAPR,HH	1	A
249	Cabot Safety	R4057A/S4057A R4557A/S4557A R5057A/S5057A R6057A/S6057A R5557A/S5557A R6557A/S6557A	Rp,Fm,ON	2	R,A

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
250	Cabot Safety	R7057A/S7057A R7757A/S7757A	Rp,Fm,FF	2	R,A
251	North	10030S 10030M	Su	1	
252	Neoterik	AB3, HH3	PAPR,HH	1	R,A
257	Willson	3012*/R/S/SR/SS/SSS S3012/R/S/SR/SS/SSS	Rp,Bm,ON	2	A
258	Willson	3112*, 3212*	Rp,Bm,FF	2	A
263	Neoterik	AB4 HH4 VH4 VB4 SB4 SH4	PAPR,HH	1	R,A
265	3M	7206	Rp,Fm,ON	2	A,R
269	Neoterik	GET GEE GVT GVE GST GSE	PAPR,HH	1	A,R
270	Neoterik	AB10 HH10 SB10 VB10 VH10 SH10	PAPR,HH	1	A,R
272	MSA	472753 472762 489778 489787	Rp,Bm,ON	2	A
275	Racal	BE 1/P3	PAPR,HH	3	A,R

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
276	Racal	BE 3/P3 BE 7/P3	PAPR,FF	3	A,R
277	Racal	BE 5/P3	PAPR,HH	3	A,R
278	Racal	BE 6/P3	PAPR,HH	3	A,R
281	Pulmosan	10432*	Rp,Fm,FF	1	A,R
283	Pirelli	4333.2017	Rp,Fm,FF	1	
284	Pirelli	4337.1100	Rp,Fm,ON	1	
285	Neoterik	AB8 HH8 VB8 VH8 SB8 SH8	PAPR,HH	1	A,R
286	Neoterik	AB7 HH7	PAPR,HH	1	A,R
296	Cabot Safety	R8157*/S8157* R8157A*/S8157A*	Rp,Fm,ON	1	A,R
313	Willson	1512/R/SS	Rp,Fm,ON	2	A
314	Willson	3512*/R/SS	Rp,Bm,ON	2	A
316	Draeger	4031013 4031015	Rp,Fm,FF	1	
319	3M	W365	PAPR,HH	1	A,R,AB
321	Racal	BE17/P3	PAPR,HH	3	A,R

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
324	Racal	BE8/P3	PAPR,ON	3	A,R
325	Glendale	GR-2050/-4050/-1650/-8050	Rp,Fm,ON	2	A,R
326	Glendale	GR-7050	Rp,Fm,FF	2	A,R
327	Neoterik	NP1562-1	PAPR,ON	3	R,A
329	Racal	BE4/P3*	PAPR,HH	3	A,R
330	Neoterik	NP1664-1 NP1564-2 NP1964-1	PAPR,FF	3	A,R
336	MSA	477978 489820	Rp,Fm,ON NOT APPROVED FOR RADIONUCLIDES	2	A
337	MSA	477979	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2	A
338	MSA	477977 489791	Rp,Bm,ON NOT APPROVED FOR RADIONUCLIDES	2	A
339	MSA	477976 489761	Rp,Bm,ON NOT APPROVED FOR RADIONUCLIDES	2	A
343	MSA	478116 478117 480947 480953 480959 480965 481001 481007 481013 481037 480971 480977 480983 480989 480995	FF,Rp,Bm Combination Type CE, CF 35-40 psig, 8 to 300 feet hose	1	A

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
343 Cont.		481019 481025 481031			
346	Protech	1694-G108	Rp,Fm,FF	2	A,R
346	Eastern	785	Rp,Fm,FF	2	RA
349	Eastern Safety	285	Rp,Fm,ON	2	A,R
353	Racal	PF/PP/7SP3	PAPR,FF	1	A,R
354	MSA	478740 thru 478745 480070 thru 480072 480093 thru 480095 480076 thru 480078 480087 thru 480089 484125 thru 484127 484131 thru 484133 484137 thru 484139 484143 thru 484145 484149 thru 484151 484155 thru 484157 490214 thru 490216 490220 thru 490222 490236 490239 thru 490240 490244 thru 490246 490286 thru 490288 490292 thru 490294 490298 thru 490300 490304 thru 490306	PAPR,ON NOT APPROVED FOR RADIONUCLIDES	2	A
355	MSA	478737 thru 478739 480459 thru 480461 484113 thru 484115 484119 thru 484121	PAPR,FF NOT APPROVED FOR RADIONUCLIDES	2	A
356	MSA	478760 478759 480827 491741 491743	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	1	A

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
357	MSA	478779 thru 478781 480205 thru 480207 480211 thru 480213 490223 490226 thru 490228 490232 thru 490234	SAR,ON NOT APPROVED FOR RADIONUCLIDES Combination Type C, CF 35 - 40 psig, 8-300 ft. hose	1	A
358	MSA	478775 thru 478778 480199 thru 480201	SAR,FF NOT APPROVED FOR RADIONUCLIDES Combination Type C, CF 35 - 40 psig, 8-300 ft. hose	1	A
359	MSA	478761 478762 480952 480958 480964 480970 480976 480982 480988 481000 481018 480994 481006 481012 481024 481030 481036 481042	SAR,FF NOT APPROVED FOR RADIONUCLIDES Combination Type CE, CF 35 - 40 psig, 8-300 ft. hose	1	A
360	North	7880 7880S*	SAR,FF Combination Type C, CF Air pressure (psig): 11-35, 12-36, 16-45, 19-50 Hose length (feet): 12.5-50, 75-125, 150-225, 250-300 For 88600 (3/8"I.D.) Air Hose Hose Length (feet): 12.5-50, 75-125, 150-225, 250-300 Pressure (psig): 12-35, 14-36, 17-45, 20-50	2	A

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
362	3M	7806 7806C 7806-L 7806-H	Rp,Fm,FF For 7806C Combination Type C, CF Air pressure (psig) / Hose length (feet) 15 - 25 / 25 18 - 25 / 50 19 - 30 / 100 25 - 40 / 200 25 - 55 / 300 For 7806-L and 7806-H Combination Type C, CF Hose Length (ft) / Pressure Range (psig) 7806-H / 7806-L 25 / 8-15 / 7-11 50 / 10-19 / 7-11 100 / 12-21 / 7-12 200 / 17-31 / 8-16 300 / 21-36 / 10-18	2	A,R
371	Willson	2173* 2273*	FF,Rp,Fm	1	A
372	Willson	1853A*/B*/C*/D*/E* 1863A*/B*/C*/D*/E*	FF,Rp,Bm Combination Type C, CF Air pressure (psig) / Hose length (feet) 6 - 65 / 25 - 300	1	A
373	Willson	1813A*/B*/C*/D*/E*	FF,Rp,Bm Combination Type C, CF Air pressure (psig) / Hose length (feet) 6 - 65 / 25 - 300	1	A
375	North	85780	Rp,Fm,FF Combination Type C, Pd Air pressure (psig) / Hose length (feet) 78 - 80 / 12.5 - 300	2	A
377	Willson	6140S/M/L/SR/MR/LR	ON,Rp,Fm	2	A
378	Willson	6240S/M/L/SR/MR/LR	ON,Rp,Fm	1	A

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
379	Willson	6373A/B/C/D/E(S) 6373A/B/C/D/E(M) 6373A/B/C/D/E(L)	ON,Rp,Bm	1 Comb. Type C, CF Air Pres. psig: 6-65 Hose Length feet: 25-300	A
380	Willson	6473A/B/C/D/E S6473A/B/C/D/E 6573A/B/C/D/E S6573A/B/C/D/E W6473/W6573	FF,Rp,Bm	1 Comb. Type C, CF Air Pres. psig: 6-65 Hose Length feet: 25-300	A
381	Willson	6673AL-A/B/C/D/E S6673AL-A/B/C/D/E 6773AL-A/B/C/D/E S6673AL-A/B/C/D/E W6673AL/W6773AL	FF,Rp,Bm	1 Comb. Type C, CF Air Pres. psig: 6-65 Hose Length feet: 25-300	A
382	Racal	PD1-1 PD1-2	FF,Rp,Fm	1 Comb. Type C, Pd Air Pres. psig: 85-120 Hose Length feet: 25-300	R,A
384	Willson	6440/S6440 6540/S6540 W6440/W6540	FF,Rp,Fm	2	A
385	ISI	707.141.00 707.141.01 707.141.02 707.141.03 707.141.04	FF,Rp,Fm	1 Comb. Type C, Pd Air Press. psig: 80-120 Hose Length feet: 25-300	
387	Willson	6673/S6673 6773/S6773 W6673/W6773	Rp,Fm,FF	1	A
391	Scott	66STC-H S66STC-H 66MTC-H S66MTC-H	Rp,Fm,ON	2	A,R

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
391 Cont.		66LTC-H S66LTC-H			
393	Willson	6693-A,B,C,D S6693-A,B,C,D 6793-A,B,C,D S6793-A,B,C,D W6693/W6793	Rp,Fm,FF	A Comb. Type C, Pd Hose Length feet / Air Press. psig R714: 25 - 300 / 75 - 125 R814: 50 - 100 / 75 - 125 R825: 25 - 50 / 75 - 125	
396	MSA	481886/481887 481903/481904 481909 thru 481911	ON,Rp,Bm	1 Comb. Type C, Pd Hose Length feet: 8 - 300 Air Press. psig: 65 - 85	A
397	MSA	481885 481889 481890 481897 thru 481899	FF,Bm,Rp	1 Comb. Type C, Pd Hose Length feet: 8 - 300 Air Press. psig: 65 - 85	A
398	MSA	481894 thru 481896 481906 thru 481908 481912 thru 481914	ON,Bm,Rp NOT APPROVED FOR RADIONUCLIDES	1 Comb. Type C, Pd Hose Length feet: 8 - 300 Air Press. psig: 65 - 85	A
399	MSA	481891 481892 481893 481900 481901 481902	FF,Bm,Rp NOT APPROVED FOR RADIONUCLIDES	1 Comb. Type C, Pd Hose Length feet: 8 - 300 Air Press. psig: 65 - 85	A
402	Neoterik	NP1801 NP1801-1 NP1801-2 NP1801-3 NP1801-4	PAPR,HH	1	R,A,AB
403	Neoterik	NP1801-6	PAPR,ON	1	R,A

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
404	Neoterik	NP1801-5 NP1801-7 NP1800	PAPR,FF	1	R,A
405	Neoterik	NP1900	PAPR,FF	3	R,A
406	Neoterik	NP1880 NP1880-1 NP1880-2 NP1880-3 NP1880-4 NP1880-5 NP1880-6	Rp,Fm,FF	2	R,A

Comb. Type C, CF

Valve	Air Press. psig	Hose Length feet
1840	13-16	25-100
1841	50-60	25-300
1842	60-70	25-300

For 1/2" Hose and NP1840 Adaptor Only:

Hose Length feet	Press. Range psig
50 - 100	9 - 11

407	Neoterik	NP1880-PD NP1880-1-PD NP1880-2-PD NP1880-3-PD NP1880-4PD NP1880-5PD NP1880-6PD	Rp,Fm,FF	2	R,A

Comb. Type C, Pd

Valve	Hose Length feet	Press Range psig
1840	50 - 300	10 - 26
1841	50 - 300	30 - 47
1842	50 - 300	44 - 64

For 1/2" Hose and NP1840 Adaptor Only:

Hose Length feet	Press. Range psig
50	7 - 11
100	8 - 13
150	9 - 15
200	10 - 16
250	11 - 17
300	12 - 18

408	Neoterik	NP1900-1PD NP1900-2PD NP1900-3PD	PAPR,FF	3	R,A

Comb. Type C, Pd

Valve	Hose Length feet	Press Range psig
1840	50 - 300	10 - 26
1841	50 - 300	32 - 50
1842	50 - 300	50 - 70

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
413	Koken	RE1290S-K RE1290L-K	ON,Rp,Fm	2	R,A
414	Survivair	9812-03	Rp,Fm,FF	2 Comb. Type C,CF Hose Length feet: 25 -300 Press. Range psig: 30 - 125	RA
417	Cabot Safety	S7557A S7557AC	FF,Rp,Fm	2 For S7557AC Comb. Type C, CF Hose Length feet / Press. Range psig: 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig: 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	R,A
423	Glendale	GR9550	Rp,Fm,ON	2	R,A
425	Neoterik	NP1900-1 NP1900-2 NP1900-3	FF,PAPR Valve / Hose Length feet / Press. Range psig: 1840: 25 - 100 / 14 - 16 1841: 25 - 300 / 50 - 60 1842: 25 - 300 / 60 - 70	3 Comb. Type C, CF	R,A
426	MSA	484378 484382 484383 484390 484391 484392	Rp,Bm,FF	1 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	A
427	MSA	484379 thru 484381	Rp,Bm,FF	1	A

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
427 Cont.		484396 thru 484398 484402 thru 484404 490345 thru 490347 490351 thru 490353		Comb. Type C, Pd Hose Length feet: 8 - 300	Press. Range psig: 65 - 85
428	MSA	484384 thru 484386 484393 thru 484395	Rp,Bm,FF	1 Comb. Type C, Pd Hose Length feet: 8 - 300	A Press. Range psig: 65 - 85
429	MSA	484387 thru 484389 484400, 484401 484405 thru 484407 490348 thru 490350 490354 thru 490356	Rp,Bm,ON	1 Comb. Type C, Pd Hose Length feet: 8 - 300	A Press. Range psig: 65 - 85
430	MSA	484485 484452 thru 484454 484464 thru 484466	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet: 8 - 300	A Press. Range psig: 65 - 85
432	MSA	484458 thru 484460 484470 thru 484472	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet: 8 - 300	A Press. Range psig: 65 - 85
434	MSA	484002 484018 484019 484020 484030 484031 489269* 489273*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length feet: 8 - 300	A Press. Range psig: 35 - 40
436	MSA	484024 484025 484026 484036 484037 484038	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2 Comb. Type C, CF Hose Length feet: 8 - 300	A Press. Range psig: 35 - 40

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
436 Cont.		489274*			
437	3M	9970	Su,ON	1	
438	3M	9970	Su, ON	1	A
439	3M	7219	Rp,Fm,ON	2	R,A
440	3M	7819 7819-C 7819-H 7819-L	Rp,Fm,FF	2	R,A

For 7819C:

Comb. Type C, CF Hose Length feet	Press. Range psig
25	15 - 25
50	18 - 25
100	19 - 30
200	25 - 40
300	25 - 55

For 7819-H and 7819-L Comb. Type C, CF

Hose Length feet	Press. Range (psig) 7819H	7819L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

441	RSI	101270-1 101270-21 101270-31	Rp,Fm,FF	1	A

Comb. Type C, Pd Hose Length feet	Pressure Range (psig)
16-300	65 - 85

442	National Draeger	4052460 4052461 4052464 4052465	Rp,Fm,FF	1	

Comb. Type C, Pd Hose Length feet	Pressure Range (psig)
25-300	90 - 120

446	Neoterik	NP2000	FF,PAPR	2	R,A

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
447	Neoterik	NP2000-1PD NP2000-2PD NP2000-3PD NP2000-4PD	FF,PAPR	2	R,A

Comb. Type C, Pd

Hose Length feet	Pressure Range (psig) NP1840	NP1841
50	10-16	40-50
100	14-20	42-52
150	15-22	44-54
200	18-24	45-55
250	19-26	47-57
300	20-26	48-58

For 1/2" Hose and NP1840 Adaptor Only:

Hose Length feet	Press. Range psig
50	7 - 11
100	8 - 13
150	9 - 15
200	10 - 16
250	11 - 17
300	12 - 18

448	Neoterik	NP2000-1 NP2000-2 NP2000-3 NP2000-4	FF,PAPR	2	R,A

Comb. Type C, CF

Adapter	Hose Length feet	Pressure Range (psig)
NP1840	25-100	13-16
NP1841	25-300	50-60

For 1/2" Hose and NP1840 Adaptor Only:

Hose Length feet	Press. Range psig
50 - 100	9 - 11

449	Neoterik	NP1800-5 NP1800-12 NP1800-14 NP1800-15 NP1800-16	FF,PAPR	1	R,A

Comb. Type C, CF

Adapter	Hose Length feet	Pressure Range (psig)
NP1840	25-100	12-16
NP1841	25-300	40-60

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
449 Cont.			For 1/2" Hose and NP1840 Adaptor Only:		
			Hose Length feet: 50 - 100	Press. Range psig: 9 - 11	
450	Neoterik	NP1800-6 NP1800-13	ON,PAPR	1	R,A
			Comb. Type C, CF		
			Adapter	Hose Length feet	Pressure Range (psig)
			NP1840	25-100	12-16
			NP1841	25-300	40-60
451	Neoterik	NP1800-5PD NP1800-12PD NP1800-16PD	FF,PAPR	1	R,A
			Comb. Type C, Pd		
			Hose Length feet	Pressure Range (psig) NP1840	NP1841
			50	10-16	40-50
			100	14-20	42-52
			150	15-22	44-54
			200	18-24	45-55
			250	19-26	47-57
			300	20-26	48-58
			For 1/2" Hose and NP1840 Adaptor Only:		
			Hose Length feet	Press. Range psig	
			50	7 - 11	
			100	8 - 13	
			150	9 - 15	
			200	10 - 16	
			250	11 - 17	
			300	12 - 18	
452	Willson	6483/S6483 6583/S6583 6683/S6683 6783/S6783 W6483/W6583 W6683/W6783	FF,PAPR,Bm	1	A
453	Willson	6383S/M/L/SR/MR/LR	ON,PAPR,Bm	1	A
454	Neoterik	NP2001	FF,Rp,Fm	2	R,A

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
455	Survivair	9811-03	FF,Rp,Fm	2	RA

Comb. Type C, Pd

Hose Length feet	Pressure Range (psig)
25-300	60-125

456	3M	W415	FF,PAPR,Bm	1	A

457	Neoterik	NP2001-1 NP2001-2 NP2001-3 NP2001-4	FF,Rp,Fm	2	R,A

Comb. Type C, CF

Adapter	Hose Length feet	Pressure Range (psig)
NP1840-FB	25-100	13-16
NP1841-VB	25-300	43-48
NP1842-CB	25-300	70-86

For 1/2" Hose and NP1840 Adaptor Only:

Hose Length feet	Press. Range psig
50 - 100	9 - 11

458	Neoterik	NP2001-1PD NP2001-2PD NP2001-3PD NP2001-4PD	FF,Rp,Fm	2	R,A

Comb. Type C, Pd

Hose Length feet	Pressure Range (psig) NP1840-FB	NP1841-VB	NP1841-CB
50	10-16	40-50	50-60
100	14-20	42-52	52-62
150	15-22	44-54	54-64
200	17-24	45-55	56-66
250	18-26	47-57	58-68
300	20-26	48-58	60-70

For 1/2" Hose and NP1840 Adaptor Only:

Hose Length feet	Press. Range psig
50	7 - 11
100	8 - 13
150	9 - 15
200	10 - 16
250	11 - 17
300	12 - 18

459	Kasco	K80S-T5A/BP3-2	HH,PAPR	1	A

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
460	Neoterik	NP2100	FF,PAPR	1	R,A
461	Neoterik	NP2100-3 NP2100-4 NP2100-1 NP2100-2	FF,PAPR	1	R,A

Comb. Type C, CF

Adapter	Hose Length feet	Pressure Range (psig)
1840	25-100	13-16
1841	25-300	50-60

For 1/2" Hose

Adaptor	Hose Length feet	Press. Range psig
NP1840-FB	25 - 100	9 - 11
NP1841-VB	25 - 300	31 - 36

462	Racal	Select-Air 1	FF,RP,Fm	1	R,A

Comb. Type C, CF

Hose Length feet	Pressure Range (psig)
25-300	50-60

463	Racal	Select-Air 2	FF,RP,Fm	1	R,A

Comb. Type C, Pd

Hose Length feet	Pressure Range (psig)
25-300	50-60

467	Masprot	M-2.202/M2	ON,RP,Fm	2	A
468	MSA	486365 thru 486367 486371 thru 486373 486377 thru 486379 486383 thru 486385	FF,Rp,PAPR	2	A
469	MSA	486368 thru 486370 486374 thru 486376 486380 thru 486382 486386 thru 486388	FF,Rp,PAPR NOT APPROVED FOR RADIONUCLIDES	2	A
470	MSA	486419 thru 486421 486425 thru 486427	ON,Rp,PAPR	2	A

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
470 Cont.		486431 thru 486433			
		486437 thru 486439			
		486443 thru 486445			
		486449 thru 486451			
		486389 thru 486391			
		486395 thru 486397			
		486401 thru 486403			
		486407 thru 486409			
		486413 thru 486415			
		486455 thru 486457			
		490247 thru 490249			
		490253 thru 490255			
		490259 thru 490261			
		490265 thru 490267			
		490307 thru 490309			
		490313 thru 490315			
		490319 thru 490321			
		490325			
471	MSA		ON,Rp,PAPR	2	A
		486392 thru 486394			
		486398 thru 486400			
		486404 thru 486406			
		486410 thru 486412			
		486416 thru 486418			
		486422 thru 486424			
		486428 thru 486430			
		486434 thru 486436			
		486440 thru 486442			
		486446 thru 486448			
		486452 thru 486454			
		486458 thru 486460			
		490250 thru 490252			
		490256 thru 490258			
		490262 thru 490264			
		490268 thru 490270			
		490310 thru 490312			
		490316 thru 490318			
		490322 thru 490324			
		490328 thru 490330			
472	MSA	486461	HH,PAPR	2	A
		486463			
		486465			
		486467			
473	MSA	486462	HH,PAPR	2	A
		486464			
		486466	NOT APPROVED FOR RADIONUCLIDES		
		486468			

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
474	Bullard	QMPE	FF,PAPR	2	R,A
475	3M	7806-H 7806-L 7806-PD	Rp,Fm,FF	2	R,A

Comb. Type C, Pd

Hose Length feet	Pressure Range (psig) 7806-H	Pressure Range (psig) 7806-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

For 7806-PD

Hose Length feet	Pressure Range (psig)
25	80 - 100
50	80 - 100
100	80 - 100
200	80 - 100
300	80 - 100

477	3M	7819-H 7819-L 7819-PD	Rp,Fm,FF	2	R,A

Comb. Type C, Pd

Hose Length feet	Pressure Range (psig) 7819-H	Pressure Range (psig) 7819-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

For 7819-PD

Hose Length feet	Pressure Range (psig)
25	80 - 100
50	80 - 100
100	80 - 100
200	80 - 100
300	80 - 100

480	Racal	BE10/P3	HH,PAPR	3	R,A
481	North	9880	FF,Fm,PAPR	2	R,A
482	Neoterik	NP2100-5PD NP2100-6PD NP2100-7PD NP2100-8PD	FF,PAPR	1	R,A

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
482 Cont.					

For 1/2" Hose

Adaptor	Hose Length feet	Press. Range psig
NP1840-FB	25 - 100	9 - 11
NP1841-VB	25 - 300	31 - 36

Comb. Type C, Pd

For 3/8" Hose

Hose Length feet	Pressure Range (psig) NP1840 Adapter	NP1841 Adapter
50	10-16	40-46
100	14-20	42-48
150	15-22	44-50
200	18-24	45-51
250	19-26	47-53
300	20-26	48-54

For 1/2" Hose

Hose Length feet	Pressure Range (psig) NP1840 Adapter	NP1841 Adapter
50	7-11	28-36
100	8-13	28-37
150	9-15	29-38
200	10-16	30-38
250	11-17	31-39
300	12-18	32-40

483	3M	W421/W422 W416/W417	HH,PAPR	1	A
484	Bullard	QHP	HH,PAPR	2	R,A
485	Pro-Tech	2601-HEPA	FF,Fm,Rp,Es	1	R,A

Comb. Type C, CF

Hose Length feet	Pressure Range (psig)
25-300	30-60

486	Pro-Tech	2611-HEPA	FF,Fm,Rp,Es	1	R,A

Comb. Type C, CF

Hose Length feet	Pressure Range (psig)
25-300	8-25

487	Pro-Tech	2621-HEPA	FF,Fm,Rp	1	R,A

Comb. Type C, CF

Hose Length feet	Pressure Range (psig)
25-300	40-55

488	3M	9101* 7220	ON,Fm,Rp	2	R,A

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
489	3M	7821 7821-C 7821-H 7821-L	FF,Fm,Rp	2	R,A

For 7821-C, 7821-H, and 7821-L
Comb. Type C, CF

Hose Length feet	Pressure Range (psig) 7821-L
25	15-40
50	15-40
100	17-45
200	22-55
300	25-70

Hose Length feet	Pressure Range (psig) 7821-H	7821-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

490	3M	7821-H 7821-L 7821-PD	FF,Fm,Rp	2	R,A

Comb. Type C, Pd

Hose Length feet	Pressure Range (psig) 7821-H	7821-L	Pressure Range (psig) 7821-PD
25	8-15	7-11	80-100
50	10-19	7-11	80-100
100	12-21	7-12	80-100
200	17-31	8-16	80-100
300	21-36	10-18	80-100

491	Survivair	7812-04 9812-04 9812-14	FF,Fm,Rp	2	R,A

Comb. Type C, Pd

Hose Length feet	Pressure Range (psig)
25	16-25
50	19-30
75	22-30
100	23-30
150	25-45
200	28-50
250	31-55
300	33-60

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
491 Cont.					
	Hose and Coupling			Hose Length feet	Pressure Range (psig)
	930801 & 930840 (OBAC)			25	12.5-25
	930802 & 930840 (OBAC)			50	13.5-30
492	ISI	703.006.01 703.005.01	FF,PAPR	1	RA
493	Cabot Safety	ZR500/ZS500	FF,PAPR	2	RA
495	MSA	487843 through 487848	FF,PAPR	1	A
496	MSA	487849 through 487854	FF,PAPR NOT APPROVED FOR RADIONUCLIDES	1	A
497	National Draeger	4052829 4052830	FF,Rp,Fm	1	A
498	Pro-Tech	3601	FF,PAPR	1	A
499	Survivair	5100-00 5200-00	FF,PAPR	1	RA
500	MSA	489886 thru 489888 489898 thru 489900 489910 thru 489912 489922 thru 489924 489934 thru 489936 489946 thru 489948 490036* 490056* 490076	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet) 8 - 300 Press. Range psig 85 - 100	A
502	MSA	489892 thru 489894 489904 thru 489906 489916 thru 489918 489928 thru 489930 489940 thru 489942 489952 thru 489954	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES Comb. Type C, CF Hose Length (feet) 8 - 300 Press. Range psig 85 - 100	2	A

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
503	MSA	490010 490014 490018	Rp,Bm,FF	1 Comb. Type C, CF Hose Length (feet): 8 - 300 Press. Range psig: 85 - 100	A
504	MSA	490011 490015 490019 490022	Rp,Bm,ON	1 Comb. Type C, CF Hose Length (feet): 8 - 300 Press. Range psig: 85 - 100	A
505	MSA	490016 490012 490020	Rp,Bm,FF NOT APPROVED FOR RADIONUCLIDES	1 Comb. Type C, CF Hose Length (feet): 8 - 300 Press. Range psig: 85 - 100	A
506	MSA	490013 490017 490021 490023	Rp,Bm,ON NOT APPROVED FOR RADIONUCLIDES	1 Comb. Type C, CF Hose Length (feet): 8 - 300 Press. Range psig: 85 - 100	A
507	MSA	490024 490044 490057 490064 490077	Rp,Bm,ON NOT APPROVED FOR RADIONUCLIDES	1 Comb. Type C, CF Hose Length (feet): 8 - 300 Press. Range psig: 85 - 100	A
508	Willson	6663A-D/S6663A-D 6763A-D/S6763A-D W6663/W6763 Comb. Type C, Pd	FF,Rp,Fm	1	A

Hose Length (feet)	R714A	R714B	R714C	R714D
25 - 300	60-100	60-100	60-100	60-100

(b) One (1) section of approved R814 air supply hose within the following pressure range limitations (in psig)

Hose Length (feet)	R814A	R814B	R814C	R814D
50 - 100	60-100	60-100	60-100	60-100

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
508 Cont.					

(c) One (1) section of approved R825 air supply hose within the following pressure range limitations (in psig).

Hose Length (feet)	R825A	R825B	R825C	R825D
25 - 50		60-100	60-100	60-10060-100

509	Critical Products Group	5140S 5140M 5140L	Rp,Fm,ON	2	A
510	Racal	260-01-11	Rp,Fm,FF	1	RA
511	Bullard	QHC	PAPR,HH Comb. Type C, CF	2	RA

Hose	Supplied Air	Length	#Hose Lengths	Adaptor Hose	Pressures
V-10	QA-30	25-50	2	1/4"	17-22
V-10	QA-30	75-100	3	1/4"	23-28
V-10	QA-30	125-150	3	1/4"	26-35
V-10	QA-30	175-225	4	1/4"	32-38
V-10	QA-30	250-300	5	1/4"	35-45
V-20	QA-35	25-50	2	1/2"	8-11
V-20	QA-35	75-100	3	1/2"	9-14
V-20	QA-35	125-150	3	1/2"	11-15
V-20	QA-35	175-225	4	1/2"	13-18
V-20	QA-35	250-300	5	1/2"	15-20

512	MSA	491175 thru 491177 491181 thru 491183 491187 thru 491189 491193 thru 491195	FF,PAPR	2	A
513	MSA	491199 thru 491201 491205 thru 491207 491211 thru 491213 491217 thru 491219 491223 thru 491225 491229 thru 491231 491235 thru 491237 491241 thru 491243 491427 thru 491249 491253 thru 491255 491259 thru 491261 491265 thru 491267 491271 thru 491273	ON,PAPR	2	A

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
513 Cont.		491277 thru 491279			
		491283 thru 491285			
		491289 thru 491291			
		491303			
		491305			
		491309 thru 491311			
		491315 thru 491316			
		491137			
		491321 thru 491323			
514	MSA		ON,PAPR	2	A
		491202 thru 491204			
		491208 thru 491210	NOT APPROVED FOR RADIONUCLIDES		
		491214 thru 491216			
		491217 thru 491219			
		491220 thru 491222			
		491226 thru 491228			
		491232 thru 491234			
		491238 thru 491240			
		491244 thru 491246			
		491250 thru 491252			
		491256 thru 491258			
		491262 thru 491263			
		491280 thru 491282			
		491286			
		492269 thru 491270			
		491274 thru 491276			
		491287 thru 491288			
		491292 thru 491294			
		491306 thru 491308			
		491312 thru 491314			
		491318 thru 491320			
		491324 thru 491326			
515	MSA		FF,PAPR	2	A
		491178 thru 491180			
		491184 thru 491186	NOT APPROVED FOR RADIONUCLIDES		
		491190 thru 491192			
		491196 thru 491198			
516	MSA	491295	HH,PAPR	2	A
		491297			
		491299			
		491301			
517	MSA	491296	HH,PAPR	2	A
		491298			
		491300	NOT APPROVED FOR RADIONUCLIDES		
		491302			

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
522	Cabot Safety	R7457A S7457A	Rp,Fm,FF	2	RA
526	Glendale	GR-600-PA	ON,PAPR	2	RA
527	Glendale	GR-955-PA	FF,PAPR	2	RA
528	Pulsafe	TMR5	FF,PAPR	1	RA
529	Pro-Tech	2631-HEPA	FF,Fm,Rp	1 Type C, Pd Hose Length feet: 25-300 Pressure Range (psig): 40-85	HRA
530	3M	W427	FF,PAPR	1	A
531	Cabot Safety	RP7403 SP7403	FF,PAPR	2	RA
533	Cabot Safety	R4557B/S4557B R5557B/S5557B R6557B/S6557B	ON,Rp,Fm	2	RA
534	Cabot Safety	R7457B/S7457B	Rp,Fm,FF	2	RA
535	Cabot Safety	R7757B/S7757B	Rp,Fm,FF	2	RA
536	Cabot Safety	R7557BC/S7557BC	Rp,Fm,FF	2 For S7557BC: Type C, CF 3/8" I.D. Hose Length feet / Pressure Range (psig): 25-75 / 17-25 100-150 / 20-29 175-225 / 23-32 250-300 / 26-35	RA

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
536 Cont.			3/8" I.D. Hose Length feet / Pressure Range (psig): 25-75 / 14-22; 100-150 / 16-26; 175-225 / 18-29; 250-300 / 20-32		
537	Cabot Safety	R7457BC/S7457BC	Rp,Fm,FF	2	RA
			Type C, CF 3/8" I.D. Hose Length feet / Pressure Range (psig): 25-75 / 13-38; 100-150 / 16-44; 175-225 / 19-50; 250-300 / 21-55 1/2" I.D. Hose Length feet / Pressure Range (psig): 50-100 / 12-38; 150-200 / 14-41; 250-300 / 15-45		
538	Cabot Safety	R7457BC-PD/S7457BC-PD	Rp,Fm,FF	2	RA
			Type C, Pd 3/8" I.D. Hose Length feet / Pressure Range (psig): 25-75 / 20-34; 100-150 / 25-38; 175-225 / 28-44; 250-300 / 30-48 1/2" I.D. Hose Length feet / Pressure Range (psig): 50-100 / 18-33; 150-200 / 22-36; 250-300 / 24-38		
539	Cabot Safety	R7457AC/S7457AC	Rp,Fm,FF	2	RA
			Type C, CF 3/8" I.D. Hose Length feet / Pressure Range (psig): 25-75 / 13-38; 100-150 / 16-44		

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
539 Cont.				175-225	19-50
				250-300	21-55
				1/2" I.D. Hose Length feet	Pressure Range (psig)
				50-100	12-38
				150-200	14-41
				250-300	15-45
541	Cabot Safety	R7457AC-PD/S7457AC-PD	Rp,Fm,FF	2	RA
				Type C, Pd	
				3/8" I.D. Hose Length feet	Pressure Range (psig)
				25-75	20-34
				100-150	25-38
				175-225	28-44
				250-300	30-48
				1/2" I.D. Hose Length feet	Pressure Range (psig)
				50-100	18-33
				150-200	22-30
				250-300	24-38
542	Hornell Speedglas	PA APC/P3	HH,PAPR	3	RA
543	Cabot Safety	R2057A	Rp,Fm,ON	1	RA
544	Cabot Safety	R2057B	Rp,Fm,ON	1	RA
546	Survivair	5380-00 5480-00	FF,PAPR	3	RA
547	Willson	2140 2240 2340	Su,ON	2	A

Chemical Cartridge Respirators (23C)

E. Chemical Cartridges

1. Ammonia

Approval

Approved for respiratory protection against not more than 300 parts per million ammonia.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow the manufacturer's instructions for changing cartridges or for discarding disposable respirators.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types and approved use concentrations on gases and vapors.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
43	MSA	459436 461008 489746 489806	Rp,Fm,Bm,ON	2	D,M	MA
63	North	7504*/S*/M*/L* 7704S/M/L	Rp,Fm,ON	2		MA
64	North	7514*/S*/M*/L* 7714S/M/L	Rp,Fm,ON	2	DM	MA
70	Willson	1224/S/SS/SSS/R/SR S1224/S/SS/SSS/R/SR	Rp,Fm,ON	2		MA
71	Willson	122410/S/SS/SSS/R/SR S122410/S/SS/SSS/R/SR	Rp,Fm,ON	2	D,M	MA
109	Cabot Safety	R4054* R5054* R6054*	Rp,Fm,ON	2		MA
139	Willson	1624/1724	Rp,Fm,FF	2		MA
140	Willson	162410 172410	Rp,Fm,FF	2	D,M	MA
147	MSA	461851 483483	Rp,Fm,FF	2	D,M	MA
152	MSA	461857 483489	Rp,Fm,FF	2	H,A	MA
158	MSA	460849 461015 489753 489812	Rp,Fm,Bm,ON	2	H,A	MA

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
176	North	75BP04*/M*/L* 77BP04S/M/L	Rp,Bm,ON	2		MA
177	North	75BP14*/M*/L* 77BP14S/M/L	Rp,Bm,ON	2	D,M	MA
182	North	7604/S*/N*/SN*	Rp,Fm,FF	2		MA
187	North	7614/S*/N*/SN*	Rp,Fm,FF	2	D,M	MA
191	US Safety	150T22 150L22 100S22/200S22 100M22/200M22 100L22/200L22 300S/L22 300M/L22	Rp,Fm,ON	2		MA
192	Cesco	95RC65 95SMRC65 100S22/200S22 100M22/200M22 100L22/200L22 300S/L22 300M/L22	Rp,Fm,ON	2		MA
193	US Safety	150T27 150L27 100S27/200S27 100M27/200M27 100L27/200L27 300S/M27 300M/L27	Rp,Fm,ON	2	D,M	MA
193	Lab Safety Supply	11291-S-6 11291-M-6 11291-L-6				
194	Cesco	95RC95 95SMRC95 100S27/200S27 100M27/200M27 100L27/200L27	Rp,Fm,ON	2	D,M	MA

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
194 Cont.		300S/M27 300M/L27				
213	North	7584* 7584S*/M*/L* 7784S/M/L	Rp,Fm,ON	2	HRA	MA
214	North	75BP84*/M*/L* 77BP84S/M/L	Rp,Bm,ON	2	H,R,A	MA
215	North	7684/7684S*	Rp,Fm,FF	2	H,R,A	MA
217	3M	8727 8728	Su,ON	1 8728 only	D,M	MA
235	Cabot Safety	R7054*	Rp,Fm,FF	2		MA
252	Scott	6411-0004* 6412-0004* 6413-0004* 6422-0004* 64-AM* 64E-AM* 64M-AM* 64ME-AM* 64S-AM* 64SE-AM*	Rp,Fm,ON	2		MA
REPLACED BY TC-23C-772						
253	Scott	6470-0004* 65-AM 6480-0004* 65S-AM 65XL-AM A65-AM A65S-AM A65XL-AM	Rp,Fm,FF	2		MA
254	Scott	6411-0104* 64-AM-D* 6413-0104* 64E-AM-D* 6421-0104* 64M-AM-D* 6423-0104*	Rp,Fm,ON	2	DM	MA

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
254 Cont.		64ME-AM-D* 6412-0104* 64S-AM-D* 6422-0104* 64SE-AM-D*				
255	Scott	6470-0104* 6480-0104 65-AM-D 65S-AM-D 65XL-AM-D A65-AM-D A65S-AM-D A65XL-AM-D	Rp,Fm,FF	2	D,M	MA
256	Scott	6411-0304* 6412-0304* 6413-0304* 6421-0304* 6422-0304* 6423-0304* 64-AM-F* 64E-AM-F* 64M-AM-F* 64ME-AM-F* 64S-AM-F* 64SE-AM-F*	Rp,Fm,ON	2	DFMR	MA
257	Scott	6470-0304* 6480-0304* 65-AM-F 65S-AM-F 656XL-AM-F A65-AM-F A65S-AM-F A65XL-AM-F	Rp,Fm,FF	2	D,F,M,R	MA
269	Cesco	96RC95	Rp,Fm,FF	2	D,M	MA
270	US Safety	151T27	Rp,Fm,FF	2	D,M	MA
270	Lab Safety Supply	11292-6				
279	Protech	1482-G106 1482-S-G106 1482-L-G106 1585S-G106	Rp,Fm,ON	2		MA

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
279 Cont.		1585-G106 1585L-G106				
280	Protech	1482-G106-F100 1482-S-G106-F100 1482-L-G106-F100 1585S-G106-F100 1585-G106-F100 1585L-G106-F100	Rp,Fm,ON	2	D,M	MA
283	Pulmosan	10018 10246 10192 10279	Rp,Fm,ON	1		MA
284	Pulmosan	10033* 10207* 10258* 10291*	Rp,Fm,ON	1	D,M	MA
289	Willson	1234/S/SS/SSS/R/SR S1234/S/SS/SSS/R/SR	Rp,Fm,ON	2		MA
290	Willson	1634/1734	Rp,Fm,FF	2		MA
291	Willson	123412/S/SS/SSS/R/SR S123412/S/SS/SSS/R/SR	Rp,Fm,ON	2	H,A	MA
292	Willson	163412 173412	Rp,Fm,FF	2	H,A	MA
314	Cesco	95RC60/95SMRC60 100S42/200S42 100M42/200M42 100L42/200L42 300S/M42 300M/L42	Rp,Fm,ON	2	H,R,A	MA
315	US Safety	150T42/150L42 100S42/200S42 100M42/200M42	Rp,Fm,ON	2	H,R,A	MA

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
315 Cont.		100L42/200L42 300S/M42 300M/L42				
315	Lab Safety Supply	11291-S-11 11291-M-11 11291-L-11				
316	Cesco	96RC60	Rp,Fm,FF	2	H,R,A	MA
317	US Safety	151T42	Rp,Fm,FF	2	H,R,A	MA
317	Lab Safety Supply	11292-7				
319	Sellstrom	315-G106	Rp,Fm,ON	2		MA
329	Cabot Safety	R4054A/S4054A R4554A/S4554A R5054A/S5054A R6054A/S6054A R5554A/S5554A R6554A/S6554A	Rp,Fm,ON	2		MA
330	Cabot Safety	R7054A/S7054A R7754A/S7754A	Rp,Fm,FF	2		MA
331	Cabot Safety	R4054AD/S4054AD R4554AD/S4554AD R5054AD/S5054AD R6054AD/S6054AD R5554AD/S5554AD R6554AD/S6554AD	Rp,Fm,ON	2	D,M	MA
332	Cabot Safety	R7054AD/S7054AD R7754AD/S7754AD	Rp,Fm,FF	2	D,M	MA
347	Eastern	E453* 293	Rp,Fm,ON	2		MA

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
350	North	10004S/M	Su,ON	1		MA
358	North	10014S/M	Su,ON	1	D,M	MA
364	Willson	3024*/S/SS/SSS/R/SR S3024/S/SS/SSS/R/SR	Rp,Bm,ON	2		MA
365	Willson	3124*/3224*	Rp,Bm,FF	2		MA
366	Willson	3034*/S/SS/SSS/R/SR S3034/S/SS/SSS/R/SR	Rp,Bm,ON	2		MA
367	Willson	3134*/3234*	Rp,Bm,FF	2		MA
378	Willson	302410*/S/SS/SSS/R/SR S302410/S/SS/SSS/R/SR	Rp,Bm,ON	2	D,M	MA
379	Willson	312410* 322410*	Rp,Bm,FF	2	D,M	MA
384	Willson	303412*/S/SS/SSS/R/SR S303412/S/SS/SSS/R/SR	Rp,Bm,ON	2	H,A	MA
385	Willson	313412* 323412*	Rp,Bm,FF	2	H,A	MA
403	Glendale	GR1624 GR2024 GR4024 GR8024	Rp,Fm,ON	2		
412	Glendale	GR7024	Rp,Fm,FF	2	D,M	
419	Cabot Safety	R5054HE/S5054HE R4054HE/S4054HE R4554HE/S4554HE R6054HE/S6054HE	Rp,Fm,ON	2	H,R,A	MA

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
419 Cont.		R5554HE/S5554HE R6554HE/S6554HE				
420	Cabot Safety	R7054HE/S7054HE R7754HE/S7754HE	Rp,Fm,FF	2	H,R,A	MA
422	Survivair	2104-00/-10 2204-00/-10 2304-00/-10	Rp,Fm,ON	2		MA
423	Survivair	3204-00 4204-00/-10 4104-10	Rp,Fm,ON	2		MA
440	3M	7204	Rp,Fm,ON	2		MA
441	3M	7211	Rp,Fm,ON	2	D,M,Z	M
442	3M	7215	Rp,Fm,ON	2	H,R,A	MA
457	Protech	1482-G106-G208 1482-S-G106-G208 1482-L-G106-G208 1585S-G106-G208 1585-G106-G208 1585L-G106-G208	Rp,Fm,ON	2	H,R,A	MA
463	MSA	472751 489776	Rp,Bm,ON	2	D,M	MA
468	MSA	472758 489783	Rp,Bm,ON	2	H,A	MA
498	Pulmosan	10417*	Rp,Fm,FF	1		MA
502	Pulmosan	10429*	Rp,Fm,FF	1	D,M	MA
513	MSA	469730	Rp,Fm,ON	1		MA

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
515	Pirelli	4336.2022	Rp,Fm,ON	2		MA
519	Scott	64-AM-H* 64E-AM-H* 64M-AM-H* 64ME-AM-H* 64S-AM-H* 64SE-AM-H*	Rp,Fm,ON	2	HRA	MA
REPLACED BY TC-23C-775						
520	Scott	65-AM-H 65S-AM-H 65XL-AM-H A65-AM-H A65S-AM-H A65XL-AM-H	Rp,Fm,FF	2	H,R,A	MA
528	Pirelli	4332.2022	Rp,Fm,FF	2		
544	Safety Supply	F-200-AM F-160-AM F-800-AM	Rp,Fm,ON	2		
545	Safety Supply	F-700-AM	Rp,Fm,FF	2		
559	Willson	1524/R/SS	Rp,Fm,ON	2		MA
560	Willson	3524*/R/SS	Rp,Fm,ON	2		MA
561	Willson	1534/R/SS	Rp,Fm,ON	2		MA
562	Willson	3534*/R/SS	Rp,Fm,ON	2		MA
575	Willson	152410/R/SS	Rp,Fm,ON	2	D,M	MA
576	Willson	352410*/R/SS	Rp,Fm,ON	2	D,M	MA

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
581	Willson	153412/R/SS	Rp,Fm,ON	2	H,A	MA
582	Willson	353412*/R/SS	Rp,Fm,ON	2	H,A	MA
589	Racal	BE1/K	PAPR,HH	3		MA
590	Racal	BE3/KC BE7/KC	PAPR,FF	3		MA
591	Racal	BE5/K	PAPR,HH	3		MA
592	Racal	BE6/K	PAPR,HH	3		MA
612	Racal	BE8/K	PAPR,ON	3		MA
623	Glendale	GR-1624-50 GR-2024-50 GR-4024-50 GR-8024-50	Rp,Fm,ON	2	H,R,A	
624	Glendale	GR-7024-50	Rp,Fm,FF	2	H,R,A	
628	Neoterik	NP-1562-8	PAPR,ON	3		MA
633	Racal	BE4/K*	PAPR,HH	3		MA
639	Neoterik	NP1664-8 NP1564-8 1964-8	PAPR,FF	3		MA
641	Racal	BE1/KP3	PAPR,HH	3	H,R,A	MA
642	Racal	BE3/KP3 BE7/KP3	PAPR,FF	3	H,R,A	MA
643	Racal	BE4/KP3*	PAPR,HH	3	H,R,A	MA

