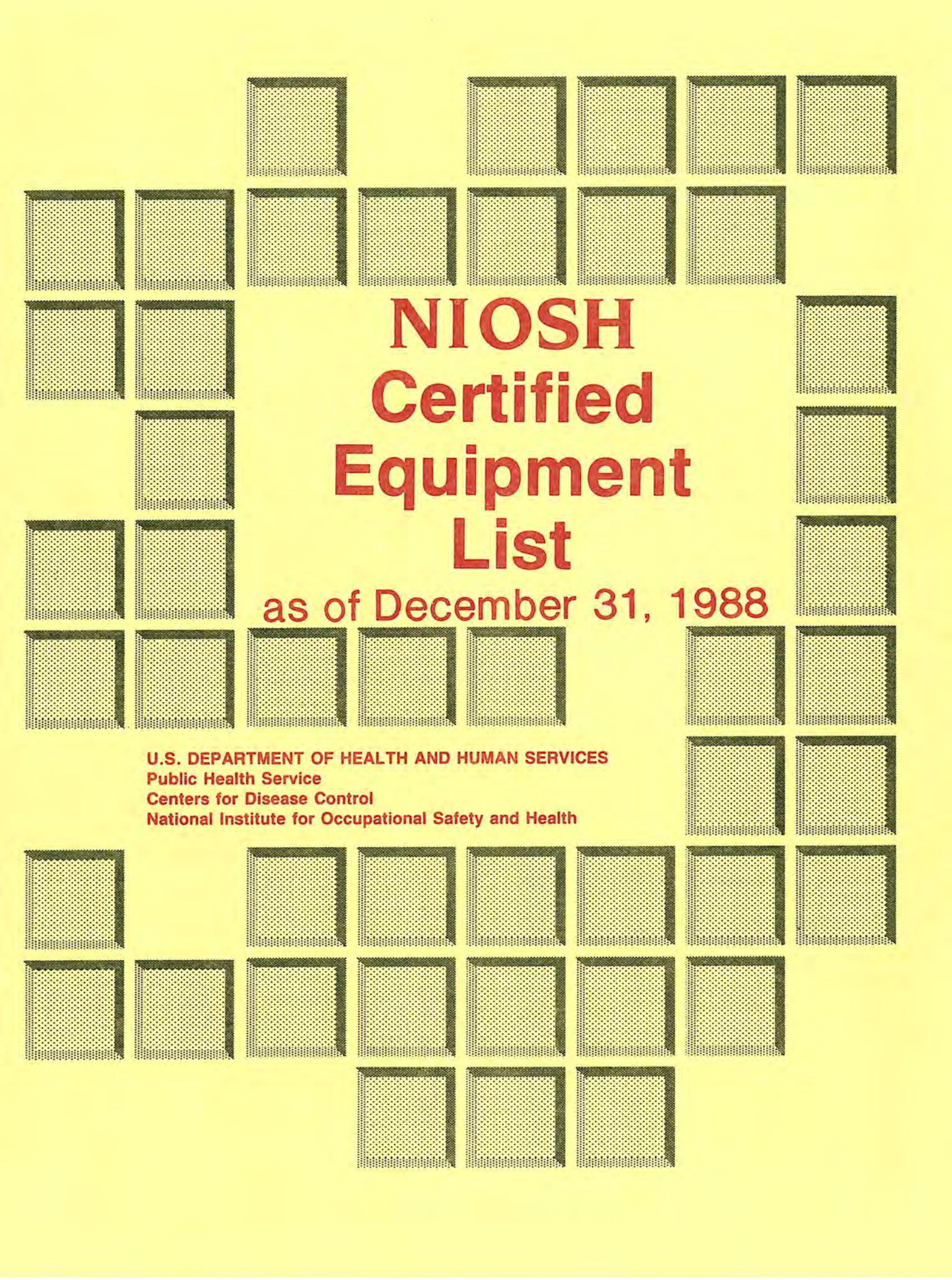


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NIOSH Certified Equipment List

as of December 31, 1988

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

NIOSH CERTIFIED EQUIPMENT LIST

AS OF DECEMBER 31, 1988

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

JANUARY 1989

DISCLAIMER

Mention of company name or product does not constitute endorsement by the National Institute for Occupational Safety and Health.

DHHS (NIOSH) Publication No. 89-105

NIOSH CERTIFIED EQUIPMENT

as of

December 31, 1988

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, 1988, (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 Branch (CB), 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 CB 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 (304/291-4334) or write the CB 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 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, 1988, the following CMDPSU's are certified by NIOSH:

<u>CERTIFICATION</u> <u>NUMBER</u>	<u>CERTIFICATE</u> <u>HOLDER</u>	<u>MODEL</u>
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. Methyl Amine
 - 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
SO ₂	Sulfur dioxide
CO	Carbon monoxide
NH ₃	Ammonia
MA	Methyl amine
VC	Vinyl chloride
ClO ₂	Chlorine dioxide
CH ₂ -O	Formaldehyde