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
644	Racal	BE5/KP3	PAPR,HH	3	H,R,A	MA
645	Racal	BE6/KP3	PAPR,HH	3	H,R,A	MA
646	Racal	BE8/KP3	PAPR,ON	3	H,R,A	MA
658	North	7594S*/M*/L* 7794S/M/L	Rp,Fm,ON	2	DFM	MA
659	North	75BP94M* 77BP94S/M/L	Rp,Bm,ON	2	D,F,M	MA
660	North	7694/7694S*	Rp,Fm,FF	2	D,F,M	MA
666	Protech	1694-G106	Rp,Fm,FF	2		MA
666	Eastern	793	Rp,Fm,FF	2		MA
667	Protech	1694-G106-F100	Rp,Fm,FF	2	D,M	MA
674	Protech	1694-G106-G208	Rp,Fm,FF	2	H,R,A	MA
686	3M	7804 7804C 7804-H 7804-L	Rp,Fm,FF For 7804C Combination Type C, CF	2		MA

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Hose Length (feet)	Press. Range psig 7804-H	Press. Range psig 7804-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
692	3M	7811 7811C 7811-L 7811-H	Rp,Fm,FF	2	D,M	MA

For 7811C Combination Type C, CF

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Hose Length (feet)	Press. Range psig 7811-H	Press. Range psig 7811-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

696	3M	7815 7815C 7815-L 7815-H	Rp,Fm,FF	2	H,R,A	MA

For 7815C Combination Type C, CF

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Hose Length (feet)	Press. Range psig 7815-H	Press. Range psig 7815-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

723	Willson	122417/S/R/SR/SS/SSS 122417/S/R/SR/SS/SSS	ON,Rp,Fm	2	D,F,M	MA
724	Willson	162417 172417	FF,Rp,Fm	2	D,F,M	MA
725	Willson	152417/R/SS	ON,Rp,Fm	2	D,F,M	MA

CHEMICAL CARTRIDGES - AMMONIA

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
726	Willson	302417*/S/R/SR/SS/SSS S302417/S/R/SR/SS/SSS	ON,Rp,Bm	2	D,F,M	MA
727	Willson	312417* 322417*	FF,Rp,Bm	2	D,F,M	MA
728	Willson	352417*/R/SS	ON,Rp,Bm	2	D,F,M	MA
735	Willson	6104S/M/L/SR/MR/LR	ON,Rp,Fm	2		MA
739	Willson	6204S/M/L/SR/MR/LR	ON,Rp,Fm	1		MA
744	Willson	6404/S6404 6504/S6504 W6404/W6504	FF,Rp,Fm	2		MA
750	Willson	6414/S6414 6514/S6514 W6414/W6514	FF,Rp,Fm	2	DM	MA
752	Willson	6114S/M/L/SR/MR/LR	ON,Rp,Fm	2	DM	MA
758	Willson	6214S/M/L/SR/MR/LR	ON,Rp,Fm	1	DM	MA
761	Willson	6144S/M/L/SR/MR/LR	Rp,ON,Fm	2	HA	MA
762	Willson	6444/S6444 6544/S6544 W6444/W6544	Rp,Fm,FF	2	HA	MA
772	Scott	66STC-AM S66STC-AM 66MTC-AM S66MTC-AM	Rp,Fm,ON	2		MA

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
772 Cont.		66LTC-AM S66LTC-AM				
773	Scott	66STC-AM-D S66STC-AM-D 66MTC-AM-D S66MTC-AM-D 66LTC-AM-D S66LTC-AM-D	Rp,Fm,ON	2	DM	MA
774	Scott	66STC-AM-F S66STC-AM-F 66MTC-AM-F S66MTC-AM-F 66LTC-AM-F S66LTC-AM-F	Rp,Fm,ON	2	DFMR	MA
775	Scott	66STC-AM-H S66STC-AM-H 66MTC-AM-H S66MTC-AM-H 66LTC-AM-H S66LTC-AM-H	Rp,Fm,ON	2	HRA	MA
785	Willson	6124S/M/L/SR/MR/LR	Rp,Fm,ON	2	DFMR	MA
786	Willson	6424/S6424 6524/S6524 W6424/W6524	Rp,Fm,FF	2	DFMR	MA
795	Cabot Safety	S7554HE S7554HEC	FF,Rp,Fm	2 For S7557HEC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26	H,R,A	MA

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
795 Cont.				175 - 225 250 - 300	18 - 26 20 - 32	
800	Cabot Safety	S7554A S7554AC	Rp,Fm,FF	2 For S7554AC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 26 250 - 300 / 20 - 32		MA
810	Cabot Safety	S7554AD S7554ADC	Rp,Fm,FF	2 For S7554ADC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 26 250 - 300 / 20 - 32	DM	MA
823	Glendale	GR9524	Rp,Fm,ON	2		
824	Glendale	GR9524-50	Rp,Fm,ON	2	HRA	
827	Willson	6224S/M/L/SR/MR/LR	Rp,Fm,ON	1	DFM	MA

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
834	MSA	484477	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length (feet): 8 - 300 Press. Range (psig): 65 - 85	DM	MA
840	MSA	484483	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length (feet): 8 - 300 Press. Range (psig): 65 - 85	HA	MA
845	MSA	483994 489261*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range (psig): 35 - 40	DM	MA
856	MSA	484000 489267*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range (psig): 35 - 40	HA	MA
858	Cabot Safety	R9724A	Es,MP	1		MA
861	3M	5104 5204 5304	Su,ON	2		MA
862	3M	5114 5214 5314	Su,ON	2	DM	MA
879	3M	7804-H 7804-L 7804-PD	Rp,Fm,FF	2 Comb. Type C, PD		MA

Hose Length (feet)	Press. Range (psig) 7804-H	Press. Range (psig) 7804-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
879 Cont.				For 7804-PD		
				Hose Length (feet)	Press. Range psig	
				25	80 - 100	
				50	80 - 100	
				100	80 - 100	
				200	80 - 100	
				300	80 - 100	
885	3M	7811-H 7811-L 7811-PD	Rp,Fm,FF	2	DM	MA
				Comb. Type C, PD		
				Hose Length (feet)	Press. Range psig	
					7811-H 7811-L	
				25	8-15 7-11	
				50	10-19 7-11	
				100	12-21 7-12	
				200	17-31 8-16	
				300	21-36 10-18	
				For 7811-PD		
				Hose Length (feet)	Press. Range psig	
				25	80 - 100	
				50	80 - 100	
				100	80 - 100	
				200	80 - 100	
				300	80 - 100	
889	3M	7815-H 7815-L 7815-PD	Rp,Fm,FF	2	HRA	MA
				Comb. Type C, Pd		
				Hose Length (feet)	Press. Range psig	
					7815-H 7815-L	
				25	8-15 7-11	
				50	10-19 7-11	
				100	12-21 7-12	
				200	17-31 8-16	
				300	21-36 10-18	
				For 7815-PD		
				Hose Length (feet)	Press. Range psig	
				25	80 - 100	
				50	80 - 100	
				100	80 - 100	
				200	80 - 100	
				300	80 - 100	
895	Racal	BE10/K	HH,PAPR	3		MA

CHEMICAL CARTRIDGES - AMMONIA

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
898	Racal	BE10/KP3	HH,PAPR	3	HRA	MA
908	Cabot Safety	R4054AF/S4054AF R4554AF/S4554AF R5054AF/S5054AF R5554AF/S5554AF R6054AF/S6054AF R6554AF/S6554AF	Rp,Fm,ON	2	DFMR	MA
909	Cabot Safety	R7054AF/S7054AF R7754AF/S7754AF	Rp,Fm,FF	2	DFMR	MA
910	Cabot Safety	S7554AF S7554AFC	Rp,Fm,FF For S7554AFC combination, Type C, CF 3/8" I.D. Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 1/2" I.D. Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	2	DFMR	MA
935	MSA	489801 489765 489795 489824	Rp,ON,Fm NOT APPROVED FOR RADIONUCLUDES	2	HA	MA
936	MSA	489742	Rp,ON,Bm NOT APPROVED FOR RADIONUCLUDES	2	HA	MA
937	MSA	489772	Rp,ON,Bm NOT APPROVED FOR RADIONUCLUDES	2	HA	MA
938	MSA	489830 489834	Rp,FF,Fm NOT APPROVED FOR RADIONUCLUDES	2	HA	MA

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
939	MSA	489838	Rp,FF,Fm	2	HA	MA
			NOT APPROVED FOR RADIONUCLIDES			
				Comb. Type C, CF		
				Hose Length (feet)	Press. Range psig	
				8 - 300	35 - 40	
940	MSA	489842	Rp,FF,Fm	2	HA	MA
			NOT APPROVED FOR RADIONUCLIDES			
				Comb. Type C, Pd		
				Hose Length (feet)	Press. Range psig	
				8 - 300	65 - 85	
948	MSA	490028* 490048* 490068	Rp,Fm,FF	2	DM	MA
				Comb. Type C, CF		
				Hose Length (feet)	Press. Range psig	
				8 - 300	85 - 100	
954	MSA	490034* 490054* 490074	Rp,Fm,FF	2	HA	MA
				Comb. Type C, CF		
				Hose Length (feet)	Press. Range psig	
				8 - 300	85 - 100	
959	MSA	490043* 490063* 490083*	Rp,Fm,FF	2	HA	MA
			NOT APPROVED FOR RADIONUCLIDES			
				Comb. Type C, CF		
				Hose Length (feet)	Press. Range psig	
				8 - 300	85 - 100	
962	Masprot	M-2.208/M	Rp,Fm,ON	2		MA
964	Critical Products Group	5144S 5144M 5144L	Rp,Fm,ON	2	HA	MA
970	Cabot Safety	ZR5054A ZS5054A	FF,PAPR	2		

CHEMICAL CARTRIDGES - AMMONIA

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
975	National Draeger	4052924 4052925	Rp,Fm,FF	1	HA	MA
976	National Draeger	4052936 4052937	Rp,Fm,FF	1		MA
987	Cabot Safety	R7454A S7454A	Rp,Fm,FF	2		MA
988	Cabot Safety	R7454AD S7454AD	Rp,Fm,FF	2	DM	MA
989	Cabot Safety	R7454AF S7454AF	Rp,Fm,FF	2	DFMR	MA
1002	Cabot Safety	R7454HE S7454HE	Rp,Fm,FF	2	HRA	MA
1011	3M	5144 5244 5344	Su,ON	2	HRA	MA
1016	Survivair	2114-00/-10 2214-00/-10 2314-00/-10	Rp,Fm,ON	2	DM	MA
1017	Survivair	3214-00 4114-00/-10 4214-00/-10	Rp,Fm,FF	2	DM	MA
1018	Survivair	2194-00/-10 2294-00/-10 2394-00/-10	Rp,Fm,ON	2	HRA	MA
1019	Survivair	3294-00 4194-00/-10 4294-00/-10	Rp,Fm,FF	2	HRA	MA

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
1028	Cabot Safety	RP7854A SP7854A	Rp,Fm,FF	1		
1029	Cabot Safety	RP7454A SP7454A	Rp,Fm,FF	1		
1034	Cabot Safety	RP7454A SP7454A	FF,PAPR	2		
1040	Willson	2104 2204 2304	Su,ON	2		MA
1041	Willson	2114 2214 2314	Su,ON	2	DM	MA
1049	Willson	2144 2244 2344	Su,ON	2	HA	MA

2. Methylamine

Approval

Approved for respiratory protection against not more than 100 parts per million methylamine.

Limitations

Not for use in atmospheres immediately dangerous to life and health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow the manufacturer's instructions for changing cartridges or for discarding disposable respirators.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types and approved use concentrations on gases and vapors.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

CHEMICAL CARTRIDGES - METHYLAMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
43	MSA	459436 461008 489746 489806	Rp,Fm,Bm,ON	2	D,M	NH3
63	North	7504* 7504S*/M*/L* 7704S/M/L	Rp,Fm,ON	2		NH3
64	North	7514* 7514S*/M*/L* 7714S/M/L	Rp,Fm,ON	2	DM	NH3
70	Willson	1224/S/SS/SSS/R/SR S1224/S/SS/SSS/R/SR	Rp,Fm,ON	2		NH3
71	Willson	122410/S/SS/SSS/R/SR S122410/S/SS/SSS/R/SR	Rp,Fm,ON	2	D,M	NH3
109	Cabot Safety	R4054* R5054* R6054*	Rp,Fm,ON	2		NH3
139	Willson	1624/1724	Rp,Fm,FF	2		NH3
140	Willson	162410 172410	Rp,Fm,FF	2	D,M	NH3
147	MSA	461851 483483	Rp,Fm,FF	2	D,M	NH3
152	MSA	461857 483489	Rp,Fm,FF	2	H,A	NH3
158	MSA	460849 461015 489753 489812	Rp,Fm,Bm,ON	2	H,A	NH3

CHEMICAL CARTRIDGES - METHYLAMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
176	North	75BP04*/M*/L* 77BP04S/M/L	Rp,Bm,ON	2		NH3
177	North	75BP14*/M*/L* 77BP14S/M/L	Rp,Bm,ON	2	D,M	NH3
182	North	7604/S*/N*/SN*	Rp,Fm,FF	2		NH3
187	North	7614/S*/N*/SN*	Rp,Fm,FF	2	D,M	NH3
191	US Safety	150T22/150L22 100S22/200S22 100M22/200M22 100L22/200L22 300S/M22 300M/L22	Fm,ON	2		NH3
192	Cesco	95RC65 95SMRC65 100S22/200S22 100M22/200M22 100L22/200L22 300S/M22 300M/L22	Fm,ON	2		NH3
193	US Safety	150T27/150L27 100S27/200S27 100M27/200M27 100L27/200L27 300S/M27 300M/L27	Rp,Fm,ON	2	D,M	NH3
193	Lab Safety Supply	11291-S-6 11291-M-6 11291-L-6				
194	Cesco	95RC95 95SMRC95 100S27/200S27 100M27/200M27 100L27/200L27	Rp,Fm,ON	2	DM	NH3

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
194 Cont.		300S/M27 300M/L27				
213	North	7584*/S*/M*/L* 7784S/M/L	Rp,Fm,ON	2	HRA	NH3
214	North	75BP84*/M*/L* 77BP84S/M/L	Rp,Bm,ON	2	H,A,R	NH3
215	North	7684/7684S*	Rp,Fm,FF	2	H,A,R	NH3
217	3M	8727 8728	Su,ON	1 8728 only	D,M	NH3
235	Cabot Safety	R7054*	Rp,Fm,FF	2		NH3
252	Scott	6411-0004* 6412-0004* 6413-0004* 6422-0004* 64-AM* 64E-AM* 64M-AM* 64ME-AM* 64S-AM* 64SE-AM*	Rp,Fm,ON	2		MA
REPLACED BY TC-23C-772						
253	Scott	6470-0004* 6480-0004* 65-AM 65S-AM 65XL-AM A65-AM A65S-AM A65XL-AM	Rp,Fm,FF	2		NH3
254	Scott	6411-0104* 64-AM-D* 6413-0104* 64E-AM-D* 6421-0104* 64M-AM-D* 6423-0104*	Rp,Fm,ON	2	DM	MA

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
254 Cont.		64ME-AM-D* 6412-0104* 64S-AM-D* 6422-0104* 64SE-AM-D*				
255	Scott	6470-0104* 6480-0104* 65-AM-D 65S-AM-D 65XL-AM-D A65-AM-D A65S-AM-D A65XL-AM-D	Rp,Fm,FF	2	D,M	NH3
256	Scott	6411-0304* 6412-0304* 6413-0304* 6421-0304* 6422-0304* 6423-0304* 64-AM-F* 64E-AM-F* 64M-AM-F* 64ME-AM-F* 64S-AM-F* 64SE-AM-F*	Rp,Fm,ON	2	DFMR	MA
257	Scott	6470-0304* 6480-0304* 65-AM-F 65S-AM-F 656XL-AM-F A65-AM-F A65S-AM-F A65XL-AM-F	Rp,Fm,FF	2	D,F,M,R	NH3
269	Cesco	96RC95	Rp,Fm,FF	2	D,M	NH3
270	US Safety	151T27	Rp,Fm,FF	2	D,M	NH3
270	Lab Safety Supply	11292-6				
279	Protech	1482-G106 1482-S-G106 1482-L-G106 1585S-G106	Rp,Fm,ON	2		NH3

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
279 Cont.		1585-G106 1585L-G106				
280	Protech	1482-G106-F100 1482-S-G106-F100 1482-L-G106-F100 1585S-G106-F100 1585-G106-F100 1585L-G106-F100	Rp,Fm,ON	2	D,M	NH3
283	Pulmosan	10018 10192 10246 10279	Rp,Fm,ON	1		NH3
284	Pulmosan	10033* 10207* 10258* 10291*	Rp,Fm,ON	1	D,M	NH3
289	Willson	1234/S/SS/SSS/R/SR S1234/S/SS/SSS/R/SR	Rp,Fm,ON	2		NH3
290	Willson	1634/1734	Rp,Fm,FF	2		NH3
291	Willson	123412/S/SS/SSS/R/SR S123412/S/SS/SSS/R/SR	Rp,Fm,ON	2	H,A	NH3
292	Willson	163412 173412	Rp,Fm,FF	2	H,A	NH3
314	Cesco	95RC60 95SMRC60 100S42/200S42 100M42/200M42 100L42/200L42 300S/M42 300M/L42	Rp,Fm,ON	2	H,A,R	NH3
315	US Safety	150T42/150L42 100S42/200S42 100M42/200M42	Rp,Fm,ON	2	H,A,R	NH3

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
315 Cont.		100L42/200L42 300S/M42 300M/L42				
315	Lab Safety Supply	11291-S-11 11291-M-11 11291-L-11				
316	Cesco	96RC60	Rp,Fm,FF	2	H,A,R	NH3
317	US Safety	151T42	Rp,Fm,FF	2	H,A,R	NH3
319	Sellstrom	315-G106	Rp,Fm,ON	2		NH3
329	Cabot Safety	R4054A/S4054A R4554A/S4554A R5054A/S5054A R6054A/S6054A R5554A/S5554A R6554A/S6554A	Rp,Fm,ON	2		NH3
330	Cabot Safety	R7054A/S7054A R7754A/S7754A	Rp,Fm,FF	2		NH3
331	Cabot Safety	R4054AD/S4054AD R4554AD/S4554AD R5054AD/S5054AD R6054AD/S6054AD R5554AD/S5554AD R6554AD/S6554AD	Rp,Fm,ON	2	D,M	NH3
332	Cabot Safety	R7054AD/S7054AD R7754AD/S7754AD	Rp,Fm,FF	2	D,M	NH3
347	Eastern	E453* 293	Rp,Fm,ON	2		NH3
350	North	10004S/M	Su,ON	1		NH3

CHEMICAL CARTRIDGES - METHYLAMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
358	North	10014S/M	Su,ON	1	D,M	NH3
364	Willson	3024*/S/SS/SSS/R/SR S3024/S/SS/SSS/R/SR	Rp,Bm,ON	2		NH3
365	Willson	3124*/3224*	Rp,Bm,FF	2		NH3
366	Willson	3034*/S/SS/SSS/R/SR S3034/S/SS/SSS/R/SR	Rp,Bm,ON	2		NH3
367	Willson	3134*/3234*	Rp,Bm,FF	2		NH3
378	Willson	302410*/S/SS/SSS/R/SR S302410/S/SS/SSS/R/SR	Rp,Bm,ON	2	D,M	NH3
379	Willson	312410* 322410*	Rp,Bm,FF	2	D,M	NH3
384	Willson	303412*/S/SS/SSS/R/SR S303412/S/SS/SSS/R/SR	Rp,Bm,ON	2	H,A	NH3
385	Willson	313412* 323412*	Rp,Bm,FF	2	H,A	NH3
419	Cabot Safety	R5054HE/S5054HE R4054HE/S4054HE R4554HE/S4554HE R6054HE/S6054HE R5554HE/S5554HE R6554HE/S6554HE	Rp,Fm,ON	2	H,A,R	NH3
420	Cabot Safety	R7054HE/S7054HE R7754HE/S7754HE	Rp,Fm,FF	2	H,A,R	NH3
422	Survivair	2104-00/-10 2204-00/-10 2304-00/-10	Rp,Fm,ON	2		NH3

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
423	Survivair	3204-00 4204-00/-10 4104-10	Rp,Fm,ON	2		NH3
440	3M	7204	Rp,Fm,ON	2		NH3
441	3M	7211	Rp,Fm,ON	2	D,M	NH3
442	3M	7215	Rp,Fm,ON	2	H,A,R	NH3
457	Protech	1482-G106-G208 1482-S-G106-G208 1482-L-G106-G208 1585S-G106-G208 1585-G106-G208 1585L-G106-G208	Rp,Fm,ON	2	H,A,R	NH3
463	MSA	472751 489776	Rp,Bm,ON	2	D,M	NH3
468	MSA	472758 489783	Rp,Bm,ON	2	H,A	NH3
498	Pulmosan	10417*	Rp,Fm,FF	1		NH3
502	Pulmosan	10429*	Rp,Fm,FF	1	D,M	NH3
513	MSA	469730	Rp,Fm,ON	1		NH3
515	Pirelli	4336.2022	Rp,Fm,ON	2		NH3
519	Scott	64-AM-H* 64E-AM-H* 64M-AM-H* 64ME-AM-H* 64S-AM-H* 64SE-AM-H*	Rp,Fm,ON	2	HRA	MA
REPLACED BY TC-23C-775						
520	Scott	65-AM-H 65S-AM-H 65XL-AM-H	Rp,Fm,FF	2	HAR	NH3

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
520 Cont.		A65-AM-H A65S-AM-H A65XL-AM-H				
559	Willson	1524/R/SS	Rp,Fm,ON	2		NH3
560	Willson	3524*/R/SS	Rp,Fm,ON	2		NH3
561	Willson	1534/R/SS	Rp,Fm,ON	2		NH3
562	Willson	3534*/R/SS	Rp,Fm,ON	2		NH3
575	Willson	152410/R/SS	Rp,Fm,ON	2	D,M	NH3
576	Willson	352410*/R/SS	Rp,Fm,ON	2	D,M	NH3
581	Willson	153412/R/SS	Rp,Fm,ON	2	H,A	NH3
582	Willson	353412*/R/SS	Rp,Fm,ON	2	H,A	NH3
589	Racal	BE1/K	PAPR,HH	3		NH3
590	Racal	BE3/KC BE7/KC	PAPR,FF	3		NH3
591	Racal	BE5/K	PAPR,HH	3		NH3
592	Racal	BE6/K	PAPR,HH	3		NH3
612	Racal	BE8/K	PAPR,ON	3		NH3

CHEMICAL CARTRIDGES - METHYLAMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
628	Neoterik	NP-1562-8	PAPR,ON	3		NH3
633	Racal	BE4/K*	PAPR	3		NH3
639	Neoterik	NP1664-8 NP1564-8 NP1964-8	PAPR	3		NH3
641	Racal	BE1/KP3	PAPR,HH	3	H,A,R	NH3
642	Racal	BE3/KP3 BE7/KP3	PAPR,FF	3	H,A,R	NH3
643	Racal	BE4/KP3*	PAPR,HH	3	H,A,R	NH3
644	Racal	BE5/KP3	PAPR,HH	3	H,A,R	NH3
645	Racal	BE6/KP3	PAPR,HH	3	H,A,R	NH3
646	Racal	BE8/KP3	PAPR,ON	3	H,A,R	NH3
658	North	7594S*/M*/L* 7794S/M/L	Rp,Fm,ON	2	DFM	NH3
659	North	75BP94M* 77BP94S/M/L	Rp,Bm,ON	2	D,F,M	NH3
660	North	7694 7694S*	Rp,Fm,FF	2	D,F,M	NH3
666	Protech	1694-G104-F100	Rp,Fm,FF	2		NH3
666	Eastern	793	Rp,Fm,FF	2		NH3
667	Protech	1694-G106-F100	Rp,Fm,FF	2	D,M	NH3

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
674	Protech	1694-G106-G208	Rp,Fm,FF	2	H,A,R	NH3
686	3M	7804 7804C 7804-L 7804-H	Rp,Fm,FF	2		NH3

For 7804C Combination Type C, CF

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Hose Length (feet)	Press. Range psig 7804-H	Press. Range psig 7804-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
692	3M	7811 7811C 7811-L 7811-H	Rp,Fm,FF	2	D,M	NH3

For 7811C Combination Type C, CF

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Hose Length (feet)	Press. Range psig 7811-H	Press. Range psig 7811-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
696	3M	7815 7815C 7815-L 7815-H	Rp,Fm,FF	2	H,A,R	NH3

For 7815C Combination Type C, CF

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
696 Cont.				Hose Length (feet)	Press. Range psig 7815-H	7815-L
				25	8-15	7-11
				50	10-19	7-11
				100	12-21	7-12
				200	17-31	8-16
				300	21-36	10-18
723	Willson	122417/R/S/SR/SS/SSS S122417/R/S/SR/SS/SSS	ON,Rp,Fm	2	D,F,M	NH3
724	Willson	162417 172417	FF,Rp,Fm	2	D,F,M	NH3
725	Willson	152417/R/SS	ON,Rp,Fm	2	D,F,M	NH3
726	Willson	302417*/R/S/SR/SS/SSS S302417/R/S/SR/SS/SSS	ON,Rp,Bm	2	D,F,M	NH3
727	Willson	312417* 322417*	FF,Rp,Bm	2	D,F,M	NH3
728	Willson	352417*/R/SS	ON,Rp,Bm	2	D,F,M	NH3
735	Willson	6104S/M/L/SR/MR/LR	ON,Rp,Fm	2		NH3
739	Willson	6204S/M/L/SR/MR/LR	ON,Rp,Fm	1		NH3
744	Willson	6404/S6404 6504/S6504 W6404/W6505	FF,Rp,Fm	2		NH3
750	Willson	6414/S6414 6514/S6514 W6414/W6514	FF,Rp,Fm	2	DM	NH3

CHEMICAL CARTRIDGES - METHYLAMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
752	Willson	6114S/M/L/SR/MR/LR	ON,Rp,Fm	2	DM	MA
758	Willson	6214S/M/L/SR/MR/LR	ON,Rp,Fm	1	DM	NH3
761	Willson	6144S/M/L/SR/MR/LR	Rp,ON,Fm	2	HA	NH3
762	Willson	6444/S6444 6544/S6544 W6444/W6544	Rp,Fm,FF	2	HA	NH3
772	Scott	66STC-AM S66STC-AM 66MTC-AM S66MTC-AM 66LTC-AM S66LTC-AM	Rp,Fm,ON	2		NH3
773	Scott	66STC-AM-D S66STC-AM-D 66MTC-AM-D S66MTC-AM-D 66LTC-AM-D S66LTC-AM-D	Rp,Fm,ON	2	DM	NH3
774	Scott	66STC-AM-F S66STC-AM-F 66MTC-AM-F S66MTC-AM-F 66LTC-AM-F S66LTC-AM-F	Rp,Fm,ON	2	DFMR	NH3
775	Scott	66STC-AM-H S66STC-AM-H 66MTC-AM-H S66MTC-AM-H 66LTC-AM-H S66LTC-AM-H	Rp,Fm,ON	2	HRA	NH3
785	Willson	6124S/M/L/SR/MR/LR	Rp,Fm,ON	2	DFMR	NH3

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
786	Willson	6424/S6424 6524/S6524 W6424/W6524	Rp,Fm,FF	2	DFMR	NH3
795	Cabot Safety	S7554HE S7554HEC	FF,Rp,Fm	2 For S7557HEC Comb. Type C, CF Hose Length feet: 25 - 300 Press. Range psig: 14 - 37 For 1/2" Hose Hose Length feet / Press. Range psig: 25 - 75: 14 - 22 100 - 150: 16 - 26 175 - 225: 18 - 29 250 - 300: 20 - 32	H,R,A	NH3
800	Cabot Safety	S7554A S7554AC	Rp,Fm,FF	2 For S7554AC Comb. Type C, CF Hose Length feet: 25 - 300 Press. Range psig: 14 - 37 For 1/2" Hose Hose Length feet / Press. Range psig: 25 - 75: 14 - 22 100 - 150: 16 - 26 175 - 225: 18 - 29 250 - 300: 20 - 32		NH3
810	Cabot Safety	S7554AD S7554ADC	Rp,Fm,FF	2 For S7554ADC Comb. Type C, CF Hose Length feet: 25 - 300 Press. Range psig: 14 - 37 For 1/2" Hose Hose Length feet / Press. Range psig: 25 - 75: 14 - 22 100 - 150: 16 - 26 175 - 225: 18 - 29 250 - 300: 20 - 32	DM	NH3

CHEMICAL CARTRIDGES - METHYLAMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
827	Willson	6224S/M/L/SR/MR/LR	Rp,Fm,ON	1	DFM	NH3
834	MSA	484477	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	DM	NH3
840	MSA	484483	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	HA	NH3
845	MSA	483994 489261*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 35 - 40	DM	NH3
856	MSA	484000 489267*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 35 - 40	HA	NH3
858	Cabot Safety	R9724A	Es,MP	1		NH3
861	3M	5104/5204/5304	Su,ON	2		NH3
862	3M	5114/5214/5314	Su,ON	2	DM	NH3
879	3M	7804-H 7804-L 7804-PD	Rp,Fm,FF	2 Comb. Type C, Pd		NH3

Hose Length (feet)	Press. Range psig 7804-H	Press. Range psig 7804-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
879 Cont.				For 7804-PD		
				Hose Length (feet)	Press. Range psig	
				25	80 - 100	
				50	80 - 100	
				100	80 - 100	
				200	80 - 100	
				300	80 - 100	
885	3M	7811-H 7811-L 7811-PD	Rp,Fm,FF	2	DM	NH3
				Comb. Type C, Pd		
				Hose Length (feet)	Press. Range psig	
					7811-H / 7811-L	
				25	8-15 / 7-11	
				50	10-19 / 7-11	
				100	12-21 / 7-12	
				200	17-31 / 8-16	
				300	21-36 / 10-18	
				For 7811-PD		
				Hose Length (feet)	Press. Range psig	
				25	80 - 100	
				50	80 - 100	
				100	80 - 100	
				200	80 - 100	
				300	80 - 100	
889	3M	7815-H 7815-L 7815-PD	Rp,Fm,FF	2	HRA	NH3
				Comb. Type C, Pd		
				Hose Length (feet)	Press. Range psig	
					7815-H / 7815-L	
				25	8-15 / 7-11	
				50	10-19 / 7-11	
				100	12-21 / 7-12	
				200	17-31 / 8-16	
				300	21-36 / 10-18	
				For 7815-PD		
				Hose Length (feet)	Press. Range psig	
				25	80 - 100	
				50	80 - 100	
				100	80 - 100	
				200	80 - 100	
				300	80 - 100	
895	Racal	BE10/K	HH,PAPR	3		NH3

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
898	Racal	BE10/KP3	HH,PAPR	3	HRA	NH3
908	Cabot Safety	R4054AF/S4054AF R4554AF/S4554AF R5054AF/S5054AF R5554AF/S5554AF R6054AF/S6054AF R6554AF/S6554AF	Rp,Fm,ON	2	DFMR	NH3
909	Cabot Safety	R7054AF/S7054AF R7754AF/S7754AF	Rp,Fm,FF	2	DFMR	NH3
910	Cabot Safety	S7554AF S7554AFC	Rp,Fm,FF For S7554AFC, combination Type C, CF 3/8" I.D. Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 1/2" I.D. Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	2	DFMR	NH3
935	MSA	489801 489765 489795 489824	Rp,ON,Fm NOT APPROVED FOR RADIONUCLIDES	2	HA	NH3
936	MSA	489742	Rp,ON,Bm NOT APPROVED FOR RADIONUCLIDES	2	HA	NH3
937	MSA	489772	Rp,ON,Bm NOT APPROVED FOR RADIONUCLIDES	2	HA	NH3
938	MSA	489830 489834	Rp,FF,Fm NOT APPROVED FOR RADIONUCLIDES	2	HA	NH3

CHEMICAL CARTRIDGES - METHYLAMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
939	MSA	489838	Rp,FF,Fm NOT APPROVED FOR RADIONUCLIDES Comb. Type C, CF Hose Length (feet): 8 - 300 Press. Range psig: 35 - 40	2	HA	NH3
940	MSA	489842	Rp,FF,Fm NOT APPROVED FOR RADIONUCLIDES Comb. Type C, Pd Hose Length (feet): 8 - 300 Press. Range psig: 65 - 85	2	HA	NH3
948	MSA	490028* 490048* 490068	Rp,Fm,FF Comb. Type C, CF Hose Length (feet): 8 - 300 Press. Range psig: 85 - 100	2	DM	NH3
954	MSA	490034* 490054* 490074	Rp,Fm,FF Comb. Type C, CF Hose Length (feet): 8 - 300 Press. Range psig: 85 - 100	2	HA	NH3
959	MSA	490043* 490063* 490083*	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES Comb. Type C, CF Hose Length (feet): 8 - 300 Press. Range psig: 85 - 100	2	HA	NH3
962	Masprot	M-2.208M	Rp,Fm,ON	2		NH3
964	Critical Products Group	5144S 5144M 5144L	Rp,Fm,ON	2	HA	NH3
975	National Draeger	4052924 4052925	Rp,Fm,FF	1	HA	NH3

CHEMICAL CARTRIDGES - METHYLAMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
976	National Draeger	4052936 4052937	Rp,Fm,FF	1		NH3
987	Cabot Safety	R7454A S7454A	Rp,Fm,FF	2		NH3
988	Cabot Safety	R7454AD S7454AD	Rp,Fm,FF	2	DM	NH3
989	Cabot Safety	R7454AF S7454AF	Rp,Fm,FF	2	DFMR	NH3
1002	Cabot Safety	R7454HE S7454HE	Rp,Fm,FF	2	HRA	NH3
1011	3M	5144 5244 5344	Su,ON	2	HRA	NH3
1016	Survivair	2114-00/-10 2214-00/-10 2314-00/-10	Rp,Fm,ON	2	DM	NH3
1017	Survivair	3214-00 4114-00/-10 4214-00/-10	Rp,Fm,FF	2	DM	NH3
1018	Survivair	2194-00/-10 2294-00/-10 2394-00/-10	Rp,Fm,ON	2	HRA	NH3
1019	Survivair	3294-00 4194-00/-10 4294-00/-10	Rp,Fm,FF	2	HRA	NH3
1040	Willson	2104 2204 2304	Su,ON	2		NH3

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
1041	Willson	2114 2214 2314	Su,ON	2	DM	NH3
1049	Willson	2144 2244 2344	Su,ON	2	HA	NH3

3. Chlorine

Approval

Approved as respiratory protection against not more than 10 parts per million chlorine.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow the manufacturer's instructions for changing cartridges or for discarding disposable respirators.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types and approved use concentrations on gases and vapors.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

CHEMICAL CARTRIDGES - CHLORINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
55	Scott	70-CL* Replaced by	Es,MP TC-23C-492	1		
108	MSA	460400 460378	Es,MP	1	DM	HCl
195	3M	8721 8722	Su,ON	1 8722 only	DM	
196	3M	8723 8724	Su,ON	1 8724 only	DM	OV
479	Racal	BE1/B*	PAPR,HH	3		HCl
480	Racal	BE5/B*	PAPR,HH	3		HCl
481	Racal	BE6/B*	PAPR,HH	3		HCl
492	Scott	70-AG	Es,MP	1		HCl/H2S
525	Scott	64-TEDA-H* 64E-TEDA-H* 64M-TEDA-H* 64ME-TEDA-H* 64S-TEDA-H* 64SE-TEDA-H*	Rp,Fm,ON	2	HRA	
REPLACED BY TC-23C-784						
526	Scott	65-TEDA-H 65S-TEDA-H 65XL-TEDA-H	Rp,Fm,FF	2		
534	Racal	BE3/BC* BE7/BC*	PAPR,FF	3		HCl
604	Cabot Safety	R9722E	Es,MP	1		CLO2/H2S
610	Racal	BE8/B*	PAPR,ON	3		HCl

CHEMICAL CARTRIDGES - CHLORINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
629	MSA	472959 489760	Rp,Bm,ON	2		Mercury
631	Racal	BE4/B*	PAPR,HH	3		HCl
680	Survivair	2195-00/-10 2295-00/-10 2395-00/-10	Rp,ON	2	HRA	
681	Survivair	3295-00 4295-00/-10 4195-10	Rp,FF	2	HRA	
784	Scott	66STC-TEDA-H S66STC-TEDA-H 66MTC-TEDA-H S66MTC-TEDA-H 66LTC-TEDA-H S66LTC-TEDA-H	Rp,Fm,ON	2	HRA	
916	Glendale	GR9527BM	Bm,ON,Rp	2		HG
1031	Cabot Safety	R4559AB S4559AB R5559AB S5559AB R6559AB S6559AB	Rp,Bm,ON	2		HG
1032	Cabot Safety	R7459AB S7459AB	Rp,Bm,FF	2		HG
1046	MSA	493521 493522	ON,Bm,Rp	2	HA	HG

4. Hydrogen Chloride

Approval

Approved as respiratory protection against not more than 50 parts per million hydrogen chloride.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow the manufacturer's instructions for changing cartridges or for discarding disposable respirators.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types and approved use concentrations on gases and vapors.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

CHEMICAL CARTRIDGES - HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
108	MSA	460400 460378	Es,MP	1	DM	Cl
479	Racal	BE1/B*	PAPR,HH	3		Cl
480	Racal	BE5/B*	PAPR,HH	3		Cl
481	Racal	BE6/B*	PAPR,HH	3		Cl
492	Scott	70-AG	Es,MP	1		Cl/H2S
534	Racal	BE3/BC* BE7/BC*	PAPR,FF	3		Cl
610	Racal	BE8/B*	PAPR,ON	3		Cl
631	Racal	BE4/B*	PAPR,HH	3		Cl

5. Chlorine, Sulfur Dioxide, and Hydrogen Chloride

Approval

Approved as respiratory protection against not more than 10 parts per million chlorine, 50 parts per million hydrogen chloride, or 50 parts per million sulfur dioxide.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow the manufacturer's instructions for changing cartridges or for discarding disposable respirators.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types and approved use concentrations on gases and vapors.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
41	MSA	459434 461006 489744 489804	Rp,Fm,Bm,ON	2	DM	H2S/CLO2
47	MSA	459435 461007 489745 489805	Rp,Fm,Bm,ON	2	DM	OV/H2S CLO2
60	Cabot Safety	R4052* R5052* R6052*	Rp,Fm,ON	2		
65	North	7503*/S*/M*/L* 7703S/M/L	Rp,Fm,ON	2		OV CH2-O
66	North	7513*/S*/M*/L* 7713S/M/L	Rp,Fm,ON	2	DM	OV CH2-O
76	Willson	1225/S/SS/SSS/R/SR S1225/S/SS/SSS/R/SR	Rp,Fm,ON	2		OV
77	Willson	122510/S/SS/SSS/R/SR S122510/S/SS/SSS/R/SR	Rp,Fm,ON	2	DM	OV
82	Cabot Safety	R4053* R5053* R6053*	Rp,Fm,ON	2		OV
85	Cabot Safety	R8153* S8153*	Rp,Fm,ON	1		OV
104	North	75BP03*/M*/L* 77BP03S/M/L	Rp,Bm,ON	2		OV CH2-O
105	North	75BP13*/M*/L* 77BP13S/M/L	Rp,Bm,ON	2	DM	OV CH2-O

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
111	Cabot Safety	R9722	Es,MP	1	DM	
115	Scott	6411-0001* 6413-0001* 6421-0001* 6422-0001* 6423-0001* 6412-0001* 64-AG* 64E-AG* 64M-AG* 64ME-AG* 64S-AG* 64SE-AG*	Rp,Fm,ON	2		CH2-O/H2S CLO2
REPLACED BY TC-23C-768						
116	Scott	6411-0101* 6413-0101* 6421-0101* 6423-0101* 6412-0101* 6422-0101* 64-AG-D* 64E-AG-D* 64M-AG-D* 64ME-AG-D 64S-AG-D* 64SE-AG-D*	Rp,Fm,ON	2	DM	CH2-O/H2S CLO2
122	North	7542*/M*	Rp,Fm,ON	2	DMZ	
129	3M	8714 8720	Su,ON	1 8720 only	DM	
141	Willson	1625/1725	Rp,Fm,FF	2		OV
142	Willson	162510 172510	Rp,Fm,FF	2	DM	OV
145	MSA	461849 483481	Rp,Fm,FF	2	DM	H2S/CLO2
146	MSA	461850 483482	Rp,Fm,FF	2	DM	OV H2S/CLO2

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
150	MSA	461854 483486 489785	Rp,Fm,FF	2	HA	H2S/CLO2
153	MSA	461855 483487	Rp,Fm,FF	2	HA	OV CLO2/H2S
154	MSA	461856 483488	Rp,Fm,FF	2	DFMR	OV CLO2/H2S
156	MSA	461835 462239 489755 489814	Rp,Fm,Bm,ON	2	HA	H2S/CLO2
159	MSA	460847 461013 489751 489810	Rp,Fm,Bm,ON	2	HA	OV CLO2/H2S
160	MSA	460848 461014 489752 489811	Rp,Fm,Bm,ON	2	DFMR	OV CLO2/H2S
163	Protech	1482-G104 1482-S-G104 1482-L-G104 1482-G104-F100 1482-S-G104-F100 1482-L-G104-F100 1585S-G104 1585-G104 1585L-G104 1585S-G104-F100 1585-G104-F100 1585L-G104-F100	Rp,Fm,ON	2 1482-G104-F100 only 1482-S-G104-F100 only 1482-L-G104-F100 only 1585-G104-F100 only 1585S-G104-F100 only 1585L-G104-F100 only	DMZ	OV
163	Sellstrom	315-G104 315-G104-F100	Rp,Fm,ON	2 315-G104-F100 only	DMZ	OV
163	Eastern	E-452* 292	Rp,Fm,ON	2	DMZ	OV

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
164	Cesco	95RC55 95SMRC55 100S21/200S21 100M21/200M21 100L21/200L21 300S/M21 300M/L21	Fm,ON	2		
165	Cesco	95RC75 95SMRC75 100S25/200S25 100M25/200M25 100L25/200L25 300S/M25 300M/L25	Rp,Fm,ON	2	DM	
166	Cesco	95RC85 95SMRC85 100S26/200S26 100M26/200M26 100L26/200L26 300S/M26 300M/L26	Fm,ON	2		OV
167	Cesco	95RC105 95SMRC105 100S28/200S28 100M28/200M28 100L28/200L28 300S/M28 300M/L28	Rp,Fm,ON	2	DM	OV
168	US Safety	150T21/150L21 100S21/200S21 100M21/200M21 100L21/200L21 300S/M21 300M/L21	Fm,ON	2		
169	US Safety	150T25/150L25 100S25/200S25 100M25/200M25 100L25/200L25 300S/M25 300M/L25	Rp,Fm,ON	2	DM	

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
169	Lab Safety Supply	11291-S-5 11291-M-5 11291-L-5				
170	US Safety	150T26/150L26 100S26/200S26 100M26/200M26 100L26/200L26 300S/M26 300M/L26	Fm,ON	2		OV
171	US Safety	150T28/150L28 100S28/200S28 100M28/200M28 100L28/200L28 300S/M28 300M/L28	Rp,Fm,ON	2	DM	OV
171	Lab Safety Supply	11291-S-7 11291-M-7 11291-L-7				
172	Scott	6411-0015* 64-OA* 6413-0015* 64E-OA* 6421-0015* 64M-OA* 6423-0015* 64ME-OA* 6412-0015* 64S-OA* 6422-0015* 64SE-OA*	Fm,ON	2		OV CH2-O/H2S CLO2
REPLACED BY TC-23C-776						
174	Scott	6411-0115* 6412-0115* 6413-0115* 6421-0115* 6422-0115* 6423-0115* 64-OA-D* 64E-OA-D* 64M-OA-D* 64ME-OA-D* 64S-OA-D*	Fm,ON	2	DM	OV CH2-O/H2S CLO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
174 Cont.		64SE-OA-D* 604032-15*				
179	North	75BP42*/M*	Rp,Bm,ON	2	DMZ	
181	North	76037/S*/N*/SN*	Rp,Fm,FF	2		OV CH2-O
183	Glendale	GR-1622 GR-2022 GR-4022 GR-8022	Rp,Fm,ON	2		CH2-O
184	Glendale	GR-1622-10 GR-2022-10 GR-4022-10 GR-8022-10	Rp,Fm,ON	2	DM	CH2-O
186	North	7613/S*/N*/SN*	Rp,Fm,FF	2	DM	OV CH2-O
189	North	7642/S*/N*/SN*	Rp,Fm,FF	2	DMZ	
203	Pulmosan	10012* 10186* 10240* 10273*	Rp,Fm,ON	1		
207	North	7582*/S*/M*/L* 7782S/M/L	Rp,Fm,ON	2	HRA	CH2-O
208	North	75BP82*/M*/L* 77BP82S/M/L	Rp,Bm,ON	2	HRA	CH2-O
209	North	7682/7682S*	Rp,Fm,FF	2	HRA	CH2-O
210	North	7583*/S*/M*/L* 7783S/M/L	Rp,Fm,ON	2	HRA	OV CH2-O