PH ₃	phosphine
H ₂ S	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 463814 463815 463831 463833 466209 470444 470445 461946 461947 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	30	FF	Bm
42	Scott	900015-00 900015-01/05/06	15	FF	Bm
45	Survivair	9038-20* 9038-22*/70*/72* 9838-22/70*/72* 9848-20/22 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

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
76	Scott	900403-00 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* 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 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	30	FF	Fm
80	Scott	930223-00 930223-01/10*/11*/30/31/40*/41* 930223-60/61/70*/71* 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 930233-00/01/10*/11*/30/31/41*/40*/60/61/70*/71* 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 900229-00/01/02/04/30/31/32/34/60/61/62/64 900239-00/01/02/04/30/31/32/34/60/61/62/64 930221-00/01/30/31/60/61 930231-00/01/30/31/60/61 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 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	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
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 2940-W 2940 WSM 2950-W 2950 WSM 2952-W	30	FF	Bm

SCBA ENTRY INTO AND ESCAPE OPEN CIRCUIT PRESSURE DEMAND

Approval Number	Approval Issued to	Model Number(s)	Service Life (min.)	Facepiece Type	Regulator Position
TC-13F-					
107 Cont.		2952 WSM C2826W C2840W C2850W C2852W U2826W U2840W U2850W U2852W			
108	Survivair	9841-00* 9840-25/26/27/28 9841-01*/02*/03*/20*/21*/22*/23* 9840-00*/01*/02*/03*/04/05/06*/07*/08/09/10*/11*/ 12/13/14/15/16/17/18/19/20*/21*/22*/23* 9840-50/52/54/70/72/74/40/42/44/60/62/64	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*/32*/33* 9871-00*/01*/02*/03*/10*/11*/12*/13*/20*/21*/22*/23* 9871-30*/31*/32*/33* 9870/50/52/54/70/72/74/40/42/44/60/62/64	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	900215-00 900215-01/02/04/10/11/12/14/20*/21*/30/31/32/34 900215-40/41/42/44/50*/51*/60/61/62/64/70/71/72/74	15	FF	Fm

SCBA ENTRY INTO AND ESCAPE OPEN CIRCUIT PRESSURE DEMAND

Approval Number	Approval Issued to	Model Number(s)	Service Life (min.)	Facepiece Type	Regulator Position
TC-13F-					
115 Cont.		930213-00/01/10*/11*/30/31/40*/41*/60/61/70*/71* 900219-00/01/02/04/30/31/32/34/60/61/62/64 930211-00/01/30/31/60/61 900315-00/01/02/04/10/11/12/14/30/31/32/34/40/41/42 900315-44/60/61/62/64/70/71/72/74 900319-00/01/02/04/30/31/32/34/60/61/62/64 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 9842-50/52/70/72/40/42/60/62	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

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
138	MSA	473625 thru 473634 473649 thru 473658 481216 thru 481223 484934 484936 484928 484930 484931 484932 484925 484926 484927 484932	30	FF	Bm
139	MSA	473268 473269 474153 474158 481253 481255 484984 484980 484982 484987	30	FF	Bm
140	MSA	470889 471528 474152 474155 481252 481254 484093 484979 484981 484977	60	FF	Bm
164	National Draeger	4050212 thru 4050219 4050226 thru 4050233 4054269 thru 4054274 4052614 thru 4052621	30	FF	OPD

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
169	MSA	476009 476010 476013 476014	15	FF	Fm
171	Globe	2826-2 2826-3 2840-2 2840-3 2850-2 2850-3 2852-2 2852-3 2926-2 2926-3 2940-2 2940-3 2950-2 2950-3 2952-2 2952-3	30	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

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	Interspiro	607-301-322* 607-321-322 607-311-322 607-301-222* 607-311-222* 607-321-422 607-351-422	60	FF	Fm
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 3426-3 3440-2 3440-3 3450-2 3450-3 3452-2 3452-3	30	FF	Bm
208	Globe	3526-2 3526-3 3540-2 3540-3 3550-2 3550-3 3552-2 3552-3	60	FF	Bm
212	Scott	900445-00 900445-01/02/04/10/11/12/14/30/31/32/34/40/41/42/44 60/61/62/64/70/71/72/74 900449-00/01/02/04/30/31/32/34/60/61/62/64 930441-00/01/30/31/60/61 930443-00/01/30/31/60/61 900645-00/01/02/04/10/11/12/14/30/31/32/34/40/41/42 900645-44/60/61/62/64/70/71/72/74 900649-00/01/02/04/30/31/32/34/60/61/62/64 930641-00/01/30/31/60/61 930643-00/01/30/31/60/61	45 min.	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
220	Globe	3626-2 3626-3 3640-2 3640-3 3650-2 3650-3 3652-2 3652-3	45	FF	Bm
226	National Draeger	4050726 thru 30 4050729 4050734 thru 4050737 4050742 thru 4050745 4050750 thru 4050753		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 457153 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	Globe	2540-W 2540-B* 2550-W 2550-B* 2526-W 2526-B* 2552-W, 2552-B*	A	30	FF	Bm
44	Survivair	9038-00* 9038-02*/60*/62* 9838-00/02/60*/62*	A	30	FF	Bm
46	MSA	95061 95068 457150 457151	A	15	FF	Bm

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
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
142	MSA	473615 thru 473624 453639 thru 473648	A	30	FF	Bm
168	MSA	476007 476008 476011 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 liquefied breathing air is used it must meet Type II-Grade B of 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.

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	0	45	FF	Bm
32	Siebe-Gorman	013831.04 013831.05 013831.07	0	180	FF	Bm
38	Draeger	BG-174A-3h (R22900)	0	180	FF	Bm
57	Draeger	BG-174-4h (R27081)	0	240	FF	Bm
60	Scott	900050-00 900050-01/02/03/04/05	0	240	FF	In back pack
84	Biomarine	BioPak 30	0	30	FF	Bm
85	Biomarine	BioPak 60	0	60	FF	Bm
176	Draeger	BG-174AP-2h (R32200)	0	120	FF	Bm
185	Biomarine	BioPak 240	0	240	FF	Bm
186	MSA	472973	0	240	FF	Bm
210	Survivair	LP 120	0	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

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 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 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	

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* 900-002-268-02* 900-002-268-11* 900-002-268-12	5	HH	CF, Es
28A	Lear Siegler	5500	5	HH	CF, 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	457156 456040	5	FF	ODM, Es
55	MSA	76753	5	MP	ODM, Es
61	MSA	456989	5	ON	ODM, Es
66	Scott	900055-01 900055/02/03/04/21/30*/31*/36/40/41/54/55/62/63	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

SCBA ESCAPE ONLY OPEN CIRCUIT

Approval Number TC-13F-	Approval Issued to	Model Number(s)	Service Life (min.)	Facepiece Type	Respirator Type
116	Scott	900055-42/43 900055-56/57/64/65	5	FF	OPD, Es
124	Scott	900555-01 900555-02/03/04/05/06	5	FF	OPD, Es
125	Scott	900550-01* 900550-02*/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	707.117.08	5	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	HH	CF, Es
181	Scott	900105-01	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
182	National Draeger	4052143 4052226 4052250 4052251	5 5	HH HH	CF, Es 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
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

SCBA ESCAPE ONLY OPEN CIRCUIT

Approval Number	Approval Issued to	Model Number(s)	Service Life (min.)	Facepiece Type	Respirator Type
TC-13F-					
232	Survivair	9750-90 9750-98 9751-66 9751-67	10	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 liquefied breathing air is used it must meet Type II - Grade B or higher quality.

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

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

Cylinder must meet applicable DOT specifications.

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 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* 150S	15	MP
180	MSA	1118-705/SSR90	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* 900006-/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 900007-02/08/10/11/20/21/22/23/24/25	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 9881-19	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

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face- piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
67	Scott	900055-09 900055-10/17/18/05/06/32*/33*/58/59/50/51/66/67	5	ON,FF	Es,ODM,SAR	10-250	60-125
68	Scott	900055-13 900055-14/22/23/24/25/60/61/52/53/68/69	5	FF	Es,OPD,SAR	10-250	60-125
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	900403-00 930403-01/10*/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

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face- piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
80	Scott	900223-00 900223/01/10/11/30/31/40/41 900225-00/01/02/03*/04/10/11/12/13*/14/20*/21*/22*-23* 900225-30/31/32/33*/34/40/41/42/43*/44/50*/51*/52*/53* 930233-00/01/10/11/30/31/41/40 900235-00/01/02/04/11/12/14/30/31/32/34/41/42	30	FF	OPD, SAR	0-300	60-115
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 470453 465189 465191 465192 465205 465206 465208 465209 470456 470452 470457	30	FF	OPD, SAR	25-300	50-100
91	MSA	465184 465187 465201 465204	15	FF	ODM, SAR	25-300	50-100
92	MSA	465190 465193 465207 465210	15	FF	OPD, SAR	25-300	50-100

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face- piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
93	MSA	464775 464777 472676 472684 472677 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* 900460-01*/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 900463-01/10*/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
112	Scott	900480-01	5	FF	Es,CF,SAR	15-250	10-15
114	Scott	900210-00 900210-01/02/04/30/31/32/34 930212-00/01/30/31	15	FF	OPM,SAR	0-300	60-115
115	Scott	900215-00 900215-01/02/04/10/11/12/14/20*/21*/30/31/32/34 900215-40/41/42/44/50*/51* 930213-00/01/10/11/30/31/40/41	15	FF	OPD,SAR	0-300	60-115

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face- piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
TC-13F-							
118	National Draeger	4059192 thru 4059199 4054313 thru 4050443	30 (2216 psig)	FF	OPD,SAR	25-300	85-120
119	National Draeger	4059200 thru 4059207 4054319 thru 4050441	30 (4500 psig)	FF	OPD,SAR	25-300	85-120
120	National Draeger	4059184 thru 4059191 4054307 thru 4050442	15 (4500 psig)	FF	OPD,SAR	25-300	85-120
121	Globe	2809 2809-4 C2809 C2809-4 2909 2909-4	5	FF	Es,OPD,SAR w/series 3000 fittings 25-100 w/series 6000 fittings	25-250	60-75
122	Globe	2805 2805-4 C2805 C2805-4 2905 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 471989 thru	5	FF	Es,OPD,SAR	8-300	65-85
126	Scott	900565-01 900565-02/03/04/05/06	5	FF	Es,OPD,SAR	0-300	60-105
127	Scott	900560-01* 900560-02*/03*/04*/05*/06*	5	FF	Es,OPD,SAR	0-300	60-105