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
211	North	75BP83*/M*/L* 77BP83S/M/L	Rp,Bm,ON	2	HRA	OV CH2-O
212	North	7683S* 7683	Rp,Fm,FF	2	HRA	OV CH2-O
216	3M	8725 8726	Su,ON	1 8726 only	DM	OV
218	Scott	6470-0101* 6480-0101* 65-AG-D 65S-AG-D 65XL-AG-D A65-AG-D A65S-AG-D A65XL-AG-D	Rp,Fm,FF	2	DM	CH2-O/H2S CLO2
221	Scott	6470-0015* 6480-0015* 65-OA 65S-OA 65XL-OA A65-OA A65S-OA A65XL-OA	Rp,Fm,FF	2		OV/CH2-O H2S/CLO2
222	Scott	6470-0115* 6480-0115* 65-OA-D 65S-OA-D 65XL-OA-D A65-OA-D A65S-OA-D A65XL-OA-D	Rp,Fm,FF	2	DM	OV/CH2-O H2S/CLO2
225	Scott	6470-0001 6480-0001 65-AG 65S-AG 65XL-AG A65-AG A65S-AG A65XL-AG	Rp,Fm,FF	2		CH2-O/H2S CLO2

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
226	North	7502*/S*/M*/L* 7702S/M/L	Rp,Fm,ON	2		CH2-O
227	North	75BP02*/M*/L* 77BP02S/M/L	Rp,Bm,ON	2		CH2-O
228	North	7602/S*/N*/SN*	Rp,Fm,FF	2		CH2-O
229	North	7512*/S*/M*/L* 7712S/M/L	Rp,Fm,ON	2	DM	CH2-O
230	North	75BP12*/M*/L* 77BP12S/M/L	Rp,Bm,ON	2	DM	CH2-O
231	North	7612/S*/N*/SN*	Rp,Fm,FF	2	DM	CH2-O
232	Pulmosan	10027* 10201* 10252* 10285*	Rp,Fm,ON	1	DM	
233	Cabot Safety	R7052*	Rp,Fm,FF	2		
234	Cabot Safety	R7053*	Rp,Fm,FF	2		OV
241	Glendale	GR-1623 GR-2023 GR-4023 GR-8023	Rp,Fm,ON	2		OV CH2-O
242	Glendale	GR1623-10 GR2023-10 GR4023-10 GR8023-10	Rp,Fm,ON	2	DM	OV CH2-O

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
246	Scott	6411-0301* 64-AG-F* 6413-0301* 64E-AG-F* 6421-0301* 64M-AG-F* 6423-0301* 64ME-AG-F* 6412-0301* 64S-AG-F* 6422-0301* 64SE-AG-F*	Rp,Fm,ON	2	DFMR	CH2-O/H2S CLO2
247	Scott	6470-0301* 6480-0301* 65-AG-F 65S-AG-F 65XL-AG-F A65-AG-F A65S-AG-F A65XL-AG-F	Rp,Fm,FF	2	DFMR	CH2-O/H2S CLO2
250	Scott	6411-0315* 64-OA-F* 6413-0315* 64M-OA-F* 6421-0315* 64ME-OA-F* 6423-0315* 64E-OA-F* 6412-0315* 64S-OA-F* 6422-0315* 64SE-OA-F*	Rp,Fm,ON	2	DFMR	OV CH2-O/H2S CLO2
251	Scott	6470-0315* 6480-0315* 65-OA-F 65S-OA-F 65XL-OA-F A65-OA-F A65S-OA-F A65XL-OA-F	Rp,Fm,FF	2	DFMR	OV H2S/CLO2 CH2-O
260	MSA	466903 489818	Rp,Fm,ON	2	DM	OV/CH2-O H2S/CLO2
261	MSA	466902 489759	Rp,Bm,ON	2	DM	OV CLO2/H2S

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
262	MSA	466904 483494	Rp,Fm,FF	2	DM	OV CLO2/H2S
265	Cesco	96RC75	Rp,Fm,FF	2	DM	
266	US Safety	151T25	Rp,Fm,FF	2	DM	
266	Lab Safety Supply	11291-5				
267	Cesco	96RC105	Rp,Fm,FF	2	DM	OV
268	US Safety	151T28	Rp,Fm,FF	2	DM	OV
268	Lab Safety Supply	11291-7				
281	Cabot Safety	R4563*/S4563* R5563*/S5563* R6563*/S6563*	Rp,Fm,ON	2	DFM	OV/CLO2 Pest
282	Cabot Safety	R7563* S7563*	Rp,Fm,FF	2	DFM	OV/CLO2 Pest
288	North	7902	Es,MP	1		H2S
298	Willson	1235/S/SS/SSS/R/SR S1235/S/SS/SSS/R/SR	Rp,Fm,ON	2		OV
299	Willson	123512/S/SS/SSS/R/SR S123512/S/SS/SSS/R/SR	Rp,Fm,ON	2	HA	OV
300	Willson	1635/1735	Rp,Fm,FF	2		OV
301	Willson	163512 173512	Rp,Fm,FF	2	HA	OV

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
306	Cesco	95RC50/95SMRC50 100S41/200S41 100M41/200M41 100L41/200L41 300S/M41 300M/L41	Rp,Fm,ON	2	HRA	
307	US Safety	150T41/150L41 100S41/200S41 100M41/200M41 100L41/200L41 300S/M41 300M/L41	Rp,Fm,ON	2	HRA	
307	Lab Safety Supply	11291-S-9 11291-M-9 11291-L-9				
308	Cesco	96RC50	Rp,Fm,FF	2	HRA	
309	US Safety	151T41	Rp,Fm,FF	2	HRA	
309	Lab Safety Supply	11291-9				
310	Cesco	95RC80/95SMRC80 100S46/200L46 100M46/200M46 100L46/200S46 300S/M46 300M/L46	Rp,Fm,ON	2	HRA	OV
311	US Safety	150T46/150L46 100S46/200L46 100M46/200M46 100L46/200S46 300S/M46 300M/L46	Rp,Fm,ON	2	HRA	OV
311	Lab Safety Supply	11291-S-10 11291-M-10 11291-L-10				

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
312	Cesco	96RC80	Rp,Fm,FF	2	HRA	OV
313	US Safety	151T46	Rp,Fm,FF	2	HRA	OV
313	Lab Safety Supply	11291-10				
318	Survivair	2103-00/-10 2203-00/-10 2303-00/-10	Rp,Fm,ON	2		OV
320	Pulmosan	10015* 10189* 10243* 10276*	Rp,Fm,ON	1		OV
324	Pulmosan	10030* 10255* 10204 10288*	Rp,Fm,ON	1	DM	OV
339	Cabot Safety	R4052A/S4052A R5052A/S5052A R6052A/S6052A R5552A/S5552A R6552A/S6552A	Rp,Fm,ON	2		H2S/CLO2
340	Cabot Safety	R7052A/S7052A R7752A/S7752A	Rp,Fm,FF	2		H2S/CLO2
341	Cabot Safety	R4052AD/S4052AD R5052AD/S5052AD R5552AD/S5552AD R6052AD/S6052AD R6552AD/S6552AD	Rp,Fm,ON	2	DM	H2S/CLO2
342	Cabot Safety	R7052AD/S7052AD R7752AD/S7752AD	Rp,Fm,FF	2	DM	H2S/CLO2

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
343	Cabot Safety	R4053A/S4053A R4553A/S4553A R5053A/S5053A R5553A/S5553A R6053A/S6053A R6553A/S6553A	Rp,Fm,ON	2		OV CLO2
344	Cabot Safety	R7053A/S7053A R7753A/S7753A	Rp,Bm,FF	2		OV CLO2
345	Cabot Safety	R4053AD/S4053AD R4553AD/S4553AD R5053AD/S5053AD R5553AD/S5553AD R6053AD/S6053AD R6553AD/S6553AD	Rp,Fm,ON	2	DM	OV CLO2
346	Cabot Safety	R7053AD/S7053AD R7753AD/S7753AD	Rp,Fm,FF	2	DM	OV CLO2
352	North	10003S/M	Su,ON	1		OV CH2-O
353	North	10002S/M	Su,ON	1		CH2-O
356	North	10012S/M	Su,ON	1	DM	CH2-O
357	North	10013S/M	Su,ON	1	DM	OV CH2-O
359	Protech	1482-G102 1482-S-G102 1482-L-G102 1585S-G102 1585-G102 1585L-G102	Rp,Fm,ON	2		CH2-O
368	Willson	3025*/S/SS/SSS/R/SR S3025/S/SS/SSS/R/SR	Rp,Bm,ON	2		OV

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
369	Willson	3125*/3225*	Rp,Bm,FF	2		OV
370	Willson	3035*/S/SS/SSS/R/SR S3035/S/SS/SSS/R/SR	Rp,Bm,ON	2		OV
371	Willson	3135*/3235*	Rp,Bm,FF	2		OV
380	Willson	302510*/S/SS/SSS/R/SR S302510/S/SS/SSS/R/SR	Rp,Bm,ON	2	DM	OV
381	Willson	312510* 322510*	Rp,Bm,FF	2	DM	OV
386	Willson	303512*/S/SS/SSS/R/SR S303512/S/SS/SSS/R/SR	Rp,Bm,ON	2	HA	OV
387	Willson	313512* 323512*	Rp,Bm,FF	2	HA	OV
393	Survivair	2133-00* 2233-00* 2333-00*	Rp,Fm,ON	2	DFMR	OV
394	Survivair	3233-00*	Rp,Fm,FF	2	DFMR	OV
395	Survivair	2192-00/-10 2292-00/-10 2392-00/-10	Rp,Fm,ON	2	HA	
396	Survivair	3292-00 4292-00/-10 4192-10	Rp,Fm,FF	2	HA	
407	Glendale	GR7022	Rp,Fm,FF	2		CH2-O
408	Glendale	GR7022-10	Rp,Fm,FF	2	DM	CH2-O

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
410	Glendale	GR7023	Rp,Fm,FF	2		OV CH2-O
411	Glendale	GR7023-10	Rp,Fm,FF	2	DM	OV CH2-O
415	Cabot Safety	R4052HE/S4052HE R4552HE/S4552HE R5052HE/S5052HE R6052HE/S6052HE R5552HE/S5552HE R6552HE/S6552HE	Rp,Fm,ON	2	HRA	
416	Cabot Safety	R7052HE/S7052HE R7752HE/S7752HE	Rp,Fm,FF	2	HRA	
417	Cabot Safety	R4053HE/S4053HE R4553HE/S4553HE R5053HE/S5053HE R6053HE/S6053HE R5553HE/S5553HE R6553HE/S6553HE	Rp,Fm,ON	2	HRA	OV CLO2/Pest
418	Cabot Safety	R7053HE/S7053HE R7753HE/S7753HE	Rp,Fm,FF	2	HRA	OV CLO2/Pest
421	Protech	1585S-G104-G208 1585-G104-G208 1585L-G104-G208 1482-G104-G208 1482-S-G104-G208 1482-L-G104-G208	Rp,Fm,ON	2	HRA	OV
429	Survivair	3202-00 4202-00/-10 4102-10	Rp,Fm,FF	2		CH2-O
430	Survivair	2102-00/-10 2202-00/-10 2302-00/-10	Rp,Fm,ON	2		CH2-O

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
431	Survivair	2112-00/-10 2212-00/-10 2312-00/-10	Rp,Fm,ON	2	DM	CH2-O
432	Survivair	3212-00 4212-00/-10 4112-10	Rp,Fm,FF	2	DM	CH2-O
432	Survivair	3212-00 4212-00	Rp,Fm,FF	2	DM	CH2-O
433	Survivair	2113-00/-10 2213-00/-10 2313-00/-10	Rp,Fm,ON	2	DM	OV
434	Survivair	3213-00 4213-00/-10 4113-10	Rp,Fm,ON	2	DM	OV
443	3M	7202	Rp,Fm,ON	2		
444	3M	7208	Rp,Fm,ON	2	DM	
445	3M	7213	Rp,Fm,ON	2	HRA	
446	3M	7203	Rp,Fm,ON	2		OV/HF
447	3M	7209	Rp,Fm,ON	2	DM	OV/HF
448	3M	7214	Rp,Fm,ON	2	HRA	OV/HF
449	North	7912	Es,MP	1	DM	H2S
450	Survivair	2193-00/-10 2293-00/-10 2393-00/-10	Rp,Fm,ON	2	HRA	OV/Pest

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
451	Survivair	3293-00 4293-00/-10 4193-10	Rp,Fm,FF	2	HRA	OV
454	Survivair	3203-00 4203-00/-10 4103-10	Rp,Fm,FF	2		OV
459	Protech	1482-G102-G208 1482-S-G102-G208 1482-L-G102-G208 1585S-G102-G208 1585-G102-G208 1585L-G102-G208	Rp,Fm,ON	2	HRA	CH2-O
461	MSA	472749 489774	Rp,Bm,ON	2	DM	H2S/CLO2
462	MSA	472750 489775	Rp,Bm,ON	2	DM	OV CLO2/H2S
466	MSA	472756 489781	Rp,Bm,ON	2	HA	OV CLO2/H2S
467	MSA	472757 489782	Rp,Bm,ON	2	DFMR	OV CLO2/H2S
470	MSA	472760	Rp,Bm,ON	2	HA	H2S/CLO2
472	MSA	472764 489789	Rp,Bm,ON	2	DM	OV/H2S CLO2
487	Sellstrom	315-G102-G208*	Rp,Fm,ON	2	HRA	
496	Pulmosan	10411*	Rp,Fm,FF	1		
497	Pulmosan	10414*	Rp,Fm,FF	1		OV
500	Pulmosan	10423*	Rp,Fm,FF	1	DM	

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
501	Pulmosan	10426*	Rp,Fm,FF	1	DM	OV
511	MSA	469728	Rp,Fm,ON	1	DM	CH2-O
512	MSA	469729	Rp,Fm,ON	1	DM	OV CH2-O
514	MSA	471914 476337/476338	Es,MP	1	DM	H2S/CLO2
516	Pirelli	4336.2023	Rp,Fm,ON	2		
517	Scott	64-AG-H* 64E-AG-H* 64M-AG-H* 64ME-AG-H* 64S-AG-H* 64SE-AG-H*	Rp,Fm,ON	2	HRA	CH2-O/H2S CLO2
REPLACED BY TC-23C-771						
518	Scott	65-AG-H 65S-AG-H 65XL-AG-H A65-AG-H A65S-AG-H A65XL-AG-H	Rp,Fm,FF	2	HRA	CH2-O/H2S CLO2
521	Scott	64-OA-H* 64E-OA-H* 64M-OA-H* 64ME-OA-H* 64S-OA-H* 64SE-OA-H*	Rp,Fm,ON	2	HRA	OV CH2-O/H2S CLO2
REPLACED BY TC-23C-779						
522	Scott	65-OA-H 65S-OA-H 65XL-OA-H A65-OA-H A65S-OA-H A65XL-OA-H	Rp,Fm,FF	2	HRA	OV/CH2-O H2S/CLO2
527	Pirelli	4333.2033	Rp,Fm,FF	2		

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
532	Survivair	2143-00/-10 2243-00/-10 2343-00/-10	Rp,Fm,ON	2	DFMR	OV
533	Survivair	3243-00 4243-00/-10 4143-10	Rp,Fm,FF	2	DFMR	OV
536	Safety Supply	F-200-AG F-160-AG F-800-AG	Rp,Fm,ON	2		
537	Safety Supply	F-700-AG	Rp,Fm,FF	2		
542	Safety Supply	F-200-OA F-160-OA F-800-OA	Rp,Fm,ON	2		OV
543	Safety Supply	F-700-OA	Rp,Fm,FF	2		OV
550	Safety Supply	F-160-AG-F-P F-200-AG-F-P F-800-AG-F-P	Rp,Fm,ON	2	DM	
551	Safety Supply	F-700-AG-F-P	Rp,Fm,FF	2	DM	
552	Safety Supply	F-160-OA-F-P F-200-OA-F-P F-800-OA-F-P	Rp,Fm,ON	2	DM	OV
553	Safety Supply	F-700-OA-F-P	Rp,Fm,FF	2	DM	OV
563	Willson	1525/R/SS	Rp,Fm,ON	2		OV

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
564	Willson	3525*/R/SS	Rp,Fm,ON	2		OV
565	Willson	1535/R/SS	Rp,Fm,ON	2		OV
566	Willson	3535*/R/SS	Rp,Fm,ON	2		OV
577	Willson	152510/R/SS	Rp,Fm,ON	2	DM	OV
578	Willson	352510*/R/SS	Rp,Fm,ON	2	DM	OV
583	Willson	153512/R/SS	Rp,Fm,ON	2	HA	OV
584	Willson	353512*/R/SS	Rp,Fm,ON	2	HA	OV
587	Cabot Safety	R4563A/S4563A R45563A/S45563A R5563A/S5563A R6563A/S6563A R55563A/S55563A R65563A/S65563A	Rp,Fm,ON	2	DFM	OV CLO2/Pest
588	Cabot Safety	R7563A/S7563A R77563A/S77563A	Rp,Fm,FF	2	DFM	OV CLO2/Pest
593	Racal	BE1/E	PAPR,HH	3		CH2-O
594	Racal	BE3/EC BE7/EC	PAPR,FF	3		CH2-O
595	Racal	BE5/E	PAPR,HH	3		CH2-O

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
596	Racal	BE6/E	PAPR,HH	3		CH2-O
597	Racal	BE1/EP3	PAPR,HH	3	HRA	CH2-O
598	Racal	BE3/EP3 BE7/EP3	PAPR,FF	3	HRA	CH2-O
599	Racal	BE5/EP3	PAPR,HH	3	HRA	CH2-O
600	Racal	BE6/EP3	PAPR,HH	1	HRA	CH2-O
601	Cabot Safety	R9722A	Es,MP	1		
603	Racal	BE17/EP3	PAPR,HH	3	HRA	CH2-O
605	Racal	BE1/AE	PAPR,HH	3		OV
606	Racal	BE3/AE BE7/AE	PAPR,FF	3		OV
607	Racal	BE5/AE	PAPR,HH	3		OV
608	Racal	BE6/AE	PAPR,HH	3		OV
613	Racal	BE8/E	PAPR,ON	3		CH2-O
614	Racal	BE8/EP3	PAPR,ON	3	HRA	CH2-O
615	Racal	BE8/AE	PAPR,ON	3		OV
619	Glendale	GR-1622-50 GR-2022-50 GR-4022-50 GR-8022-50	Rp,Fm,ON	2	HRA	CH2-O
620	Glendale	GR-7022-50	Rp,Fm,FF	2	HRA	CH2-O

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
621	Glendale	GR-2023-50 GR-8023-50 GR-1623-50 GR-4023-50	Rp,Fm,ON	2	HRA	OV CH2-O
622	Glendale	GR-7023-50	Rp,Fm,FF	2	HRA	OV CH2-O
626	Neoterik	NP1562-7	PAPR	3		OV
627	Neoterik	NP1562-6	PAPR,ON	3		
634	Racal	BE4/E*	PAPR,HH	3		CH2-O
635	Racal	BE4/EP3*	PAPR,HH	3	HRA	CH2-O
636	Racal	BE4/AE*	PAPR,HH	3		OV
638	Neoterik	NP1664-7 NP1564-7 NP1964-7	PAPR,FF	3		OV
640	Neoterik	NP1664-6 NP1564-6 NP1964-6	PAPR,FF	3		
647	Racal	BE3/AEP3 BE7/AEP3	PAPR,FF	3	HRA	OV
648	Racal	BE8/AEP3	PAPR,ON	3	HRA	OV
652	North	7592S*/M*/L* 7792S/M/L	Rp,Fm,ON	2	DFM	CH2-O
653	North	75BP92M*/L* 77BP92S/M/L	Rp,Bm,ON	2	DFM	CH2-O
654	North	7692/7692S*	Rp,Fm,FF	2	DFM	CH2-O

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
655	North	7593S*/M*/L* 7793S/M/L	Rp,Fm,ON	2	DFM	OV CH2-O
656	North	75BP93M*/L* 77BP93S/M/L	Rp,Bm,ON	2	DFM	OV CH2-O
657	North	7693 7693S*	Rp,Fm,FF	2	DFM	OV CH2-O
664	Protech	1694-G104	Rp,Fm,FF	2		OV
665	Protech	1694-G104-F100	Rp,Fm,FF	2	DMZ	OV
665	Eastern	792	Rp,Fm,FF	2	DM	OV
670	Protech	1694-G104-G208	Rp,Fm,FF	2	HRA	OV
670	Eastern	787	Rp,Fm,FF	2	HRA	OV
671	Protech	1694-G102	Rp,Fm,FF	2		CH2-O
673	Protech	1694-G102-G208	Rp,Fm,FF	2	HRA	CH2-O
678	Eastern	287	Rp,Fm,ON	2	HRA	OV
679	Cabot Safety	R7070A/S7070A R7770A/S7770A	Rp,Fm,FF	2		OV CLO2
684	3M	7802 7802C 7802-L 7802-H	Rp,Fm,FF For 7802C Combination Type C, CF	2		

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
684 Cont.						
				Hose Length (feet)	Press. Range psig 7802-H	7802-L
				25	8-15	7-11
				50	10-19	7-11
				100	12-21	7-12
				200	17-31	8-16
				300	21-36	10-18
685	3M	7803 7803C 7803-L 7803-H	Rp,Fm,FF	2		OV/HF
			For 7803C Combination Type C, CF			
			Air pressure (psig)	Hose length (feet)		
			15 - 25	25		
			18 - 25	50		
			19 - 30	100		
			25 - 40	200		
			25 - 55	300		
				Hose Length (feet)	Press. Range psig 7803-H	7803-L
				25	8-15	7-11
				50	10-19	7-11
				100	12-21	7-12
				200	17-31	8-16
				300	21-36	10-18
689	3M	7808 7808C 7808-L 7808-H	Rp,Fm,FF	2	DM	
			(For 7808C Combination Type C, CF			
			Air pressure (psig)	Hose length (feet)		
			15 - 25	25		
			18 - 25	50		
			19 - 30	100		
			25 - 40	200		
			25 - 55	300		
				Hose Length (feet)	Press. Range psig 7808-H	7808-L
				25	8-15	7-11
				50	10-19	7-11
				100	12-21	7-12
				200	17-31	8-16
				300	21-36	10-18
690	3M	7809 7809C 7809-L 7809-H	Rp,Fm,FF	2	DM	OV/HF
			For 7809C Combination Type C, CF			
			Air pressure (psig)	Hose length (feet)		
			15 - 25	25		

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
690 Cont.			18 - 25	50		
			19 - 30	100		
			25 - 40	200		
			25 - 55	300		

Hose Length (feet)	Press. Range psig 7809-H	Press. Range psig 7809-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

694	3M	7813 7813C 7813-L 7813-H	Rp,Fm,FF	2	HRA	

For 7813C Combination Type C, CF

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Hose Length (feet)	Press. Range psig 7813-H	Press. Range psig 7813-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

695	3M	7814 7814C 7814-L 7814-H	Rp,Fm,FF	2	HRA	OV/HF

For 7814C Combination Type C, CF

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Hose Length (feet)	Press. Range psig 7814-H	Press. Range psig 7814-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
699	Willson	1226/R/S/SR/SS/SSS S1226/R/S/SR/SS/SSS	ON,Rp,Fm	2		CH2-O
700	Willson	1626/1726	FF,Rp,Fm	2		CH2-O
701	Willson	1526/R/SS	ON,Rp,Fm	2		CH2-O
702	Willson	3026*/R/S/SR/SS/SSS 3026/R/S/SR/SS/SSS	ON,Rp,Bm	2		CH2-O
703	Willson	3126*,3226*	FF,Bm,Rp	2		CH2-O
704	Willson	3526*/R/SS	ON,Bm,Rp	2		CH2-O
705	Willson	122610/R/S/SR/SS/SSS S122610/R/S/SR/SS/SSS	ON,Rp,Fm	2	DM	CH2-O
706	Willson	152610/R/SS	ON,Rp,Fm	2	DM	CH2-O
707	Willson	162610 172610	FF,Rp,Fm	2	DM	CH2-O
708	Willson	302610*/R/S/SR/SS/SSS S302610/R/S/SR/SS/SSS	ON,Rp,Bm	2	DM	CH2-O
709	Willson	312610* 322610*	FF,Rp,Bm	2	DM	CH2-O
710	Willson	352610*/R/SS	ON,Rp,Bm	2	DM	CH2-O
711	Willson	122617/R/S/SR/SS/SSS S122617/R/S/SR/SS/SSS	ON,Rp,Fm	2	DFM	CH2-O

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
712	Willson	162617 172617	FF,Rp,Fm	2	DFM	CH2-O
713	Willson	152617/R/SS	FF,Rp,Fm	2	DFM	CH2-O
714	Willson	302617*/R/S/SR/SS/SSS S302617/R/S/SR/SS/SSS	ON,Rp,Bm	2	DFM	CH2-O
715	Willson	312617* 322617*	FF,Rp,Bm	2	DFM	CH2-O
716	Willson	352617*/R/SS	ON,Rp,Bm	2	DFM	CH2-O
717	Willson	122517/R/S/SR/SS/SSS S122517/R/S/SR/SS/SSS	ON,Rp,Fm	2	DFM	OV
718	Willson	162517 172517	FF,Rp,Fm	2	DFM	OV
719	Willson	152517/R/SS	ON,Rp,Fm	2	DFM	OV
720	Willson	302517*/R/S/SR/SS/SSS S302517/R/S/SR/SS/SSS	ON,Rp,Bm	2	DFM	OV
721	Willson	312517* 322517*	FF,Rp,Bm	2	DFM	OV
722	Willson	352517*/R/SS	ON,Rp,Bm	2	DFM	OV
736	Willson	6105S/M/L/SR/MR/LR	ON,Rp,Fm	2		OV
740	Willson	6205S/M/L/SR/MR/LR	ON,Rp,Fm	1		OV

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
741	Willson	6106S/M/L/SR/MR/LR	ON,Rp,Fm	2		CH2-O
742	Willson	6206S/M/L/SR/MR/LR	ON,Rp,Fm	1		CH2-O
745	Willson	6405/S6405 6505/S6505 W6405/W6505	FF,Rp,Fm	2		OV
746	Willson	6406/S6406 6506/S6506 W6406/W6506	FF,Rp,Fm	2		CH2-O
748	Willson	6415/S6415 6515/S6515 W6515/W6415	FF,Rp,Fm	2	DM	OV
749	Willson	6416/S6416 6516/S6516 W6416/W6516	FF,Rp,Fm	2	DM	CH2-O
753	Willson	6115S/M/L/SR/MR/LR	ON,Rp,Fm	2	DM	OV
754	Willson	6116S/M/L/SR/MR/LR	ON,Rp,Fm	2	DM	CH2-O
756	Willson	6215S/M/L/SR/MR/LR	ON,Rp,Fm	1	DM	OV
757	Willson	6216S/M/L/SR/MR/LR	ON,Rp,Fm	1	DM	CH2-O
763	Willson	6145S/M/L/SR/MR/LR	Rp,Fm,ON	2	HA	OV
764	Willson	6445/S6445 6545/S6545	Rp,Fm,FF	2	HA	OV

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
764 Cont.		W6445/W6545				
765	Willson	6146S/M/L/SR/MR/LR	Rp,Fm,ON	2	HA	CH2-O
766	Willson	6546/S6546 6446/S6446 W6446/W6546	Rp,Fm,FF	2	HA	CH2-O
768	Scott	66STC-AG S66STC-AG 66MTC-AG S66MTC-AG 66LTC-AG S66LTC-AG	Fm,Rp,ON	2		CH2-O/H2S CLO2
769	Scott	66STC-AG-D S66STC-AG-D 66MTC-AG-D S66MTC-AG-D 66LTC-AG-D S66LTC-AG-D	Fm,Rp,ON	2	DM	CH2-O/H2S CLO2
770	Scott	66STC-AG-F S66STC-AG-F 66MTC-AG-F S66MTC-AG-F 66LTC-AG-F S66LTC-AG-F	Fm,Rp,ON	2	DFMR	CH2-O/H2S CLO2
771	Scott	66STC-AG-H S66STC-AG-H 66MTC-AG-H S66MTC-AG-H 66LTC-AG-H S66LTC-AG-H	Fm,Rp,ON	2	HRA	CH2-O/H2S CLO2
776	Scott	66STC-OA S66STC-OA 66MTC-OA S66MTC-OA 66LTC-OA S66LTC-OA	Fm,Rp,ON	2		OV H2S/CLO2
777	Scott	66STC-OA-D S66STC-OA-D	Fm,Rp,ON	2	DM	OV CH2-O/H2S

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
777 Cont.		66MTC-OA-D S66MTC-OA-D 66LTC-OA-D S66LTC-OA-D				CLO2
778	Scott	66STC-OA-F S66STC-OA-F 66MTC-OA-F S66MTC-OA-F 66LTC-OA-F S66LTC-OA-F	Fm,Rp,ON	2	DFMR	OV H2S/CLO2
779	Scott	66STC-OA-H S66STC-OA-H 66MTC-OA-H S66MTC-OA-H 66LTC-OA-H S66LTC-OA-H	Fm,Rp,ON	2	HRA	OV H2S/CLO2
787	Willson	6125S/M/L/SR/MR/LR	Rp,Fm,ON	2	DFMR	OV
788	Willson	6425/S6425 6525/S6525 W6425/W6525	Rp,Fm,FF	2	DFMR	OV
789	Willson	6126S/M/L/SR/MR/LR	Rp,Fm,ON	2	DFMR	CH2-O
790	Willson	6426/S6426 6526/S6526 W6426/W6526	Rp,Fm,FF	2	DFMR	CH2-O
794	Cabot Safety	S7553HE S7553HEC	FF,Rp,Fm	2 For S7557HEC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35	HRA	CLO2/OV Pest

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
794 Cont.				For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32		
798	Cabot Safety	S7552A S7552AC	FF,Rp,Fm	2 For S7552AC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 300 / 14 - 37 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32		H2S/CLO2
799	Cabot Safety	S7553A S7553AC	FF,Rp,Fm	2 For S7553AC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32		OV CLO2
803	Cabot Safety	S7552HE S7552HEC	FF,Rp,Fm	2 For S7552HEC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35	HRA	

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
803 Cont.				For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32		
805	Cabot Safety	S7570A S7570AC	FF,Rp,Fm	2 For S7570AC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32		OV CLO2
808	Cabot Safety	S7552AD S7552ADC	FF,Rp,Fm	2 For S7552ADC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 300 / 14 - 37 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	DM	H2S/CLO2
809	Cabot Safety	S7553AD S7553ADC	FF,Rp,Fm	2 For S7553ADC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35	DM	OV CLO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
809 Cont.				For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32		
812	Cabot Safety	S75563A S75563AC	FF,Rp,Fm	2 For S75563AC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35	DFM	OV CLO2
817	Glendale	GR9522	Rp,Fm,ON	2		CH2-O
818	Glendale	GR9522-10	Rp,Fm,ON	2	DM	CH2-O
819	Glendale	GR9522-50	Rp,Fm,ON	2	HRA	CH2-O
820	Glendale	GR9523	Rp,Fm,ON	2		OV CH2-O
821	Glendale	GR9523-10	Rp,Fm,ON	2	DM	OV CH2-O
822	Glendale	GR9523-50	Rp,Fm,ON	2	HRA	OV CH2-O
828	Willson	6225S/M/L/SR/MR/LR	Rp,Fm,ON	1	DFM	OV
829	Willson	6226S/M/L/SR/MR/LR	Rp,Fm,ON	1	DFM	CH2-O
832	MSA	484475	FF,Rp,Fm	2	DM	H2S/CLO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
832 Cont.				Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85		
833	MSA	484476	FF,Rp,Fm	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	DM	OV CLO2/H2S
836	MSA	484480	FF,Rp,Fm	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	HA	H2S/CLO2
837	MSA	484488	FF,Rp,Fm	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	DM	OV CLO2/H2S
839	MSA	484481	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	HA	OV/Cl H2S/CLO2
843	MSA	483992 489259*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 35 - 40	DM	H2S/CLO2
844	MSA	483993 489260*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Pressure psig: 35 - 40	DM	OV/H2S CLO2

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
851	MSA	483997 489264*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Pressure psig: 35 - 40	HA	H2S/CLO2
852	MSA	484005 489272*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Pressure psig: 35 - 40	DM	OV/H2S CLO2
853	MSA	483999 489266*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Pressure psig: 35 - 40	DFMR	OV/H2S CLO2
854	MSA	483998 489265*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Pressure psig: 35 - 40	HRA	OV/H2S CLO2
865	3M	5103 5203 5303	ON,Su	2		OV
866	3M	5102 5202 5302	ON,Su	2		H2S/CLO2
868	3M	5113 5213 5313	ON,Su	2	DM	OV
869	3M	5112 5212 5312	ON,Su	2	DM	H2S/CLO2
872	Masprot	M-2.204/M	Rp,Fm,ON	2	DM	

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
874	Masprot	M-2.207/M	Rp,Fm,ON	2	HA	
877	3M	7802-H 7802-L 7802-PD	Rp,Fm,FF	2		

Combination Type C, Pd

Hose Length (feet)	Press. Range psig 7802-H	Press. Range psig 7802-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

For 7802-PD

Hose Length (feet)	Press. Range psig
25	80 - 100
50	80 - 100
100	80 - 100
200	80 - 100
300	80 - 100

878	3M	7803-H 7803-L 7803-PD	Rp,Fm,FF	2		OV

Combination Type C, Pd

Hose Length (feet)	Press. Range psig 7803-H	Press. Range psig 7803-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

For 7803-PD

Hose Length (feet)	Press. Range psig
25	80 - 100
50	80 - 100
100	80 - 100
200	80 - 100
300	80 - 100

882	3M	7808-H 7808-L 7808-PD	Rp,Fm,FF	2	DM	

Combination Type C, Pd

Hose Length (feet)	Press. Range psig 7808-H	Press. Range psig 7808-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
882 Cont.				300	21-36 10-18	
				For 7808-PD Hose Length (feet)	Press. Range psig	
				25	80 - 100	
				50	80 - 100	
				100	80 - 100	
				200	80 - 100	
				300	80 - 100	
883	3M	7809-H 7809-L 7809-PD	Rp,Fm,FF	2	DM	OV
				Combination Type C, Pd Hose Length (feet)	Press. Range psig	
					7809-H 7809-L	
				25	8-15 7-11	
				50	10-19 7-11	
				100	12-21 7-12	
				200	17-31 8-16	
				300	21-36 10-18	
				For 7809-PD Hose Length (feet)	Press. Range psig	
				25	80 - 100	
				50	80 - 100	
				100	80 - 100	
				200	80 - 100	
				300	80 - 100	
887	3M	7813-H 7813-L 7813-PD	Rp,Fm,FF	2	HRA	
				Combination Type C, Pd Hose Length (feet)	Press. Range psig	
					7813-H 7813-L	
				25	8-15 7-11	
				50	10-19 7-11	
				100	12-21 7-12	
				200	17-31 8-16	
				300	21-36 10-18	
				For 7813-PD Hose Length (feet)	Press. Range psig	
				25	80 - 100	
				50	80 - 100	
				100	80 - 100	
				200	80 - 100	
				300	80 - 100	

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
888	3M	7814-H 7814-L 7814-PD	Rp,Fm,FF	2	HRA	OV

Combination Type C, Pd

Hose Length (feet)	Press. Range psig 7814-H	Press. Range psig 7814-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

For 7814-PD

Hose Length (feet)	Press. Range psig
25	80 - 100
50	80 - 100
100	80 - 100
200	80 - 100
300	80 - 100

894	Racal	BE10/E	HH,PAPR	3		CH2-O
896	Racal	BE10/EP3	HH,PAPR	3	HRA	CH2-O
897	Racal	BE10/AE	HH,PAPR	3		OV
902	Cabot Safety	R4052AF/S4052AF R4552AF/S4552AF R5052AF/S5052AF R5552AF/S4552AF R6052AF/S6052AF R6552AF/S6552AF	Rp,Fm,ON	2	DFMR	H2S/CLO2
903	Cabot Safety	R7052AF/S7052AF R7752AF/S7752AF	Rp,Fm,FF	2	DFMR	H2S/CLO2
904	Cabot Safety	S7552AF S7552AFC	Rp,Fm,FF	2	DFMR	H2S/CLO2

For S7552AFC, combination Type C, CF 3/8" I.D.

Hose Length feet	Press. Range psig
25 - 75	17 - 25
100 - 150	20 - 29
175 - 225	23 - 32
250 - 300	26 - 35

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
904 Cont.			1/2" I.D. Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32			
905	Cabot Safety	R4053AF/S4053AF R4553AF/S4553AF R5053AF/S5053AF R5553AF/S5553AF R6053AF/S6053AF R6553AF/S6553AF	Rp,Fm,ON	2	DFMR	OV/CLO2 Pest
906	Cabot Safety	R7053AF/S7053AF R7753AF/S7753AF	Rp,Fm,FF	2	DFMR	OV/CLO2 Pest
907	Cabot Safety	S7753AF S7753AFC	Rp,Fm,FF For S7553AFC, combination Type C, CF 3/8" I.D. Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 1/2" I.D. Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	2	DFMR	OV/CLO2 Pest
914	Cabot Safety	R7070AF/S7070AF R7770AF/S7770AF	Rp,Fm,FF	2	DFMR	OV/CLO2 Pest
915	Cabot Safety	S7570AF S7570AFC	Rp,Fm,FF	2	DFMR	OV/CLO2 Pest

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
915 Cont.			For S7570AFC, combination Type C, CF 3/8" I.D. Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 1/2" I.D. Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32			
929	MSA	489800 489764 489794 489823	Rp,Fm,ON NOT APPROVED FOR RADIONUCLIDES	2	HA	OV/H2S CLO2
930	MSA	489741	Rp,Bm,ON NOT APPROVED FOR RADIONUCLIDES	2	HA	OV/H2S CLO2
931	MSA	489829 489742	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2	HA	OV/H2S CLO2
932	MSA	489771	Rp,Bm,ON NOT APPROVED FOR RADIONUCLIDES	2	HA	OV/H2S CLO2
933	MSA	489837 489845*	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES Comb. Type C, CF Hose Length (feet) / Pressure psig 8-300 / 35 - 40	2	HA	OV/H2S CLO2
934	MSA	489841	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2	HA	OV/H2S CLO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
934 Cont.				Comb. Type C, Pd Hose Length (feet) 8-300	Pressure psig 65 - 85	
942	National Draeger	4052850 4052851	Rp,Fm,FF	1	HA	
946	MSA	490026* 490046* 490066	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet) 8-300	DM Pressure psig 85 - 100	H2S/CLO2
947	MSA	490027* 490047* 490067	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet) 8-300	DM Pressure psig 85 - 100	OV/H2S CLO2
951	MSA	490031* 490051* 490071	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet) 8-300	HA Pressure psig 85 - 100	H2S/CLO2
952	MSA	490032* 490052* 490072	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet) 8-300	HA Pressure psig 85 - 100	H2S/CLO2 OV
953	MSA	490033* 490053* 490073	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet) 8-300	DFMR Pressure psig 85 - 100	H2S/CLO2 OV
957	MSA	490039* 490059*	Rp,Fm,FF	2	DM	H2S/CLO2 OV

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
957 Cont.		490079*		Comb. Type Hose Length (feet) 8-300	C, CF Pressure psig 85 - 100	
961	MSA	490042* 490062* 490082*	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2 Comb. Type Hose Length (feet) 8-300	HA C, CF Pressure psig 85 - 100	H2S/CLO2 OV
965	Critical Products Group	5145S 5145M 5145L	Rp,Fm,ON	2	HA	OV
966	Critical Products Group	5146S 5146M 5146L	Rp,Fm,ON	2	HA	CH2-O
967	Masprot	M-2.203/M	Rp,Fm,ON	2		OV
968	Masprot	M-2.206/M	Rp,Fm,ON	2	HA	OV
973	National Draeger	4052932 4052933	Rp,Fm,FF	1		
981	Cabot Safety	R7452A S7452A	Rp,Fm,FF	2		CLO2/H2S
982	Cabot Safety	R7452AD S7452AD	Rp,Fm,FF	2	DM	CLO2/H2S
983	Cabot Safety	R7452AF S7452AF	Rp,Fm,FF	2	DFM	CLO2/H2S
984	Cabot Safety	R7453A S7453A	Rp,Fm,FF	2		CLO2/OV
985	Cabot Safety	R7453AD S7453AD	Rp,Fm,FF	2	DM	CLO2/OV

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
986	Cabot Safety	R7453AF S7453AF	Rp,Fm,FF	2	DFMR	CLO2/OV Pest
995	Cabot Safety	R7470A S7470A	Rp,Fm,FF	2		CLO2/OV
996	Cabot Safety	R7470AF S7470AF	Rp,Fm,FF	2	DFMR	CLO2/OV Pest
998	Cabot Safety	R74563A S74563A	Rp,Fm,FF	2	DFM	CLO2/OV Pest
1000	Cabot Safety	R7452HE S7452HE	Rp,Fm,FF	2	HRA	CLO2/H2S
1001	Cabot Safety	R7453HE S7453HE	Rp,Fm,FF	2	HRA	CLO2/H2S OV/Pest
1008	National Draeger	4052976 4052977	Rp,Fm,FF	1		OV
1010	3M	5143 5243 5343	Su,ON	2	HRA	OV
1014	National Draeger	4052966 4052979	Rp,Fm,FF	1	HA	OV
1020	3M	5142 5242 5342	Su,ON	2	HRA	H2S/CLO2
1021	National Draeger	4053027 4053030	Rp,Fm,FF	1		
1022	National Draeger	4053028 4053029	Rp,Fm,FF	1	HA	
1023	Racal	BE1/AEP3	HH/PAPR	3	HRA	OV
1024	Racal	BE5/AEP3	HH/PAPR	3	HRA	OV

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
1025	Racal	BE6/AEP3	HH/PAPR	3	HRA	OV
1026	Racal	BE10/AEP3	HH/PAPR	3	HRA	OV
1027	Racal	BE17/AEP3	HH/PAPR	3	HRA	OV
1037	Racal	PF/AEC	FF/PAPR	1		OV
1042	Willson	2105 2205 2305	Su,ON	2		OV/CL02
1043	Willson	2115 2215 2315	Su,ON	2	DM	OV/CL02
1044	Willson	2106 2206 2306	Su,ON	2		CH2-O
1045	Willson	2116 2216 2316	Su,ON	2	DM	
1050	Willson	2145 2245 2345	Su,ON	2	HA	OV/CL02
1051	Willson	2146 2246 2346	Su,ON	2	HA	CH2-O
1053	Survivair	5383-00 5483-00	FF,PAPR	3	HRA	OV

6. Organic Vapor

Approval

Approved as respiratory protection against not more than 1000 parts per million organic vapors by volume.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow the manufacturer's instructions for changing cartridges or for discarding disposable respirators.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types and approved use concentrations on gases and vapors.

Do not wear for protection against organic vapors with poor warning properties or those that generate high heats of reaction.