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.
131	Survivair	9882-00 9882-01/02/03/10/11/12/13	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	30	FF	OPD, SAR	25-300	60-125
133	Interspiro	607-301-121 607-311-121 607-301-321 607-311-321 607-321-321	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* 7010420-2*/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* 7010421-2*/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* 7010422-2*/3*/4* 7010612-1 thru 7010612-8	60	FF	OPD, SAR	25-300	100-125
141	National Draeger	4059276 thru 4059279 4054337 thru 40544340	5	FF	Es, OPD, SAR	25-300	85-120
143	MSA	474944 thru 474961	5	FF	OPD, Es	8-300	65-85

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.
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
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 484966 484974 484962 484970	60	FF	ODM, SAR	15-300	85-90
151	MSA	474187 474191 474217 474221 481244 481248 484965	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.
151 Cont.		484973 484961 484969					
152	MSA	475956 475957 475960 475961 475975 475976 475979 475980	60	FF	ODM, SAR	15-300	85-90
153	MSA	475995 475974 475978 475959	30	FF	ODM, SAR	15-300	85-90
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	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

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.
157	MSA	475896 475897 475862 475863	15	FF	ODM, SAR	15-300	85-90
158	MSA	475810 475811 475814 475815 475816 475817 475820 475821 481247 481251 484968 484976 484964 484972	60	FF	ODM, SAR	15-300	85-90
159	MSA	474195 474225 475813 475819 481246 481250 484967 484975 484963 484971	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

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face- piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
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	707.127.00 707.127.01/.02/.03/.04	5	FF	Es, ODM, 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
187	Scott	900155-01 900155-02	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 7010400-2/3/4	5	FF	Es, OPD, SAR	25-300	100-125
190	ISI	707.137.00 707.137.01	30	FF	OPD, SAR	25-300	80-120
191	ISI	707.137.02 707.137.04	30	FF	OPD, SAR	25-300	80-120

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.
192	ISI	707.137.03	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
213	Interspiro	607-311-323 607-321-323 607-321-422 607-351-423	45	FF	OPD,SAR	25-300	60-125
214	SAMS	SAMS-1	3	HH	Es,OPD,SAR	100-300	120-125
215	MSA	485532 485533 485534 485535 485525 485526 485527 485528	5	FF	Es,OPD,SAR	25-300	65-85

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face- piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
TC-13F-							
218	Respiratory Systems	500	5	FF	Es,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
219	Respiratory Systems	1000	10	FF	Es,OPD,SAR	25 50 75 100 150 200 250	65-85 65-85 70-85 70-85 70-85 75-85 75-85
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

COMBINATION SCBA AND SAR (DEMAND AND PRESSURE DEMAND)

Approval Number	Approval Issued to	Model Number(s)	Service Life/SCBA (min)	Face- piece Type	Supplied Air Respirator Type	Hose Length feet	Pressure Range psi.
TC-13F-							
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	5	FF	Es, OPD, SAR	25-300	90-120
230	Globe	2805W 2905W	15	FF	Es, OPD, SAR	25-200	70-85

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 448980 448981 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 448927 448928 448929 448930 448931 448936 448937 448938 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	Fm, Es	FF	D,M	MA

GAS MASKS - AMMONIA

Approval Number	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
TC-14G-						
111	North	7604L* 7604LS* 7604LN* 7604SLN*	Fm	FF		
112	MSA	469039 469040	Fm, Es	FF	D,F,M	OV/Cl
121	Pirelli	4333.2012	Fm, Es	FF		
126	MSA	472884 472885	Fm, Es	FF	D,M	
			Combination Type C, CF 35-40 psig; 25-300 ft hose			
128	Pirelli	4333.2015	Fm, Es	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	FF		
			Combination Type CE, CF 35-40 psig, 8-300 ft hose			

GAS MASKS - AMMONIA

Approval Number	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
TC-14G-						
140	Scott	63-OAAM 63R-OAAM 63S-OAAM 63F-OAAM 63FG-OAAM 63XL-OAAM	Rp, Fm	FF	D, M	OV/C1/HCl MA/H2S
144	Willson	6664F S6664F 6764F S6764F	Es, Fm	FF	DFM	MA
148	MSA	483875	Rp, Bm	FF	DM	OV, C1
				Combination Type C, CF Hose Length Air Press. <u>feet</u> <u>psig</u> 8-300 35-40		
151	MSA	484425	Bm	FF	DM	
				Combination Type C, Pd Hose Length Air Press. <u>feet</u> <u>psig</u> 8-300 65-85		
157	MSA	484430	Bm	FF	DM	OV/C1
				Combination Type C, Pd Hose Length Air Press. <u>feet</u> <u>psig</u> 8-300 65-85		

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 460132 460133 460134	Fm	FF	D,M	
95	Willson	2162F 2262F	Fm	FF	D,F,M	
98	MSA	460125 460126 460127 460128 460129 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, Es	FF	D,M	
105	MSA	466225* 466226*	Fm, Es	FF	H,A	
106	MSA	466231 466232	Fm, Es	FF	H	
112	MSA	469039 469040	Fm, Es	FF	D,F,M	OV/NH3
113	MSA	468921	SAR (combination Type C, CF 35-40 psig; 25-300 ft. hose)	ON	H,A	

GAS MASKS - CHLORINE

Approval Number	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
TC-14G-						
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 63R-TEDA-H 63S-TEDA-H 63XL-TEDA-H	Fm, Es	FF	H	
123	Racal	BE 3/B BE 7/B	PAPR, FF	FF		HCl
130	Scott	63-C1 63F-C1 63FG-C1 63R-C1 63S-C1 63XL-C1	Fm, Es	FF	D,M	HCl/H2S CH2-O
131	Scott	63C1-H 63F-C1-H 63FG-C1-H 63R-C1-H 63S-C1-H 63XL-C1-H	Fm, Es	FF	H,R,A	HCl/H2S CH2-O
140	Scott	63-OAAM 63R-OAAM 63S-OAAM 63F-OAAM 63FG-OAAM 63XL-OAAM	Rp, Fm	FF	D,M	OV/MA/HCl NH3/H2S

GAS MASKS - CHLORINE

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
143	Willson	6662F S6662F 6762F S6762F	Es, Fm	FF	DFM	
147	MSA	483874	Rp, Bm	FF	DM	
				Combination Type C, CF Hose Length Air Press. <u>feet</u> <u>psig</u> 8-300 35-40		
148	MSA	483875	Rp, Bm	FF	DM	OV, NH3
				Combination Type C, CF Hose Length Air Press. <u>feet</u> <u>psig</u> 8-300 35-40		
153	MSA	484429	Bm	FF	DM	
				Combination Type C, Pd Hose Length Air Press. <u>feet</u> <u>psig</u> 8-300 65-85		
157	MSA	484430	Bm	FF	DM	OV/NH3
				Combination Type C, Pd Hose Length Air Press. <u>feet</u> <u>psig</u> 8-300 65-85		
158	MSA	488063 488064 487203 487473	Fm, Bm, Es	FF	DM	H2S/OV/PH3

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

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 460120 460121 460122 460123 460124	Bm	FF	D,M	OV,HCN
107	MSA	466227 466351 466228 466350	Fm, Es	FF	D,M	OV/CH2-O
127	Willson	2165, 2265	Fm, Es	FF	D,M	OV
129	Scott	63-OA 63F-OA 63FG-OA 63R-OA 63XL-OA 63S-OA	Fm, Es	FF	D,M	OV/H2S/CH2-O
133	Racal	BE 3/E BE 7/E	PAPR, FF	FF		
145	Willson	6665 S6665 6765 S6765	Es, Fm	FF	DM	OV
149	MSA	483873	Rp, Bm	FF	DM	OV, CH2-O
				Combination Type C, CF Hose Length Air Press. <u>feet</u> <u>psig</u> 8-300 35-40		

GAS MASKS - ACID GAS

Approval Number	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
TC-14G-						
155	MSA	484428	Bm	FF	DM	OV/CH2-O
				Combination Type C, Pd		
				Hose Length Air Press.		
				<u>feet</u>	<u>psig</u>	
				8-300	65-85	

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.

GAS MASKS - ORGANIC VAPOR

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	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	Fm, Es	FF	D,M	

GAS MASKS - ORGANIC VAPOR

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, Es	FF	D,M	AG CH2-O
108	MSA	466229 466230	Fm, Es	FF	H,A	
110	North	7601L* 7601LN* 7601LS* 7601LSN*	Fm	FF		
112	MSA	469039 469040	Fm, Es	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	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	Fm, Es	FF	H	Pest

GAS MASKS - ORGANIC VAPOR

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
119	Pirelli	4333.2011	Fm, Es	FF		
120	Pirelli	4333.2014	Fm, Es	FF	H	
122	Racal	BE 3/A BE 7/A	PAPR, FF	FF		
124	MSA	472886 472887	SAR Combination Type C, CF 35-40 psig and hose length 8-300 feet	FF	H,A	Pest
125	MSA	472882 472883	SAR Combination Type C, CF 35-40 psig; hose length 8-300 feet	FF	D,M	AG
127	Willson	2165 2265	Fm, Es	FF	D,M	AG
129	Scott	63-OA 63F-OA 63FG-OA 63R-OA 63S-OA 63XL-OA	Fm, Es	FF	D,M	AG/CH2-O/ H2S
136	MSA	478118 478119 480948 480954 480960 480966 480972 480978 480984 480990 480996	SAR	FF	D,M Combination Type CE, CF 8-300 ft hose, 35-40 psig	