Maximum use concentrations will be lower than 1000 parts per million organic vapors where that concentration produces atmospheres immediately dangerous to life or health.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

CHEMICAL CARTRIDGES - ORGANIC VAPOR

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
40	MSA	459433 461005 460852 489743 489803	Rp,Fm,Bm, ON	2	DM	
47	MSA	459435 461007 489745 489805	Rp,Fm,Bm, ON	2	DM	SO2/HCl Cl/CLO2 H2S
49	North	7501*/S*/M*/L* 7701S/M/L	Rp,Fm,ON	2		
50	Willson	1221/S/SS/SSS/R/SR S1221/S/SS/SSS/R/SR	Rp,Fm, ON	2		
51	Willson	122110/S/SS/SSS/R/SR S122110/S/SS/SSS/R/SR	Rp,Fm, ON	2	DM	
52	Willson	122113*/S/SS/SSS/R/SR S122113/S/SS/SSS/R/SR	Rp,Fm, ON	2	DFM	
54	WGM	122115/S/SS/SSS/R/SR S122115/S/SS/SSS/R/SR	Rp,Fm, ON	2	DM	PLE/Pest
56	Cabot Safety	R4051* R5051* R6051*	Rp,Fm, ON	2		
59	DeVilbiss	MSE-502* MSE-502-1*	Rp,Fm, ON	2		
65	North	7503*/S*/M*/L* 7703S/M/L	Rp,Fm, ON	2		SO2/HCl Cl/CH2-O

CHEMICAL CARTRIDGES - ORGANIC VAPOR

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
66	North	7513*/S/M/L 7713S/M/L	Rp,Fm, ON	2	DM	SO2/HCl Cl/CH2-O
73	North	7511*/S*/M*/L* 7711S/M/L	Rp,Fm, ON	2	DM	
74	North	7549*/M/L 7749S/M/L	Rp, Fm, ON	2		Pest
75	North	7531*/S*/M*/L* 7731S/M/L	Rp,Fm, ON	2		PLE
75	Acme	27*	Rp,Fm, ON	2		PLE
76	Willson	1225/S/SS/SSS/R/SR S1225/S/SS/SSS/R/SR	Rp,Fm, ON	2		SO2/HCl Cl
77	Willson	122510/S/SS/SSS/R/SR S122510/S/SS/SSS/R/SR	Rp,Fm, ON	2	DM	SO2/HCl Cl
79	MSA	448848 461009 489747 489802	Rp,Fm,Bm, ON	2	DM	PLE/Pest
80	MSA	448849 460853 462241 466249 thru 466251 466255 466528 thru 466529 468015 thru 468018 476726 thru 476728 479704 thru 479712 489767* 489826*	Rp,Fm,Bm, ON	2	DM	PLE
81	Pulmosan	C256* 10009* 10183*	Rp,Fm, ON	1		

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
81 Cont.		10219* 10270*				
82	Cabot Safety	R4053* R5053* R6053*	Rp,Fm, ON	2		SO2/HCl Cl
83	Cabot Safety	R4055*/S4055* R5055*/S5055* R6055*/S6055*	Rp,Fm, ON	2	DM	
84	Cabot Safety	R8151* S8151*	Rp,Fm, ON	1		
85	Cabot Safety	R8153* S8153*	Rp,Fm, ON	1		SO2/HCl Cl
86	Binks	40-129*	Rp,Fm, ON	2		
87	Binks	40-128 40-141 40-143 40-196 40-197 40-198	Rp,Fm, ON	2	DM	PLE
88	Glendale	GR1621 GR2021 GR4021 GR8021	Rp,Fm, ON	2		
89	Glendale	GR1621-10 GR2021-10 GR4021-10 GR8021-20	Rp,Fm, ON	2	DM	
90	Glendale	GR1621-20*/-60 GR2021-20*/-60 GR4021-20*/-60 GR8021-20*/-60	Rp,Fm, ON	2		PLE
91	Pulmosan	C259* 10024*	Rp,Fm, ON	1	DM	

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
91 Cont.		10198* 10222* 10282*				
92	Cabot Safety	R8191P* S8191P*	Rp,Fm, ON	1	DM	PLE
93	Cabot Safety	R8151P* S8151P*	Rp,Fm, ON	1	DM	PLE
94	Cabot Safety	R4051P* R5051P* R6051P*	Rp,Fm, ON	2	DM	PLE
96	DeVilbiss	MSP-505* MSP-505-1*	Rp,Fm, ON	2	DM	PLE
97	Cabot Safety	R4091P*/S4091P* R5091P*/S5091P* R6091P*/S6091P*	Rp,Fm, ON	2	DM	PLE
99	Cesco	94R40*	Rp,Fm, ON	2		
100	Pulmosan	C-251* 10006* 10180 10225* 10267* 11030	Rp,Fm, ON	1		PLE
100	Fibre Metal	C-251* 10180*	Rp,Fm, ON	1		PLE
100	Shoplyne	10006* 10267* 10180 10225*	Rp,FM, ON	1		PLE
101	North	7401L*/M*	Rp,Fm, ON	1		
102	North	75BP01*/M*/L* 77BP01S/M/L	Rp,Bm, ON	2		

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
103	North	75BP11*/M*/L* 77BP11S/M/L	Rp,Bm, ON	2	DM	
104	North	75BP03*/M*/L* 77BP03S/M/L	Rp,Bm, ON	2		SO2/HCl Cl/CH2-O
105	North	75BP13*/M/L	Rp,Bm, ON	2	DM	SO2/HCl Cl/CH2-O
106	Cabot Safety	R4058*/S4058* R5058*/S5058* R6058*/S6058*	Rp,Fm, ON	2	DFM	Pest
107	Protech	1482-G100 1482-L-G100 1482-S-G100 1585S-G100 1585-G100 1585L-G100	Rp,Fm, ON	2		
107	Sellstrom	315-G100	Rp,Fm, ON	2		
107	Eastern	E451* 291	Rp,Fm, ON	2		
107	Safe-Tex	236-G100*	Rp,Fm, ON	2		
113	Scott	6411-0013* 6412-0013* 6413-0013* 6421-0013* 6422-0013* 6423-0013* 64-OV* 64E-OV* 64M-OV* 64ME-OV* 64S-OV* 64SE-OV*	Rp,Fm, ON	2		
REPLACED BY TC-23C-780						
114	Scott	6411-0113* 6412-0113* 6413-0113* 6421-0113* 6422-0113* 6423-0113* 64-OV-D*	Rp,Fm, ON	2	DM	

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
114 Cont.		64E-OV-D* 64M-OV-D* 64ME-OV-D* 64S-OV-D* 64SE-OV-D*				
117	Scott	6412-0313* 6422-0313* 6411-0313* 6413-0313* 6421-0313* 6423-0313* 64-OVP* 64E-OVP* 64M-OVP* 64ME-OVP* 64S-OVP* 64SE-OVP*	Rp,Fm, ON	2	DFMR	PLE/Pest
118	US Safety	150T20 150L20 100S20/200S20 100M20/200M20 100L20/200L20 300S/M20 300M/L20	Fm, ON	2		
119	Cesco	95RC25 95SMRC25 100S20/200S20 100M20/200M20 100L20/200L20 300S/M20 300M/L20	Fm, ON	2		
120	US Safety	150T23 150L23 100S23/200S23 100M23/200M23 100L23/200L23 300S/M23 300M/L23	Rp,Fm, ON	2	DM	
120	Lab Safety Supply	11291-S-4 11291-M-4 11291-L-4				
121	Cesco	95RC45 95SMRC45	Rp,Fm, ON	2	DM	

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
121 Cont.		100S23/200S23 100M23/200M23 100L23/200L23 300S/M23 300M/L23				
123	3M	8712 8734 8741 8751	Su, ON	1	DM-8734 only PLE-8741 only Pest-8751 only	
124	Protech	1482-G100-F102 1482-S-G100-F102 1482-L-G100-F102 1585S-G100-F102 1585-G100-F102 1585L-G100-F102	Rp,Fm, ON	2		PLE
124	Eastern	E454* 294	Rp,Fm, ON	2		PLE
124	Sellstrom	315-G100-F102	Rp,Fm, ON	2		PLE
124	Safe-Tex	236-G100-F102*	Rp,Fm, ON	2		PLE
125	US Safety	150T24	Rp,Fm, ON	2		PLE
126	Cesco	95RC35	Rp,Fm, ON	2		PLE
127	Stewart-Warner	7931*	Rp,Fm, ON	2		PLE
128	Northcott	70-450*	Rp,Fm, ON	2		PLE
130	Willson	1621 1721	Rp,Fm, FF	2		
131	Willson	162113* 172113*	Rp,Fm, FF	2	DMF	
133	Willson	162115 172115	Rp,Fm, FF	2	DM	PLE/Pest

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
134	Willson	162110 172110	Rp,Fm, FF	2	DM	
141	Willson	1625 1725	Rp,Fm, FF	2		SO2/HCl Cl
142	Willson	162510 172510	Rp,Fm, FF	2	DM	SO2/HCl Cl
144	MSA	461848 483480	Rp,Fm, FF	2	DM	
146	MSA	461850 483482	Rp,Fm, FF	2	DM	SO2/HCl H2S/Cl CLO2
148	MSA	461858 483490	Rp,Fm, FF	2	DM	PLE/Pest
149	MSA	461846 466256/466257 471726/471727 480386 thru 480388 483496	Rp,Fm, FF	2	DM	PLE
151	MSA	461852 483484	Rp,Fm, FF	2	DM	
153	MSA	461855 483487	Rp,Fm, FF	2	HA	SO2/HCl CLO2/Cl H2S
154	MSA	461856 483488	Rp,Fm, FF	2	DFMR	SO2/HCl CLO2/Cl H2S
155	MSA	461853 483485	Rp,Fm, FF	2	HA	PLE/Pest
157	MSA	460965 462238 489754 489813	Rp,Fm,Bm,ON	2	DM	

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
159	MSA	460847 461013 489751 489810	Rp,Fm,Bm, ON	2	HA	SO2/HCl CLO2/Cl H2S
160	MSA	460848 461014 489752 489811	Rp,Fm,Bm, ON	2	DFMR	SO2/HCl CLO2/Cl H2S
161	MSA	460846 461012 489750 489809	Rp,Fm,Bm,ON	2	HA	PLE/Pest
163	Protech	1482-G104 1482-S-G104 1482-L-G104 1482-G104-F100 1482-S-G104-F100 1482-L-G104-F100 1585S-G104 1585-G104 1585L-G104 1585S-G104-F104 1585-G104-F104 1585L-G104-F104	Rp,Fm, ON	2 1482-G104-F100 only 1482-S-G104-F100 only 1482-L-G104-F100 only 1585-G104-F100 only 1585S-G104-F100 only 1585L-G104-F100 only	DMZ	SO2/HCl Cl
163	Sellstrom	315-G104 315-G104-F100	Rp,Fm, ON	2	DMZ	SO2/HCl Cl
163	Eastern	E452* 292	Rp,Fm, ON	2	DMZ	SO2/HCl Cl
166	Cesco	95RC85 95SMRC85 100S26/200S26 100M26/200M26 100L26/200L26 300S/M26 300M/L26	Fm, ON	2		SO2/HCl Cl
167	Cesco	95RC105 95SMRC105 100S28/200S28 100M28/200M28 100L28/200L28	Rp,Fm, ON	2	DM	SO2/HCl Cl

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
167 Cont.		300S/M28 300M/L28				
170	US Safety	150T26 150L26 100S26/200S26 100M26/200M26 100L26/200L26 300S/M26 300M/L26	Fm, ON	2		SO2/HCl Cl
171	US Safety	150T28 150L28 100S28/200S28 100M28/200M28 100L28/200L28 300S/M28 300M/L28	Rp,Fm, ON	2	DM	SO2/HCl Cl
171	Lab Safety Supply	11291-S-7 11291-M-7 11291-L-7				
172	Scott	6411-0015* 6412-0015* 6413-0015* 6421-0015* 6422-0015* 6423-0015* 64-OA* 64E-OA* 64M-OA* 64ME-OA* 64S-OA* 64SE-OA* 604032-15*	Fm, ON	2		SO2/HCl CH2-O/Cl H2S/CLO2
REPLACED BY TC-23C-776						
174	Scott	6411-0115* 6412-0115* 6413-0115* 6421-0115* 6422-0115* 6423-0115* 64-OA-D* 64E-OA-D* 64M-OA-D* 64ME-OA-D*	Fm, ON	2	DM	SO2/HCl CH2-O/Cl H2S/CLO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
174 Cont.		64S-OA-D* 64SE-OA-D*				
175	North	75BP31*/M*/L* 77BP31S/M/L	Rp,Bm, ON	2		PLE
178	North	75BP49*/M/L	Rp, Bm, ON	2		Pest
180	North	7601/S*/N*/SN*	Rp,Fm, FF	2		
181	North	7603/S*/N*/SN*	Rp,Fm, FF	2		SO2/HCl Cl/CH2-O
185	North	7611/S*/N*/SN*	Rp,Fm, FF	2	DM	
186	North	7613/S*/N*/SN*	Rp,Fm, FF	2	DM	SO2/HCl Cl/CH2-O
188	North	7631/S*/N*/SN*	Rp,Fm, FF	2		PLE
190	North	7649/S/N*/SN*	Rp, Fm, FF	2		Pest
196	3M	8723 8724	Su, ON	1 8724 only	DM	Cl
198	US Safety	150T30*	Fm, ON	2		Pest
199	Cesco	95RC125*	Fm, ON	2		Pest
201	MSA	465986 466239 thru 466241 466526, 466527	Rp,Fm, ON	2	DM	PLE
202	Protech	1482-G100-F104 1482-S-G100-F104 1482-L-G100-F104	Rp,Fm, ON	2	DM	Pest

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
202 Cont.		1585S-G100-F104 1585-G100-F104 1585L-G100-F104				
202	Eastern	E455* 295/355	Rp,Fm, ON	2	DM	Pest
202	Sellstrom	315-G100-F104	Rp,Fm, ON	2	DM	Pest
204	North	7581* 7581S*/M*/L* 7781S/M/L	Rp,Fm, ON	2	HRA	PLE/Pest
205	North	75BP81*/M*/L* 77BP81S/M/L	Rp,Bm, ON	2	HRA	PLE/Pest
206	North	7681/7681S*	Rp,Fm, FF	2	HRA	PLE/Pest
210	North	7583*/S*/M*/L* 7783S/M/L	Rp,Fm, ON	2	HRA	SO2/HCl Cl/CH2-O
211	North	75BP83*/M*/L* 77BP83S/M/L	Rp,Bm, ON	2	HRA	SO2/HCl Cl/CH2-O
212	North	7683S* 7683	Rp,Fm, FF	2	HRA	SO2/HCl Cl/CH2-O
216	3M	8725 8726	Su, ON	1	DM 8726 only	SO2/HCl Cl
219	Scott	6470-0013* 6480-0013* 65-OV 65S-OV 65XL-OV A65-OV A65S-OV A65XL-OV	Rp,Fm, FF	2		
220	Scott	6470-0113* 6480-0113* 65-OV-D	Rp,Fm, FF	2	DM	

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
220 Cont.		65S-OV-D 65XL-OV-D A65-OV-D A65S-OV-D A65XL-OV-D				
221	Scott	6470-0015* 6480-0015* 65-OA 65S-OA 65XL-OA A65-OA A65S-OA A65XL-OA	Rp,Fm, FF	2		SO2/HCl Cl/H2S CLO2/CH2-O
222	Scott	6470-0115* 6480-0115* 65-OA-D 65S-OA-D 65XL-OA-D A65-OA-D A65S-OA-D A65XL-OA-D	Rp,Fm, FF	2	DM	SO2/HCl Cl/H2S CLO2/CH2-O
224	Scott	6470-0313* 6480-0313* 65-OVP 65S-OVP 65XL-OVP A65-OVP A65S-OVP A65XL-OVP	Rp, Fm, FF	2	DFMR	PLE/Pest
234	Cabot Safety	R7053*	Rp,Fm, FF	2		SO2/HCl Cl
236	Cabot Safety	R7051*	Rp,Fm, FF	2		
237	Cabot Safety	R7055* S7055*	Rp,Fm, FF	2	DM	
238	Cabot Safety	R7058* S7058*	Rp,Fm, FF	2	DMF	Pest

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
239	Cabot Safety	R7051P*	Rp,Fm, FF	2		PLE
240	Cabot Safety	R7091P* S7091P*	Rp,Fm, FF	2	DM	PLE
241	Glendale	GR-1623 GR-2023 GR-4023 GR-8023	Rp,Fm, ON	2		SO2/HCl Cl/CH2-O
242	Glendale	GR1623-10 GR2023-10 GR4023-10 GR8023-10	Rp,Fm, ON	2	DM	SO2/HCl Cl/CH2-O
243	MSA	466165 489817	Rp,Fm, ON	2	HA	
244	MSA	466163 489758	Rp,Bm, ON	2	HA	
245	MSA	466164 483493	Rp,Fm, FF	2	HA	
250	Scott	6411-0315* 6412-0315* 6413-0315* 6421-0315* 6422-0315* 6423-0315* 64-OA-F* 64M-OA-F* 64ME-OA-F* 64E-OA-F* 64S-OA-F* 64SE-OA-F*	Rp,Fm, ON	2	DFMR	SO2/HCl CH2-O/Cl H2S/CLO2
251	Scott	6470-0315* 6480-0315* 65-OA-F 65S-OA-F 65XL-OA-F A65-OA-F A65S-OA-F A65XL-OA-F	Rp,Fm, FF	2	DFMR	SO2/HCl Cl/H2S CLO2/CH2-O

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
258	Willson	122116*/S/SS/SSS/R/SR S122116/S/SS/SSS/R/SR	Rp,Fm, ON	2	DM	PLE
259	Willson	162116* 172116*	Rp,Fm, FF	2	DM	PLE
260	MSA	466903 489818	Rp,Fm, ON	2	DM	SO2/HCl CLO2/Cl H2S
261	MSA	466902 489759	Rp,Bm, ON	2	DM	SO2/HCl CLO2/Cl H2S
262	MSA	466904 483494	Rp,Fm, FF	2	DM	SO2/HCl CLO2/Cl H2S
263	Cesco	96RC45	Rp,Fm, FF	2	DM	
264	US Safety	151T23	Rp,Fm, FF	2	DM	
264	Lab Safety Supply	11291-4				
267	Cesco	96RC105	Rp,Fm, FF	2	DM	SO2/HCl Cl
268	US Safety	151T28	Rp,Fm, FF	2	DM	SO2/HCl Cl
268	Lab Safety Supply	11291-7				
271	Cesco	96RC35*	Rp,Fm, FF	2		PLE
272	US Safety	151T24*	Rp,Fm, FF	2		PLE
275	Protech	1482-G100-F108	Rp,Fm, ON	2	DFM	

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
275 Cont.		1482-S-G100-F108 1482-L-G100-F108				
276	Protech	1482-G100-F100 1482-S-G100-F100 1482-L-G100-F100	Rp,Fm, ON	2	DM	
277	DeVilbiss	MSP-507	Rp,Fm, ON	1		
278	DeVilbiss	MSP-506	Rp,Fm, ON	1	DM	PLE
281	Cabot Safety	R4563*/S4563* R5563*/S5563* R6563*/S6563*	Rp,Fm, ON	2	DFM	SO2/HCl ClO2/Pest Cl
282	Cabot Safety	R7563* S7563*	Rp,Fm, FF	2	DFM	SO2/HCl ClO2/Pest Cl
285	MSA	468023 thru 468025 471728, 471729 483497*	Rp, FM, FF	2	DM	PLE
286	MSA	468026 thru 468031	Rp, BM, ON	2	DM	PLE
287	Survivair	2101-00/-10 2201-00/-10 2301-00/-10	Rp, FM, ON	2		
293	Willson	1231/S/SS/SSS/R/SR S1231/S/SS/SSS/R/SR	Rp, FM, ON	2		
294	Willson	123112/S/SS/SSS/R/SR S123112/S/SS/SSS/R/SR	Rp, FM, ON	2	HA	
295	Willson	1631/1731	Rp, FM, FF	2		

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
296	Willson	163112 173112	Rp, FM, FF	2	HA	
297	3M	8729	SU, ON	1		
298	Willson	1235/S/SS/SSS/R/SR S1235/S/SS/SSS/R/SR	Rp, Fm, ON	2		SO2/HCl Cl
299	Willson	123512/S/SS/SSS/R/SR S123512/S/SS/SSS/R/SR	Rp, FM, ON	2	HA	SO2/HCl Cl
300	Willson	1635/1735	Rp, FM, FF	2		SO2/HCl Cl
301	Willson	163512 173512	Rp, FM, FF	2	HA	SO2/HCl Cl
302	Cesco	95RC20 95SMRC20 100S40/200S40 100M40/200M40 100L40/200L40 300S/M40 300M/L40	Rp, FM, ON	2	HRA	
303	US Safety	150T40 150L40 100S40/200S40 100M40/200M40 100L40/200L40 300S/M40 300M/L40	Rp, FM, ON	2	HRA	
303	Lab Safety Supply	11291-S-8 11291-M-8 11291-L-8				
304	Cesco	96RC20	Rp,FM, FF	2	HRA	
305	US Safety	151T40	Rp, FM, FF	2	HRA	

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
305	Lab Safety Supply	11291-8				
310	Cesco	95RC80 95SMRC80 100S46/200S46 100M46/200M46 100L46/200L46 300S/M46 300M/L46	Rp, FM, ON	2	HRA	SO2/HCl Cl
311	US Safety	150T46 150L46 100S46/200S46 100M46/200M46 100L46/200L46 300S/M46 300M/L46	Rp, FM, ON	2	HRA	SO2/HCl Cl
311	Lab Safety Supply	11291-S-10 11291-M-10 11291-L-10				
312	Cesco	96RC80	Rp, FM, FF	2	HRA	SO2/HCl Cl
313	US Safety	151T46	Rp, FM, FF	2	HRA	SO2/HCl Cl
313	Lab Safety Supply	11291-10				
318	Survivair	2103-00/-10 2203-00/-10 2303-00/-10	Rp, FM, ON	2		SO2/HCl Cl
320	Pulmosan	10015* 10189* 10243* 10276*	Rp, FM, ON	1		SO2/HCl Cl
321	Survivair	2121-00/-10/-50/-70 2221-00/-10/-50/-70	Rp, FM, ON	2	DM	PLE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
321 Cont.		2321-00/-10/-50/-70				
322	Survivair	2111-00/-10 2211-00/-10 2311-00/-10	Rp, FM, ON	2	DM	
323	Survivair	2131-00* 2231-00* 2331-00*	Rp, FM, ON	2	DFMR	Pest
324	Pulmosan	10030* 10255* 10204 10288*	Rp, FM, ON	1	DM	SO2/HCl Cl
325	Cabot Safety	R4051A/S4051A R4551A/S4551A R5051A/S5051A R6051A/S6051A R5551A/S5551A R6551A/S6551A	Rp,FM,ON	2		
326	Cabot Safety	R7051A/S7051A R7751A/S7751A	Rp,FM,FF	2		
327	Cabot Safety	R4051AD/S4051AD R4551AD/S4551AD R5051AD/S5051AD R6051AD/S6051AD R5551AD/S5551AD R6551AD/S6551AD	Rp, FM, ON	2	DM	
328	Cabot Safety	R7051AD/S7051AD R7751AD/S7751AD	Rp,FM,FF	2	DM	
333	Cabot Safety	R4051AP/S4051AP R4551AP/S4551AP R5051AP/S5051AP R6051AP/S6051AP	Rp,FM,ON	2	DM	PLE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
333 Cont.		R5551AP/S5551AP R6551AP/S6551AP				
334	Cabot Safety	R7051AP/S7051AP R7751AP/S7751AP	Rp, FM, FF	2	DM	PLE
335	DeVilbiss	MSP-508 MSP-9508	Rp, FM, ON	2	DM	PLE
336	US Safety	150T35 150L35 100S35/200S35 100M35/200M35 100L35/200L35 300S/M35 300M/L35	Rp,Fm, ON	2	DFMR	PLE/Pest
336	Lab Safety Supply	11291-S-12 11291-M-12 11291-L-12				
337	Cesco	95RC115 95SMRC115 100S35/200S35 100M35/200M35 100L35/200L35 300S/M35 300M/L35	Rp,Fm, ON	2	DFMR	PLE/Pest
338	US Safety	151T35	Rp,Fm, FF	2	DFMR	PLE/Pest
338	Lab Safety Supply	11291-12				
343	Cabot Safety	R4053A/S4053A R4553A/S4553A R5053A/S5053A R6053A/S6053A R5553A/S5553A R6553A/S6553A	Rp,Fm, ON	2		SO2/HCl ClO2/Cl

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
344	Cabot Safety	R7053A/S7053A R7753A/S7753A	Rp,Bm, FF	2		SO2/HCl ClO2/Cl
345	Cabot Safety	R4053AD/S4053AD R4553AD/S4553AD R5053AD/S5053AD R6053AD/S6053AD R5553AD/S5553AD R6553AD/S6553AD	Rp,Fm, ON	2	DM	SO2/HCl ClO2/Cl
346	Cabot Safety	R7053AD/S7053AD R7753AD/S7753AD	Rp,Fm, FF	2	DM	SO2/HCl ClO2/Cl
348	Cesco	96RC115	Rp,Fm, FF	2	DFM	PLE/Pest
349	North	10001S/M	Su, ON	1		
351	Survivair	3201-00 4201-00/-10 4101-10	Rp,Fm, FF	2		
352	North	10003S/M	Su, ON	1		SO2/HCl Cl/CH2-O
354	North	10041S/M	Su, ON	1	DM	PLE/Pest
355	North	10011S/M	Su, ON	1	DM	
357	North	10013S/M	Su, ON	1	DM	SO2/HCl Cl/CH2-O
360	Willson	3021*/S/SS/SSS/R/SR S3021/S/SS/SSS/R/SR	Rp,Bm, ON	2		
361	Willson	3121*/3221*	Rp, Bm, FF	2		

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
362	Willson	3031*/S/SS/SSS/R/SR S3031/S/SS/SSS/R/SR	Rp, Bm, ON	2		
363	Willson	3131*/3231*	Rp, Bm, FF	2		
368	Willson	3025*/S/SS/SSS/R/SR S3025/S/SS/SSS/R/SR	Rp,Bm, ON	2		SO2/HCl Cl
369	Willson	3125*/3225*	Rp, Bm, FF	2		SO2/HCl Cl
370	Willson	3035*/S/SS/SSS/R/SR S3035/S/SS/SSS/R/SR	Rp, Bm, ON	2		SO2/HCl Cl
371	Willson	3135*/3235*	Rp,Bm, FF	2		SO2/HCl Cl
373	Stewart Warner	7931+	Rp, Fm, ON	2	DFMR	PLE/Pest
374	Willson	302115*/S/SS/SSS/R/SR S302115/S/SS/SSS/R/SR	Rp, Bm, ON	2	DM	PLE/Pest
375	Willson	312115* 322115*	Rp, Bm, FF	2	DM	PLE/Pest
376	Willson	302116*/S/SS/SSS/R/SR S302116/S/SS/SSS/R/SR	Rp, Bm, ON	2	DM	PLE
377	Willson	312116* 322116*	Rp, Bm, FF	2	DM	PLE
380	Willson	302510*/S/SS/SSS/R/SR S302510/S/SS/SSS/R/SR	Rp,Bm, ON	2	DM	SO2/HCl Cl

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
381	Willson	312510* 322510*	Rp,Bm, FF	2	DM	SO2/HCl Cl
382	Willson	303112*/S/SS/SSS/R/SR S303112/S/SS/SSS/R/SR	Rp,Bm, ON	2	HA	
383	Willson	313112* 323112*	Rp,Bm, FF	2	HA	
386	Willson	303512*/S/SS/SSS/R/SR S303512/S/SS/SSS/R/SR	Rp,Bm,ON	2	HA	SO2/HCl Cl
387	Willson	313512* 323512*	Rp,Bm,FF	2	HA	SO2/HCl Cl
388	Willson	312110* 322110*	Rp,Fm,FF	2	DM	
389	Willson	302110*/S/SS/SSS/R/SR S302110/S/SS/SSS/R/SR	Rp,Bm,ON	2	DM	
390	Willson	312113* 322113*	Rp,Bm,FF	2	DFM	
391	Willson	302113*/S/SS/SSS/R/SR S302113/S/SS/SSS/R/SR	Rp,Bm,ON	2	DFM	
392	Northcott	70-450*	Rp,Fm,ON	2	DFMR	PLE/Pest
393	Survivair	2133-00* 2233-00* 2333-00*	Rp,Fm,ON	2	DFMR	SO2/HCl Cl
394	Survivair	3233-00*	Rp,Fm,FF	2	DFMR	SO2/HCl Cl
404	Glendale	GR7021	Rp,Fm,FF	2		

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
405	Glendale	GR7021-10	Rp,Fm,FF	2	DM	
406	Glendale	GR7021-20 GR7021-60	Rp,Fm,FF	2		PLE
410	Glendale	GR7023	Rp,Fm, FF	2		SO2/HCl Cl/CH2-O
411	Glendale	GR7023-10	Rp,Fm, FF	2	DM	SO2/HCl Cl/CH2-O
413	Cabot Safety	R4051HE/S4051HE R4551HE/S4551HE R5051HE/S5051HE R6051HE/S6051HE R5551HE/S5551HE R6551HE/S6551HE	Rp,Fm, ON	2	HRA	Pest/PLE
414	Cabot Safety	R7051HE/S7051HE R7751HE/S7751HE	Rp,Fm, FF	2	HRA	Pest/PLE
417	Cabot Safety	R4053HE/S4053HE R4553HE/S4553HE R5053HE/S5053HE R6053HE/S6053HE R5553HE/S5553HE R6553HE/S6553HE	Rp,Fm, ON	2	HRA	SO2/HCl ClO2/Pest Cl
418	Cabot Safety	R7053HE/S7053HE R7753HE/S7753HE	Rp,Fm, FF	2	HRA	SO2/HCl ClO2/Pest Cl
421	Protech	1482-G104-G208 1482-S-G104-G208 1482-L-G104-G208 1585S-G104-G208 1585-G104-G208 1585L-G104-G208	Rp,Fm, ON	2	HRA	SO2/HCl Cl

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
424	Cabot Safety	R4051E* R5051E* R6051E*	Rp,Fm, ON	2		
425	Cabot Safety	R7051E*	Rp,Fm, FF	2		
426	Cabot Safety	R4051EP* R5051EP* R6051EP*	Rp,Fm, ON	2	DMZ	PLE
427	Cabot Safety	R7051EP*	Rp,Fm, FF	2	DMZ	PLE
428	DeVilbiss	MSL-500*	Rp,Fm, ON	2	DMZ	PLE
433	Survivair	2113-00/-10 2213-00/-10 2313-00/-10	Rp,Fm, ON	2	DM	SO2/HCl Cl
434	Survivair	3213-00 4213-00/-10 4113-10	Rp,Fm, ON	2	DM	SO2/HCl Cl/CH2-O
435	3M	7201	Rp,Fm, ON	2		
436	3M	7210	Rp,Fm, ON	2	DM	PLE
437	3M	7207	Rp,Fm, ON	2	DM	
438	3M	7212	Rp,Fm, ON	2	HRA	
446	3M	7203	Rp,Fm, ON	2		SO2/HCl Cl/HF
447	3M	7209	Rp,Fm, ON	2	DM	SO2/HCl Cl/HF
448	3M	7214	Rp,Fm, ON	2	HRA	SO2/HCl Cl/HF

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
450	Survivair	2193-00/-10 2293-00/-10 2393-00/-10	Rp,Fm, ON	2	HRA	SO2/HCl Cl/Pest
451	Survivair	3293-00 4293-00/-10 4193-10	Rp,Fm, FF	2	HRA	SO2/HCl Cl/Pest
452	Survivair	2191-00/-10 2291-00/-10 2391-00/-10	Rp,Fm, ON	2	HRA	Pest
453	Survivair	3291-00 4291-00/-10 4191-10	Rp,Fm, FF	2	HRA	Pest
454	Survivair	3203-00 4203-00/-10 4103-10	Rp,Fm, FF	2		SO2/HCl Cl/CH2-O
455	Survivair	3221-00 4121-00/-10 4221-00/-10	Rp,Fm, FF	2	DM	PLE
456	Survivair	3231-00*	Rp,Fm, FF	2	DFMR	Pest
458	Protech	1482-G100-G208 1482-L-G100-G208 1482-S-G100-G208 1585S-G100-G208 1585-G100-G208 1585L-G100-G208	Rp,Fm, ON	2	HRA	
460	MSA	472748 489773	Rp,Bm, ON	2	DM	
462	MSA	472750 489775	Rp,Bm, ON	2	DM	SO2/HCl CLO2/Cl H2S

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
464	MSA	472752 489777	Rp,Bm, ON	2	DM	Pest/PLE
465	MSA	472755 489780	Rp,Bm, ON	2	HA	PLE/Pest
466	MSA	472756 489781	Rp,Bm, ON	2	HA	SO2/HCl CLO2/Cl H2S
467	MSA	472757 489782	Rp,Bm, ON	2	DFMR	SO2/HCl CLO2/Cl H2S
469	MSA	472759 489783	Rp,Bm, ON	2	DM	
471	MSA	472761 489784	Rp,Bm, ON	2	HA	
472	MSA	472764 489789	Rp,Bm, ON	2	DM	SO2/HCl CLO2/Cl H2S
473	MSA	472736 thru 472738 479926 thru 479931 489797* 490534 thru 490539	Rp,Bm, ON	2	DM	PLE
474	MSA	472739 thru 472741 480055 thru 480063	Rp,Bm, ON	2	DM	PLE
476	Racal	BE1/A	PAPR, HH	3		
477	Racal	BE5/A	PAPR, HH	3		
478	Racal	BE6/A	PAPR, HH	3		
482	Racal	BE1/A-P3	PAPR, HH	3	HRA	Pest

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
483	Racal	BE3/A-P3 BE7/A-P3	PAPR, FF	3	HRA	Pest
484	Racal	BE5/A-P3	PAPR, HH	3	HRA	Pest
485	Racal	BE6/A-P3	PAPR, HH	3	HRA	Pest
488	Cabot Safety	R4055A/S4055A R5055A/S5055A R6055A/S6055A R5555A/S5555A R6555A/S6555A	Rp,FM, ON	2	DM	
489	Cabot Safety	R7055A/S7055A R7755A/S7755A	Rp,FM, FP	2	DM	
490	Cabot Safety	R4091AP/S4091AP R4591AP/S4591AP R5091AP/S5091AP R6091AP/S6091AP R5591AP/S5591AP R6591AP/S6591AP	Rp,FM, ON	2	DM	PLE
491	Cabot Safety	R7091AP/S7091AP R7791AP/S7791AP	Rp,FM, FF	2	DM	PLE
494	Pulmosan	10405*	Rp,FM, FF	1		PLE
495	Pulmosan	10408*	Rp,FM, FF	1		
497	Pulmosan	10414*	Rp,FM,FF	1		SO2/HCl Cl
499	Pulmosan	10420*	Rp,FM, FF	1	DM	
501	Pulmosan	10426*	Rp, FM, FF	1	DM	SO2/HCl Cl

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
504	Pirelli	4336.2021	Rp,FM, ON	2		
509	MSA	469727	Rp,FM, ON	1		
510	MSA	470200	Rp,FM, ON	1	DM	PLE
512	MSA	469729	Rp,FM, ON	1	DM	SO2/HCl CH2-O/Cl
521	Scott	64-OA-H* 64E-OA-H* 64M-OA-H* 64ME-OA-H* 64S-OA-H* 64SE-OA-H*	Rp,FM, ON	2	HRA	SO2/HCl CH2-O/Cl H2S/CLO2
REPLACED BY TC-23C-779						
522	Scott	65-OA-H 65S-OA-H 65XL-OA-H A65-OA-H A65S-OA-H A65XL-OA-H	Rp,FM, FF	2	HRA	SO2/HCl Cl/H2S CLO2/CH2-O
523	Scott	64-OV-H* 64E-OV-H* 64M-OV-H* 64ME-OV-H* 64S-OV-H* 64SE-OV-H*	Rp,FM, ON	2	HRA	PLE/Pest
REPLACED BY TC-23C-783						
524	Scott	65-OV-H 65S-OV-H 65XL-OV-H A65-OV-H A65S-OV-H A65XL-OV-H	Rp,FM, FF	2	HRA	PLE/Pest
529	Pirelli	4333.2021	Rp,FM, FF	2		
530	Survivair	2141-00/-10 2241-00/-10 2341-00/-10	Rp,FM, ON	2	DFMR	Pest

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
531	Survivair	3241-00 4241-00/-10 4141-10	Rp,FM, FF	2	DFMR	Pest
532	Survivair	2143-00/-10 2243-00/-10 2343-00/-10	Rp,FM, ON	2	DFMR	SO2/HCl Cl
533	Survivair	3243-00 4143-00/-10 4243-00/-10	Rp,Fm,FF	2	DFMR	SO2/HCl Cl/CH2-O
535	Racal	BE3/AC BE7/AC	PAPR, FF	3		
538	Safety Supply	F-160-OV F-200-OV F-800-OV	Rp,FM, ON	2		
539	Safety Supply	F-700-OV	Rp,FM, FF	2		
540	Safety Supply	F-160-OV-F-SP F-200-OV-F-SP F-800-OV-F-SP	Rp,FM, ON	2		PLE
541	Safety Supply	F-700-OV-F-SP	Rp,FM, FF	2		PLE
542	Safety Supply	F-200-OA F-160-OA F-800-OA	Rp,FM, ON	2		SO2/HCl Cl
543	Safety Supply	F-700-OA	Rp,FM, FF	2		SO2/HCl Cl
548	Safety Supply	F-160-OV-F-P F-200-OV-F-P F-800-OV-F-P	Rp,FM, ON	2	DM	

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
549	Safety Supply	F-700-OV-F-P	Rp,FM, FF	2	DM	
552	Safety Supply	F-160-OA-F-P F-200-OA-F-P F-800-OA-F-P	Rp,FM, ON	2	DM	HCl/SO2 Cl
553	Safety Supply	F-700-OA-F-P	Rp,FM, FF	2	DM	SO2/HCl Cl
554	Pulmosan	10438 10441 11060	Rp,FM, ON	2	DM	PLE
555	Willson	1521/R/SS	Rp,FM, ON	2		
556	Willson	3521*/R/SS	Rp,FM, ON	2		
557	Willson	1531*/R/SS	Rp,FM, ON	2		
558	Willson	3531/R/SS	Rp,FM, ON	2		
563	Willson	1525/R/SS	Rp,FM, ON	2		SO2/HCl Cl
564	Willson	3525*/R/SS	Rp,FM, ON	2		SO2/HCl Cl
565	Willson	1535/R/SS	Rp,FM, ON	2		SO2/HCl Cl
566	Willson	3535*R/SS	Rp,FM, ON	2		SO2/HCl Cl
567	Willson	152110/R/SS	Rp,FM, ON	2	DM	
568	Willson	352110*/R/SS	Rp,FM, ON	2	DM	

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
569	Willson	152113/R/SS	Rp,FM, ON	2	DFM	
570	Willson	352113*/R/SS	Rp,FM, ON	2	DFM	
571	Willson	152115/R/SS	Rp,FM, ON	2	DM	PLE/Pest
572	Willson	352115*/R/SS	Rp,FM, ON	2	DM	PLE/Pest
573	Willson	152116/R/SS	Rp,FM, ON	2	DM	PLE
574	Willson	352116*/R/SS	Rp,FM, ON	2	DM	PLE
577	Willson	152510/R/SS	Rp,FM, ON	2	DM	SO2/HCl Cl
578	Willson	352510*/R/SS	Rp,FM, ON	2	DM	SO2/HCl Cl
579	Willson	153112/R/SS	Rp,FM, ON	2	HA	
580	Willson	353112*/R/SS	Rp,FM, ON	2	HA	
583	Willson	153512/R/SS	Rp,FM, ON	2	HA	SO2/HCl Cl
584	Willson	353512*/R/SS	Rp,FM, ON	2	HA	SO2/HCl Cl
585	Cabot Safety	R4058A/S4058A R4558A/S4558A R5058A/S5058A R6058A/S6058A R5558A/S5558A R6558A/S6558A	Rp,FM, ON	2	DFM	Pest

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
586	Cabot Safety	R7058A/S7058A R7758A/S7758A	Rp,FM, ON	2	DFM	Pest
587	Cabot Safety	R4563A/S4563A R5563A/S5563A R45563A/S45563A R6563A/S6563A R55563A/S55563A R65563A/S65563A	Rp,FM, ON	2	DFM	SO2/HCl ClO2/Pest Cl
588	Cabot Safety	R7563A/S7563A R77563A/S77563A	Rp,FM, FF	2	DFM	SO2/HCl ClO2/Pest Cl
602	Racal	BE17/AP3	PAPR, HH	3	HRA	Pest
605	Racal	BE1/AE	PAPR, HH	3		SO2/HCl Cl
606	Racal	BE3/AE BE7/AE	PAPR, FF	3		SO2/HCl Cl
607	Racal	BE5/AE	PAPR, HH	3		SO2/HCl Cl
608	Racal	BE6/AE	PAPR, HH	3		SO2/HCl Cl
609	Racal	BE8/A	PAPR, ON	3		
611	Racal	BE8/AP3	PAPR, ON	3	HRA	Pest
615	Racal	BE8/AE	PAPR, ON	3		SO2/HCl Cl
616	Shoplyne	11060 10441	Rp,FM, ON	2	DM	PLE
617	Glendale	GR-1621-50 GR-2021-50	Rp,FM, ON	2	HRA	

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
617 Cont.		GR-8021-50				
618	Glendale	GR-7021-50	Rp,FM, FF	2	HRA	
621	Glendale	GR-2023-50 GR-8023-50 GR-1623-50 GR-4023-50	Rp,FM, ON	2	HRA	SO2/HCl Cl/CH2-O
622	Glendale	GR-7023-50	Rp, Fm, FF	2	HRA	SO2/HCl Cl/CH2-O
625	Neoterik	NP1562-5	PAPR, ON	3		
626	Neoterik	NP1562-7	PAPR, ON	3		SO2/HCl Cl
630	Racal	BE4/A*	PAPR, HH	3		
632	Racal	BE4/AP3*	PAPR, HH	3	HRA	Pest
636	Racal	BE4/AE*	PAPR, HH	3		SO2/HCl Cl
637	Neoterik	NP1664-5 NP1564-5 NP1964-5	PAPR, FF	3		
638	Neoterik	NP1664-7 NP1564-7 NP1964-7	PAPR, FF	3		SO2/HCl Cl
647	Racal	BE3/AEP3 BE7/AEP3	PAPR, FF	2	HRA	SO2/HCl Cl
648	Racal	BE8/AEP3	PAPR, ON	3	HRA	SO2/HCl Cl
649	North	7591S*/M*/L* 7791S/M/L	Rp,Fm, ON	2	DFM	

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
650	North	75BP91M*/L* 77BP91S/M/L	Rp, Bm, ON	2	DFM	
651	North	7691/S*	Rp, Fm, FF	2	DFM	
655	North	7593S*/M*/L* 7793S/M/L	Rp,Fm, ON	2	DFM	SO2/HCl Cl/CH2-O
656	North	75BP93M*/L* 77BP93S/M/L	Rp,Bm, ON	2	DFM	SO2/HCl Cl/CH2-O
657	North	7693 7693S*	Rp,Fm, FF	2	DFM	SO2/HCl Cl/CH2-O
661	Eastern	791	Rp,Fm,FF	2		
662	Protech	1694-G100-F100	Rp,Fm, FF	2	DM	
663	Protech	1694-G100-F108	Rp,Fm, FF	2	DFM	
664	Protech	1694-G104	Rp,Fm, FF	2		SO2/HCl Cl
665	Protech	1694-G104-F100	Rp,Fm, FF	2	DMZ	SO2/HCl Cl
665	Eastern	792	Rp,Fm,FF	2	DM	SO2/Cl HCl
668	Protech	1694-G100-F102	Rp,Fm, FF	2		PLE
668	Eastern	794	Rp,Fm,FF	2		PLE
669	Protech	1694-G100-F104	Rp,Fm, FF	2	DM	Pest

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
669	Eastern	795	Rp,Fm,FF	2	DM	Pest
670	Protech	1694-G104-G208	Rp,Fm, FF	2	HRA	SO2/HCl Cl
670	Eastern	787	Rp,Fm,FF	2	HRA	SO2/Cl/ HCl
672	Protech	1694-G100-G208	Rp,Fm, FF	2	HRA	
675	Binks	40-411 40-412 40-413 40-414 40-415 40-416	Rp,Fm, ON	2	HA	PLE
676	Cabot Safety	R8151A* S8151A*	Rp,Fm, ON	1		
677	Cabot Safety	R8151AP* S8151AP*	Rp,Fm, ON	1	DM	PLE
678	Eastern	287	Rp,Fm, ON	2	HRA	SO2/HCl Cl
679	Cabot Safety	R7070A/S7070A R7770A/S7770A	Rp,Fm, FF	2		SO2/HCl ClO2/Cl
683	3M	7801 7801C 7801-L 7801-H	Rp,Fm, FF (For 7801C Combination Type C, CF)	2		

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Hose Length (feet)	Press. Range psig 7801-H	Press. Range psig 7801-L
25	8-15	7-11
50	10-19	7-11

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM		Gas and Vapor
683 Cont.				100	12-21	7-12	
				200	17-31	8-16	
				300	21-36	10-18	
685	3M	7803 7803C 7803-L 7803-H	Rp, Fm, FF	2			Cl/HCl SO2/HF

(For 7803C Combination Type C, CF)

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Hose Length (feet)	Press. Range psig 7803-H	Press. Range psig 7803-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

688	3M	7807 7807C 7807-L 7807-H	Rp,Fm, FF	2	DM		

(For 7807C Combination Type C, CF)

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Hose Length (feet)	Press. Range psig 7807-H	Press. Range psig 7807-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

690	3M	7809 7809C 7809-L 7809-H	Rp, Fm, FF	2	DM		SO2/Cl HCl/HF

(For 7809C Combination Type C, CF)

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
690 Cont.			25 - 40	200		
			25 - 55	300		

Hose Length (feet)	Press. Range psig 7809-H	Press. Range psig 7809-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

691	3M	7810 7810C 7810-L 7810-H	Rp,Fm, FF	2	DM	PLE

(For 7810C Combination Type C, CF)

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Hose Length (feet)	Press. Range psig 7810-H	Press. Range psig 7810-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

693	3M	7812 7812C 7812-H 7812-L	Rp,Fm, FF	2	HRA

(For 7812C Combination Type C, CF)

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Hose Length (feet)	Press. Range psig 7812-H	Press. Range psig 7812-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
695	3M	7814 7814C 7814-L 7814-H	Rp, Fm, FF (For 7814C Combination Type C, CF) Air pressure (psig) / Hose length (feet) 15 - 25 / 25 18 - 25 / 50 19 - 30 / 100 25 - 40 / 200 25 - 55 / 300 Hose Length (feet) / Press. Range psig: 7814-H / 7814-L 25: 8-15 / 7-11 50: 10-19 / 7-11 100: 12-21 / 7-12 200: 17-31 / 8-16 300: 21-36 / 10-18	2	HRA	SO2/HCl Cl/HF
717	Willson	122517/R/S/SR/SS/SSS S122517/R/S/SR/SS/SSS	ON,Rp, Fm	2	DFM	HCl/SO2 Cl
718	Willson	162517 172517	FF,Rp, Fm	2	DFM	HCl/SO2 Cl
719	Willson	152517/R/SS	ON,Rp, Fm	2	DFM	HCl/SO2 Cl
720	Willson	302517*/R/S/SR/SS/SSS S302517/R/S/SR/SS/SSS	ON,Rp, Bm	2	DFM	HCl/SO2 Cl
721	Willson	312517* 322517*	FF,Rp, Bm	2	DFM	HCl/SO2 Cl
722	Willson	352517*/R/SS	ON,Rp, Bm	2	DFM	HCl/SO2 Cl
729	Willson	122117/R/S/SR/SS/SSS S122117/R/S/SR/SS/SSS	ON,Rp, Fm	2	DFM	Pest/PLE
730	Willson	162117 172117	FF,Rp, Fm	2	DFM	Pest/PLE

CHEMICAL CARTRIDGES - ORGANIC VAPOR

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
731	Willson	152117/R/SS	ON,Rp, Fm	2	DFM	Pest/PLE
732	Willson	302117* 302117S/R/S/SR/SS/SSS S302117/R/S/SR/SS/SSS	ON,Rp, Bm	2	DFM	Pest/PLE
733	Willson	312117* 322117*	FF,Rp, Bm	2	DFM	Pest/PLE
734	Willson	352117*/R/SS	ON,Rp, Bm	2	DFM	Pest/PLE
736	Willson	6105S/M/L/SR/MR/LR	ON,Rp,Fm	2		SO2/Cl HCl
737	Willson	6101S/M/L/SR/MR/LR	ON,Rp,Fm	2		
738	Willson	6201S/M/L/SR/MR/LR	ON,Rp,Fm	1		
740	Willson	6205S/M/L/SR/MR/LR	ON,Rp,Fm	1		SO2/Cl HCl
743	Willson	6401/S6401 6501/S6501 W6401/W6501	FF,Rp,Fm	2		
745	Willson	6505/S6505 6405/S6405 W6405/W6505	FF,Rp,Fm	2		SO2/Cl HCl
747	Willson	6411/S6411 6511/S6511 W6411/W6511	FF,Rp,Fm	2	DM	PLE/Pest
748	Willson	6515/S6515 6415/S6415 W6415/W6515	FF,Rp,Fm	2	DM	SO2/Cl HCl
751	Willson	6111S/M/L/SR/MR/LR	ON,Rp,Fm	2	DM	PLE/Pest

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
753	Willson	6115S/M/L/SR/MR/LR	ON,Rp,Fm	2	DM	SO2/Cl HCl
755	Willson	6211S/M/L/SR/MR/LR	ON,Rp,Fm	1	DM	PLE/Pest
756	Willson	6215S/M/L/SR/MR/LR	ON,Rp,Fm	1	DM	SO2/Cl HCl
759	Willson	6141S/M/L/SR/MR/LR	Rp,Fm,ON	2	HA	
760	Willson	6541/S6541 6441/S6441 W6441/W6541	Rp,Fm,FF	2	HA	
763	Willson	6145S/M/L/SR/MR/LR	Rp,Fm,ON	2	HA	SO2/Cl HCl
764	Willson	6445/S6445 6545/S6545 W6445/W6545	Rp,Fm,FF	2	HA	SO2/Cl HCl
776	Scott	66STC-OA S66STC-OA 66MTC-OA S66MTC-OA 66LTC-OA S66LTC-OA	Fm,Rp,ON	2		HCl/Cl SO2/H2S CLO2
777	Scott	66STC-OA-D S66STC-OA-D 66MTC-OA-D S66MTC-OA-D 66LTC-OA-D S66LTC-OA-D	Fm,Rp,ON	2	DM	HCl/SO2 CH2-O/H2S CLO2/Cl
778	Scott	66STC-OA-F S66STC-OA-F 66MTC-OA-F S66MTC-OA-F 66LTC-OA-F S66LTC-OA-F	Fm,Rp,ON	2	DFMR	HCl/SO2 H2S/CLO2 Cl

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
779	Scott	66STC-OA-H S66STC-OA-H 66MTC-OA-H S66MTC-OA-H 66LTC-OA-H S66LTC-OA-H	Fm,Rp,ON	2	HRA	HCl/SO2 H2S/CLO2 Cl
780	Scott	66STC-OV S66STC-OV 66MTC-OV S66MTC-OV 66LTC-OV S66LTC-OV	Rp,Fm,ON	2		
781	Scott	66STC-OV-D S66STC-OV-D 66MTC-OV-D S66MTC-OV-D 66LTC-OV-D S66LTC-OV-D	Rp,Fm,ON	2	DM	
782	Scott	66STC-OVP S66STC-OVP 66MTC-OVP S66MTC-OVP 66LTC-OVP S66LTC-OVP	Rp,Fm,ON	2	DFRM	PLE/Pest
783	Scott	66STC-OV-H S66STC-OV-H 66MTC-OV-H S66MTC-OV-H 66LTC-OV-H S66LTC-OV-H	Rp,Fm,ON	2	HRA	PLE/Pest
787	Willson	6125S/M/L/SR/MR/LR	Rp,Fm,ON	2	DFMR	SO2/Cl HCl
788	Willson	6425/S6425 6525/S6525 W6425/W6525	Rp,Fm,FF	2	DFMR	SO2/HCl Cl
791	Willson	6121S/M/L/SR/MR/LR	Rp,Fm,ON	2	PLE	Pest/PLE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
792	Willson	6421/S6421 6521/S6521 W6421/W6521	Rp,Fm,FF	2	PLE	Pest/PLE
793	Cabot Safety	S7551HE S7551HEC	FF,Rp,Fm	2 For S7551HEC Comb. Type CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	HRA	PLE/Pest
794	Cabot Safety	S7553HE S7553HEC	FF,Rp,Fm	2 For S7553HEC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	HRA	SO2/HCl CLO2/Cl Pest
796	Cabot Safety	S7591AP S7591APC	FF,Rp,Fm	2 For S7591APC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35	DM	PLE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
796 Cont.				For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32		
797	Cabot Safety	S7551A S7551AC	FF,Rp,Fm	2 For S7551AC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32		
799	Cabot Safety	S7553A S7553AC	FF,Rp,Fm	2 For S7553AC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32		SO2/HCl Cl/CLO2
801	Cabot Safety	S7555A S7555AC	FF,Rp,Fm	2 For S7555AC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32	DM	

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
801 Cont.				250 - 300	26 - 35	
				For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32		
802	Cabot Safety	S7558A S7558AC	FF,Rp,Fm	2 For S7558AC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	DFM	Pest
805	Cabot Safety	S7570A S7570AC	FF,Rp,Fm	2 For S7570AC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32		Cl/SO2/HCl CLO2
806	Cabot Safety	S7551AD S7551ADC	FF,Rp,Fm	2 For S7551ADC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25	DM	

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
806 Cont.				100 - 150 175 - 225 250 - 300	20 - 29 23 - 32 26 - 35	
				For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75: 14 - 22 100 - 150: 16 - 26 175 - 225: 18 - 29 250 - 300: 20 - 32		
807	Cabot Safety	S7551AP S7551APC	FF,Rp,Fm	2 For S7551APC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75: 17 - 25 100 - 150: 20 - 29 175 - 225: 23 - 32 250 - 300: 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75: 14 - 22 100 - 150: 16 - 26 175 - 225: 18 - 29 250 - 300: 20 - 32	DM	PLE
809	Cabot Safety	S7553AD S7553ADC	FF,Rp,Fm	2 For S7553ADC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75: 17 - 25 100 - 150: 20 - 29 175 - 225: 23 - 32 250 - 300: 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75: 14 - 22 100 - 150: 16 - 26 175 - 225: 18 - 29 250 - 300: 20 - 32	DM	SO2/HCl Cl/CLO2

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
812	Cabot Safety	S75563A S75563AC	FF,Rp,Fm	2 For S75563AC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35	DFM	Cl/SO2/HCl CLO2
813	Glendale	GR9521	Rp,Fm,ON	2		
814	Glendale	GR9521-10	Rp,Fm,ON	2	DM	
815	Glendale	GR9521-50	Rp,Fm,ON	2	HRA	
816	Glendale	GR9521-60	Rp,Fm,ON	2		PLE
820	Glendale	GR9523	Rp,Fm,ON	2		SO2/Cl/HCl CH2-O
821	Glendale	GR9523-10	Rp,Fm,ON	2	DM	SO2/Cl/HCl CH2-O
822	Glendale	GR9523-50	Rp,Fm,ON	2	HRA	SO2/Cl/HCl CH2-O
826	Willson	6221S/M/L/SR/MR/LR	Rp,Fm,ON	1	DFM	Pest/PLE
828	Willson	6225S/M/L/SR/MR/LR	Rp,Fm,ON	1	DFM	SO2/Cl HCl
830	MSA	484449 484450 484451 484461 484462 484463	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet / Press. Range psig 8 - 300 / 65 - 85	DM	PLE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
831	MSA	484474	Rp,Fm,FF	2	DM	
				Comb. Type C, Pd		
				Hose Length feet	Press. Range psig	
				8 - 300	65 - 85	
833	MSA	484476	Rp,Fm,FF	2	DM	SO2/Cl HCl/H2S CLO2
				Comb. Type C, Pd		
				Hose Length feet	Press. Range psig	
				8 - 300	65 - 85	
835	MSA	484478	Rp,Fm,FF	2	DM	
				Comb. Type C, Pd		
				Hose Length feet	Press. Range psig	
				8 - 300	65 - 85	
837	MSA	484488	Rp,Fm,FF	2	DM	SO2/Cl HCl/H2S CLO2
				Comb. Type C, Pd		
				Hose Length feet	Press. Range psig	
				8 - 300	65 - 85	
838	MSA	484479	Rp,Fm,FF	2	HA	Pest/PLE
				Comb. Type C, Pd		
				Hose Length feet	Press. Range psig	
				8 - 300	65 - 85	
839	MSA	484481	Rp,Fm,FF	2	HA	SO2/HCl Cl/H2S CLO2
				Comb. Type C, Pd		
				Hose Length feet	Press. Range psig	
				8 - 300	65 - 85	
841	MSA	484484	Rp,Fm,FF	2	HA	Pest/PLE
				Comb. Type C, Pd		
				Hose Length feet	Press. Range psig	
				8 - 300	65 - 85	

CHEMICAL CARTRIDGES - ORGANIC VAPOR

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
842	MSA	484487	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	HA	
844	MSA	483993 489260*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 35 - 40	DM	SO2/Cl HCl/H2S CLO2
846	MSA	484015 484016 484017 484027 484028 484029 489276*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 35 - 40	DM	PLE
847	MSA	484001 489268*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 35 - 40	DM	Pest/PLE
848	MSA	484004 489271*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 35 - 40	HA	
849	MSA	483995 489262*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 35 - 40	DM	
850	MSA	483996 489263*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 35 - 40	HA	Pest/PLE

CHEMICAL CARTRIDGES - ORGANIC VAPOR

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
852	MSA	484005 489272*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 35 - 40	DM	SO2/Cl HCl/H2S CLO2
853	MSA	483999 489266*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 35 - 40	DFMR	SO2/Cl HCl/H2S CLO2
854	MSA	483998 489265*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 35 - 40	HRA	SO2/Cl HCl/H2S CLO2
855	MSA	483990 489258*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 35 - 40	DM	
857	3M	8751A	Su,ON	1		Pest
859	3M	5101 5201 5301	Su,ON	2		
860	3M	5111 5211 5311	Su,ON	2	DM	Pest,PLE
863	Devilbiss	MSP-510 MSP-511 MSP-512 MSP-520 MSP-521 MSP-522	Rp,Fm	2	DM	PLE

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
864	3M	5105 5205 5305	Su,ON	2		CH2-O
865	3M	5103 5203 5303	ON,Su	2		SO2/Cl/HCl
867	3M	5115 5215 5315	Su,ON	2	DM	CH2-O
868	3M	5113 5213 5313	ON,Su	2	DM	SO2/Cl/HCl
870	Binks	40-1104 40-1105 40-1107 40-1108 40-1109	FF,Rp,Fm	2	DM	PLE
871	Binks	40-1098 40-1099 40-1100 40-1101 40-1102 40-1103	FF,Rp,Fm	2	HA	PLE
873	Masprot	M-2.205/M	Rp,Fm,ON	2	DM	
875	DeVilbiss	MSP-503	Rp,Fm,FF	2	DM	PLE
876	3M	7801-H 7801-L 7801-PD	FF,Rp,Fm	2		

Combination Type C, Pd

Hose Length (feet)	Press. Range psig 7801-H	Press. Range psig 7801-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
876 Cont.				For 7801-PD		
				Hose Length (feet)	Press. Range psig	
				25	80 - 100	
				50	80 - 100	
				100	80 - 100	
				200	80 - 100	
				300	80 - 100	
878	3M	7803-H 7803-L 7803-PD	FF,Rp,Fm	2		SO2/Cl HCl
				Combination	Type C, Pd	
				Hose Length (feet)	Press. Range psig	
					7803-H 7803-L	
				25	8-15 7-11	
				50	10-19 7-11	
				100	12-21 7-12	
				200	17-31 8-16	
				300	21-36 10-18	
				For 7803-PD		
				Hose Length (feet)	Press. Range psig	
				25	80 - 100	
				50	80 - 100	
				100	80 - 100	
				200	80 - 100	
				300	80 - 100	
881	3M	7807-H 7807-L 7807-PD	FF,Rp,Fm	2	DM	
				Combination	Type C, Pd	
				Hose Length (feet)	Press. Range psig	
					7807-H 7807-L	
				25	8-15 7-11	
				50	10-19 7-11	
				100	12-21 7-12	
				200	17-31 8-16	
				300	21-36 10-18	
				For 7807-PD		
				Hose Length (feet)	Press. Range psig	
				25	80 - 100	
				50	80 - 100	
				100	80 - 100	
				200	80 - 100	
				300	80 - 100	

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
883	3M	7809-H 7809-L 7809-PD	FF,Rp,Fm	2	DM	SO2/Cl HCl

Combination Type C, Pd

Hose Length (feet)	Press. Range psig 7809-H	Press. Range psig 7809-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

For 7809-PD

Hose Length (feet)	Press. Range psig
25	80 - 100
50	80 - 100
100	80 - 100
200	80 - 100
300	80 - 100

884	3M	7810-H 7810-L 7810-PD	FF,Rp,Fm	2	DM	PLE

Combination Type C, Pd

Hose Length (feet)	Press. Range psig 7810-H	Press. Range psig 7810-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

For 7810-PD

Hose Length (feet)	Press. Range psig
25	80 - 100
50	80 - 100
100	80 - 100
200	80 - 100
300	80 - 100

886	3M	7812-H 7812-L 7812-PD	FF,Rp,Fm	2	HRA	PLE

Combination Type C, Pd

Hose Length (feet)	Press. Range psig 7812-H	Press. Range psig 7812-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
886 Cont.				For 7812-PD		
				Hose Length (feet)	Press. Range psig	
				25	80 - 100	
				50	80 - 100	
				100	80 - 100	
				200	80 - 100	
				300	80 - 100	
888	3M	7814-H 7814-L 7814-PD	Rp,Fm,FF	2	HRA	SO2/Cl HCl
				Combination Type C, Pd		
				Hose Length (feet)	Press. Range psig	
					7814-H 7814-L	
				25	8-15 7-11	
				50	10-19 7-11	
				100	12-21 7-12	
				200	17-31 8-16	
				300	21-36 10-18	
				For 7814-PD		
				Hose Length (feet)	Press. Range psig	
				25	80 - 100	
				50	80 - 100	
				100	80 - 100	
				200	80 - 100	
				300	80 - 100	
892	Racal	BE10/A	HH,PAPR	3		
893	Racal	BE10/AP3	HH,PAPR	3	HRA	Pest
897	Racal	BE10/AE	HH,PAPR	3		SO2/Cl/HCl
899	Cabot Safety	R4051AF/S4051AF R4551AF/S4551AF R5051AF/S5051AF R5551AF/S5551AF R6051AF/S6051AF R6551AF/S6551AF	Rp,Fm,ON	2	DFMR	Pest/PLE
900	Cabot Safety	R7051AF/S7051AF R7751AF/S7751AF	Rp,Fm,FF	2	DFMR	Pest/PLE

CHEMICAL CARTRIDGES - ORGANIC VAPOR

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
901	Cabot Safety	S7551AF S7551AFC	Rp,Fm,FF	2	DFMR	Pest/PLE
			For S7551AFC, combination Type C, CF 3/8" I.D. Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 1/2" I.D. Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32			
905	Cabot Safety	R4053AF/S4053AF R4553AF/S4553AF R5053AF/S5053AF R5553AF/S5553AF R6053AF/S6053AF R6553AF/S6553AF	Rp,Fm,ON	2	DFMR	SO2/CLO2/HCl/Pest/Cl
906	Cabot Safety	R7053AF/S7053AF R7753AF/S7753AF	Rp,Fm,FF	2	DFMR	SO2/CLO2/HCl/Pest/Cl
907	Cabot Safety	S7553AF S7553AFC	Rp,Fm,FF	2	DFMR	SO2/CLO2/Pest/HCl/Cl
			For S7553AFC, combination Type C, CF 3/8" I.D. Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 1/2" I.D. Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32			

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
914	Cabot Safety	R7070AF/S7070AF R7770AF/S7770AF	Rp,Fm,FF	2	DFMR	SO2/CLO2/ HCl/Pest/ Cl
915	Cabot Safety	S7570AF S7570AFC	Rp,Fm,FF	2	DFMR	SO2/CLO2/ Pest/HCl/ Cl
			For S7570AFC, combination Type C, CF 3/8" I.D. Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 1/2" I.D. Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32			
917	MSA	489798 489762 489792 489821	Rp,Fm,ON	2	DM	CH2-O
918	MSA	489739	Rp,Bm,ON	2	DM	CH2-O
919	MSA	489839	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet / Press. Range psig 8 - 300 / 65 - 85	DM	CH2-O
920	MSA	489769	Rp,Bm,ON	2	DM	CH2-O
921	MSA	489827 489831	Rp,Fm,FF	2	DM	CH2-O
922	MSA	489835 489843*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length feet / Press. Range psig 8 - 300 / 35 - 40	DM	CH2-O

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
923	MSA	489799 489763 489793 489822	Rp,Fm,ON	2	HA	CH2-O
924	MSA	489770	Rp,Bm,ON	2	HA	CH2-O
925	MSA	489740	Rp,Bm,ON	2	HA	CH2-O
926	MSA	489828* 489832	Rp,FF,Fm	2	HA	CH2-O
927	MSA	489836 489844*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 35 - 40	HA	CH2-O
928	MSA	489840	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	HA	CH2-O
929	MSA	489800 489764 489794 489823	Rp,Fm,ON NOT APPROVED FOR RADIONUCLIDES	2	HA	SO2/Cl/HCl H2S/CLO2
930	MSA	489741	Rp,Bm,ON NOT APPROVED FOR RADIONUCLIDES	2	HA	SO2/Cl/HCl H2S/CLO2
931	MSA	489829 489833	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2	HA	SO2/Cl/HCl H2S/CLO2
932	MSA	489771	Rp,Bm,ON NOT APPROVED FOR RADIONUCLIDES	2	HA	SO2/Cl/HCl H2S/CLO2
933	MSA	489837 489846*	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2	HA	SO2/Cl HCl/H2S CLO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
933 Cont.				Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 35 - 40		
934	MSA	489841	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2 Comb. Type C, Pd Hose Length (feet): 8-300 Press. Range psig: 65 - 85	HA	SO2/Cl/HCl H2S/CLO2
941	National Draeger	4052853 4052854	Rp,Fm,FF	1	HA	
944	MSA	489883 thru 489885 489895 thru 489897 489907 thru 489909 489919 thru 489921 489931 thru 489933 489943 thru 489945	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 85 - 100	DM	PLE
945	MSA	490025* 490045* 490065	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 85 - 100	DM	
947	MSA	490027* 490047* 490067	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 85 - 100	DM	SO2/Cl HCl/CLO2 H2S
949	MSA	490029* 490049* 490069	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 85 - 100	DM	
950	MSA	490030* 490050*	Rp,Fm,FF	2	HA	PLE/Pest

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
950 Cont.		490070		Comb. Type C, CF Hose Length (feet) 8-300 Press. Range psig 85 - 100		
952	MSA	490032* 490052* 490072	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet) 8-300 Press. Range psig 85 - 100	HA	SO2/Cl HCl/CLO2 H2S
953	MSA	490033* 490053* 490073	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet) 8-300 Press. Range psig 85 - 100	DFMR	SO2/Cl HCl/CLO2 H2S
955	MSA	490035* 490055* 490075	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet) 8-300 Press. Range psig 85 - 100	DM	PLE/Pest
956	MSA	490038* 490058* 490078*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet) 8-300 Press. Range psig 85 - 100	HA	
957	MSA	490039* 490059* 490079*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet) 8-300 Press. Range psig 85 - 100	DM	SO2/Cl HCl/CLO2 H2S
958	MSA	490040* 490060* 490080	Rp,Fm,FF	2 Comb. Type C, CF Hose Length feet 8 - 300 Press. Range psig 85 - 100	DM	CH2-O

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
960	MSA	490041* 490061* 490081	Rp,Fm,FF	2 Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100	HA	CH2-O
961	MSA	490042* 490062* 490082*	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 85 - 100	HA	SO2/Cl HCl/CLO2 H2S
963	Critical Products Group	5141S 5141M 5141L	Rp,Fm,ON	2	HA	
965	Critical Products Group	5145S 5145M 5145L	Rp,Fm,ON	2	HA	SO2/Cl HCl
967	Masprot	M-2.203/M	Rp,Fm,ON	2		SO2/Cl HCl
968	Masprot	M-2.206/M	Rp,Fm,ON	2	HA	SO2/Cl HCl
969	Cabot Safety	ZR5051A ZS5051A	FF,PAPR	2		
971	National Draeger	4052929 4052930	Fm,Rp,FF	1		
977	Cabot Safety	R7451A S7451A	Rp,Fm,FF	2		
978	Cabot Safety	R7451AD S7451AD	Rp,Fm,FF	2	DM	
979	Cabot Safety	R7451AP S7451AP	Rp,Fm,FF	2	DM	PLE

CHEMICAL CARTRIDGES - ORGANIC VAPOR

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
980	Cabot Safety	R7451AF S7451AF	Rp,Fm,FF	2	DFMR	PLE/Pest
984	Cabot Safety	R7453A S7453A	Rp,Fm,FF	2		SO2/Cl HCl/CLO2
985	Cabot Safety	R7453AD S7453AD	Rp,Fm,FF	2	DM	SO2/Cl HCl/CLO2
986	Cabot Safety	R7453AF S7453AF	Rp,Fm,FF	2	DFMR	SO2/Cl HCl/CLO2 Pest
990	Cabot Safety	R7455A S7455A	Rp,Fm,FF	2	DM	
991	Cabot Safety	R7458A S7458A	Rp,Fm,FF	2	DFM	Pest
995	Cabot Safety	R7470A S7470A	Rp,Fm,FF	2		SO2/Cl HCl/CLO2
996	Cabot Safety	R7470AF S7470AF	Rp,Fm,FF	2	DMFR	SO2/Cl HCl/CLO2
997	Cabot Safety	R7491AP S7491AP	Rp,Fm,FF	2	DM	PLE
998	Cabot Safety	R74563A S74563A	Rp,Fm,FF	2	DFM	SO2/Cl HCl/CLO2 Pest
999	Cabot Safety	R7451HE S7451HE	Rp,Fm,FF	2	HRA	Pest/PLE
1001	Cabot Safety	R7453HE S7453HE	Rp,Fm,FF	2	HRA	SO2/Cl HCl/CLO2 Pest
1008	National Draeger	4052976 4052977	Rp,Fm,FF	1		SO2/Cl HCl

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
1009	Masprot	M-2.210	Rp,Fm,ON	2	HA	Pest/PLE
1010	3M	5143 5243 5343	Su,ON	2	HRA	SO2/Cl HCl
1012	3M	5145 5245 5345	Su,ON	2	HRA	CH2-O
1013	3M	5141 5241 5341	Su,ON	2	HRA	Pest/PLE
1014	National Draeger	4052966 4052979	Rp,Fm,FF	1	HA	SO2/Cl HCl
1015	Cabot Safety	R7451AS S7451AS	Rp,Fm,FF	1		
1023	Racal	BE1/AEP3	HH/PAPR	3	HRA	SO2/Cl HCl
1024	Racal	BE5/AEP3	HH/PAPR	3	HRA	SO2/Cl HCl
1025	Racal	BE6/AEP3	HH/PAPR	3	HRA	SO2/Cl HCl
1026	Racal	BE10/AEP3	HH/PAPR	3	HRA	SO2/Cl HCl
1027	Racal	BE17/AEP3	HH/PAPR	3	HRA	SO2/Cl HCl
1030	Masprot	M-2.209	Rp,Fm,ON	2	DM	PLE
1033	Cabot Safety	RP7451A SP7451A	FF,PAPR	2		

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
1035	Hornell Speedglas	PA APC/AP3	HH,PAPR	3	HRA	Pest
1036	Racal	PF/AC	FF,PAPR	1		
1037	Racal	PF/AEC	FF,PAPR	1		SO2/Cl HCl
1038	Willson	2101 2201 2301	Su,ON	2		
1039	Willson	2111 2211 2311	Su,ON	2	DM	Pest/PLE
1042	Willson	2105 2205 2305	Su,ON	2		SO2/Cl HCl/CLO2
1043	Willson	2115 2215 2315	Su,ON	2	DM	SO2/Cl HCl/CLO2
1047	Survivair	5301-00 5401-00	FF,PAPR	3		
1048	Willson	2141 2241 2341	Su,ON	2	HA	
1050	Willson	2145 2245 2345	Su,ON	2	HR	SO2/Cl HCl/CLO2
1052	Survivair	5381-00 5481-00	FF,PAPR	3	HRA	
1053	Survivair	5383-00 5483-00	FF,PAPR	3	HRA	SO2/Cl HCl

7. Paints, Lacquers and Enamels

Approval

Approved as respiratory protection against (1) mists of paints, lacquers and enamels; (2) not more than 1000 parts per millions organic vapors by volume.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow the manufacturer's instructions for changing cartridges and filters or for discarding disposable respirators.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types and approved use concentrations on gases and vapors.

Do not wear for protection against organic vapors with poor warning properties or those that generate high heats of reaction.

Maximum use concentrations will be lower than 1000 parts per million organic vapors where that concentration produces atmospheres immediately dangerous to life or health.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
54	WGM	122115/S/SS/SSS/R/SR S122115/S/SS/SSS/R/SR	Rp,Fm,ON	2	DM	OV/Pest
75	North	7531*/S*/M*/L* 7731S/M/L	Rp,Fm,ON	2		OV
75	Acme	27*	Rp,Fm,ON	2		OV
79	MSA	448848 461009 489747 489802	Rp,Fm,Bm,ON	2	DM	OV/Pest
80	MSA	448849 460853 462241 466249 thru 466251 466255 466528/466529 468015 thru 468018 476726 thru 476728 479704 thru 479712 479914 thru 479922 489767* 489826* 490503 thru 490508 490522 thru 490527	Rp,Fm,Bm,ON	2	DM	OV
87	Binks	40-128 40-141 40-143 40-196 40-197 40-198	Rp,Fm,ON	2	DM	OV
90	Glendale	GR1621-20* GR1621-60 GR2021-20* GR2021-60 GR4021-20* GR4021-60 GR8021-20* GR8021-60	Rp,Fm,ON	2		OV

CHEMICAL CARTRIDGES - PAINTS, LACQUERS, ENAMELS

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
92	Cabot Safety	R8191P* S8191P*	Rp,Fm,ON	1	DM	OV
93	Cabot Safety	R8151P* S8151P*	Rp,Fm,ON	1	DM	OV
94	Cabot Safety	R4051P* R5051P* R6051P*	Rp,Fm,ON	2	DM	OV
96	DeVilbiss	MSP-505* MSP-505-1*	Rp,Fm,ON	2	DM	OV
97	Cabot Safety	R4091P*/S4091P* R5091P*/S5091P* R6091P*/S6091P*	Rp,Fm,ON	2	DM	OV
100	Pulmosan	C-251* 10006* 10180 10225* 10267* 11030	Rp,Fm,ON	1		OV
100	Fibre Metal	C-251* 10180*	Rp,Fm,ON	1		OV
100	Shoplyne	10006* 10267* 10180 10225*	Rp,FM,ON	1		OV
117	Scott	6412-0313* 6422-0313* 6411-0313* 6413-0313* 6421-0313* 6423-0313* 64-OVP* 64E-OVP* 64M-OVP* 64ME-OVP* 64S-OVP* 64SE-OVP*	Rp,Fm,ON	2	DFMR	OV/Pest

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
123	3M	8741	Su,ON	1		OV/Pest
124	Protech	1482-G100-F102 1482-S-G100-F102 1482-L-G100-F102 1585S-G100-F102 1585-G100-F102 1585L-G100-F102	Rp,Fm,ON	2		OV
124	Eastern	E454* 294	Rp,Fm,ON	2		OV
124	Sellstrom	315-G100-F102	Rp,Fm,ON	2		OV
124	Safe-Tex	236-G100-F102*	Rp,Fm,ON	2		OV
125	US Safety	150T24*	Rp,Fm,ON	2		OV
126	Cesco	95RC35*	Rp,Fm,ON	2		OV
127	Stewart-Warner	7931*	Rp,Fm,ON	2		OV
128	Northcott	70-450*	Rp,Fm,ON	2		OV
133	Willson	162115 172115	Rp,Fm,FF	2	DM	OV/Pest
148	MSA	461858 483490	Rp,Fm, FF	2	DM	OV/Pest
149	MSA	461846 466256/466257 471726/471727 480386/480388 483496	Rp,Fm,FF	2	DM	OV
155	MSA	461853 483485	Rp,Fm,FF	2	HA	OV/Pest
161	MSA	460846 461012	Rp,Fm,Bm,ON	2	HA	OV/Pest

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
161 Cont.		489750 489809				
175	North	75BP31*/M*/L* 77BP31S/M/L	Rp,Bm,ON	2		OV
188	North	7631/S*/N*/SN*	Rp,Fm,FF	2		OV
201	MSA	465986 466239 thru 466241 466526/466527	Rp,Fm,ON	2	DM	OV
204	North	7581*/S*/M*/L* 7781/S/M/L	Rp,Fm,ON	2	HRA	OV/Pest
205	North	75BP81*/M*/L* 77BP81S/M/L	Rp,Bm,ON	2	HRA	OV/Pest
206	North	7681/7681S*	Rp, Fm,FF	2	HRA	OV/Pest
224	Scott	6470-0313* 6480-0313* 65-OV-P 65S-OV-P 65XL-OVP A65-OVP A65S-OVP A65XL-OVP	Rp, Fm,FF	2	DFMR	OV/Pest
239	Cabot Safety	R7051P*	Rp,Fm,FF	2		OV
240	Cabot Safety	R7091P* S7091P*	Rp,Fm,FF	2	DM	OV
258	Willson	122116*/S/SS/SSS/R/SR S122116/S/SS/SSS/R/SR	Rp,Fm,ON	2	DM	OV

CHEMICAL CARTRIDGES - PAINTS, LACQUERS, ENAMELS

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
259	Willson	162116* 172116*	Rp,Fm,FF	2	DM	OV
271	Cesco	96RC35*	Rp,Fm,FF	2		OV
272	US Safety	151T24*	Rp,Fm,FF	2		OV
278	DeVilbiss	MSP-506	Rp,Fm,ON	1	DM	OV
285	MSA	468023 thru 468025 471728/471729 483497*	Rp, FM,FF	2	DM	OV
286	MSA	468026 thru 468031	Rp, BM,ON	2	DM	OV
321	Survivair	2121-00/-10/-70/-50 2221-00/-10/-70/-50 2321-00/-10/-70/-50	Rp,FM,ON	2	DM	OV
333	Cabot Safety	R4051AP/S4051AP R4551AP/S4551AP R5051AP/S5051AP R6051AP/S6051AP R5551AP/S5551AP R6551AP/S6551AP	Rp,FM,ON	2	DM	OV
334	Cabot Safety	R7051AP/S7051AP R7751AP/S7751AP	Rp, FM,FF	2	DM	OV
335	DeVilbiss	MSP-508 MSP-9508	Rp, FM,ON	2	DM	OV
336	US Safety	150T35 150L35 100S35/200S35 100M35/200M35 100L35/200L35 300S/M35 300M/L35	Rp,Fm,ON	2	DFMR	OV/Pest

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
336	Lab Safety Supply	11291-S-12 11291-M-12 11291-L-12				
337	Cesco	95RC115 95SMRC115 100S35/200S35 100M35/200M35 100L35/200L35 300S/M35 300M/L35	Rp,Fm,ON	2	DFMR	OV/Pest
338	US Safety	151T35	Rp,Fm,FF	2	DFMR	OV/Pest
338	Lab Safety Supply	11292-12				
348	Cesco	96RC115	Rp,Fm,FF	2	DFM	OV/Pest
354	North	10041S/M	Su,ON	1	DM	OV/Pest
373	Stewart Warner	7931+	Rp, Fm,ON	2	DFMR	OV/Pest
374	Willson	302115*/S/SS/SSS/R/SR S302115/S/SS/SSS/R/SR	Rp, Bm,ON	2	DM	OV/Pest
375	Willson	312115* 322115*	Rp, Bm,FF	2	DM	OV/Pest
376	Willson	302116*/S/SS/SSS/R/SR S302116/S/SS/SSS/R/SR	Rp, Bm,ON	2	DM	OV
377	Willson	312116* 322116*	Rp, Bm,FF	2	DM	OV
392	Northcott	70-450+	Rp,Fm,ON	2	DFMR	OV/Pest
406	Glendale	GR7021-20* GR7021-60	Rp,Fm,FF	2		OV

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Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
413	Cabot Safety	R4051HE/S4051HE R4551HE/S4551HE R5051HE/S5051HE R6051HE/S6051HE R5551HE/S5551HE R6551HE/S6551HE	Rp,Fm,ON	2	HRA	OV/Pest
414	Cabot Safety	R7051HE S7051HE	Rp,Fm,FF	2	HRA	OV/Pest
426	Cabot Safety	R4051EP* R5051EP* R6051EP*	Rp,Fm,ON	2	DMZ	OV
427	Cabot Safety	R7051EP*	Rp,Fm,FF	2	DMZ	OV
428	DeVilbiss	MSL-500*	Rp,Fm,ON	2	DMZ	OV
436	3M	7210	Rp,Fm,ON	2	DM	OV
455	Survivair	3221-00 4121-00/-10 4221-00/-10	Rp,Fm,FF	2	DM	OV
464	MSA	472752 489777	Rp,Bm,ON	2	DM	OV/Pest
465	MSA	472755 489780	Rp,Bm,ON	2	HA	OV/Pest
473	MSA	472736 thru 472738 479926 thru 479931 489797 490534 thru 490539	Rp,Bm,ON	2	DM	OV
474	MSA	472739 thru 472741 480055 thru 480063	Rp,Bm,ON	2	DM	OV
490	Cabot Safety	R4091AP/S4091AP	Rp,FM,ON	2	DM	OV

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
490 Cont.		R4591AP/S4591AP R5091AP/S5091AP R6091AP/S6091AP R5591AP/S5591AP R6591AP/S6591AP				
491	Cabot Safety	R7091AP/S7091AP R7791AP/S7791AP	Rp,FM,FF	2	DM	OV
494	Pulmosan	10405*	Rp,FM,FF	1		OV
510	MSA	470200	Rp,FM,ON	1	DM	OV
523	Scott	64-OV-H* 64E-OV-H* 64M-OV-H* 64ME-OV-H* 64S-OV-H* 64SE-OV-H*	Rp,FM,ON	2	HRA	OV/Pest
REPLACED BY TC-23C-783						
524	Scott	65-OV-H 65S-OV-H 65XL-OV-H A65-OV-H A65S-OV-H A65XL-OV-H	Rp,FM,FF	2	HRA	OV/Pest
540	Safety Supply	F-160-OV-F-SP F-200-OV-F-SP F-800-OV-F-SP	Rp,FM, ON	2		OV
541	Safety Supply	F-700-OV-F-SP	Rp,FM, FF	2		OV
554	Pulmosan	10438 10441 11060	Rp,Fm,ON	2	DM	OV
571	Willson	152115/R/SS	Rp,FM,ON	2	DM	OV/Pest

CHEMICAL CARTRIDGES - PAINTS, LACQUERS, ENAMELS

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
572	Willson	352115*/R/SS	Rp,FM,ON	2	DM	OV/Pest
573	Willson	152116/R/SS	Rp,FM,ON	2	DM	OV
574	Willson	352116*/R/SS	Rp,FM,ON	2	DM	OV
616	Shoplyne	11060 10441	Rp,FM,ON	2	DM	OV
668	Protech	1694-G100-F102	Rp,Fm,FF	2		OV
668	Eastern	794	FF,Rp,Fm	2		OV
675	Binks	40-411 40-412 40-413 40-414 40-415 40-416	Rp,Fm,ON	2	HA	OV
677	Cabot Safety	R8151AP* S8151AP*	Rp,Fm,ON	1	DM	OV
691	3M	7810 7810C 7810-H 7810-L	Rp, Fm,FF	2	DM	OV

(For 7810C Combination Type C, CF)

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
29 - 30	100
25 - 40	200
25 - 55	300

Hose Length (feet)	Press. Range psig 7810-H	Press. Range psig 7810-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
729	Willson	122117R/S/SR/SS/SSS S122117/S/SR/SS/SSS	ON, Rp, Fm	2	DFM	OV/Pest
730	Willson	162117 172117	FF, Rp, Fm	2	DFM	OV/Pest
731	Willson	152117/R/SS	ON, Rp, Fm	2	DFM	OV/Pest
732	Willson	302117* 302117R/S/SR/SS/SSS S302117R/S/SR/SS/SSS	ON, Rp, Bm	2	DFM	OV/Pest
733	Willson	312117* 322117*	FF, Rp, Bm	2	DFM	OV/Pest
734	Willson	352117*/R/SS	ON, Rp, Bm	2	DFM	OV/Pest
747	Willson	6411/S6411 6511/S6511 W6411/W6511	FF,Rp,Fm	2	DM	OV/Pest
751	Willson	6111S/M/L/SR/MR/LR	ON,Rp,Fm	2	DM	OV/Pest
755	Willson	6211S/M/L/SR/MR/LR	ON,Rp,Fm	1	DM	OV/Pest
782	Scott	66STC-OVP S66STC-OVP 66MTC-OVP S66MTC-OVP 66LTC-OVP S66LTC-OVP	Rp,Fm,ON	2	DFRM	OV/Pest
783	Scott	66STC-OV-H S66STC-OV-H 66MTC-OV-H S66MTC-OV-H 66LTC-OV-H S66LTC-OV-H	Rp,Fm,ON	2	HRA	OV/Pest

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
791	Willson	6121S/M/L/SR/MR/LR	Rp,Fm,ON	2	DFMR	OV/Pest
792	Willson	6421/S6421 6521/S6521 W6421/W6521	Rp,Fm,FF	2	DFMR	OV/Pest
793	Cabot Safety	S7551HE S7551HEC	FF,Rp,Fm	2 For S7551HEC Comb. Type CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	HRA	OV/Pest
796	Cabot Safety	S7591AP S7591APC	FF,Rp,Fm	2 For S7591APC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	DM	OV
807	Cabot Safety	S7551AP S7551APC	FF,Rp,Fm	2 For S7551APC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29	DM	OV

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
807 Cont.				175 - 225 250 - 300	23 - 32 26 - 35	
				For 1/2" Hose Hose Length feet 25 - 75 100 - 150 175 - 225 250 - 300	Press. Range psig 14 - 22 16 - 26 18 - 29 20 - 32	
816	Glendale	GR9521-60	Rp,Fm,ON	2		OV
826	Willson	6221S/M/L/SR/MR/LR	Rp,Fm,ON	1	DFM	OV/Pest
830	MSA	484449 484450 484451 484461 484462 484463	Rp,Fm,FF	2	DM	OV
				Comb. Type C, Pd Hose Length feet 8 - 300	Press. Range psig 65 - 85	
838	MSA	484479	Rp,Fm,FF	2	HA	OV/Pest
				Comb. Type C, Pd Hose Length feet 8 - 300	Press. Range psig 65 - 85	
841	MSA	484484	Rp,Fm,FF	2	HA	OV/Pest
				Comb. Type C, Pd Hose Length feet 8 - 300	Press. Range psig 65 - 85	
846	MSA	484015 484016 484017 484027 484028 484029 489276*	Rp,Fm,FF	2	DM	OV
				Comb. Type C, CF Hose Length (feet) 8-300	Press. Range psig 35 - 40	

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
847	MSA	484001 489268*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 35 - 40	DM	OV/Pest
850	MSA	483996 489263*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range psig: 35 - 40	HA	OV/Pest
860	3M	5111 5211 5311	Su,ON	2	DM	OV/Pest
863	Devilbiss	MSP-510 MSP-511 MSP-512 MSP-513 MSP-520 MSP-521	Rp,Fm	2	DM	OV
870	Binks	40-1104 40-1105 40-1106 40-1107 40-1108 40-1109	FF,Fm,Rp	2	DM	OV
871	Binks	40-1098 40-1099 40-1100 40-1101 40-1102 40-1103	FF,Fm,Rp	2	A	OV
875	DeVilbiss	MSP-503	FF,Fm,Rp	2	DM	OV
884	3M	7810-H 7810-L 7810-PD	Rp,Fm,FF	2 Combination Type C, Pd Hose Length (feet) / Press. Range psig: 7810-H / 7810-L 25: 8-15 / 7-11 50: 10-19 / 7-11 100: 12-21 / 7-12 200: 17-31 / 8-16	DM	OV

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
884 Cont.				300	21-36 10-18	
				For 7810-PD		
				Hose Length feet	Pressure Range (psig)	
				25	80 - 100	
				50	80 - 100	
				100	80 - 100	
				200	80 - 100	
				300	80 - 100	
886	3M	7812-H 7812-L 7812-PD	FF,Rp,Fm	2	HRA	OV
				Combination Type C, Pd		
				Hose Length (feet)	Press. Range psig	
					7812-H 7812-L	
				25	8-15 7-11	
				50	10-19 7-11	
				100	12-21 7-12	
				200	17-31 8-16	
				300	21-36 10-18	
				For 7812-PD		
				Hose Length (feet)	Press. Range psig	
				25	80 - 100	
				50	80 - 100	
				100	80 - 100	
				200	80 - 100	
				300	80 - 100	
899	Cabot Safety	R4051AF/S4051AF R4551AF/S4551AF R5051AF/S5051AF R5551AF/S5551AF R6051AF/S6051AF R6551AF/S6551AF	Rp,Fm,ON	2	DFMR	OV/Pest
900	Cabot Safety	R7051AF/S7051AF R7751AF/S7751AF	Rp,Fm,FF	2	DFMR	OV/Pest
901	Cabot Safety	S7551AF S7551AFC	Rp,Fm,FF	2	DFMR	OV/Pest
			For S7551AFC, combination Type C, CF 3/8" I.D.			
			Hose Length feet	Press. Range psig		
			25 - 75	17 - 25		
			100 - 150	20 - 29		
			175 - 225	23 - 32		

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
901 Cont.			250 - 300	26 - 35		
			1/2" I.D. Hose Length feet	Press. Range psig		
			25 - 75	14 - 22		
			100 - 150	16 - 26		
			175 - 225	18 - 29		
			250 - 300	20 - 32		
944	MSA	489883 thru 489885 489895 thru 489897 489907 thru 489909 489919 thru 489921 489931 thru 489933 489943 thru 489945	FF,Fm,Rp	2	DM	OV
				Comb. Type C, CF		
				Hose Length (feet)	Press. Range psig	
				8 - 300	85 - 100	
950	MSA	490030* 490050* 490070	FF,Fm,Rp	2	HA	OV/Pest
				Comb. Type C, CF		
				Hose Length (feet)	Press. Range psig	
				8 - 300	85 - 100	
955	MSA	490035* 490055* 490075	FF,Fm,Rp	2	DM	OV/Pest
				Comb. Type C, CF		
				Hose Length (feet)	Press. Range psig	
				8 - 300	85 - 100	
979	Cabot Safety	R7451AP S7451AP	Rp,Fm,FF	2	DM	OV
980	Cabot Safety	R7451AF S7451AF	Rp,Fm,FF	2	DFMR	OV/Pest
997	Cabot Safety	R7491AP S7491AP	Rp,Fm,FF	2	DM	OV
999	Cabot Safety	R7451HE S7451HE	Rp,Fm,FF	2	HRA	OV/Pest
1009	Masprot	M-2.210	Rp,Fm,ON	2	HA	OV/Pest

CHEMICAL CARTRIDGES - PAINTS, LACQUERS, ENAMELS

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
1013	3M	5141 5241 5341	Su,ON	2	HRA	OV/Pest
1030	Masprot	M-2.209	Rp,Fm,ON	2	DM	OV
1039	Willson	2111 2211 2311	Su,ON	2	DM	Pest/OV

8. Pesticides

Approval

Approved as respiratory protection against pesticides.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow the manufacturer's instructions for changing cartridges or for discarding disposable respirators.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types and approved use concentrations on gases and vapors.

Do not wear for protection against organic vapors with poor warning properties or those that generate high heats of reaction.

Maximum use concentrations will be lower than 1000 parts per million organic vapors where that concentration produces atmospheres immediately dangerous to life or health.

Not approved for fumigants.