GAS MASKS - ORGANIC VAPOR

Approval Number	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
TC-14G-						
136	Cont.	481002				
		481008				
		481014				
		481020				
		481026				
		481032				
		481038				
138	MSA	478122	SAR	FF	H,A	Pest
		478123				
		480950				Combination Type CE, CF
		480956				8-300 ft hose, 35-40 psig
		480960				
		480962				
		480968				
		480998				
		481004				
		481022				
		481028				
		480974				
		480980				
		480986				
		480992				
		481010				
		481016				
		481034				
		481040				
139	MSA	478124	SAR	FF	H,A	
		478125				
		480951				Combination type CE, CF
		480957				35-40 psig, 8-300 ft hose
		480963				
		480969				
		480993				
		481011				
		481023				
		481029				
		481041				
		480975				
		480981				
		480987				
		480999				
		481017				
		481005				
		481035				

GAS MASKS - ORGANIC VAPOR

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
140	Scott	63-OAAM 63R-OAAM 63S-OAAM 63F-OAAM 63FG-OAAM 63XL-OAAM	Rp, Fm	FF	D, M	MA/C1/HC1 NH3/H2S
141	National Draeger	4052215 4052216	Es, Rp, Fm	FF	H	
142	Willson	6661F S6661F 6761F S6761F	Es, Fm	FF	DFM	Pest
145	Willson	6665 S6665 6765 S6765	Es, Fm	FF	DM	AG
148	MSA	483875	Rp, Bm	FF	DM	C1, NH3
				Combination Type C, CF Hose Length Air Press. <u>feet</u> <u>psig</u> 8-300 35-40		
149	MSA	483873	Rp, Bm	FF	DM	AG, CH2-0
				Combination Type C, CF Hose Length Air Press. <u>feet</u> <u>psig</u> 8-300 35-40		
150	MSA	484424	Bm	FF	DM	
				Combination Type C, Pd Hose Length Air Press. <u>feet</u> <u>psig</u> 8-300 65-85		

GAS MASKS - ORGANIC VAPOR

Approval Number TC-14G-	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
152	MSA	484426	Bm	FF	HA	Pest
				Combination Hose Length feet	Type C, Pd Air Press. psig	
				8-300	65-85	
154	MSA	484427	Bm	FF	HA	
				Combination Hose Length feet	Type C, Pd Air Press. psig	
				8-300	65-85	
155	MSA	484428	Bm	FF	DM	AG/CH2-O
				Combination Hose Length feet	Type C, Pd Air Press. psig	
				8-300	65-85	
157	MSA	484430	Bm	FF	DM	C1/NH3
				Combination Hose Length feet	Type C, Pd Air Press. psig	
				8-300	65-85	
158	MSA	488063 488064 487203 487473	Fm, Bm, Es	FF	DM	C1/H2S/PH3

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

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	Fm, Es	FF	H	OV
124	MSA	472886	SAR	FF	H,A	OV
				Combination Type C, CF Hose Length Air Press. <u>feet</u> <u>psig</u> 8-300 35-40		
138	MSA	478122 480950 480956 480962 480968 480974 480980 480986 480992 480998 481004 481010 481016	SAR	FF	H,A	OV
				Combination Type C, CF Hose Length Air Press. <u>feet</u> <u>psig</u> 8-300 35-40		

GAS MASKS - PESTICIDE

Approval Number	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
138 Cont.		481022 481028 481034 481040				
142	Willson	6661F S6661F 6761F S6761F	Es, Fm	FF	DFM	OV
152	MSA	484426	Bm	FF	HA	OV
				Combination Type C, Pd		
				Hose Length	Air Press.	
				<u>feet</u>	<u>psig</u>	
				8-300	65-85	

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	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* 7820S* 7820N* 7820SN* 7829* 7829S* 7829N* 7829SN*	Bm	FF		

GAS MASKS - OTHER GASES AND VAPORS - PHOSPHINE

Approval Number	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
TC-14G-						
98	MSA	460125 460126 460127 460128 460129 460130	Bm	FF	D,M	OV/H2S/Cl
158	MSA	488063 488064 487203 487473	Fm, Bm, Es	FF	D,M	OV/H2S/Cl

GAS MASKS - OTHER GASES AND VAPORS - HYDROGEN SULFIDE

Approval Number	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
TC-14G-						
98	MSA	460125 460126 460127 460128 460129 460130	Bm	FF	D,M	OV/PH3/Cl
129	Scott	63-OA 63F-OA 63FG-OA 63R-OA 63S-OA 63XL-OA	Fm, Es	FF	D,M	OV/AG/ CH2-O
130	Scott	63-Cl 63F-Cl 63FG-Cl 63R-Cl 63S-Cl 63XL-Cl	Fm, Es	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	Fm, Es	FF	H,R,A	Cl/HCl CH2-O
140	Scott	63-OAAM 63R-OAAM 63S-OAAM 63F-OAAM 63FG-OAAM 63XL-OAAM	Rp, Fm	FF	D,M	OV/Cl/HCl NH3/MA
158	MSA	488063 488064 487203 487473	Fm, Bm, Es	FF	D,M	Cl/OV/PH3