Refer to pesticide label for limitations on respirator use.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

CHEMICAL CARTRIDGES - PESTICIDES

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
54	WGM	122115/S/SS/SSS/R/SR S122115S/SS/SSS/R/SR	Rp,Fm, ON	2	DM	OV/PLE
74	North	7549*/S*/M*/I 7749S/M/L	Rp,Fm, ON	2		OV
78	3M	W-262-12 W-262-24* W-263-12-L/M/S* W-264-12 W-279-12 W-279-24* W-291-12 W-291-24* W-296-12 W-296-24* W-351-12 W-351-24*	PAPR, HH	1		
79	MSA	461009 448848 489747 489802	Rp,Fm,Bm,ON	2	DM	OV/PLE
106	Cabot Safety	R4058*/S4058* R5058*/S5058* R6058*/S6058*	Rp,Fm, ON	2	DFM	OV
110	Pulmosan	C-241* 10264* 10177 10228* 10003* 11051	Rp,Fm, ON	1		
110	Fibre Metal	C-241* 10177* 10228* 10003* 10264*	Rp,Fm,ON	1		
110	Shoplyne	10003 10177	Rp,FM,ON	1		

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
110 Cont.		10228 10264				
117	Scott	6412-0313* 6422-0313* 6411-0313* 6413-0313* 6421-0313* 6423-0313* 64-OVP* 64E-OVP* 64M-OVP* 64ME-OVP* 64S-OVP* 64SE-OVP*	Rp,Fm,ON	2	DFMR	OV/PLE
123	3M	8751	Su,ON	1		OV
133	Willson	162115 172115	Rp,Fm,FF	2	DM	OV/PLE
148	MSA	461858 483490	Rp,Fm, FF	2	DM	OV/PLE
155	MSA	461853 483485	Rp,Fm,FF	2	HA	OV/PLE
161	MSA	460846 461012 489750 489809	Rp,Fm,Bm,ON	2	HA	OV/PLE
161	MSA	460846 461012 489750 489809	Rp,Fm,Bm, ON	2	HA	OV/PLE
178	North	75BP49*/M*/L* 77BP49S/M/L	Rp,Bm, ON	2		OV
190	North	7649/S*/N*/SN*	Rp,Fm, FF	2		OV

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
197	Glendale	GR-1625 GR-2025 GR-4025 GR-8025 GR-1625A GR-2025A GR-4025A GR-8025A	Rp,Fm, ON	2		
198	US Safety	150T30*	Fm, ON	2		OV
199	Cesco	95RC125*	Fm, ON	2		OV
202	Protech	1482-G100-F104 1482-S-G100-F104 1482-L-G100-F104 1585S-G100-F104 1585-G100-F104 1585L-G100-F104	Rp,Fm, ON	2	DM	OV
202	Eastern	E455* 295/355	Rp,Fm, ON	2	DM	OV
202	Sellstrom	315-G100-F104	Rp,Fm, ON	2	DM	OV
204	North	7581S*/M*/L* 7781S/M/L	Rp,Fm,ON	2	HRA	OV/PLE
205	North	75BP81*M*/L* 77BP81S/M/L	Rp,Bm,ON	2	HRA	OV/PLE
206	North	7681	Rp,Fm,FF	2	HRA	OV/PLE
223	Scott	6411-2213 6411-3213 6413-2213 6413-3213 604032-00	Rp,Fm,ON	2		
224	Scott	6470-0313* 6480-0313*	Rp,Fm,FF	2	DFMR	OV/PLE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
224 Cont.		65-OVP 65S-OVP 65XL-OVP A65-OVP A65S-OVP A65XL-OVP				
238	Cabot Safety	R7058* S7058*	Rp,Fm,FF	2	DMF	OV
273	Cesco	96RC125*	Rp,Fm,FF	2		
274	US Safety	151T30*	Rp,Fm,FF	2		
281	Cabot Safety	R4563*/S4563* R5563*/S5563* R6563*/S6563*	Rp,Fm,ON	2	DFM	SO2/HCl/OV Cl/CLO2
282	Cabot Safety	R7563* S7563*	Rp,Fm,FF	2	DFM	SO2/HCl/Cl OV/CLO2
323	Survivair	2131-00* 2231-00* 2331-00*	Rp,FM,ON	2	DFMR	OV
336	US Safety	150T35 150L35 100S35/200S35 100M35/200L35 100L35/200M35 300S/M35 300M/L35	Rp,Fm,ON	2	DFMR	OV/PLE
336	Lab Safety Supply	11291-S-12 11291-M-12 11291-L-12				
337	Cesco	95RC115 95SMRC115 100S35/200S35 100M35/200L35 100L35/200M35 300S/M35 300M/L35	Rp,Fm,ON	2	DFMR	OV/PLE

CHEMICAL CARTRIDGES - PESTICIDES

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
338	US Safety	151T35	Rp,Fm,FF	2	DFMR	OV/PLE
338	Lab Safety Supply	11292-12				
348	Cesco	96RC115	Rp,Fm,FF	2	DFM	OV/PLE
354	North	10041S/M	Su,ON	1	DM	OV/PLE
373	Stewart Warner	7931+	Rp,Fm,ON	2	DFMR	OV/PLE
374	Willson	302115*/S/SS/SSS/R/SR S302115/S/SS/SSS/R/SR	Rp,Bm,ON	2	DM	OV/PLE
375	Willson	312115* 322115*	Rp,Bm,FF	2	DM	OV/PLE
392	Northcott	70-450+	Rp,Fm,ON	2	DFMR	OV/PLE
409	Glendale	GR7025 GR-7025A	Rp,Fm,FF	2		
413	Cabot Safety	R4051HE/S4051HE R4551HE/S4551HE R5051HE/S5051HE R6051HE/S6051HE R5551HE/S5551HE R6551HE/S6551HE	Rp,Fm,ON	2	HRA	OV/PLE
414	Cabot Safety	R7051HE/S7051HE R7751HE/S7751HE	Rp,Fm,FF	2	HRA	OV/PLE
417	Cabot Safety	R4053HE/S4053HE R4553HE/S4553HE R5053HE/S5053HE R6053HE/S6053HE R5553HE/S5553HE R6553HE/S6553HE	Rp,Fm,ON	2	HRA	OV/CLO2/ Cl/HCl SO2

CHEMICAL CARTRIDGES - PESTICIDES

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
418	Cabot Safety	R7053HE/S7053HE R7753HE/S7753HE	Rp,Fm,FF	2	HRA	OV/ClO2/ Cl2/HCl
439	3M	7205	Rp,Fm,ON	2		
450	Survivair	2193-00/-10 2293-00/-10 2393-00/-10	Rp,Fm,ON	2	HRA	SO2/HCl Cl/OV
451	Survivair	3293-00 4293-00 4193-10 4293-10	Rp,Fm,FF	2	HRA	SO2/HCl Cl/OV
452	Survivair	2191-00/-10 2291-00/-10 2391-00/-10	Rp,Fm,ON	2	HRA	OV
453	Survivair	3291-00 4291-00 4191-10 4291-10	Rp,Fm,FF	2	HRA	OV
456	Survivair	3231-00*	Rp,Fm,FF	2	DFMR	OV
464	MSA	472752 489777	Rp,Bm,ON	2	DM	OV
465	MSA	472755 489780	Rp,Bm,ON	2	HA	OV/PLE
482	Racal	BE 1/A-P3	PAPR,HH	3	HRA	OV
483	Racal	BE 3/A-P3 BE 7/A-P3	PAPR,FF	3	HRA	OV
484	Racal	BE 5/A-P3	PAPR,HH	3	HRA	OV
485	Racal	BE 6/A-P3	PAPR,HH	3	HRA	OV

CHEMICAL CARTRIDGES - PESTICIDES

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
493	Pulmosan	10402*	Rp,FM,FF	1		
523	Scott	64-OV-H* 64E-OV-H* 64M-OV-H* 64ME-OV-H* 64S-OV-H* 64SE-OV-H*	Rp,FM, ON	2	HRA	OV/PLE
REPLACED BY TC-23C-783						
524	Scott	65-OV-H 65S-OV-H 65XL-OV-H A65-OV-H A65S-OV-H A65XL-OV-H	Rp,FM,FF	2	HRA	OV/PLE
530	Survivair	2141-00 2241-00 2341-00	Rp,FM,ON	2	DFMR	OV
531	Survivair	3241-00 4241-00/-10 4141-10	Rp,FM,FF	2	DFMR	OV
546	Safety Supply	F-160-PT F-200-PT F-800-PT	Rp,FM,ON	2		
547	Safety Supply	F-700-PT	Rp,FM,FF	2		
571	Willson	152115/R/SS	Rp,FM,ON	2	DM	OV/PLE
572	Willson	352115*/R/SS	Rp,FM,ON	2	DM	OV/PLE
585	Cabot Safety	R4058A/S4058A R4558A/S4558A R5058A/S5058A R6058A/S6058A R5558A/S5558A R6558A/S6558A	Rp,FM,ON	2	DFM	OV

CHEMICAL CARTRIDGES - PESTICIDES

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
586	Cabot Safety	R7058A/S7058A R7758A/S7758A	Rp,FM,ON	2	DFM	OV
587	Cabot Safety	R4563A/S4563A R45563A/S45563A R5563A/S5563A R6563A/S6563A R55563A/S55563A R65563A/S65563A	Rp,FM,ON	2	DFM	SO2/HCl/Cl OV/CLO2
588	Cabot Safety	R7563A/S7563A R77563A/S77563A	Rp,FM,FF	2	DFM	SO2/HCl/Cl OV/CLO2
602	Racal	BE17/AP3	PAPR,HH	3	HRA	OV
611	Racal	BE8/AP3	PAPR,ON	3	HRA	OV
632	Racal	BE4/AP3*	PAPR,HH	3	HRA	OV
669	Protech	1694-G100-F104	Rp,Fm,FF	2	DM	OV
669	Eastern	795	FF,Rp,Fm	2	DM	OV
682	Kasco	K80S-T4	PAPR,HH	3	HA	
687	3M	7805 7805C 7805-L 7805-H	Rp,Fm,FF	2		

(For 7805C Combination Type C, CF)

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

(For 7805-H, 7805-L Combination Type C, CF)

Hose Length (feet)	Press. Range psig 7805-H	Press. Range psig 7805-L
25	8-15	7-11
50	10-19	7-11

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
687 Cont.				100 200 300	12-21 7-12 17-31 8-16 21-36 10-18	
729	Willson	122117R/S/SR/SS/SSS S122117/R/S/SR/SS/SSS	ON,Rp,Fm	2	DFM	OV/PLE
730	Willson	162117 172117	FF,Rp,Fm	2	DFM	OV/PLE
731	Willson	152117/R/SS	ON,Rp,Fm	2	DFM	OV/PLE
732	Willson	302117*/R/S/SR/SS/SSS S302117/R/S/SR/SS/SSS	ON,Rp,Bm	2	DFM	OV/PLE
733	Willson	312117* 322117*	FF,Rp,Bm	2	DFM	OV/PLE
734	Willson	352117*/R/SS	ON,Rp,Bm	2	DFM	OV/PLE
747	Willson	6411/S6411 6511/S6511 W6411/W6511	FF,Rp,Fm	2	DM	OV/PLE
751	Willson	6111S/M/L/SR/MR/LR	ON,Rp,Fm	2	DM	OV/PLE
755	Willson	6211S/M/L/SR/MR/LR	ON,Rp,Fm	1	DM	OV/PLE
767	Kasco	K80S-T5N/BP3-2 K80E-T5N/BP3-2	PAPR,HH	3		
782	Scott	66STC-OVP S66STC-OVP 66MTC-OVP S66MTC-OVP 66LTC-OVP S66LTC-OVP	Rp,Fm,ON	2	DFMR	OV/PLE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
783	Scott	66STC-OV-H S66STC-OV-H 66MTC-OV-H S66MTC-OV-H 66LTC-OV-H S66LTC-OV-H	Rp,Fm,ON	2	HRA	OV/PLE
791	Willson	6121S/M/L/SR/MR/LR	Rp,Fm,ON	2	PLE	PLE
792	Willson	6421/S6421 6521/S6521 W6421/W6521	Rp,Fm,FF	2	PLE	OV
793	Cabot Safety	S7551HE S7551HEC	FF,Rp,Fm	2 For S7551HEC Comb. Type CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	HRA	OV/PLE
794	Cabot Safety	S7553HE S7553HEC	FF,Rp,Fm	2 For S7553HEC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	HRA	SO2/HCl Cl2/CLO2 OV

CHEMICAL CARTRIDGES - PESTICIDES

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
802	Cabot Safety	S7558A S7558AC	FF,Rp,Fm	2 For S7558AC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	DFM	OV
812	Cabot Safety	S75563A S75563AC	FF,Rp,Fm	2 For S75563AC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	DFM	Cl/SO2/HCl CLO2
825	Glendale	GR9525 GR9525A	Rp,Fm,ON	2		
826	Willson	6221S/M/L/SR/MR/LR	Rp,Fm,ON	1	DFM	OV/PLE
838	MSA	484479	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet / Press. Range psig 8 - 300 / 65 - 85	HA	OV/PLE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
841	MSA	484484	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length (feet): 8 - 300 Press. Range (psig): 65 - 85	HA	OV/PLE
847	MSA	484001 489268*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range (psig): 35 - 40	DM	OV/PLE
850	MSA	483996 489263*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length (feet): 8-300 Press. Range (psig): 35 - 40	HA	OV/PLE
857	3M	8751A	Su,ON	1		OV
860	3M	5111 5211 5311	Su,ON	2	DM	OV/PLE
880	3M	7805-H 7805-L 7805-PD	Rp,FF,FM	2 Combination Type C, Pd Hose Length (feet) / Press. Range (psig) 7805-H / 7805-L: 25: 8-15 / 7-11 50: 10-19 / 7-11 100: 12-21 / 7-12 200: 17-31 / 8-16 300: 21-36 / 10-18 For 7805-PD Hose Length (feet) / Press. Range (psig): 25: 80 - 100 50: 80 - 100 100: 80 - 100 200: 80 - 100 300: 80 - 100		
893	Racal	BE10/AP3	HH,PAPR		HRA	OV
899	Cabot Safety	R4051AF/S4051AF R4551AF/S4551AF	Rp,Fm,ON	2	DFMR	OV/PLE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
899 Cont.		R5051AF/S5051AF R5551AF/S5551AF R6051AF/S6051AF R6551AF/S6551AF				
900	Cabot Safety	R7051AF/S7051AF R7751AF/S7751AF	Rp,Fm,FF	2	DFMR	OV/PLE
901	Cabot Safety	S7551AF S7551AFC	Rp,Fm,FF	2	DFMR	OV/PLE
			For S7551AFC, combination Type C, CF 3/8" I.D. Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 1/2" I.D. Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32			
905	Cabot Safety	R4053AF/S4053AF R4553AF/S4553AF R5053AF/S5053AF R5553AF/S5553AF R6053AF/S6053AF R6553AF/S6553AF	Rp,Fm,ON	2	DFMR	OV/Cl/ HCl/CLO2/ SO2
906	Cabot Safety	R7053AF/S7053AF R7753AF/S7753AF	Rp,Fm,FF	2	DFMR	OV/Cl/ HCl/CLO2/ SO2
907	Cabot Safety	S7553AF S7553AFC	Rp,Fm,FF	2	DFMR	OV/Cl/ HCl/CLO2/ SO2
			For S7553AFC, combination Type C, CF 3/8" I.D. Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29			

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
907 Cont.			175 - 225 250 - 300 1/2" I.D. Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	23 - 32 26 - 35		
914	Cabot Safety	R7070AF/S7070AF R7770AF/S7770AF	Rp,Fm,FF	2	DFMR	OV/Cl/ HCl/CLO2/ SO2
915	Cabot Safety	S7570AF S7570AFC	Rp,Fm,FF For S7570AFC, combination Type C, CF 3/8" I.D. Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 1/2" I.D. Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	2	DFMR	OV/Cl/ HCl/CLO2/ SO2
950	MSA	490030* 490050* 490070	Rp,FF,Fm	2 Combination Type C, CF Hose Length (feet) / Press. Range psig 8 - 300 / 85 - 100	HA	OV/PLE
955	MSA	490035* 490055* 490075	Rp,FF,Fm	2 Combination Type C, CF Hose Length (feet) / Press. Range psig 8 - 300 / 85 - 100	DM	OV/PLE
980	Cabot Safety	R7451AF S7451AF	Rp,Fm,FF	2	DFMR	OV/PLE

CHEMICAL CARTRIDGES - PESTICIDES

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
986	Cabot Safety	R7453AF S7453AF	Rp,Fm,FF	2	DFMR	OV/SO2 Cl/HCl CLO2
991	Cabot Safety	R7458A S7458A	Rp,Fm,FF	2	DFM	OV
996	Cabot Safety	R7470AF S7470AF	Rp,Fm,FF	2	DFMR	OV/SO2 Cl/HCl CLO2
998	Cabot Safety	R74563A S74563A	Rp,Fm,FF	2	DFM	OV/SO2 Cl/HCl CLO2
999	Cabot Safety	R7451HE S7451HE	Rp,Fm,FF	2	HRA	OV/PLE
1001	Cabot Safety	R7453HE S7453HE	Rp,Fm,FF	2	HRA	OV/SO2 Cl/HCl CLO2
1003	Spring Protezione s.r.l.	2100	HH,PAPR	3		
1009	Masprot	M-2.210	Rp,Fm,ON	2	HA	OV/PLE
1013	3M	5141 5241 5341	Su,ON	2	HRA	OV/PLE
1035	Hornell Speedglas	PA APC/AP3	HH,PAPR	3	HRA	OV
1039	Willson	2101 2201 2301	Su,ON	2	DM	PLE/OV

9. Vinyl Chloride

Approval

Approved as respiratory protection against 10 parts per million vinyl chloride or until indicator change.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow the manufacturer's instructions for changing cartridges or for discarding disposable respirators.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types and approved use concentrations on gases and vapors.

This respirator shall be carefully fitted to the wearer's face before use, in accordance with the manufacturer's facepiece fitting instructions.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

CHEMICAL CARTRIDGES - VINYL CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
200	3M	8716	Su,ON	1		

10. Other Gases and Vapors

Approval

See approval labels for approved maximum use concentration and for specific limitations.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow the manufacturer's instructions for changing cartridges or for discarding disposable respirators.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types and approved use concentrations on gases and vapors.

This respirator shall be carefully fitted to the wearer's face before use, in accordance with the manufacturer's facepiece fitting instructions.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
446	3M	7203	Rp,Fm,ON	2		OV/SO2 Cl/HCl
447	3M	7209	Rp,Fm,ON	2	DM	OV/SO2 Cl/HCl
448	3M	7214	Rp,Fm,ON	2	HAA	OV/SO2 Cl/HCl
685	3M	7803 7803C 7803-L 7803-H	Rp, Fm, FF	2		Cl/HCl SO2/OV

(For 7803C Combination Type C, CF)

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Hose Length (feet)	Press. Range psig 7803-H	Press. Range psig 7803-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

690	3M	7809 7809C 7809-L 7809-H	Rp, Fm, FF	2	DM	SO2/Cl HCl/OV

(For 7809C Combination Type C, CF)

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Hose Length (feet)	Press. Range psig 7809-H	Press. Range psig 7809-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

CHEMICAL CARTRIDGES - OTHER GASES AND VAPORS - HYDROGEN FLUORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
695	3M	7814 7814C 7814-L 7814-H	Rp, Fm, FF	2	HRA	SO2/HCl Cl/OV

(For 7814C Combination Type C, CF)

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Hose Length (feet)	Press. Range psig 7814-H	Press. Range psig 7814-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

972	North	7195	Su,ON	1	DM	

CHEMICAL CARTRIDGES - OTHER GASES AND VAPORS - MERCURY

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
629	MSA	472959 489760	Rp,BM,ON	2		Cl
916	Glendale	GR9527BM	BM,ON,Rp	2		Cl
1031	Cabot Safety	R4559AB S4559AB R5559AB S5559AB R6559AB S6559AB	Rp,Bm,ON	2		Cl
1032	Cabot Safety	R7459AB S7459AB	Rp,Bm,FF	2		Cl
1046	MSA	493521 493522	ON,Bm,Rp	2	HA	Cl

CHEMICAL CARTRIDGES - OTHER GASES AND VAPORS - HYDROGEN SULFIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
41	MSA	459434 461006 489744 489804	Rp,Fm,ON	2	DM	SO2/Cl HCl/CLO2
47	MSA	459435 461007	Rp,FM,Bm,ON	2	DM	OV/HCL/Cl CLO2/SO2
115	Scott	64-AG* 64E-AG* 64M-AG* 64ME-AG* 64S-AG* 64SE-AG*	Rp,FM,ON	2		HCL/Cl CLO2/SO2 CH2-O
REPLACED BY TC-23C-768						
116	Scott	64-AG-D* 64E-AG-D* 64M-AG-D* 64ME-AG-D* 64S-AG-D* 64SE-AG-D*	Rp,FM,ON	2	DM	HCL/Cl CLO2/SO2 CH2-O
145	MSA	461847 483481	Rp,Fm,ON	2	DM	SO2/Cl HCl/CLO2
146	MSA	461850 483482	Rp,FM,FF	2	DM	OV/HCL/Cl CLO2/SO2
150	MSA	461854 483486 489785	Rp,Fm,FF	2	HA	SO2/Cl HCl/CLO2
153	MSA	461855 483487	Rp,FM,FF	2	HA	OV/HCL/Cl CLO2/SO2
154	MSA	461856 483488	Rp,FM,FF	2	DFMR	OV/HCL/Cl CLO2/SO2
156	MSA	461835 462239 489755 489814	Rp,FM,ON	2	HA	HCL/Cl CLO2/SO2

CHEMICAL CARTRIDGES - OTHER GASES AND VAPORS - HYDROGEN SULFIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
159	MSA	460847 461013 489751 489810	Rp,FM,Bm,ON	2	HA	OV/HCL/Cl CLO2/SO2
160	MSA	460848 461014 489752 489811	Rp,FM,Bm,ON	2	DFMR	OV/HCL/Cl CLO2/SO2
172 REPLACED BY TC-23C-776	Scott	64-OA* 64E-OA* 64M-OA* 64ME-OA* 64S-OA* 64SE-OA*	Rp,FM,ON	2		OV/HCL/Cl CLO2/SO2 CH2-O
174	Scott	64-OA-D* 64E-OA-D* 64M-OA-D* 64ME-OA-D* 64S-OA-D* 64SE-OA-D*	Rp,FM,ON	2	DM	OV/HCL/Cl CLO2/SO2 CH2-O
218	Scott	65-AG-D 65S-AG-D 65XL-AG-D A65-AG-D A65S-AG-D A65XL-AG-D	Rp,FM,FF	2	DM	HCL/Cl CLO2/SO2 CH2-O
221	Scott	65-OA 65S-OA 65XL-OA A65-OA A65S-OA A65XL-OA	Rp,FM,FF	2		OV/HCL/Cl CLO2/SO2 CH2-O
222	Scott	65-OA-D 65S-OA-D 65XL-OA-D A65-OA-D A65S-OA-D A65XL-OA-D	Rp,FM,FF	2	DM	OV/HCL Cl/CLO2 SO2/CH2-O

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
225	Scott	65-AG 65S-AG 65XL-AG A65-AG A65S-AG A65XL-AG	Rp,FM,FF	2		HCL/Cl CLO2/SO2 CH2-O
246	Scott	64-AG-F* 64E-AG-F* 64M-AG-F* 64ME-AG-F* 64S-AG-F* 64SE-AG-F*	Rp,FM,ON	2	DFMR	HCL/Cl CLO2/SO2 CH2-O
247	Scott	65-AG-F 65S-AG-F 65XL-AG-F A65-AG-F A65S-AG-F A65XL-AG-F	Rp,FM,FF	2	DFMR	HCl/Cl CLO2/SO2 CH2-O
250	Scott	64-OA-F* 64E-OA-F* 64M-OA-F* 64ME-OA-F* 64S-OA-F* 64SE-OA-F*	Rp,FM,ON	2	DFMR	OV/HCL/Cl CLO2/SO2 CH2-O
251	Scott	65-OA-F 65S-OA-F 65XL-OA-F A65-OA-F A65S-OA-F A65XL-OA-F	Rp,FM,FF	2	DFMR	OV/HCl/Cl CLO2/SO2 CH2-O
260	MSA	466903 489818	Rp,FM,ON	2	DM	OV/HCL/Cl CLO2/SO2
261	MSA	466902 489759	Rp,Bm,ON	2	DM	OV/HCL/Cl CLO2/SO2
262	MSA	483444 466904	Rp,Bm,FF	2	DM	OV/HCL/Cl CLO2/SO2
288	North	7902	Es,MP	1		SO2/Cl HCl

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
339	Cabot Safety	R4052A/S4052A R4452A/S4452A R5052A/S5052A R6052A/S6052A R5552A/S5552A R6552A/S6552A	Rp,Fm,ON	2		HCl/Cl CLO2/SO2
340	Cabot Safety	R7052A/S7052A R7752A/S7752A	Rp,Fm,FF	2		HCl/Cl CLO2/SO2
341	Cabot Safety	R4052AD/S4052AD R4452AD/S4452AD R5052AD/S5052AD R5552AD/S5552AD R6052AD/S6052AD R6552AD/S6552AD	Rp,Fm,ON	2	D,M	HCl/Cl CLO2/SO2
342	Cabot Safety	R7052AD/S7052AD R7752AD/S7752AD	Rp,Fm,FF	2	D,M	HCl/Cl CLO2/SO2
415	Cabot Safety	R4052HE/S4052HE R4552HE/S4552HE R5052HE/S5052HE R5552HE/S5552HE R6052HE/S6052HE R6552HE/S6552HE	Rp,Fm,ON	2	HRA	HCL/Cl CLO2/SO2
416	Cabot Safety	R7052HE/S7052HE R7752HE/S7752HE	Rp,Fm,FF	2	HRA	HCL/Cl CLO2/SO2
449	North	7912	Es,MP	1	DM	SO2/Cl HCl
461	MSA	472749 489774	Rp,Bm,ON	2	DM	HCL/Cl CLO2/SO2
462	MSA	472750 489775	Rp,Bm,ON	2	DM	OV/HCL/Cl CLO2/SO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
466	MSA	472756 489781	Rp,Bm,ON	2	HA	OV/HCL/Cl CLO2/SO2
467	MSA	472757 489782	Rp,Bm,ON	2	DFMR	OV/HCL/Cl CLO2/SO2
470	MSA	472760	Rp,Bm,ON	2	HA	HCL/Cl CLO2/SO2
472	MSA	472764 489789	Rp,Bm,ON	2	DM	OV/HCL/Cl CLO2/SO2
492	Scott	70-AG	ES, MP	1		Cl/HCl
514	MSA	471914 476337 476338	ES, MP	1	DM	SO2/HCl/Cl CLO2
517	Scott	64-AG-H* 64E-AG-H* 64M-AG-H* 64ME-AG-H* 64S-AG-H* 64SE-AG-H*	Rp,FM,ON	2	HRA	HCL/Cl CLO2/SO2 CH2-O
REPLACED BY TC-23C-771						
518	Scott	65-AG-H 65S-AG-H 65XL-AG-H A65-AG-H A65S-AG-H A65XL-AG-H	Rp,FM,FF	2	HRA	HCL/Cl CLO2/SO2 CH2-O
521	Scott	64-OA-H* 64E-OA-H* 64M-OA-H* 64ME-OA-H* 64S-OA-H* 64SE-OA-H*	Rp,FM,ON	2	HRA	OV/HCL/Cl CLO2/SO2 CH2-O
REPLACED BY TC-23C-779						
522	Scott	65-OA-H 65S-OA-H 65XL-OA-H A65-OA-H	Rp,FM,FF	2	HRA	OV/HCL Cl/CLO2 SO2/CH2-O

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
522 Cont.		A65S-OA-H A65XL-OA-H				
604	Cabot Safety	R9722E	Es,MP	1		Cl/CLO2
768	Scott	66STC-AG S66STC-AG 66MTC-AG S66MTC-AG 66LTC-AG S66LTC-AG	Rp,FM,ON	2		HCL/Cl CLO2/SO2 CH2-O
769	Scott	66STC-AG-D S66STC-AG-D 66MTC-AG-D S66MTC-AG-D 66LTC-AG-D S66LTC-AG-D	Rp,FM,ON	2	DM	HCL/Cl CLO2/SO2 CH2-O
770	Scott	66STC-AG-F S66STC-AG-F 66MTC-AG-F S66MTC-AG-F 66LTC-AG-F S66LTC-AG-F	Rp,FM,ON	2	DMFR	HCL/Cl CLO2/SO2 CH2-O
771	Scott	66STC-AG-H S66STC-AG-H 66MTC-AG-H S66MTC-AG-H 66LTC-AG-H S66LTC-AG-H	Rp,FM,ON	2	HRA	HCL/Cl CLO2/SO2 CH2-O
776	Scott	66STC-OA S66STC-OA 66MTC-OA S66MTC-OA 66LTC-OA S66LTC-OA	Rp,FM,ON	2		OV/HCL/Cl CLO2/SO2
777	Scott	66STC-OA-D S66STC-OA-D 66MTC-OA-D S66MTC-OA-D 66LTC-OA-D S66LTC-OA-D	Rp,FM,ON	2	DM	OV/HCL/Cl CLO2/SO2 CH2-O

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
778	Scott	66STC-OA-F S66STC-OA-F 66MTC-OA-F S66MTC-OA-F 66LTC-OA-F S66LTC-OA-F	Rp,FM,ON	2	DMFR	OV/HCL/Cl CLO2/SO2
779	Scott	66STC-OA-H S66STC-OA-H 66MTC-OA-H S66MTC-OA-H 66LTC-OA-H S66LTC-OA-H	Rp,FM,ON	2	HRA	OV/HCL/Cl CLO2/SO2
832	MSA	484475	Rp,FF,Fm	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	DM	HCL/Cl CLO2/SO2
833	MSA	484476	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	DM	OV/HCL/Cl CLO2/SO2
836	MSA	484480	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	HA	HCL/Cl CLO2/SO2
837	MSA	484488	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	DM	OV/HCL/Cl CLO2/SO2
839	MSA	484481	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	HA	OV/HCL/Cl CLO2/SO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
843	MSA	483992 489259*	Rp,Fm,FF	2	DM	HCL/Cl CLO2/SO2
				Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85		
844	MSA	483993 489260*	Rp,Fm,FF	2	DM	OV/HCL/Cl CLO2/SO2
				Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 35 - 40		
851	MSA	483997	Rp,Fm,FF	2	HA	HCL/Cl CLO2/SO2
				Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85		
852	MSA	484005 489272*	Rp,Fm,FF	2	DM	OV/HCL/Cl CLO2/SO2
				Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 35 - 40		
853	MSA	483999 489266*	Rp,Fm,FF	2	DFMR	OV/HCL/Cl CLO2/SO2
				Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 35 - 40		
854	MSA	483998	Rp,Fm,FF	2	HA	OV/HCL/Cl CLO2/SO2
				Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 35 - 40		
866	3M	5102 5202 5302	Su,ON	2		SO2/Cl HCl/CLO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
869	3M	5112 5212 5312	Su,ON	2	DM	SO2/Cl HCl/CLO2
929	MSA	489800	Rp,Fm,ON NOT APPROVED FOR RADIONUCLIDES	2	HA	OV/HCl/Cl CLO2/SO2
930	MSA	489741	Rp,Bm,ON NOT APPROVED FOR RADIONUCLIDES	2	HA	OV/HCl/Cl CLO2/SO2
931	MSA	489829 489833	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2	HA	OV/HCl/Cl CLO2/SO2
932	MSA	489771	Rp,Bm,ON NOT APPROVED FOR RADIONUCLIDES	2	HA	OV/HCl/Cl CLO2/SO2
933	MSA	489837 489845*	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 35 - 40	2	HA	OV/HCl/Cl CLO2/SO2
934	MSA	489841	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	2	HA	OV/HCl/Cl CLO2/SO2
946	MSA	490026* 490046* 490066	Rp,Fm,FF Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100	2	DM	HCl/Cl CLO2/SO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
947	MSA	490027* 490047* 490067	Rp,Fm,FF	2 Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100	DM	OV/HCl/Cl CLO2/SO2
951	MSA	490031* 490051* 490071	Rp,Fm,FF	2 Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100	HA	HCL/Cl CLO2/SO2
952	MSA	490032* 490052* 490072	Rp,Fm,FF	2 Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100	HA	OV/HCL/Cl CLO2/SO2
953	MSA	490033* 490053* 490073	Rp,Fm,FF	2 Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100	DFMR	OV/HCL/Cl CLO2/SO2
957	MSA	490039* 490059* 490079*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100	DM	OV/HCL/Cl CLO2/SO2
961	MSA	490042* 490062* 490082*	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2 Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100	HA	OV/HCL/Cl CLO2/SO2
981	Cabot Safety	R7452A S7452A	Rp,Fm,FF	2		SO2/Cl HCl/CLO2

CHEMICAL CARTRIDGES - OTHER GASES AND VAPORS - HYDROGEN SULFIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
982	Cabot Safety	R7452AD S7452AD	Rp,Fm,FF	2	DM	SO2/Cl HCl/CLO2
983	Cabot Safety	R7452AF S7452AF	Rp,Fm,FF	2	DFM	SO2/Cl HCl/CLO2
1000	Cabot Safety	R7452HE S7452HE	Rp,Fm,FF	2	HRA	SO2/Cl HCl/CLO2
1020	3M	5142 5242 5342	Su,ON	2	HRA	SO2/Cl HCl/CLO2

CHEMICAL CARTRIDGES - OTHER GASES AND VAPORS - CHLORINE DIOXIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
41	MSA	459434 461006 489744 489804	Rp,Fm,ON	2	DM	H2S/SO2/Cl HCl
47	MSA	459435 461007	Rp,Fm,Bm,ON	2	DM	OV/HCL/Cl SO2/H2S
115 REPLACED BY TC-23C-768	Scott	64-AG* 64E-AG* 64M-AG* 64ME-AG* 64S-AG* 64SE-AG*	Rp,Fm,ON	2		HCL/Cl CH2-O/SO2
116	Scott	64-AG-D* 64E-AG-D* 64M-AG-D* 64ME-AG-D* 64S-AG-D* 64SE-AG-D*	Rp,Fm,ON	2	DM	HCL/Cl CH2-O/SO2
145	MSA	461849 483481	Rp,Fm,ON	2	DM	H2S/SO2/Cl HCl
146	MSA	461850 483482	Rp,Fm,FF	2	DM	OV/HCL/Cl SO2/H2S
150	MSA	461854 483486 489785	Rp,Fm,FF	2	HA	H2S/SO2/Cl HCl
153	MSA	461855 483487	Rp,Fm,FF	2	HA	OV/HCL/Cl SO2/H2S
154	MSA	461856 483488	Rp,Fm,FF	2	DFMR	OV/HCL/Cl SO2/H2S
156	MSA	461835 462239 489755 489814	Rp,Fm,ON	2	HA	HCL/Cl SO2/H2S

CHEMICAL CARTRIDGES - OTHER GASES AND VAPORS - CHLORINE DIOXIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
159	MSA	460847 461013 489751 489810	Rp,Fm,FF,ON	2	HA	OV/HCL/Cl SO2/H2S
160	MSA	460848 461014 489752 489811	Rp,Fm,FF,ON	2	DFMR	OV/HCL/Cl SO2/H2S
172	Scott	64-OA* 64E-OA* 64M-OA* 64ME-OA* 64S-OA* 64SE-OA*	Rp,Fm,ON	2		HCL/Cl OV/SO2 H2S/CH2-O
REPLACED BY TC-23C-776						
174	Scott	64-OA-D* 64E-OA-D* 64M-OA-D* 64ME-OA-D* 64S-OA-D* 64SE-OA-D*	Rp,Fm,ON	2	DM	HCL/Cl OV/SO2 H2S/CH2-O
218	Scott	65-AG-D 65S-AG-D 65XL-AG-D A65-AG-D A65S-AG-D A65XL-AG-D	Rp,Fm,FF	2	DM	HCL/Cl CH2-O/SO2 H2S
221	Scott	6470-0015* 6480-0015* 65-OA 65S-OA 65XL-OA A65-OA A65S-OA A65XL-OA	Rp,Fm,FF	2		HCL/Cl OV/SO2 H2S/CH2-O
222	Scott	65-OA-D 65S-OA-D 65XL-OA-D A65-OA-D A65S-OA-D A65XL-OA-D	Rp,Fm,FF	2	DM	HCL/Cl OV/SO2 H2S/CH2-O

CHEMICAL CARTRIDGES - OTHER GASES AND VAPORS - CHLORINE DIOXIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
225	Scott	65-AG 65S-AG 65XL-AG A65-AG A65S-AG A65XL-AG	Rp,Fm,FF	2		HCL/Cl SO2/CH2-O H2S
246	Scott	64-AG-F* 64E-AG-F* 64M-AG-F* 64ME-AG-F* 64S-AG-F* 64SE-AG-F*	Rp,Fm,ON	2	DFMR	HCL/Cl SO2/CH2-O H2S
247	Scott	65-AG-F 65S-AG-F 65XL-AG-F A65-AG-F A65S-AG-F A65XL-AG-F	Rp,Fm,FF	2	DFMR	HCL/Cl SO2/CH2-O H2S
250	Scott	64-OA-F* 64E-OA-F* 64M-OA-F* 64ME-OA-F* 64S-OA-F* 64SE-OA-F*	Rp,Fm,ON	2	DFMR	HCL/Cl SO2/CH2-O H2S/OV
251	Scott	65-OA-F 65S-OA-F 65XL-OA-F A65-OA-F A65S-OA-F A65XL-OA-F	Rp,Fm,ON	2	DFMR	HCL/Cl SO2/H2S OV/CH2-O
260	MSA	466903 489818	Rp,Fm,ON	2	DM	OV/HCL/Cl SO2/H2S
261	MSA	466902 489759	Rp,Fm,ON	2	DM	OV/HCL/Cl SO2/H2S
262	MSA	466904 483444	Rp,Fm,FF	2	DM	OV/HCL/Cl SO2/H2S

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
281	Cabot Safety	R4563*/S4563* R5563*/S5563* R6563*/S6563*	Rp,Fm,ON	2	DFM	OV/HCl/Cl SO2/Pest
282	Cabot Safety	R7563* S7563*	Rp,Fm,FF	2	DFM	OV/HCl/Cl SO2/Pest
339	Cabot Safety	R4052A/S4052A R4552A/S4552A R5052A/S5052A R5552A/S5552A R6052A/S6052A R6552A/S6552A	Rp,Fm,ON	2		HCL/Cl SO2/H2S
340	Cabot Safety	R7052A/S7052A R7752A/S7752A	Rp,Fm,FF	2		HCL/Cl SO2/H2S
341	Cabot Safety	R4052AD/S4052AD R4452AD/S4452AD R5052AD/S5052AD R5552AD/S5552AD R6052AD/S6052AD R6552AD/S6552AD	Rp,Fm,ON	2	DM	SO2/Cl HCl/H2S
342	Cabot Safety	R7052AD/S7052AD R7752AD/S7752AD	Rp,Fm,FF	2	DM	SO2/Cl HCl/H2S
343	Cabot Safety	R4053A/S4053A R4553A/S4553A R5053A/S5053A R6053A/S6053A R5553A/S5553A R6553A/S6553A	Rp,Fm,ON	2		OV/SO2/HCl Cl
344	Cabot Safety	R7053A/S7053A R7753A/S7753A	Rp,Bm,FF	2		OV/SO2/HCl Cl
345	Cabot Safety	R4053AD/S4053AD R4553AD/S4553AD	Rp,Fm,ON	2	DM	OV/SO2/HCl Cl

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
345 Cont.		R5053AD/S5053AD R6053AD/S6053AD R5553AD/S5553AD R6553AD/S6553AD				
346	Cabot Safety	R7053AD/S7053AD R7753AD/S7753AD	Rp,Fm,FF	2	DM	OV/SO2/HCl Cl
415	Cabot Safety	R4052HE/S4052HE R4552HE/S4552HE R5052HE/S5052HE R5552HE/S5552HE R6052HE/S6052HE R6552HE/S6552HE	Rp,Fm,ON	2	HRA	HCL/Cl SO2/H2S
416	Cabot Safety	R7052HE/S7052HE R7552HE/S7552HE	Rp,Fm,FF	2	HRA	HCL/Cl SO2/H2S
417	Cabot Safety	R4053HE/S4054HE R4553HE/S4553HE R5053HE/S5053HE R6053HE/S6053HE R5553HE/S5553HE R6553HE/S6553HE	Rp,Fm,ON	2	HRA	OV/SO2/HCl Cl/Pest
418	Cabot Safety	R7053HE/S7053HE R7753HE/S7753HE	Rp,Fm,FF	2	HRA	OV/SO2/HCl Cl/Pest
461	MSA	472749 489774	Rp,Bm,ON	2	DM	HCL/Cl SO2/H2S
462	MSA	472750 489775	Rp,Bm,ON	2	DM	OV/HCL/Cl SO2/H2S
466	MSA	472756 489781	Rp,Bm,ON	2	HA	OV/HCL/Cl SO2/H2S
467	MSA	472757 489782	Rp,Bm,ON	2	DFMR	OV/HCL/Cl SO2/H2S

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
470	MSA	472760	Rp,Bm,ON	2	HA	HCL/Cl SO2/H2S
472	MSA	472764 489789	Rp,Bm,ON	2	DM	OV/HCL/Cl SO2/H2S
514	MSA	471914 476337/476338	ES, MP	1	DM	SO2/HCl/Cl
517	Scott	64-AG-H* 64E-AG-H* 64M-AG-H* 64ME-AG-H* 64S-AG-H* 64SE-AG-H*	Rp,FM,ON	2	HRA	SO2/HCl Cl/H2S CH2-O
REPLACED BY TC-23C-771						
518	Scott	65-AG-H 65S-AG-H 65XL-AG-H A65-AG-H A65S-AG-H A65XL-AG-H	Rp,FM,FF	2	HRA	SO2/HCl Cl/H2S CH2-O
521	Scott	64-OA-H* 64E-OA-H* 64M-OA-H* 64ME-OA-H* 64S-OA-H* 64SE-OA-H*	Rp,FM,ON	2	HRA	OV/SO2 HCl/Cl H2S/CH2-O
REPLACED BY TC-23C-779						
522	Scott	65-OA-H 65S-OA-H 65XL-OA-H A65-OA-H A65S-OA-H A65XL-OA-H	Rp,FM,FF	2	HRA	OV/SO2 HCl/Cl H2S/CH2-O
587	Cabot Safety	R4563A/S4563A R45563A/S45563A R5563A/S5563A R6563A/S6563A R55563A/S55563A R65563A/S65563A	Rp,FM,ON	2	DFM	OV/SO2/HCl Cl/Pest

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
588	Cabot Safety	R7563A/S7563A R77563A/S77563A	Rp,FM,FF	2	DFM	OV/SO2/HCl Cl/Pest
604	Cabot Safety	R9722E	Es,MP	1		H2S/Cl
679	Cabot Safety	R7070A/S7070A R7770A/S7770A	Rp,Fm,FF	2		OV/SO2/HCl Cl
768	Scott	66STC-AG S66STC-AG 66MTC-AG S66MTC-AG 66LTC-AG S66LTC-AG	Rp,FM,ON			SO2/HCl Cl/H2S CH2-O
769	Scott	66STC-AG-D S66STC-AG-D 66MTC-AG-D S66MTC-AG-D 66LTC-AG-D S66LTC-AG-D	Rp,FM,ON		DM	SO2/HCl Cl/H2S CH2-O
770	Scott	66STC-AG-F S66STC-AG-F 66MTC-AG-F S66MTC-AG-F 66LTC-AG-F S66LTC-AG-F	Rp,FM,ON		DFMR	SO2/HCl Cl/H2S CH2-O
771	Scott	66STC-AG-H S66STC-AG-H 66MTC-AG-H S66MTC-AG-H 66LTC-AG-H S66LTC-AG-H	Rp,FM,ON		HRA	SO2/HCl Cl/H2S CH2-O
776	Scott	66STC-OA S66STC-OA 66MTC-OA S66MTC-OA 66LTC-OA S66LTC-OA	Rp,FM,ON	2		OV/SO2 HCl/Cl H2S

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
777	Scott	66STC-OA-D S66STC-OA-D 66MTC-OA-D S66MTC-OA-D 66LTC-OA-D S66LTC-OA-D	Rp,FM,ON	2	DM	OV/SO2/HCl Cl/H2S CH2-O
778	Scott	66STC-OA-F S66STC-OA-F 66MTC-OA-F S66MTC-OA-F 66LTC-OA-F S66LTC-OA-F	Rp,FM,ON	2	DFMR	OV/SO2 HCl/Cl H2S
779	Scott	66STC-OA-H S66STC-OA-H 66MTC-OA-H S66MTC-OA-H 66LTC-OA-H S66LTC-OA-H	Rp,FM,ON	2	HRA	OV/SO2 HCl/Cl H2S
794	Cabot Safety	S7553HE S7553HEC	FF,Rp,Fm	2 For S7553HEC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	HRA	SO2/HCl Cl/OV/Pest
798	Cabot Safety	S7552A S7552AC	FF,Rp,Fm	2 For S7552AC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 300 / 14 - 37 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22		HCl/Cl CLO2/SO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
798 Cont.				100 - 150 175 - 225 250 - 300	16 - 26 18 - 29 20 - 32	
799	Cabot Safety	S7553A S7553AC	FF,Rp,Fm	2 For S7553AC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 300 / 14 - 37 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32		OV/SO2/HCl Cl
803	Cabot Safety	S7552HE S7552HEC	FF,Rp,Fm	2 For S7552HEC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 300 / 14 - 37 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	HRA	HCl/Cl CLO2/SO2
805	Cabot Safety	S7570A S7570AC	FF,Rp,Fm	2 For S7570AC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26		OV/SO2/HCl Cl

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
805 Cont.				175 - 225 250 - 300	18 - 29 20 - 32	
808	Cabot Safety	S7552AD S7552ADC	FF,Rp,Fm	2 For S7552ADC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 300 / 14 - 37 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	DM	HCl/Cl SO2
809	Cabot Safety	S7553AD S7553ADC	FF,Rp,Fm	2 For S7553ADC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	DM	OV/SO2/HCl Cl
812	Cabot Safety	S75563A S75563AC	FF,Rp,Fm	2 For S75563AC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26	DFM	OV/HCl/Cl SO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
812 Cont.				175 - 225 250 - 300	18 - 29 20 - 32	
832	MSA	484475	Rp,FF,Fm	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	DM	HCL/Cl CLO2/SO2
833	MSA	484476	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	DM	OV/HCL/Cl CLO2/SO2
836	MSA	484480	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	HA	HCL/Cl CLO2/SO2
837	MSA	484488	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	DM	OV/HCL/Cl CLO2/SO2
839	MSA	484481	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	HA	OV/HCL/Cl CLO2/SO2
843	MSA	483992	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	DM	HCL/Cl CLO2/SO2

CHEMICAL CARTRIDGES - OTHER GASES AND VAPORS - CHLORINE DIOXIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
844	MSA	483993 489260*	Rp,Fm,FF	2	DM	OV/HCL/Cl CLO2/SO2
				Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 35 - 40		
851	MSA	483997	Rp,Fm,FF	2	HA	HCL/Cl CLO2/SO2
				Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85		
852	MSA	484005 489272*	Rp,Fm,FF	2	DM	OV/HCL/Cl CLO2/SO2
				Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 35 - 40		
853	MSA	483999 489266*	Rp,Fm,FF	2	DFMR	OV/HCL/Cl CLO2/SO2
				Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 35 - 40		
854	MSA	483998	Rp,Fm,FF	2	HA	OV/HCL/Cl CLO2/SO2
				Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 35 - 40		
866	3M	5102 5202 5302	Su,ON	2		H2S/Cl HCl/SO2
869	3M	5112 5212 5312	Su,ON	2	DM	H2S/Cl HCl/SO2
902	Cabot Safety	R4052AF/S4052AF R4452AF/S4452AF R5052AF/S5052AF R5552AF/S5552AF	Rp,Fm,ON	2	DFMR	HCl/Cl CLO2/SO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
902 Cont.		R6052AF/S6052AF R6552AF/S6652AF				
903	Cabot Safety	R7052AF/S7052AF R7752AF/S7752AF	Rp,Fm,FF	2	DFMR	HCl/Cl CLO2/SO2
904	Cabot Safety	S7552AF S7552AFC	Rp,Fm,FF For S7552AFC, combination Type C, CF 3/8" I.D. Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 1/2" I.D. Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	2	DFMR	HCl/Cl CLO2/SO2
905	Cabot Safety	R4053AF/S4053AF R4553AF/S4553AF R5053AF/S5053AF R5553AF/S5553AF R6053AF/S6053AF R6553AF/S6553AF	Rp,Fm,ON	2	DFMR	OV/HCl/Cl SO2/Pest
906	Cabot Safety	R7053AF/S7053AF R7753AF/S7753AF	Rp,Fm,FF	2	DFMR	OV/HCl/Cl SO2/Pest
907	Cabot Safety	S7553AF S7553AFC	Rp,Fm,FF For S7553AFC, combination Type C, CF 3/8" I.D. Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35	2	DFMR	OV/HCl/Cl SO2/Pest

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
907 Cont.			1/2" I.D. Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32			
914	Cabot Safety	R7070AF/S7070AF R7770AF/S7770AF	Rp,Fm,FF	2	DFMR	OV/HCl/Cl SO2/Pest
915	Cabot Safety	S7570AF S7570AFC	Rp,Fm,FF For S7570AFC, combination Type C, CF 3/8" I.D. Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 1/2" I.D. Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	2	DFMR	OV/HCl/Cl SO2/Pest
929	MSA	489800 489764 489794 489823	Rp,Fm,ON NOT APPROVED FOR RADIONUCLIDES	2	HA	OV/HCl/Cl CLO2/SO2
930	MSA	489741	Rp,Bm,ON NOT APPROVED FOR RADIONUCLIDES	2	HA	OV/HCl/Cl CLO2/SO2
931	MSA	489829 489833	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2	HA	OV/HCl/Cl CLO2/SO2
932	MSA	489771	Rp,Bm,ON NOT APPROVED FOR RADIONUCLIDES	2	HA	OV/HCl/Cl CLO2/SO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
933	MSA	489837 489845*	Rp,Fm,FF	2	HA	OV/HCl/Cl CLO2/SO2
			NOT APPROVED FOR RADIONUCLIDES Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 35 - 40			
934	MSA	489841	Rp,Fm,FF	2	HA	OV/HCl/Cl CLO2/SO2
			NOT APPROVED FOR RADIONUCLIDES Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85			
946	MSA	490026* 490046* 490066	Rp,Fm,FF	2	DM	HCl/Cl CLO2/SO2
			Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100			
947	MSA	490027* 490047* 490067	Rp,Fm,FF	2	DM	OV/HCl/Cl CLO2/SO2
			Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100			
951	MSA	490031* 490051* 490071	Rp,Fm,FF	2	HA	HCL/Cl CLO2/SO2
			Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100			
952	MSA	490032* 490052* 490072	Rp,Fm,FF	2	HA	OV/HCL/Cl CLO2/SO2
			Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100			

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
953	MSA	490033* 490053* 490073	Rp,Fm,FF	2 Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100	DFMR	OV/HCL/Cl CLO2/SO2
957	MSA	490039* 490059* 490079*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100	DM	OV/HCL/Cl CLO2/SO2
961	MSA	490042* 490062* 490082*	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2 Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100	HA	OV/HCL/Cl CLO2/SO2
981	Cabot Safety	R7452A S7452A	Rp,Fm,FF	2		H2S/SO2/Cl HCl
982	Cabot Safety	R7452AD S7452AD	Rp,Fm,FF	2	DM	H2S/SO2/Cl HCl
983	Cabot Safety	R7452AF S7452AF	Rp,Fm,FF	2	DFM	H2S/SO2/Cl HCl
984	Cabot Safety	R7453A S7453A	Rp,Fm,FF	2		OV/SO2/Cl HCl
985	Cabot Safety	R7453AD S7453AD	Rp,Fm,FF	2	DM	OV/SO2/Cl HCl
986	Cabot Safety	R7453AF S7453AF	Rp,Fm,FF	2	DFMR	OV/SO2/Cl HCl/Pest
995	Cabot Safety	R7470A S7470A	Rp,Fm,FF	2		OV/SO2/Cl HCl

CHEMICAL CARTRIDGES - OTHER GASES AND VAPORS - CHLORINE DIOXIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
996	Cabot Safety	R7470AF S7470AF	Rp,Fm,FF	2	DFMR	OV/SO2/Cl HCl/Pest
998	Cabot Safety	R74563A S74563A	Rp,Fm,FF	2	DFM	OV/SO2/Cl HCl/Pest
1000	Cabot Safety	R7452HE S7452HE	Rp,Fm,FF	2	HRA	SO2/Cl HCl/H2S
1001	Cabot Safety	R7453HE S7453HE	Rp,Fm,FF	2	HRA	SO2/Cl HCl/H2S Pest
1020	3M	5142 5242 5342	Su,ON	2	HRA	H2S/Cl HCl/SO2
1042	Willson	2105 2205 2305	Su,ON	2		OV/Cl HCl/SO2
1043	Willson	2115 2215 2315	Su,ON	2	DM	OV/Cl HCl/SO2
1050	Willson	2145 2245 2345	Su,ON	2	HR	OV/Cl HCl/SO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
65	North	7503S*/M*/L* 7703S/M/L	Rp,Bm,ON	2		OV/SO2 Cl/HCl
66	North	7513S*/M*/L* 7713S/M/L	Rp,Bm,ON	2	DM	OV/SO2 Cl/HCl
104	North	75BP03*/M/L	Rp,Bm,ON	2		OV/SO2/Cl HCl
105	North	75BP13*/M*/L* 77BP13S/M/L	Rp,Bm,ON	2	DM	OV/SO2/Cl HCl
115	Scott	6411-0001* 6412-0001* 6413-0001* 6421-0001* 6422-0001* 6423-0001* 64-AG* 64E-AG* 64M-AG* 64ME-AG* 64S-AG* 64SE-AG*	Rp,Fm,ON	2		SO2/HCl Cl/H2S CLO2
REPLACED BY TC-23C-768						
116	Scott	6411-0101* 6413-0101* 6421-0101* 6423-0101* 6412-0101* 6422-0101* 64-AG-D* 64E-AG-D* 64M-AG-D* 64ME-AG-D* 64S-AG-D* 64SE-AG-D*	Rp,Fm,ON	2	DM	SO2/HCl Cl/H2S CLO2
172	Scott	6411-0015* 64-OA* 6413-0015* 64E-OA* 6421-0015* 64M-OA* 6423-0015*	Fm, ON	2		OV/SO2 HCl/Cl H2S/CLO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
172 Cont.		64ME-OA* 6412-0015* 64S-OA* 6422-0015* 64SE-OA*				
REPLACED BY TC-23C-776						
174	Scott	6411-0115* 6412-0115* 6413-0115* 6421-0115* 6422-0115* 6423-0115* 64-OA-D* 64E-OA-D* 64M-OA-D* 64ME-OA-D* 64S-OA-D* 64SE-OA-D* 604032-15*	Fm, ON	2	DM	OV/SO2 HCl/Cl H2S/CLO2
181	North	7603 7603S*	Rp,Bm,ON	2		OV/SO2/Cl HCl
183	Glendale	GR-1622 GR-2022 GR-4022 GR-8022	Rp,Fm,ON	2		SO2/HCl/Cl
184	Glendale	GR-1622-10 GR-2022-10 GR-4022-10 GR-8022-10	Rp,Fm,ON	2		SO2/HCl/Cl
186	North	7613 7613S*	Rp,Bm,ON	2	DM	OV/SO2/Cl HCl
207	North	7582S*/M*/L* 7782S/M/L	Rp,ON,Fm	2	HRA	HCl/Cl SO2
208	North	75BP82*/M*/L* 77BP82S/M/L	Rp,Bm,ON	2	HRA	HCl/Cl/SO2
209	North	7682/S*	Rp,Fm,FF	2	HRA	HCl/Cl/SO2

CHEMICAL CARTRIDGES - OTHER GASES AND VAPORS - FORMALDEHYDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
210	North	7583S*/M*/L* 7783S/M/L	Rp,Bm,ON	2	HRA	OV/SO2 Cl/HCl
211	North	75BP83*/M*/L* 77BP83S/M/L	Rp,Bm,ON	2	HRA	OV/SO2/Cl HCl
212	North	7683	Rp,Bm,ON	2	HRA	OV/SO2/Cl HCl
218	Scott	6470-0101* 6480-0101* 65-AG-D 65S-AG-D 65XL-AG-D A65-AG-D A65S-AG-D A65XL-AG-D	Rp,Fm, FF	2	DM	SO2/HCl Cl/H2S CLO2
221	Scott	6470-0015* 6480-0015* 65-OA 65S-OA 65XL-OA A65-OA A65S-OA A65XL-OA	Rp,Fm,FF	2		OV/SO2 Cl/HCl H2S/CLO2
222	Scott	6470-0115* 6480-0115* 65-OA-D 65S-OA-D 65XL-OA-D A65-OA-D A65S-OA-D A65XL-OA-D	Rp,Fm,FF	2	DM	OV/SO2 Cl/HCl H2S/CLO2
225	Scott	6470-0001 6480-0001 65-AG 65S-AG 65XL-AG A65-AG A65S-AG A65XL-AG	Rp,Fm, FF	2		SO2/HCl Cl/H2S CLO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
226	North	7502*/S*/M*/L* 7702S/M/L	Rp,Fm, ON	2		SO2/HCl Cl
227	North	75BP02*/M*/L* 77BP02S/M/L	Rp,Bm, ON	2		SO2/HCl/Cl
228	North	7602/S*/N*/SN*	Rp,Fm, FF	2		SO2/HCl/Cl
229	North	7512*/S*/M*/L* 7712S/M/L	Rp,Fm, ON	2	DM	SO2/HCl Cl
230	North	75BP12*/M*/L* 77BP12S/M/L	Rp,Bm, ON	2	DM	SO2/HCl/Cl
231	North	7612/S*/N*/SN*	Rp,Fm, FF	2	DM	SO2/HCl/Cl
241	Glendale	GR-1623 GR-2023 GR-4023 GR-8023	Rp,Fm,ON	2		OV/SO2/HCl Cl
242	Glendale	GR-1623-10 GR-2023-10 GR-4023-10 GR-8023-10	Rp,Fm,ON	2		OV/SO2/HCl Cl
246	Scott	6411-0301* 64-AG-F* 6413-0301* 64E-AG-F* 6421-0301* 64M-AG-F* 6423-0301* 64ME-AG-F* 6412-0301* 64S-AG-F* 6422-0301* 64SE-AG-F*	Rp,Fm, ON	2	DFMR	SO2/HCl Cl/H2S CLO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
247	Scott	6470-0301* 6480-0301* 65-AG-F 65S-AG-F 65XL-AG-F A65-AG-F A65S-AG-F A65XL-AG-F	Rp,Fm, FF	2	DFMR	SO2/HCl Cl/H2S CLO2
250	Scott	6411-0315* 64-OA-F* 6413-0315* 64M-OA-F* 6421-0315* 64ME-OA-F* 6423-0315* 64E-OA-F* 6412-0315* 64S-OA-F* 6422-0315* 64SE-OA-F*	Rp,Fm, ON	2	DFMR	OV/SO2 HCl/Cl H2S/CLO2
251	Scott	65-OA-F 65S-OA-F 65XL-OA-F A65-OA-F A65S-OA-F A65XL-OA-F	Rp,FM,FF	2	DFMR	OV/HCl/Cl CLO2/SO2 H2S
318	Survivair	2103-00/-10 2203-00/-10 2303-00/-10	Rp, FM, ON	2		SO2/HCl Cl/OV
352	North	10003S/M	Su,ON	1		OV/SO2/Cl HCl
353	North	10002S/M	Su,ON	1		SO2/Cl/HCl
356	North	10012S/M	Su,ON	1	DM	SO2/Cl/HCl
357	North	10013S/M	Su,ON	1	DM	OV/SO2/Cl HCl
359	Pro-Tech	1482-G102 1482L-G102	Rp,FM,ON	2		SO2/HCl Cl

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
359 Cont.		1482S-G102 1585-G102 1585S-G102 1585L-G102				
372	3M	8754	Su,ON	1		
397	North	7505S*/M*/L*	Rp,Fm,ON	2		
398	North	7515S*/M*/L*	Rp,Fm,ON	2	DM	
399	North	75BP05M*/L*	Rp,Fm,ON	2		
400	North	75BP15M*/L*	Rp,Fm,ON	2	DM	
401	North	7605*/S*	Rp,Fm,FF	2		
402	North	7615*/S*	Rp,Fm,FF	2	DM	
407	Glendale	GR-7022	Rp,FM,FF	2		SO2/HCl/Cl
408	Glendale	GR-7022-10	Rp,FM,FF	2		SO2/HCl/Cl
410	Glendale	GR-7023	Rp,FM,FF	2		SO2/OV/HCl Cl
411	Glendale	GR-7023-10	Rp,FM,FF	2		SO2/OV/HCl Cl
429	Survivair	3202-00 4102-00 4202-00	Rp,Fm,FF	2		SO2/HCl/Cl
430	Survivair	2102-00/-10 2202-00/-10 2302-00/-10	Rp,Fm,ON	2		SO2/HCl/Cl

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
431	Survivair	2112-00/-10 2212-00/-10 2312-00/-10	Rp,Fm,ON	2	DM	SO2/HCl/Cl
432	Survivair	3212-00 4112-00 4212-00	Rp,Fm,FF	2	DM	SO2/HCl/Cl
433	Survivair	2113-00/-10 2213-00/-10 2313-00/-10	Rp,Fm, ON	2	DM	SO2/HCl Cl/OV
434	Survivair	3213-00 4213-00/-10 4113-10	Rp,Fm, ON	2	DM	SO2/HCl Cl/OV
454	Survivair	3203-00 4203-00/-10 4103-10	Rp,Fm, FF	2		SO2/HCl Cl/OV
459	Pro-Tech	1482-G102/G108 1482L-G102/G108 1482S-G102/G208 1585-G102/G208 1585S-G102/G208 1585L-G102/G208	Rp,FM,ON	2	HRA	SO2/HCl Cl
475	3M	7216	Rp,Fm,ON	2		
486	3M	8775	SU,ON	1	DM	
503	3M	7217	Rp,FM,ON	2	DM	
505	Cabot Safety	R4060A/S4060A R4560A/S4560A R5060A/S5060A R6060A/S6060A R5560A/S5560A R6560A/S6560A	Rp,FM,ON	2		

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
506	Cabot Safety	R7060A/S7060A R7760A/S7760A	Rp,FM,FF	1		
507	Cabot Safety	R4060AD/S4060AD R4560AD/S4560AD R5060AD/S5060AD R6060AD/S6060AD R5560AD/S5560AD R6560AD/S6560AD	Rp,FM,ON	2	DM	
508	Cabot Safety	R7060AD/S7060AD R7760AD/S7760AD	Rp,FM,FF	2	DM	
511	MSA	469728	Rp,Fm,ON	1	DM	SO2/HCl Cl
512	MSA	469729	Rp,FM,ON	1	DM	OV/SO2/HCl Cl
517	Scott	64-AG-H* 64E-AG-H* 64M-AG-H* 64ME-AG-H* 64S-AG-H* 64SE-AG-H*	Rp,FM, ON	2	HRA	SO2/HCl Cl/H2S CLO2
REPLACED BY TC-23C-771						
518	Scott	65-AG-H 65S-AG-H 65XL-AG-H A65-AG-H A65S-AG-H A65XL-AG-H	Rp,FM,FF	2	HRA	SO2/HCl Cl/H2S CLO2
521	Scott	64-OA-H* 64E-OA-H* 64M-OA-H* 64ME-OA-H* 64S-OA-H* 64SE-OA-H*	Rp,FM, ON	2	HRA	OV/SO2 HCl/Cl H2S/CLO2
REPLACED BY TC-23C-779						

CHEMICAL CARTRIDGES - OTHER GASES AND VAPORS - FORMALDEHYDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
522	Scott	65-OA-H 65S-OA-H 65XL-OA-H A65-OA-H A65S-OA-H A65XL-OA-H	Rp,FM,FF	2	HRA	OV/HCL Cl/CLO2 SO2/H2S
532	Survivair	2143-00/-10 2243-00/-10 2343-00/-10	Rp,FM,ON	2	DFMR	SO2/HCl Cl/OV
533	Survivair	3243-00 4143-00/-10 4243-00/-10	Rp,Fm,FF	2	DFMR	SO2/HCl Cl/OV
593	Racal	BE1/E	HH,PAPR	3		SO2/Cl/HCl
594	Racal	BE3/EC BE7/EC	FF,PAPR	3		SO2/Cl/HCl
595	Racal	BE5/E	HH,PAPR	3		SO2/Cl/HCl
596	Racal	BE6/E	HH,PAPR	3		SO2/Cl/HCl
597	Racal	BE1/EP3	HH,PAPR	3	HRA	SO2/Cl/HCl
598	Racal	BE3/EP3 BE7/EP3	FF,PAPR	3	HRA	SO2/Cl/HCl
599	Racal	BE5/EP3	HH,PAPR	3	HRA	SO2/Cl/HCl
600	Racal	BE6/EP3	HH,PAPR	3	HRA	SO2/Cl/HCl
603	Racal	BE17/EP3	HH,PAPR	3	HRA	SO2/Cl/HCl
613	Racal	BE8/E	ON,PAPR	3		SO2/Cl/HCl
614	Racal	BE8/EP3	ON,PAPR	3	HRA	SO2/Cl/HCl

CHEMICAL CARTRIDGES - OTHER GASES AND VAPORS - FORMALDEHYDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
619	Glendale	GR-1622-50 GR-2022-50 GR-4022-50 GR-8022-50	Rp,Fm,ON	2	HRA	SO2/Cl/HCl
620	Glendale	GR-7022-50	Rp,Fm,FF	2	HRA	SO2/Cl/HCl
621	Glendale	GR-2023-50 GR-8023-50 GR-1623-50 GR-4023-50	Rp,Fm,ON	2	HRA	SO2/Cl/HCl OV
622	Glendale	GR-7023-50	Rp,Fm,FF	2	HRA	SO2/Cl/HCl OV
634	Racal	BE4/E*	PAPR,HH	3		SO2/HCl Cl
635	Racal	BE4/EP3*	PAPR,HH	3	HRA	SO2/HCl Cl
652	North	7592S*/M*/L* 7792S/M/L	Rp,Fm, ON	2	DFM	SO2/HCl Cl
653	North	75BP92*/M*/L* 77BP92S/M*/L*	Rp,BM,ON	2	DFM	SO2/HCl Cl
654	North	7692/S*	Rp,Fm,FF	2	DFM	SO2/HCl Cl
655	North	7593S*/M*/L* 7793S/M/L	Rp,Bm,ON	2	DFM	OV/SO22 Cl/HCl
656	North	75BP93*/M*/L* 77BP93S/M/L	Rp,Bm,ON	2	DFM	OV/SO2/Cl HCl
657	North	7693/S*	Rp,Bm,ON	2	DFM	OV/SO2/Cl HCl

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
671	Pro-Tech	1694-G102	Rp,Fm,FF	2		SO2/Cl HCl
673	Pro-Tech	1694-G102/G208	Rp,Fm,FF	2	HRA	SO2/Cl HCl
697	3M	7816 7816C 7816-H 7816C-L	Rp,Fm,FF	2		

(For 7816C Combination Type C, CF)

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Hose Length (feet)	Press. Range psig 7816-H	Press. Range psig 7816-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

698	3M	7817 7817C 7817-H 7817C-L	Rp,Fm,FF	2	DM	

(For 7817C Combination Type C, CF)

Air pressure (psig)	Hose length (feet)
15 - 25	25
18 - 25	50
19 - 30	100
25 - 40	200
25 - 55	300

Hose Length (feet)	Press. Range psig 7817-H	Press. Range psig 7817-L
25	8-15	7-11
50	10-19	7-11
100	12-21	7-12
200	17-31	8-16
300	21-36	10-18

699	Willson	1226/R/S/SR/SS/SSS S1226/R/S/SR/SS/SSS	ON,Rp,Fm	2		SO2/Cl/HCl

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
700	Willson	1626/1726	FF,Rp,Fm	2		SO2/Cl/HCl
701	Willson	1526/R/SS	ON,Rp,Fm	2		SO2/Cl/HCl
702	Willson	3026*/R/S/SR/SS/SSS S3026/R/S/SR/SS/SSS	ON,Rp,Bm	2		SO2/Cl/HCl
703	Willson	3126*/3226*	FF,Bm,Rp	2		SO2/Cl/HCl
704	Willson	3526*/R/SS	ON,Bm,Rp	2		SO2/Cl/HCl
705	Willson	122610/R/S/SR/SS/SSS S122610/R/S/SR/SS/SSS	ON,Rp,Fm	2	DM	SO2/Cl/HCl
706	Willson	152610/R/SS	ON,Rp,Fm	2	DM	SO2/Cl/HCl
707	Willson	162610 172610	FF,Rp,Fm	2	DM	SO2/Cl/HCl
708	Willson	302610*/R/S/SR/SS/SSS S302610/R/S/SR/SS/SSS	ON,Rp,Bm	2	DM	SO2/Cl/HCl
709	Willson	312610* 322610*	FF,Rp,Bm	2	DM	SO2/Cl/HCl
710	Willson	352610*/R/SS	ON,Rp,Bm	2	DM	SO2/Cl/HCl
711	Willson	122617/R/S/SR/SS/SSS S122617/R/S/SR/SS/SSS	ON,Rp,Fm	2	DFM	SO2/Cl/HCl
712	Willson	162617 172617	FF,Rp,Fm	2	DFM	SO2/Cl/HCl
713	Willson	152617/R/SS	FF,Rp,Fm	2	DFM	SO2/Cl/HCl

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
714	Willson	302617*/R/S/SR/SS/SSS S302617/R/S/SR/SS/SSS	ON,Rp,Bm	2	DFM	SO2/Cl/HCl
715	Willson	312617* 322617*	FF,Rp,Bm	2	DFM	SO2/Cl/HCl
716	Willson	352617*/R/SS	ON,Rp,Bm	2	DFM	SO2/Cl/HCl
741	Willson	6106S/M/L/SR/MR/LR	ON,Rp,Fm	2		SO2/Cl/HCl
742	Willson	6206S/M/L/SR/MR/LR	ON,Rp,Fm	1		SO2/Cl/HCl
746	Willson	6406/S6406 6506/S6506 W6406/W6506	FF,Rp,Fm	2		SO2/Cl HCl
749	Willson	6516/S6516 6416/S6416 W6416/W6516	FF,Rp,Fm	2	DM	SO2/Cl HCl
754	Willson	6116S/M/L/SR/MR/LR	ON,Rp,Fm	2	DM	SO2/Cl/HCl
757	Willson	6216S/M/L/SR/MR/LR	ON,Rp,Fm	1	DM	SO2/Cl/HCl
765	Willson	6146S/M/L/SR/MR/LR	Rp,Fm,ON	2	HA	SO2/Cl/HCl
766	Willson	6546/S6546 6446/S6446 W6446/W6546	Rp,Fm,FF	2	HA	SO2/Cl HCl
768	Scott	66STC-AG S66STC-AG 66MTC-AG S66MTC-AG 66LTC-AG S66LTC-AG	Fm,Rp,ON	2		HCl/Cl SO2/H2S CLO2

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
769	Scott	66STC-AG-D S66STC-AG-D 66MTC-AG-D S66MTC-AG-D 66LTC-AG-D S66LTC-AG-D	Fm,Rp,ON	2	DM	HCl/Cl SO2/H2S CLO2
770	Scott	66STC-AG-F S66STC-AG-F 66MTC-AG-F S66MTC-AG-F 66LTC-AG-F S66LTC-AG-F	Fm,Rp,ON	2	DFMR	HCl/Cl SO2/H2S CLO2
771	Scott	66STC-AG-H S66STC-AG-H 66MTC-AG-H S66MTC-AG-H 66LTC-AG-H S66LTC-AG-H	Fm,Rp,ON	2	HRA	HCl/Cl SO2/H2S CLO2
789	Willson	6126S/M/L/SR/MR/LR	Rp,Fm,ON	2	DFMR	SO2/Cl/HCl
790	Willson	6426/S6426 6526/S6526 W6426/W6526	Rp,Fm,FF	2	DFMR	SO2/Cl HCl
804	Cabot Safety	S7560A S7560AC	FF,Rp,Fm	2 For S7560AC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32		

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
811	Cabot Safety	S7560AD S7560ADC	FF,Rp,Fm	2 For S7560ADC Comb. Type C, CF Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 For 1/2" Hose Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32	DM	
817	Glendale	GR-9522	Rp,Fm,ON	2		HCl/Cl/SO2
818	Glendale	GR-9522-10	Rp,Fm,ON	2	DM	HCl/Cl/SO2
819	Glendale	GR-9522-50	Rp,Fm,ON	2	HRA	HCl/Cl/SO2
820	Glendale	GR-9523	Rp,Fm,ON	2		HCl/Cl/SO2 OV
821	Glendale	GR-9523-10	Rp,Fm,ON	2	DM	HCl/Cl/SO2 OV
822	Glendale	GR-9523-50	Rp,Fm,ON	2	HRA	HCl/Cl/SO2 OV
829	Willson	6226S/M/L/SR/MR/LR	Rp,Fm,ON	1	DFM	SO2/Cl/HCl
864	3M	5105 5205 5305	ON,Su	2		OV
867	3M	5115 5215 5315	ON,Su	2	DM	OV

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
890	3M	7816-H 7816-L 7816-PD	Rp,Fm,FF	2 Combination Hose Length (feet)	Type C, Pd Press. Range psig 7816-H / 7816-L	
				25	8-15 / 7-11	
				50	10-19 / 7-11	
				100	12-21 / 7-12	
				200	17-31 / 8-16	
				300	21-36 / 10-18	
				For 7816-PD Hose Length (feet)	Press. Range psig	
				25	80 - 100	
				50	80 - 100	
				100	80 - 100	
				200	80 - 100	
				300	80 - 100	
891	3M	7817-H 7817-L 7817-PD	Rp,Fm,FF	2 Combination Hose Length (feet)	DM Type C, Pd Press. Range psig 7817-H / 7817-L	
				25	8-15 / 7-11	
				50	10-19 / 7-11	
				100	12-21 / 7-12	
				200	17-31 / 8-16	
				300	21-36 / 10-18	
				For 7817-PD Hose Length (feet)	Press. Range psig	
				25	80 - 100	
				50	80 - 100	
				100	80 - 100	
				200	80 - 100	
				300	80 - 100	
894	Racal	BE10/E	HH,PAPR	3	HRA	SO2/Cl/HCl
896	Racal	BE10/EP3	HH,PAPR	3	HRA	SO2/Cl/HCl
911	Cabot Safety	R4060AF/S4060AF R4560AF/S4560AF R5060AF/S5060AF R5560AF/S5560AF R6060AF/S6060AF R6560AF/S6560AF	Rp,Fm,ON	2	DFMR	

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
912	Cabot Safety	R7060AF/S7060AF R7760AF/S7760AF	Rp,Fm,FF	2	DFMR	
913	Cabot Safety	R7560AF S7560AFC	Rp,Fm,FF	2	DFMR	
			For S7560AFC, combination Type C, CF 3/8" I.D. Hose Length feet / Press. Range psig 25 - 75 / 17 - 25 100 - 150 / 20 - 29 175 - 225 / 23 - 32 250 - 300 / 26 - 35 1/2" I.D. Hose Length feet / Press. Range psig 25 - 75 / 14 - 22 100 - 150 / 16 - 26 175 - 225 / 18 - 29 250 - 300 / 20 - 32			
917	MSA	489798 489762 489792 489821	Rp,Fm,ON	2	DM	OV
918	MSA	489739	Rp,Bm,ON	2	DM	OV
919	MSA	489839	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet / Press. Range psig 8 - 300 / 65 - 85	DM	OV
920	MSA	489769	Rp,Bm,ON	2	DM	OV
921	MSA	489827 489831	Rp,Fm,FF	2	DM	OV
922	MSA	489835 489843*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length feet / Press. Range psig 8 - 300 / 35 - 40	DM	OV

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
923	MSA	489799 489763 489793 489822	Rp,Fm,ON	2	HA	OV
924	MSA	489770	Rp,Bm,ON	2	HA	OV
925	MSA	489740	Rp,Bm,ON	2	HA	OV
926	MSA	489828* 489832	Rp,FF,Fm	2	HA	OV
927	MSA	489836 489844*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 35 - 40	HA	OV
928	MSA	489840	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length feet: 8 - 300 Press. Range psig: 65 - 85	HA	OV
958	MSA	490040* 490060* 490080*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100	DM	OV
960	MSA	490041* 490061* 490081*	Rp,Fm,FF	2 Comb. Type C, CF Hose Length feet: 8 - 300 Press. Range psig: 85 - 100	HA	OV
966	Critical Products Group	5146S 5146M 5146L	Rp,Fm,ON	2	HA	SO2/Cl HCl
992	Cabot Safety	R7460A S7460A	Rp,Fm,FF	2		

CHEMICAL CARTRIDGES - OTHER GASES AND VAPORS - FORMALDEHYDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
993	Cabot Safety	R7460AD S7460AD	Rp,Fm,FF	2	DM	
994	Cabot Safety	R7460AF S7460AF	Rp,Fm,FF	2	DFMR	
1012	3M	5145 5245 5345	ON,Su	2	HRA	OV
1044	Willson	2106 2206 2306	Su,ON	2		SO2/Cl HCl
1045	Willson	2116 2216 2316	Su,ON	2	DM	SO2/Cl HCl
1051	Willson	2146 2246 2346	Su,ON	2	HA	SO2/Cl HCl

Powered Air Purifying Respirators

F. Powered Air Purifiers

1. Gas Masks

Approval

See approval label for specific approval information and limitations.

Limitations

For respirators evaluated and approved by MSHA under Part 18:

Not evaluated as an ignition source in flammable or explosive atmospheres by MSHA/NIOSH, except evaluated under Part 18 for use in methane air atmospheres.

For respirators not approved under Part 18:

Not evaluated as an ignition source in flammable or explosive atmospheres by MSHA/NIOSH.

Not for use in atmospheres containing less than 19.5 percent oxygen.

Not for use in atmospheres immediately dangerous to life or health.

(Tight Fitting Facepiece). Do not use if airflow is less than four cubic feet per minute.

(Loose Fitting Hoods or Helmets). Do not use if airflow is less than six cubic feet per minute.

In making renewal and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instructions and maintenance manual for additional information on use and maintenance of these respirators.

Follow the manufacturer's instructions for changing canisters.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

POWERED AIR PURIFYING GAS MASKS - OV

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
122	Racal	BE 3/A BE 7/A	PAPR	FF		

POWERED AIR PURIFYING GAS MASKS - CHLORINE

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
123	Racal	BE 3/B BE 7/B	PAPR	FF		HCl

POWERED AIR PURIFYING GAS MASKS - AMMONIA

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
132	Racal	BE 3/K BE 7/K	PAPR	FF		MA

POWERED AIR PURIFYING GAS MASKS - METHYLAMINE

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
132	Racal	BE 3/K BE 7/K	PAPR	FF		NH3

POWERED AIR PURIFYING GAS MASKS - ACID GAS

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
133	Racal	BE 3/E BE 7/E	PAPR	FF		

POWERED AIR PURIFYING GAS MASKS - HYDROGEN CHLORIDE

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
123	Racal	BE 3/B BE 7/B	PAPR	FF		Cl

2. Particulate

Approval

See approval label for specific approval information and limitations.

Limitations

For respirators evaluated and approved by MSHA under Part 18:

> Not evaluated as an ignition source in flammable or explosive atmospheres by MSHA/NIOSH, except evaluated under Part 18 for use in methane air atmospheres.

For respirators not approved under Part 18:

> Not evaluated as an ignition source in flammable or explosive atmospheres by MSHA/NIOSH.

Not for use in atmospheres containing less than 19.5 percent oxygen.

Not for use in atmospheres immediately dangerous to life or health.

(Tight Fitting Facepiece). Do not use if airflow is less than four cubic feet per minute.

(Loose Fitting Hoods or Helmets). Do not use if airflow is less than six cubic feet per minute.

In making renewal and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to aproval label and instructions and maintainence manual for additional information on use and maintenance of these respirators.

Follow the manufacturer's instructions for changing filters.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

POWERED AIR PURIFYING PARTICULATE RESPIRATORS - DUSTS AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
197	Racal	AH5	PAPR, HH	1	Z
211	Racal	AH21 AH15	PAPR, HH	1	Z
235	3M	W-325*	PAPR, HH	1	Z,AB
294	Neoterik	AB5 HH5	PAPR, HH	1	
295	Neoterik	AB6 VB6 VH6 HH6 SH6 SB6	PAPR, HH	1	
298	Racal	DM1 BR DM1 WR DM1 BL DM1 WL DM1 BRU DM1 WRU DM1 BLU DM1 WLU	PAPR, HH	1	Z
299	Racal	DM3-S DM3-U	PAPR, HH	1	Z
318	3M	W425	PAPR, HH	1	Z,AB
443	3M	W316	PAPR, HH	1	Z
444	3M	W425	PAPR, HH	1	Z,AB
478	Racal	Air-Mate 1	HH, PAPR	1	
479	Racal	Air-Mate 3	HH, PAPR	1	

POWERED AIR PURIFYING PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
136A	3M	W-250*	PAPR, HH	1	R
		W-252*			
		W-254*			
		W-260-12			
		W-260-24*			
		W-261-12 S*/M/L			
		W-261-24 S*/M*/L*			
		W-266-12			
		W-266-24*			
		W-267*			
		W-278-12			
		W-278-24*			
		W-350*			
		W-349-12			
		W-289-12			
		W-289-24*			
		W-290*			
		W-295-12*			
		W-295-24*			
		W-297*			
		W-349-24*			
137	3M	W-251*	PAPR, HH	1	AB
		W-252			
		W-265-12			
		W-265-24*			
186	MSA		PAPR,ON,FF	2	A
		463353 thru 463355			
		466607 thru 466608			
		467963 thru 467964			
		478735 thru 478736			
		480456 thru 480458			
		480067 thru 480069			
		480074 thru 480075			
		480084 thru 480086			
		480090 thru 480092			
		484110 thru 484112			
		484116 thru 484118			
		484122 thru 484124			
		484128 thru 484130			
		484134 thru 484136			
		484140 thru 484142			
		484146 thru 484148			
		484152 thru 484154			
		487867 thru 487868			
		490211 thru 490213			
		490217 thru 490219			
		490235 thru 490237			
		490241 thru 490243			
		490283 thru 490285			
		490289 thru 490291			
		490295 thru 490297			

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
186 Cont.		490301 thru 490303 490331 thru 490332			
212	Racal	AH3 AH3-1 AH3B AH3B-1 AH17 AH17-1	PAPR, HH	2	R,A
237	Racal	AC3	PAPR, HH	2	R,A
246	3M	W-344	PAPR, HH	1	A
263	Neoterik	AB4 HH4 VH4 VB4 SB4 SH4	PAPR, HH	1	R,A
269	Neoterik	GET GEE GVT GVE GST GSE	PAPR, HH	1	R,A
270	Neoterik	AB10 HH10 SB10 VB10 VH10 SH10	PAPR, HH	1	R,A
275	Racal	BE 1/P3	PAPR, HH	3	R,A
276	Racal	BE 3/P3 BE 7/P3	PAPR, FF	3	R,A
277	Racal	BE 5/P3	PAPR, HH	3	R,A
278	Racal	BE 6/P3	PAPR, HH	3	R,A

POWERED AIR PURIFYING PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
285	Neoterik	AB8 HH8 VB8 VH8 SB8 SH8	PAPR, HH	1	R,A
321	Racal	BE17/P3	PAPR, HH	3	R,A
324	Racal	BE8/P3	PAPR, ON	3	R,A
327	Neoterik	NP1562-1	PAPR, ON	3	R,A
329	Racal	BE4/P3	PAPR, HH	3	R,A
330	Neoterik	NP1664-1 NP1564-2 NP1964-1	PAPR, FF	3	R,A
353	Racal	PF/PP/7SP3	FF, PAPR	1	R,A
402	Neoterik	NP1801 NP1801-1 NP1801-2 NP1801-3 NP1801-4	PAPR,HH		R,A
403	Neoterik	NP1801-6	PAPR,ON	1	R,A
404	Neoterik	NP1801-5 NP1800	PAPR,FF	1	R,A
405	Neoterik	NP1900	PAPR,FF	3	R,A
407	Neoterik	NP1880-PD NP1880-1-PD NP1880-2-PD NP1880-3-PD NP1880-4PD NP1880-5PD NP1880-6PD	Rp,Fm,FF	2	R,A

Valve	Comb. Type C, Pd Hose Length feet	Comb. Type C, Pd Press Range psig
1840	50 - 300	10 - 26
1841	50 - 300	30 - 47
1842	50 - 300	44 - 64

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
407 Cont.			For 1/2" Hose and NP1840 Adaptor Only:		

Hose Length feet	Press. Range psig
50	7 - 11
100	8 - 13
150	9 - 15
200	10 - 16
250	11 - 17
300	12 - 18

408	Neoterik	NP1900-1-PD NP1900-2-PD NP1900-3-PD	PAPR,FF	3	R,A

Valve	Comb. Type C, Pd Air Press. psig	Comb. Type C, Pd Hose Length feet
1840	11-26	50-300
1841	30-47	50-300
1842	45-66	50-300

446	Neoterik	NP2000	FF,PAPR	2	R,A

447	Neoterik	NP2000-1PD NP2000-2PD NP2000-3PD NP2000-4PD	PAPR,FF	2	R,A

Hose Length Feet	Comb. Type C, Pd Air Pressure psig NP1840	Comb. Type C, Pd Air Pressure psig NP1841
50	10-16	40-50
100	14-20	42-52
150	15-22	44-54
200	18-24	45-55
250	19-26	47-57
300	20-26	48-58

For 1/2" Hose and NP1840 Adapter Only

Hose Length Feet	Air Pressure psig
50	7-11
100	8-13
150	9-15
200	10-16
250	11-17
300	12-18

448	Neoterik	NP2000-1 NP2000-2 NP2000-3	PAPR,FF	2	R,A

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
448 Cont.		NP2000-4			

Comb. Type C, CF

Adapter	Air Press. psig	Hose Length feet
NP1840	13-16	25-100
NP1841	50-60	25-300

For 1/2" Hose and NP1840 Adapter Only

Hose Length Feet	Air Pressure psig
50 - 150	9-11

449	Neoterik	NP1800-5 NP1800-12 NP1800-14 NP1800-15 NP1800-16	PAPR,FF	1	R,A

Comb. Type C, CF

Adapter	Air Press. psig	Hose Length feet
NP1840	12-16	25-100
NP1841	40-60	25-300

For 1/2" Hose and NP1840 Adapter Only

Hose Length Feet	Air Pressure psig
50 - 150	9-11

450	Neoterik	NP1800-6 NP1800-13	PAPR,ON	1	R,A

Comb. Type C, CF

Adapter	Air Press. psig	Hose Length feet
NP1840	12-16	25-100
NP1841	40-60	25-300

451	Neoterik	NP1800-5PD NP1800-12PD NP1800-16PD	PAPR,FF	1	R,A

Comb. Type C, Pd

Hose Length Feet	Air Pressure psig 1840	1841
50	10-16	40-50
100	14-20	42-52
150	15-22	44-54
200	18-24	45-55
250	19-26	47-57
300	20-26	48-58

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
451 Cont.			For 1/2" Hose and NP1840 Adapter Only Hose Length Feet / Air Pressure psig 50 / 7-11 100 / 8-13 150 / 9-15 200 / 10-16 250 / 11-17 300 / 12-18		
452	Willson	6483/S6483 6583/S6583 6683/S6683 6783/S6783 W6483/W6583 W6683/W6783	FF,PAPR	1	A
453	Willson	6383S/M/L/SR/MR/LR	ON,PAPR	1	A
456	3M	W415	FF,PAPR	1	A
459	Kasco	K80S-T5A/BP3	HH,PAPR	1	A
460	Neoterik	NP2100	FF,PAPR	1	R,A
461	Neoterik	NP2100-3 NP2100-4 NP2100-1 NP2100-2	FF,PAPR Type C, CF Adapter / Air Press. psig / Hose Length feet 1840 / 25-100 / 13-16 1841 / 25-300 / 50-60 For 1/2" Hose Adapter / Air Press. psig / Hose Length feet NP1840-FB / 25-100 / 9-11 NP1840-VB / 25-300 / 31-36	1	R,A
468	MSA	486365 thru 486367 486371 thru 486373	FF,Rp,PAPR	2	A

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
468 Cont.		486377 thru 486379 486383 thru 486385			
469	MSA	486368 thru 486370 486374 thru 486376 486380 thru 486382 486386 thru 486388	FF,Rp,PAPR NOT APPROVED FOR RADIONUCLIDES	2	A
470	MSA	486420 thru 486421 486425 thru 486427 486431 thru 486433 486437 thru 486439 486443 thru 486445 486449 thru 486451 486389 thru 486391 486395 thru 486397 486401 thru 486403 486407 thru 486409 486413 thru 486415 486419 486455 thru 486457 490247 thru 490249 490253 thru 490255 490259 thru 490261 490265 thru 490267 490307 thru 490309 490313 thru 490315 490319 thru 490321 490325	ON,Rp,PAPR	2	A
471	MSA	486392 thru 486394 486398 thru 486400 486404 thru 486406 486410 thru 486412 486416 thru 486418 486422 thru 486424 486428 thru 486430 486434 thru 486436 486440 thru 486442 486446 thru 486448 486458 thru 486460 490250 thru 490252 490256 thru 490258 490262 thru 490264 490268 thru 490270 490310 thru 490312 490316 thru 490318	ON,Rp,PAPR	2	A

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
471 Cont.		490322 thru 490324 490328 thru 490330			
472	MSA	486461 486463 486465 486467	HH,PAPR	2	A
473	MSA	486462 486464 486466 486468	HH,PAPR NOT APPROVED FOR RADIONUCLIDES	2	A
474	Bullard	QMPE	FF,PAPR	2	R,A
480	Racal	BE10/P3	PAPR,HH	3	R,A
481	North	9880	FF,PAPR	2	R,A
482	Neoterik	NP2100-5PD NP2100-6PD NP2100-7PD NP2100-8PD	FF,PAPR	1	R,A

Comb. Type C, PD

For 3/8" Hose

Hose Length feet	Pressure Range (psig) 1840 Adapter	1841 Adapter
50	10-16	40-46
100	14-20	42-48
150	15-22	44-50
200	18-24	45-51
250	19-26	47-53
300	20-26	48-54

For 1/2" Hose

Hose Length feet	Pressure Range (psig) 1840 Adapter	1841 Adapter
50	7-11	28-36
100	8-13	28-37
150	9-15	29-38
200	10-16	30-38
250	11-17	31-39
300	12-18	32-40

483	3M	W421/W422 W416/W417	HH,PAPR	1	A
484	Bullard	QHP	HH,PAPR	2	R,A
492	ISI	703.006.01 703.005.01	FF,PAPR	1	R,A

POWERED AIR PURIFYING PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
493	Cabot Safety	ZR500 ZS500	FF,PAPR	2	R,A
495	MSA	487843 through 487848	FF,PAPR	1	A
496	MSA	487849 487849 through 487854	FF,PAPR NOT APPROVED FOR RADIONUCLIDES	1	A
498	Pro-Tech	3601	FF,PAPR	1	A
499	Survivair	5100-00 5200-00	Fm,PAPR	1	R,A
511	Bullard	QHC	PAPR,HH Combination Type C, CF	2	R,A

Hose	Supplied Air	Length	# Hose Lengths	Adapter Hose	Pressures
V-10	QA-30	25-50	2	1/4"	17-22
V-10	QA-30	75-100	3	1/4"	23-28
V-10	QA-30	125-150	3	1/4"	26-35
V-10	QA-30	175-225	4	1/4"	32-38
V-10	QA-30	250-300	5	1/4"	35-45
V-20	QA-35	25-50	2	1/2"	8-11
V-20	QA-35	75-100	3	1/2"	9-14
V-20	QA-35	125-150	3	1/2"	11-15
V-20	QA-35	175-225	4	1/2"	13-18
V-20	QA-35	250-300	5	1/2"	15-20

512	MSA	491175 thru 491177 491181 thru 491183 491187 thru 491189 491193 thru 491195	FF,PAPR	2	A
513	MSA	491199 thru 491201 491205 thru 491207 491211 thru 491213 491217 thru 491219 491223 thru 491225 491229 thru 491231 491235 thru 491237 491241 thru 491243 491247 thru 491249	ON,PAPR	2	A

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
513 Cont.		491253 thru 491255			
		491259 thru 491261			
		491265 thru 491267			
		491271 thru 491273			
		491277 thru 491279			
		491283 thru 491285			
		491289 thru 491291			
		491303			
		491305			
		491309 thru 491311			
		491315 thru 491317			
		491321 thru 491323			
514	MSA		ON,PAPR	2	A
		491202 thru 491204			
		491208 thru 491210	NOT APPROVED FOR RADIONUCLIDES		
		491214 thru 491216			
		491220 thru 491222			
		491226 thru 491228			
		491232 thru 491234			
		491238 thru 491240			
		491244 thru 491246			
		491250 thru 491252			
		491256 thru 491258			
		491262 thru 491263			
		491269 thru 491271			
		491274 thru 491276			
		491280 thru 491282			
		491286 thru 491288			
		491292 thru 491294			
		491306 thru 491308			
		491312 thru 491314			
		491318 thru 491320			
		491324 thru 491326			
515	MSA		FF,PAPR	2	A
		491178 thru 491180			
		491184 thru 491186	NOT APPROVED FOR RADIONUCLIDES		
		491190 thru 491192			
		491196 thru 491198			
516	MSA		HH,PAPR	2	A
		491295			
		491297			
		491299			
		491301			

POWERED AIR PURIFYING PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
517	MSA	491296 491298 491300 491302	HH,PAPR	2	A
			NOT APPROVED FOR RADIONUCLIDES		
526	Glendale	GR-600-PA	ON,PAPR	2	RA
527	Glendale	GR-955-PA	FF,PAPR	2	RA
528	Pulsafe	TMR5	FF,PAPR	1	RA
530	3M	W427	FF,PAPR	1	A
531	Cabot Safety	RP7403 SP7403	FF,PAPR	2	RA
542	Hornell Speedglas	PA APC/P3	HH,PAPR	3	RA
546	Survivair	5380-00 5480-00	FF,PAPR	3	RA

3. Chemical Cartridges

Approval

See approval label for specific approval information and limitations.