GAS MASKS - OTHER GASES AND VAPORS - 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		C1
130	Scott	63-C1 63F-C1 63FG-C1 63R-C1 63S-C1 63XL-C1	Fm, Es	FF	D,M	C1/H2S CH2-O
131	Scott	63C1-H 63F-C1-H 63FG-C1-H 63R-C1-H 63S-C1-H 63XL-C1-H	Fm, Es	FF	H,R,A	C1/H2S CH2-O
140	Scott	63-OAAM 63R-OAAM 63S-OAAM 63F-OAAM 63FG-OAAM 63XL-OAAM	Rp, Fm	FF	D,M	OV/C1/NH3 MA/H2S

GAS MASKS - OTHER GASES AND VAPORS - ETHYLENE OXIDE

Approval Number	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
TC-14G-						
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, Es	FF	H,A	
146	MSA	483876	Rp, Bm	FF	HA	
					Combination Type C, CF Hose Length Air Press. <u>feet</u> <u>psig</u> 8-300 35-40	
156	MSA	484431	Bm	FF	HA	
					Combination Type C, Pd Hose Length Air Press. <u>feet</u> <u>psig</u> 8-300 65-85	

GAS MASKS - OTHER GASES AND VAPORS - FORMALDEHYDE

Approval Number	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
TC-14G-						
107	MSA	466227 466351 466228 466350	Fm, Es	FF	D,M	OV/AG
129	Scott	63-OA 63F-OA 63FG-OA 63R-OA 63S-OA 63XL-OA	Fm, Es	FF	D,M	H2S/OV/ AG
130	Scott	63-C1 63F-C1 63FG-C1 63R-C1 63S-C1 63XL-C1	Fm, Es	FF	D,M	H2S,HCl Cl
131	Scott	63-C1-H 63F-C1-H 63FG-C1-H 63R-C1-H 63S-C1-H 63XL-C1-H	Fm, Es	FF	H,R,A	H2S,HCl Cl
149	MSA	483873	Rp, Bm	FF	DM	OV, AG
				Combination Type C, CF Hose Length Air Press. <u>feet</u> <u>psig</u> 8-300 35-40		
155	MSA	484428	Bm, Rp	FF	DM	AG/OV
				Combination Type C, Pd Hose Length Air Press. <u>feet</u> <u>psig</u> 8-300 65-85		

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	Es, Fm	FF	DFM	NH3
103	Scott	63-AM 63F-AM 63FG-AM 63R-AM 63S-AM 63XL-AM	Es, 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	Rp, Fm	FF	D, M	OV/Cl/HCl NH3/H2S
144	Willson	6664F S6664F 6764F S6764F	Es, Fm	FF	DFM	NH3

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

Approval Number	Approval Issued to	Model Number(s)	Respirator Type	Facepiece Type	DFM Approval	Other gas and Vapor Approval
TC-14G-						
100	MSA	460119	Bm, Es	FF	DM	OV/AG
		460120				
		460121				
		460122				
		460123				
		460124				

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	Bm	HH	25 & 50 100 200 300	25-35 30-45 35-60 40-75

SAR TYPE C CONTINUOUS FLOW

Approval Number	Approval	Model	Regulator or Valve	Face- piece	Hose Length	Pressure Range
TC-19C-	Issued to	Number(s)	Location	Type	feet	psi
69-Cont.		W-368-25/50/100				
		W390				
		W394				
		W398				
		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				
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				

SAR TYPE C CONTINUOUS FLOW

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
70 Cont						
		W389				
		W393				
		W397				
	Pauli	W-888-100/50/25				
	& Griffin	"				
	Clemco	"				
	Bowen Tools	"				
	Empire Abrasive	"				
	Kelco Sales	"				
	Pangborn	"				
71	Scott	4616-11/12/15 Bm 4616-21/22/25 4622-11/12/15/21/22/25		FF	15-50 50-250	12-25 25-40
72	Scott	Bm 4616-18/19/28/29 4622-18/19/28/29		FF	15-50 50-250	6-16 16-22
73	Scott	802230 series 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	Bm	ON,FF	8-300	35-40

SAR TYPE C CONTINUOUS FLOW

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
80	MSA	460903 460904 460905 460906 461709 461710 461711 461712 480601 480602 480673 thru 480676	Bm	HH	8-300	55-60
81	MSA	460907 460908 460909 460910 461713 461714 461715 461716	Bm	HH	8-300	55-60
82	Pulmosan	AL180-10168	Bm	FF	15-50	6-8
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

SAR TYPE C CONTINUOUS FLOW

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

SAR TYPE C CONTINUOUS FLOW

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
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
86	AO	R6099 R5099 S5099 S6099	Bm	ON	12.5-75 100-175 200-300	7-15 13-25 18-35
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	Bm	HH	25-100 100-200 200-300	60-70 80-100 85-100