Limitations

For respirators evaluated and approved by MSHA under Part 18:

> Not evaluated as an ignition source in flammable or explosive atmospheres by MSHA/NIOSH, except evaluated under Part 18 for use in methane air atmospheres.

For respirators not approved under Part 18:

> Not evaluatd as an ignition source in flammable or explosive atmospheres by MSHA/NIOSH.

Not for use in atmospheres containing less than 19.5 percent oxygen.

Not for use in atmospheres immediately dangerous to life or health.

(Tight Fitting Facepiece). Do not use if airflow is less than four cubic feet per minute.

(Loose Fitting Hoods or Helmets). Do not use if airflow is less than six cubic feet per minute.

In making renewal and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to aproval label and instructions and maintenance manual for additional information on use and maintenance of these respirators.

Follow the manufacturer's instructions for changing cartridges.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

POWERED AIR PURIFYING CHEMICAL CARTRIDGES - AMMONIA

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
589	Racal	BE 1/K	PAPR, HH	3		MA
590	Racal	BE 3/KC BE 7/KC	PAPR, FF	3		MA
591	Racal	BE 5/K	PAPR, HH	3		MA
592	Racal	BE 6/K	PAPR, HH	3		MA
612	Racal	BE8/K	PAPR, ON	3		MA
628	Neoterik	NP1562-8	PAPR, ON	3		MA
633	Racal	BE4/K	PAPR, HH	3		MA
639	Neoterik	NP1664-8 NP1564-8 NP1964-8	PAPR, FF	3		MA
641	Racal	BE1/KP3	PAPR, HH	3	HRA	MA
642	Racal	BE3/KP3 BE7/KP3	PAPR, FF	3	HRA	MA
643	Racal	BE4/KP3	PAPR, HH	3	HRA	MA
644	Racal	BE5/KP3	PAPR, HH	3	HRA	MA
645	Racal	BE6/KP3	PAPR, HH	3	HRA	MA
646	Racal	BE8/KP3	PAPR, ON	3	HRA	MA
895	Racal	BE10/K	PAPR, HH	3		MA
898	Racal	BE10/KP3	PAPR, HH	3	HRA	MA
970	Cabot Safety	ZR5054A ZS5054A	PAPR, FF	2		

POWERED AIR PURIFYING CHEMICAL CARTRIDGES - AMMONIA

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
1034	Cabot Safety	RP7454A SP7454A	FF,PAPR			

POWERED AIR PURIFYING CHEMICAL CARTRIDGES - METHYLAMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
589	Racal	BE 1/K	PAPR, HH	3		NH3
590	Racal	BE 3/KC BE 7/KC	PAPR, FF	3		NH3
591	Racal	BE 5/K	PAPR, HH	3		NH3
592	Racal	BE 6/K	PAPR, HH	3		NH3
612	Racal	BE8/K	PAPR, ON	3		NH3
628	Neoterik	NP1562-8	PAPR, ON	3		NH3
633	Racal	BE4/K	PAPR, HH	3		NH3
639	Neoterik	NP1664-8 NP1564-8 NP1964-8	PAPR, FF	3		NH3
641	Racal	BE1/KP3	PAPR, HH	3	HRA	NH3
642	Racal	BE3/KP3 BE7/KP3	PAPR, FF	3	HRA	NH3
643	Racal	BE4/KP3	PAPR, HH	3	HRA	NH3
644	Racal	BE5/KP3	PAPR, HH	3	HRA	NH3
645	Racal	BE6/KP3	PAPR, HH	3	HRA	NH3
646	Racal	BE8/KP3	PAPR, ON	3	HRA	NH3
895	Racal	BE10/K	HH, PAPR	3		NH3
898	Racal	BE10/KP3	HH, PAPR	3	HRA	NH3

POWERED AIR PURIFYING CHEMICAL CARTRIDGES - CHLORINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
479	Racal	BE 1/B	PAPR,HH	3		HCl
480	Racal	BE 5/B	PAPR,HH	3		HCl
481	Racal	BE 6/B	PAPR,HH	3		HCl
534	Racal	BE3/BC BE7/BC	PAPR, FF	3		HCl
593	Racal	BE 1/E	PAPR, HH	3		SO2/HCl CH2-O
594	Racal	BE 3/EC BE 7/EC	PAPR, FF	3		SO2/HCl CH2-O
595	Racal	BE 5/E	PAPR, HH	3		SO2/HCl CH2-O
596	Racal	BE 6/E	PAPR, HH	3		SO2/HCl CH2-O
597	Racal	BE 1/EP3	PAPR, HH	3	HRA	SO2/HCl CH2-O
598	Racal	BE 3/EP3 BE 7/EP3	PAPR, FF	3	HRA	SO2/HCl CH2-O
599	Racal	BE 5/EP3	PAPR, HH	3	HRA	SO2/HCl CH2-O
600	Racal	BE6/EP3	PAPR, HH	3	HRA	SO2/HCl CH2-O
603	Racal	BE17/P3	PAPR, HH	3	HRA	SO2/HCl CH2-O
605	Racal	BE1/AE	PAPR, HH	3		OV/SO2/HCl
606	Racal	BE3/AE BE7/AE	PAPR, FF	3		OV/SO2 HCl

POWERED AIR PURIFYING CHEMICAL CARTRIDGES - CHLORINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
607	Racal	BE5/AE	PAPR, HH	3		OV/SO2/HCl
608	Racal	BE6/AE	PAPR, HH	3		OV/SO2/HCl
610	Racal	BE8/B	PAPR, ON	3		HCl
613	Racal	BE8/E	PAPR, ON	3		SO2/HCl CH2-O
614	Racal	BE8/EP3	PAPR, ON	3	HRA	SO2/HCl CH2-O
615	Racal	BE8/AE	PAPR, ON	3		OV/SO2/HCl
626	Neoterik	NP1562-7	PAPR, ON	3		OV/SO2/HCl
627	Neoterik	NP1562-6	PAPR, ON	3		SO2/HCl
631	Racal	BE4/B	PAPR, HH	3		HCl
634	Racal	BE4/E	PAPR, HH	3		SO2/HCl
635	Racal	BE4/EP3	PAPR, HH	3	HRA	SO2/HCl
636	Racal	BE4/AE	PAPR, HH	3		OV/SO2/HCl
638	Neoterik	NP1664-7 NP1564-7 NP1964-7	PAPR, FF	3		OV/SO2 HCl
640	Neoterik	NP1664-6 NP1564-6 NP1964-6	PAPR, FF	3		SO2/HCl
647	Racal	BE3/AEP3 BE7/AEP3	PAPR, FF	3	HRA	OV/SO2 HCl
648	Racal	BE8/AEP3	PAPR, ON	3	HRA	OV/SO2/HCl

POWERED AIR PURIFYING CHEMICAL CARTRIDGES - CHLORINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
894	Racal	BE10/E	HH,PAPR	3		SO2/HCl CH2-O
896	Racal	BE10/EP3	HH,PAPR	3	HRA	SO2/HCl CH2-O
897	Racal	BE10/AE	HH,PAPR	3		SO2/HCl/OV

POWERED AIR PURIFYING CHEMICAL CARTRIDGES - HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
479	Racal	BE 1/B	PAPR,HH	3		Cl
480	Racal	BE 5/B	PAPR,HH	3		Cl
481	Racal	BE 6/B	PAPR,HH	3		Cl
534	Racal	BE3/BC BE7/BC	PAPR, FF	3		Cl
593	Racal	BE 1/E	PAPR, HH	3		SO2/Cl CH2-O
594	Racal	BE 3/EC BE 7/EC	PAPR, FF	3		SO2/Cl CH2-O
595	Racal	BE 5/E	PAPR, HH	3		SO2/Cl CH2-O
596	Racal	BE 6/E	PAPR, HH	3		SO2/Cl CH2-O
597	Racal	BE 1/EP3	PAPR, HH	3	HRA	SO2/Cl CH2-O
598	Racal	BE 3/EP3 BE 7/EP3	PAPR, FF	3	HRA	SO2/Cl CH2-O
599	Racal	BE 5/EP3	PAPR, HH	3	HRA	SO2/Cl CH2-O
600	Racal	BE6/EP3	PAPR, HH	3	HRA	SO2/Cl CH2-O
603	Racal	BE17/P3	PAPR, HH	3	HRA	SO2/Cl CH2-O
605	Racal	BE1/AE	PAPR, HH	3		OV/SO2/Cl
606	Racal	BE3/AE BE7/AE	PAPR, FF	3		OV/SO2/Cl

POWERED AIR PURIFYING CHEMICAL CARTRIDGES - HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
607	Racal	BE5/AE	PAPR, HH	3		OV/SO2/Cl
608	Racal	BE6/AE	PAPR, HH	3		OV/SO2/Cl
613	Racal	BE8/E	PAPR, ON	3		SO2/Cl CH2-O
614	Racal	BE8/EP3	PAPR, ON	3	HRA	SO2/Cl CH2-O
615	Racal	BE8/AE	PAPR, ON	3		OV/SO2/Cl
626	Neoterik	NP1562-7	PAPR, ON	3		OV/SO2/Cl
627	Neoterik	NP1562-6	PAPR, ON	3		SO2/Cl
631	Racal	BE4/B	PAPR, HH	3		Cl
634	Racal	BE4/E	PAPR, HH	3		SO2/Cl
635	Racal	BE4/EP3	PAPR, HH	3	HRA	SO2/Cl
636	Racal	BE4/AE	PAPR, HH	3		OV/SO2/Cl
638	Neoterik	NP1664-7 NP1564-7 NP1964-7	PAPR, FF	3		OV/SO2/Cl
640	Neoterik	NP1664-6 NP1564-6 NP1964-6	PAPR, FF	3		SO2/Cl
647	Racal	BE3/AEP3 BE7/AEP3	PAPR, FF	3	HRA	OV/SO2/Cl
648	Racal	BE8/AEP3	PAPR, ON	3	HRA	OV/SO2/Cl
894	Racal	BE10/E	HH, PAPR	3		SO2/Cl CH2-O

POWERED AIR PURIFYING CHEMICAL CARTRIDGES - HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
896	Racal	BE10/EP3	HH, PAPR	3	HRA	SO2/Cl CH2-O
897	Racal	BE10/AE	HH, PAPR	3		OV/SO2/Cl

POWERED AIR PURIFYING CHEMICAL CARTRIDGES - SULFUR DIOXIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
593	Racal	BE 1/E	PAPR, HH	3		HCl/Cl CH2-O
594	Racal	BE 3/EC BE 7/EC	PAPR, FF	3		HCl/Cl CH2-O
595	Racal	BE 5/E	PAPR, HH	3		HCl/Cl CH2-O
596	Racal	BE 6/E	PAPR, HH	3		HCl/Cl CH2-O
597	Racal	BE 1/EP3	PAPR, HH	3	HRA	HCl/Cl CH2-O
598	Racal	BE 3/EP3 BE 7/EP3	PAPR, FF	3	HRA	HCl/Cl CH2-O
599	Racal	BE 5/EP3	PAPR, HH	3	HRA	HCl/Cl CH2-O
600	Racal	BE6/EP3	PAPR, HH	3	HRA	HCl/Cl CH2-O
603	Racal	BE17/EP3	PAPR, HH	3	HRA	HCl/Cl CH2-O
605	Racal	BE1/AE	PAPR, HH	3		OV/HCl/Cl
606	Racal	BE3/AE BE7/AE	PAPR, FF	3		OV/HCl/Cl
607	Racal	BE5/AE	PAPR, HH	3		OV/HCl/Cl
608	Racal	BE6/AE	PAPR, HH	3		OV/HCl/Cl
613	Racal	BE8/E	PAPR, ON	3		HCl/Cl CH2-O

POWERED AIR PURIFYING CHEMICAL CARTRIDGES - SULFUR DIOXIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
614	Racal	BE8/EP3	PAPR, ON	3	HRA	HCl/Cl CH2-O
615	Racal	BE8/AE	PAPR, ON	3		OV/HCl/Cl
626	Neoterik	NP1562-7	PAPR, ON	3		OV/HCl/Cl
627	Neoterik	NP1562-6	PAPR, ON	3		HCl/Cl
634	Racal	BE4/E	PAPR, HH	3		HCl/Cl
635	Racal	BE4/EP3	PAPR, HH	3	HRA	HCl/Cl
636	Racal	BE4/AE	PAPR, HH	3		OV/HCl/Cl
638	Neoterik	NP1664-7 NP1564-7 NP1964-7	PAPR, FF	3		OV/HCl/Cl
640	Neoterik	NP1664-6 NP1564-6 NP1964-6	PAPR, FF	3		HCl/Cl
647	Racal	BE3/AEP3 BE7/AEP3	PAPR, FF	3	HRA	OV/HCl/Cl
648	Racal	BE8/AEP3	PAPR, ON	3	HRA	OV/HCl/Cl
894	Racal	BE10/E	HH,PAPR	3		Cl/HCl CH2-O
896	Racal	BE10/EP3	HH,PAPR	3	HRA	Cl/HCl CH2-O
897	Racal	BE10/AE	HH,PAPR	3		OV/Cl/HCl

POWERED AIR PURIFYING CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
1023	Racal	BE1/AEP3	HH/PAPR	3	HRA	OV
1024	Racal	BE5/AEP3	HH/PAPR	3	HRA	OV
1025	Racal	BE6/AEP3	HH/PAPR	3	HRA	OV
1026	Racal	BE10/AEP3	HH/PAPR	3	HRA	OV
1027	Racal	BE17/AEP3	HH/PAPR	3	HRA	OV
1037	Racal	PF/AEC	FF/PAPR	1		OV
1053	Survivair	5383-00 5483-00	FF,PAPR	3	HRA	OV

POWERED AIR PURIFYING CHEMICAL CARTRIDGES - ORGANIC VAPORS

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
476	Racal	BE 1/A	PAPR, H/H	3		
477	Racal	BE 5/A	PAPR, H/H	3		
478	Racal	BE 6/A	PAPR, H/H	3		
482	Racal	BE 1/AP3	PAPR, H/H	3	HRA	Pest
483	Racal	BE 3/AP3 BE 7/AP3	PAPR, FF	3	HRA	Pest
484	Racal	BE 5/AP3	PAPR, HH	3	HRA	Pest
485	Racal	BE 6/AP3	PAPR, HH	3	HRA	Pest
535	Racal	BE3/AC BE7/AC	PAPR, FF	3		
602	Racal	BE17/AP3	PAPR, HH	3	HRA	Pest
605	Racal	BE1/AE	PAPR, HH	3		SO2/HCl/Cl
606	Racal	BE3/AE BE7/AE	PAPR, FF	3		SO2/HCl/Cl
607	Racal	BE5/AE	PAPR, HH	3		SO2/HCl/Cl
608	Racal	BE6/AE	PAPR, HH	3		SO2/HCl/Cl
611	Racal	BE8/AP3	PAPR, ON	3	HRA	Pest
615	Racal	BE8/AE	PAPR, ON	3		SO2/HCl/Cl
625	Neoterik	NP1562-5	PAPR, ON	3		
626	Neoterik	NP1562-7	PAPR, ON	3		SO2/HCl/Cl

POWERED AIR PURIFYING CHEMICAL CARTRIDGES - ORGANIC VAPORS

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
630	Racal	BE4/A	PAPR, HH	3		
632	Racal	BE4/AP3	PAPR, HH	3	HRA	Pest
636	Racal	BE4/AE	PAPR, HH	3		SO2/HCl/Cl
637	Neoterik	NP1664-5 NP1564-5 NP1964-5	PAPR, FF	3		
638	Neoterik	NP1664-7 NP1564-7 NP1964-7	PAPR, FF	3		SO2/HCl/Cl
647	Racal	BE3/AEP3 BE7/AEP3	PAPR, FF	3	HRA	SO2/HCl/Cl
648	Racal	BE8/AEP3	PAPR, ON	3	HRA	SO2/HCl/Cl
892	Racal	BE10/A	HH, PAPR	3		
893	Racal	BE10/AP3	HH, PAPR	3	HRA	Pest
897	Racal	BE10/AE	HH, PAPR	3		SO2/Cl/HCl
969	Cabot Safety	ZR5051A ZS5051A	FF,Rp,Bm	2		
1023	Racal	BE1/AEP3	HH/PAPR	3	HRA	SO2/Cl/HCl
1024	Racal	BE5/AEP3	HH/PAPR	3	HRA	SO2/Cl/HCl
1025	Racal	BE6/AEP3	HH/PAPR	3	HRA	SO2/Cl/HCl
1026	Racal	BE10/AEP3	HH/PAPR	3	HRA	SO2/Cl/HCl
1027	Racal	BE17/AEP3	HH/PAPR	3	HRA	SO2/Cl/HCl

POWERED AIR PURIFYING CHEMICAL CARTRIDGES - ORGANIC VAPORS

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
1033	Cabot Safety	RP7451A SP7451A	FF,PAPR			
1035	Hornell Speedglas	PA APC/AP3	HH,PAPR	3	HRA	Pest
1036	Racal	PF/AC	FF,PAPR	1		
1037	Racal	PF/AEC	FF,PAPR	1		SO2/Cl HCl
1047	Survivair	5301-00 5401-00	FF,PAPR	3		
1052	Survivair	5381-00 5481-00	FF,PAPR	3	HRA	
1053	Survivair	5383-00 5483-00	FF,PAPR	3	HRA	SO2/Cl HCl

POWERED AIR PURIFYING CHEMICAL CARTRIDGES - PESTICIDES

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
482	Racal	BE 1/AP3	PAPR, H/H	3	HRA	OV
483	Racal	BE 3/AP3 BE 7/AP3	PAPR, FF	3	HRA	OV
484	Racal	BE 5/AP3	PAPR, HH	3	HRA	OV
485	Racal	BE 6/AP3	PAPR, HH	3	HRA	OV
602	Racal	BE17/AP3	PAPR, HH	3	HRA	OV
611	Racal	BE8/AP3	PAPR, ON	3	HRA	OV
632	Racal	BE4/AP3	PAPR, HH	3	HRA	OV
682	Kasco	K80S-T4	HH,PAPR	3	HA	
767	Kasco	K80S-T5N BP 3-2 K80E-T5N/BP3	PAPR,HH	3		
893	Racal	BE10/AP3	HH, PAPR	3	HRA	OV
1003	Spring Protezione s.r.l.	2100	HH,PAPR	3		
1035	Hornell Speedglas	PA APC/AP3	HH,PAPR	3	HRA	OV

POWERED AIR PURIFYING CHEMICAL CARTRIDGES - FORMALDEHYDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
593	Racal	BE1/E	HH,PAPR	3		SO2/Cl/HCl
594	Racal	BE3/EC BE7/EC	FF,PAPR	3		SO2/Cl/HCl
595	Racal	BE5/E	HH,PAPR	3		SO2/Cl/HCl
596	Racal	BE6/E	HH,PAPR	3		SO2/Cl/HCl
597	Racal	BE1/EP3	HH,PAPR	3	HRA	SO2/Cl/HCl
598	Racal	BE3/EP3 BE7/EP3	FF,PAPR	3	HRA	SO2/Cl/HCl
599	Racal	BE5/EP3	HH,PAPR	3	HRA	SO2/Cl/HCl
600	Racal	BE6/EP3	HH,PAPR	3	HRA	SO2/Cl/HCl
603	Racal	BE17/EP3	HH,PAPR	3	HRA	SO2/Cl/HCl
613	Racal	BE8/E	ON,PAPR	3		SO2/Cl/HCl
614	Racal	BE8/EP3	ON,PAPR	3	HRA	SO2/Cl/HCl
894	Racal	BE10/E	HH,PAPR	3		SO2/Cl/HCl
896	Racal	BE10/EP3	HH,PAPR	3	HRA	SO2/Cl/HCl

Vinyl Chloride Respirators (11)

G. Vinyl Chloride

Approval

Approved as respiratory protection against 10 parts per million vinyl chloride.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow the manufacturer's instruction for changing sorbent element.

This respirator shall be carefully fitted to the wearer's face before use, in accordance with the manufacturer's facepiece fitting instructions.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

VINYL CHLORIDE RESPIRATORS

Approval Number TC-11-	Approval Issued to	Model Number(s)	Respirator Type	Face-piece Type
1	Scott	601460-01 601460-03 601460-11 601460-13	Bm	ON

NAMES AND ADDRESSES OF MANUFACTURERS AND DISTRIBUTORS

A-BEC Industries
1864 Vanderhorn Drive
Memphis, TN 38134

Ace Enterprises
820 Northwest 144th St.
Miami, FL 33168

Acme Automotive Finishes
101 Prospect Ave.
Cleveland, OH 44115

Air Components and Equipment, Inc.
P.O. Box 16988
Tampa, FL 33687

Air-Tek Development Co.
P.O. Box 66, Highway No. 37
Hibbing, MN 55746

Airolife Safety, Inc.
1601 E. 361st Street
Eastlake, Ohio 44094

Akron Safety Equipment, Inc.
Montreal, Quebec, Canada

Anderson Manufacturing Co.
1014 Fox Chase Road
Rockledge, PA 19111

Auergesellschaft GMBH
1000 Berlin 65 (West)
Friedrich - Krause - Ufer 24

Balkamp Incorporated
Indianapolis, IN 46241

Binks Manufacturing Co.
9201 W. Belmont Ave.
Franklin Park, IL 60131

Biomarine Inc.
45 Great Valley Parkway
Malvern, PA 19355-1393

Biosystems, Inc.
P. O. Box D
Rockfall, CT 06481

Bowen Tools, Inc.
P.O. Box 3186
Houston, TX 77001

Breathing Systems, Inc.
15700-F Export Plaza
Houston, TX 77032

Bullard, E. D., Co.
Hwy. 356, White Oak Pike
Rt. 7, Box 596
Cynthiana, KY 41031-0187

Cabot Safety Corporation
(formerly American Optical)
90 Mechanic Street
Southbridge, MA 01550

Canadian Technical Tape
455 Cote Vertu Rd.
Montreal H4N 1EB, CANADA

Cesco Safety Products
A Div. of Parmelee Industries, Inc.
P.O. Box 15965
Lenexa, KS 66215-5965

Clark Sand Company, Inc.
P.O. Box 4267
No. Erhmann Street
Pensacola, FL 32507

Clemco Industries
1950 Elkhorn Court
San Mateo, CA 94120

Clemco Industries
3938 Swinnea Road
Memphis, TN 38118

Clemtex, Ltd.
248 McCarthy Drive
Houston, TX 77020

Critical Products Group
4815 Gulf Freeway
Houston, TX 77023

CSE Corporation
600 Seco Road
Monroeville, PA 15146

Dan Am (SATA)
Highway 16-63 North
Spring Valley, MN 55975

Defense Apparel
247 Addison Road
Windsor, CT 06095

Def-Tec Corporation
Rock Creek, OH

DeVilbiss Company
300 Phillips Ave.
P.O. Box 913
Toledo, OH 43692

Dragerwerk, AG
D-24 Luebeck 1
Postfach 1339
2400 Luebeck 1
West Germany

Dual Safe Life Support Systems, Inc.
P.O. Box 873
2315 West Main Street
Baytown, Texas 77520

E. I. DuPont deNemours & Co.
Wilmington, DE 19898

Eastern Safety Equipment Co.
45-17 Pearson St.
Long Island City, NY 11101

Empire Abrasive Equipment Corp.
990 Gantry Road
Philadelphia, PA 19115

Encon Manufacturing Co.
13333 Northwest Freeway
P.O. Box 3826
Houston, TX 77007

Fiber-Metal, P.O. Box 248
Concordville, PA 19331

Louis M. Gerson Company
15 Sproat Street
Middleboro, MA 02346

Glendale Protective Technologies
Inc.
130 Crossways Park Drive
Woodbury, NY 11797

Hornell Speedglas Inc.
2374 Edison Boulevard
Twinsburg, OH 44087-2340

International Safety Devices
16717 Smoketree Street
Hesperia, CA 92345

International Safety
Instruments, Inc.
P.O. Box 846
Lawrenceville, GA 30246-0846

Interspiro USA, Inc.
11 Business Park Drive
Branford, CT 06405

Jackson Products
5801 Safety Drive
Belmot, MI 49306

Kasco Inc.
Via Romania 12
42100 Reggio Emilia
ITALY

Kelco Sales & Engineering Co.
P.O. Box 422
Norwalk, CA 90650

Key Houston, Inc.
13911 Atlanta Blvd.
Jacksonville, FL 32225

Koken, Ltd.
7, Yonbancho, Chiyoda-Ku
Tokyo, 102 JAPAN

Lab Safety Supply
P.O. Box 1368
Janesville, WI 53547-1368

Lancs Industries, Inc.
12704 NE 124th St.
Kirkland, WA 98003-4091

Mafter Inc.
8111 Edison
Ville d'Anjou MTI
Quebec, Canada H1J LS9

The Marthens Company
1044 S. Dittmer Street
Davenport, IA 52802

Masprot S.C. eI. & CIA LTDA.
Walker Martinez, Nº 5558
(Par. 13G. Av.)
San Miguel - Santiago
CHILE

Mine Safety Appliances Co.
P.O. Box 439
Pittsburgh, PA 15230

Mohawk Industrial Supply Company
5 Glen Road
Manchester, CT 06040-6707

Moldex-Metrics Inc.
4671 Leahy Street
Culver City, CA 90230

3M Company
3M Center
Building 260-03-02
St. Paul, MN 55144

National Draeger, Inc.
101 Technology Drive
P.O. Box 120
Pittsburgh, PA 15230

National Mine Service
600 N. Bell Ave.
Bldg. 2, Ste. 110
Carnegie, PA 15106

Neoterik Health Tech., Inc.
P.O. Box 128
Woodsboro, MD 21798

New England Thermoplastics
15 Union Street, Stone Mill
P.O. Box 490
Lawrence, MA 01842-1090

North Safety Equipment
A Div. of Siebe North, Inc.
2000 Plainfield Pike
Cranston, RI 02920

Northcott Products Co.
1826 W. Diversey Parkway
Chicago, IL 60614

Northstar Manufacturing Company, Inc.
330 Powell Road, Suite 5
Spring, Texas 77373

Nuclear Power Outfitters
P.O. Box 84
Crystal Lake, IL 60014

Ocenco, Inc.
P.O. Box 8
Route 22, East
Blairsville, PA 15717

O-Two Systems International
7575 Kimbel Street
Mississauga, Ontario
CANADA L5S 1C8

Parmelee Industries, Inc.
P.O. Box 15965
Lenexa, KS 66215-5965

Pauli & Griffin
137 Utah Ave.
South San Francisco, CA 94080

Industrie Pirelli
Azienda Articoli Vari Roma
Via di Torrespaccata 140, 00169
Rome, Italy

Porter Warner Industries
3819 Dorris Street
P.O. Box 2158
Chattanooga, TN 37409

Power Master, Inc.
1015 Raymond Street
Gonzales, LA 70737

Pro-Tech Respirators, Inc.
107 East Alexander St.
P.O. Box 192
Buchanan, MI 49107

Pulmosan Protective Equipment Corp.
P.O. Box 622
Reading, PA 19603

Pulsafe Safety Products
Holmethorpe Avenue
Redhill, Surrey
ENGLAND RH1 2PA

Racal Health and Safety, Inc.
7305 Executive Way
Frederick, MD 21701-8354

Racal Panorama, Inc.
(formerly Globe Safety Equipment)
109 Webb Street
Dayton, OH 45
403-1144

Respiratory Systems
18102-J Sky Park South
Irvine, CA 92714

Rexnord Electronic Products, Inc.
(See Biomarine, Inc.)

Safe-Tex
Toronto, Ontario
CANADA

Safety and Supply Co.
5510 East Marginal Way South
Seattle, WA 98134

Safety Supply Co.
Toronto, Ontario
Canada

Safety Products Limited
Holmethorpe Avenue, Redhill
Surrey RH1 2PA
UNITED KINGDOM

Schmidt Manufacturing Inc.
14400 Almeda Road
P.O. Box 45857
Houston, TX 77045

Scott Aviation
A Figgie International Company
225 Erie Street
Lancaster, NY 14086

Sellstrom Manufacturing Co.
59 E. Van Buren St.
Chicago, IL 60605

Shoplyne Safety Products
Cleveland, Ohio 44107

Siebe-Norton Safety Products
2000 Plainfield Pike
Cranston, RI 02920

Siebe Gorman, Ltd.
Avondale Way
Cwmbran, Gwent, Wales
NP4, 1YR, Chessington Surrey
Great Britain

Spring Protezione s.r.l.
Via Maremagna, 5
41058 Vignola (Modena)
ITALY

Standard Safety Equipment Corp.
431 N. Quentin Road
P.O. Box 188
Palatine, IL 60067

Stewart-Warner
Chicago, IL

Sulliblast
Division of Sullair, Inc.
105 Lauren Drive
Belle Chase, LA 70037

Supplied Air Monitoring Systems
415 W. House Street
Alvin, TX 77511

Survivair
A Division of Comasec Inc.
3001 S. Susan Ave.
Santa Ana, CA 92704

Titan Abrasive Systems, Inc.
P.O. Box 3
Furlong, PA 18925

Trusafe, Inc.
9369 8th Avenue South
Seattle, WA 98108

United States Safety Service
A Div. of Parmelee Industries, Inc.
P.O. Box 15965
Lenexa, KS 66215-5965

Vortec Corporation
10125 Carver Road
Cincinnati, OH 45242

Willson Safety Products
P.O. Box 622
Reading, PA 19603-0622

Zee Medical Products Co.
Irvine, CA 92714

A P P E N D I X

Appendix: NIOSH RESPIRATOR PROBLEM INVESTIGATION

NIOSH receives reports of problems with MSHA/NIOSH-certified respirators from end-users, regulatory agencies (Federal, state, local), labor unions, the NIOSH Post-Certification Audit Program, and from the respirator manufacturers themselves. The manufacturers have shown an increased willingness to accept the need to recall and correct defective respirators. When necessary, NIOSH will issue respirator user's notices in cases of extreme urgency or whenever a manufacturer cannot effectively reach the applicable respirator users.

Respirator users are encouraged to work with respirator manufacturers, in an effort to resolve future problems. NIOSH, when advised of such problems, will monitor the manufacturers' investigations and corrective actions.

In recent audits of certified respirators, NIOSH has found repeated failure of the manufacturers to properly mark the respirator components. These markings are specified on the certification label for each respirator. Although this nonconformance to the certification requirements is not serious, the markings are necessary for NIOSH to assure that respirators are properly assembled, if defects are found. NIOSH requests, therefore, reports from users on mis-marked or unmarked respirator component parts.

The following is an up-to-date list of the names and addresses of persons responsible for investigation of problems with MSHA/NIOSH-certified respirators:

Mr. Josef Bartos
Airolife Safety Incorporated
1601 E. 361st Street
Eastlake, OH 44094

Mr. Mark Theno
Air-Tek Development Company
P. O. Box 66, Highway 37
Hibbing, MN 55746

Mr. Raymond O. Day
Mr. Robert Meyer
Binks Manufacturing Co.
9201 W. Belmont Ave.
Franklin Park, IL 60131

Mr. Brian Smith
Biomarine Inc.
45 Great Valley Parkway
Malvern, PA 19355-1393

Mr. Mike G. Flood
Breathing Systems, Inc.
15700-F Export Plaza
Houston, TX 77032

Mr. Michael Napolitano
E. D. Bullard Company
Rt. 7, Box 596
Hwy. 356, White Oak Pike
Cynthiana, KY 41031-0187

Mr. Joseph Zdrok
Cabot Safety Corporation
90 Mechanic Street
Southbridge, MA 01550

Mr. Harmut Holzbaur
Canadian Technical Tape
455 Cote Vertu Road
Montreal, Quebec
CANADA H4N 1E8

Mr. Marc Cooper
Cesco Safety Products
A Div. of Parmelee, Inc.
P.O. Box 15965
Lenexa, KS 66215-5965

Mr. S. B. Shearer
CSE Corporation
600 Seco Road
Monroeville, PA 15146

Mr. Carl M. Fink
Defense Apparel
285 Murphy Road
Hartford, CT 06114

Dr. Helmut Sieber
Dragerwerk AG Lubeck
Postfach 1339
2400 Lubeck 1
FEDERAL REPUBLIC OF GERMANY

Mr. Steven R. Schieni
Dual Safe Life Support Systems, Inc.
P.O. Box 873
Bay Town, TX 77520

Mr. Willie Yung
Louis M. Gerson Company
15 Sproat Street
Middleboro, MA 02346

Mr. Jay A. Parker
Glendale Protective Technologies
130 Crossways Park Drive
Woodbury, NY 11797

Mr. Dale Pfreim
Hornell Speedglas Inc.
2374 Edison Boulevard
Twinsburg, OH 44087-2340

Ms. Pat McCauley
International Safety Devices
16717 Smoketree Street
Hesperia, CA 92345

Mr. Doug Bennett
International Safety Instruments
P.O. Box 846
Lawrenceville, GA 30246-0846

Mr. Hans Almqvist
Interspiro/AGA Corporation
11 Business Park Drive
Branford, CT 06405

Mr. Alberto Iotti
Kasco
Via Romania 12
42100 Reggio Emilia
ITALY

Mr. Kevin Bylin
Lancs Industries
12704 N. E. 124th Street
Kirkland, WA 98033-4091

Mr. Donald P. Wilmes
3M Company 3M Center
Building 260-03-02
St. Paul, MN 55144

Mr. Carlos E. Lean
Masprot S.C. eI. & CIA LTDA.
Walker Martinez, No 5558
(Par.13G. Av.) San Miguel
Santiago, CHILE

Mr. Charles J. Seibel, Jr.
Mine Safety Appliances Company
P.O. Box 439
Pittsburgh, Pennsylvania 15230

Mr. Ronald Ring
Mine Safety Appliances Company
Instruments Division
P.O. Box 427
Pittsburgh, PA 15230

Mr. Himat Tank
Moldex/Metrics, Inc.
4671 Leahy Street
Culver City, CA 90230

Mr. Richard Weaver
National Draeger, Inc.
P. O. Box 120
Pittsburgh, PA 15230

Mr. Ray Helfrich
National Mine Service Company
600 N. Bell Ave., Bldg. 2, Ste 110
Carnegie, PA 15106

Mr. Jim Wiggins
Neoterik Health Tech., Inc.
P.O. Box 128
Woodsboro, MD 21798

Mr. John A. Constantineau
New England Thermoplastics
15 Union Street-Stone Mill
P.O. Box 490
Lawrence, MA 01842-1090

Mr. William E. Newcomb
North Safety Equipment
2000 Plainfield Pike
Cranston, RI 02920

Mr. Don Davis
Northstar Manufacturing Co., Inc.
330 Powell Road, Suite 5
Spring, TX 77373

Mr. Earl B. Jacobson
Nuclear Power Outfitters
PO Box 84
Crystal Lake, IL 60014

Mr. Pat Droppleman
Ocenco, Incorporated
400 Academy Drive
Northbrook, IL 60062

Mr. Peter Yuen
O-Two Systems International
7575 Kimbel Street
Mississauga, Ontario
CANADA L5S 1C8

Mr. Ing G. Cappa
Sekur S.P.A. - Pirelli Group
Via di Torrespaccata, 140
00169 Roma
ITALY

Mr. Mike Weaver
Power Master, Inc.
1015 Raymond Street
Gonzales, LA 70737

Mr. W. F. Moon
Pro-Tech Respirators, Inc.
107 East Alexander St.
Buchanan, MI 49107

Mr. David Koch
Pulmosan Protective Equipment Corp.
P.O. Box 622
Reading, PA 19603

Dr. David Yelland
Pulsafe Safety Products
Holmethorpe Avenue
Redhill, Surrey
ENGLAND RH1 2PA

Mr. Donald Burd
Racal Health and Safety Inc.
7305 Executive Way
Frederick, MD 21701-8354

Mr. David L. Brockman
Racal Panorama, Inc.
109 Webb Street
P.O. Box 1422
Dayton, OH 45403-1145

Mr. Tony Sparks
Respiratory Systems
18102-J Sky Park South
Irvine, CA 92714

Mr. Ian V. Maxwell
Sabre Safety, Ltd.
Ash Road, Aldershot
Hampshire, GU12 4DD
England

Mr. Ross Kusian
Safety and Supply Co.
5510 East Marginal Way South
Seattle, WA 98134

Mr. Robert Brennan
Scott Aviation
A Figgie International Co.
225 Erie Street
Lancaster, NY 14086

Mr. Simon Kugler
Siebe Gorman, Ltd.
Avondale Way, Cwmbran
Gwent, Wales
GREAT BRITAIN NP4 1YR

Mr. Roli Franco
Spring Protezione s.r.l.
Via Maremagna, 5
41058 Vignola (Modena)
ITALY

Mr. Doug Barnhart
Standard Safety Equipment Corp.
P.O. Box 188
Palatine, IL 60067

Mr. Merlin Hoisegh
Supplied Air Monitoring Systems
415 W. House Street
Alvin, TX 77511

Dr. Richard Stein
Survivair
A Division of Comasec Inc.
3001 S. Susan Street
Santa Ana, CA 92704

Mr. Marc Cooper
U.S. Safety
A Div. of Parmelee, Inc.
P.O. Box 15965
Lenexa, KS 66215-5965

Mr. David Koch
Willson Safety Products
PO Box 622
Reading, PA 19603

National Institute for Occupational Safety and Health

Respirator Problem Coordinator
Division of Safety Research
Certification and Quality Assurance Branch
NIOSH,CDC,PHS,HHS
944 Chestnut Ridge Road, MS S-105
Morgantown, WV 26505-2888
(304)291-4864
FTS 923-4864

THE FOLLOWING USERS' NOTICES HAVE BEEN ISSUED BY NIOSH SINCE JANUARY 1, 1990:

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Centers for Disease Control
National Institute for Occupational
Safety and Health – ALOSH
944 Chestnut Ridge Road
Morgantown, WV 26505-2888

RESPIRATOR USER'S NOTICE

Effects of Heat and Flames on Harness Straps of Self-Contained Breathing Apparatus

January 22, 1990

On December 16, 1983, the National Institute for Occupational Safety and Health (NIOSH) issued a Respirator User's Notice entitled, "Effects of Heat and Flames on Rubber and Plastic Parts of Self-Contained Breathing Apparatus". This notice informed users that newly developed turnout gear permitted fire fighters to enter and remain in higher temperature and flame exposure and that these higher temperatures and flame exposure could apparently damage some presently-used parts of self-contained breathing apparatus (SCBA). The notice further requested that reports on incidents of heat and flame damage of SCBA be sent to us.

NIOSH has recently received a letter from the International Association of Fire Chiefs (IAFC) which indicates that the use of thermoplastic straps, such as nylon, with self-contained breathing apparatus continues to contribute to injury and fatalities of fire service personnel.

In 1987, the National Fire Protection Association (NFPA) published the standard "Open-Circuit Self-Contained Breathing Apparatus for Fire Fighters" (NFPA 1981 Standard). This standard includes many test criteria specific to breathing apparatus used in the fire service. It permits the manufacturer to design, construct, and test SCBA to these criteria and certify their compliance to this Standard. In part, the harness strap fabric and thread must meet flame and heat resistance criteria. Subsequently, many SCBA manufacturers have submitted components complying with the NFPA Standard and have received NIOSH approval for use of these components with their approved apparatus.

Replacement of the thermoplastic straps with the new flame and heat resistant straps meeting the NFPA 1981 Standard as well as the NIOSH 30 CFR Part 11 standard is recommended by NIOSH for usage in environments with exposure to flames and high temperatures such as fire fighting. Contact the distributor from whom you purchased your specific make of SCBA to obtain information on the availability, component part number(s) and price of the necessary replacement parts.

The thermoplastic type harness straps are still approved by NIOSH. These straps may be more desirable under certain circumstances since they are more effective in industrial applications involving compatibility with chemical substances.

NIOSH has included a high temperature harness test requirement for apparatus used in the fire service in the Notice of Proposed Rulemaking published August 27, 1987, as 42 CFR Part 84 - Revision of Tests and Requirements for Certification of Respiratory Protective Devices. Hopefully, the final regulation will help address some of the problems with fire fighters' SCBA.

Sincerely yours,

Alfred A. Amendola

Alfred A. Amendola, Ph.D., P.E.
Acting Director
Division of Safety Research

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Centers for Disease Control
National Institute for Occupational
Safety and Health – ALOSH
944 Chestnut Ridge Road
Morgantown, WV 26505-2888

RESPIRATOR INFORMATION NOTICE

on

CHEMICAL CARTRIDGE RESPIRATORS

February 26, 1990

In 1972, the National Institute for Occupational Safety and Health (NIOSH) and the Bureau of Mines (BOM) initiated the respirator certification program conducted under Part 11 of Title 30 Code of Federal Regulations (30 CFR Part 11). Currently, NIOSH and the Mine Safety and Health Administration (MSHA) jointly certify respirators that meet the requirements of 30 CFR Part 11. These regulations provide a description of chemical cartridge respirators that include maximum use concentrations (MUCs) for certified cartridges (Section 11.150). These maximum use concentrations are based on the acceptable exposure limits at the time 30 CFR Part 11 was promulgated. They were calculated by multiplying the assigned protection factor of 10 for half mask chemical cartridge respirators by the exposure limit accepted in 1972 for each specific contaminant. Although not specifically required in 30 CFR Part 11, NIOSH has included these maximum use concentrations on all chemical cartridge approval labels.

OSHA recently revised the permissible exposure limits (PELs) for 212 substances and established permissible exposure limits for an additional 164 substances (Air Contaminants Standard, 29 CFR 1910.1000). The revised permissible exposure limits affect the maximum use concentrations for three of the substances listed in 30 CFR Part 11 (ammonia, chlorine, and sulfur dioxide). Compliance with the new permissible exposure limits became mandatory on September 1, 1989. Other regulatory agencies have established exposure limits that vary from the new OSHA permissible exposure limits. Future standards may further revise acceptable exposure limits. Thus, NIOSH has decided to eliminate maximum use concentrations from chemical cartridge approval letters and labels.

NIOSH has sent a letter to all manufacturers of MSHA/NIOSH-certified chemical cartridge respirators requesting a modification to approval labels and user instructions. However, respirator and cartridge labels and instructions with the old maximum use concentrations are already in use. Therefore, NIOSH is advising that all users of chemical cartridge respirators of the change in maximum use concentrations.

The following table lists substances for which OSHA does not have specific substance standards and for which NIOSH has specifically certified chemical cartridges. This table only applies to respirator users who are covered by OSHA regulations.

Substance	Current OSHA PEL	Maximum Use Concentrations Half Mask	Full Facepiece
Ammonia	35 ppm	350.0 ppm$^{\phi}$	500.0 ppm*
Chlorine	.5 ppm	5.0 ppm	25.0 ppm
Chlorine dioxide	.1 ppm	1.0 ppm	5.0 ppm
Hydrogen chloride	5 ppm	50.0 ppm	100.0 ppm*
Hydrogen Sulfide (escape only)	10 ppm	100.0 ppm	300.0 ppm*
Mercury	.1 mg/m^3	1.0 mg/m^3	5.0 mg/m^3
Monomethylamine	10 ppm	20 ppm^{+}	100.0 ppm*
Sulfur dioxide	2 ppm	20.0 ppm	100.0 ppm

ϕ NIOSH REL is 25 ppm. Maximum use concentration recommended by NIOSH for half masks is 250 ppm.

* MUC based on immediately dangerous to life and health concentration.

\+ MUC based on eye irritation level.

If you are covered by a regulatory agency other than OSHA or if your workplace has contaminants other than those listed in the table, you must review specific substance standards to determine which respirators are permitted by your regulatory agency. If there is no standard which specifically addresses which respirators can be used for protection against the contaminants used in your workplace, then determine the exposure limit established by the applicable regulatory standards or the recommended exposure limit (REL) established by NIOSH for all substances in your workplace. Then use the NIOSH Respirator Decision Logic [DHHS (NIOSH) Publication No. 87-108] to determine which classes of respirators can provide adequate protection. Where chemical cartridge respirators can be used, calculate the maximum use concentrations based on the applicable exposure limits. For example, OSHA and MSHA currently accept an assigned protection factor of 10 for half mask respirators. Therefore, the maximum use concentrations for half mask chemical cartridge respirators should never exceed 10 times the exposure limit (e.g., OSHA or MSHA permissible exposure limits, NIOSH recommended exposure limit). All other respirator selection criteria remain unchanged.

Sincerely yours,

Thomas R. Bender, M.D., M.P.H.
Director
Division of Safety Research

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Centers for Disease Control
National Institute for Occupational
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944 Chestnut Ridge Road
Morgantown, WV 26505-2888

RESPIRATOR USER'S NOTICE

Problem with the Draeger OXY-SR60B

October 11, 1990

The Mine Safety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH) have become aware of a problem with the Draeger OXY-SR60B self-contained self-rescuers (SCSR). In some of these units, the inside walls of the corrugated hoses were stuck together in varying degrees, thereby restricting or preventing the flow of oxygen supplied by the device.

MSHA and NIOSH advise users to either:

1) *return the Draeger OXY-SR60B to Draeger/National Mine Service for a refurbishment of the SCSR, or*

2) *replace their SCSR's with new MSHA/NIOSH-approved units.*

A method of opening the stuck corrugated hose has been developed that can be used during the interim period while refurbishment or replacement is taking place. Information on this method will be forthcoming from Draeger and additional training information will be supplied by MSHA. The refurbishment of these SCSR's and the training are essential in view of the potential for serious injury of miners who encounter a stuck corrugated hose on their SCSR during a mine emergency.

To comply with Federal Regulations, all OXY-SR60B in service must be retrofitted or replaced. An MSHA Program Policy Letter is being prepared which will supply further information to the mining industry on compliance requirements.

Sincerely yours,

John C Petrus

for Richard W. Metzler, Chief
Quality Assurance Division
Approval and Certification Center
MSHA

Alfred A Amendola

for Thomas R. Bender, M.D., M.P.H.
Director
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NIOSH

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