SAR TYPE C CONTINUOUS FLOW

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
87 Cont.		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* Pauli&Griffin* Bowen Tools* Clemco* Empire Abrasive* Kelco*	W-271-100/50/25 " " " " "				
88	Binks	40-160 40-200/220/240/260/280/300/320 40-571/573/575/577/579/581/583/585	Bm	ON	8-300	35-40
89	AO	R56001	Bm	HH	12.5-25 50-100 125-200 225-300	10-20 18-32 25-40 35-60
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

SAR TYPE C CONTINUOUS FLOW

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
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	999-3 999-4 999-5 999-6 999-7 999-8	Bm	HH	25-100 25-100 100 only	12-25 80-100 8-15
102	Anderson	999-3 999-4 999-5 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Bowen	999-3 999-4 999-5 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Pauli & Griffin	999-3 999-4 999-5 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15

SAR TYPE C CONTINUOUS FLOW

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
102	Empire	999-3 999-4 999-5 999-7 999-8	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	999-3 999-4 999-5 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Titan	999-3 999-4 999-5 999-6 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	A-BEC	999-3 999-4 999-5 999-6	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Schmidt	999-3 999-4 999-5 999-6	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Key Houston	999-3 999-4 999-5 999-7 999-8	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	Clemco	999-3 999-4 999-5 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Binks	999-3 999-4 999-5 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Air Components	999-3 999-4 999-5 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Ace	999-3 999-4 999-5 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Clemtex	999-3 999-4 999-5 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Sulliblast	999-3 999-4 999-5 999-6	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
103	MSA	463925 463926 463970 463973 463974 463983 463986	Bm	HH	8-300	55-60

SAR TYPE C CONTINUOUS FLOW

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
103 Cont.		463987 480495 480497 480499 480714 480716 480718 480489 480491 480701 480703 480705 480707				
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
109	North	85100 series 85101* thru 85126*	Bm	ON	<u>3/8 inch I.D.</u> 12.5-25 8- 9 50-75 10-11 100-150 12-13 175-300 17-18 <u>1/2 inch I.D.</u> 12.5 - 25 5-15 50 - 100 6-17 125-200 8-22 225-300 9-28	

SAR TYPE C CONTINUOUS FLOW

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
110	North	85200 series 85201* thru 85225*	Bm	FF	<u>3/8 inch I.D.</u>	
					12.5	8-9
					25-75	10-11
					75-150	12-13
					175-300	17-18
					<u>1/2 inch I.D.</u>	
					12.5 - 25	5-15
					50 - 100	6-17
					125-200	8-22
					225-300	9-28
111	AO	50733 50734	Bm	FF	25	8-11
					50-75	11-15
					100-125	14-18
					150-200	18-23
					225-300	21-28
112	Glendale	GR5000 GR6000* GR6000S GR6000N	Bm	ON, FF	25-300	30-35
113	MSA	463277	Bm	FF	8-50	10-15
		463281				
		463297				
		463298				
		463299				
		463300				
		463301				
		463302				
		469718				
		469719				
		469722				
		469723				
		475148				
		475149				
		480472 thru 480475				
		480482				
		480484				
		480637 thru 480646				
		480665				
		480666				
		480669				
		480670				

SAR TYPE C CONTINUOUS FLOW

Approval Number	Approval	Model	Regulator or Valve	Face- piece	Hose Length	Pressure Range
TC-19C-	Issued to	Number(s)	Location	Type	feet	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, 480478, 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

SAR TYPE C CONTINUOUS FLOW

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
125	DeVilbiss	MPH-532	Bm	ON	15-100 100-300	10-32 21-50
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

SAR TYPE C CONTINUOUS FLOW

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi	
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	
139	Racal	AC38	Bm	HH	25-100	70-115	
140	NPO	SAR 100NH-AY/BY/CY/C-1Y/DY			HH	25-50	20-34*
		SAR 100NH-AG/BG/CG/C-1G/DG				75-100	25-45
		SAR 100NH-AB/BB/CB/C-1B/DB				125-175	30-50
		SAR 100NH-AR/BR/CR/C-1R/DR				200-275	38-55
		SAR 100NH-AC/BC/CC/C-1C/DC				*Max pressure 28 psig w/Hanson & Snap-Tite fittings	
		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 TYPE C CONTINUOUS FLOW

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
140 Cont.		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				
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	451518 451519	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
153	Racal	AH39	Bm	HH	25-100	70-115

SAR TYPE C CONTINUOUS FLOW

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
154	Bullard	CG20	N/A	HH	10 only 25-100 125-200 225-300 100 only 200 only 300 only	8-17 12-17 20-35 25-45 5-13 8-20 11-22
154	DuPont	M-163	N/A		25-50	15-30
155	Bullard	FAM*, FAM-B	N/A	HH	50 only 100 only 150 only 200 only 250 only 300 only	1.5-6.0 2.5-8.0 3.5-12.0 4.5-14.0 5.5-16.0 7.0-20.0
155	DuPont	M-162	N/A	HH	50 only 100 only 150 only 200 only 250 only 300 only	1.5-6.0 2.5-8.0 3.5-12.0 4.5-14.0 5.5-16.0 7.0-20.0
157*	3M		Bm W-366-25*/50*/100*	FF	25-50 75-100 125-200 225-300	15-45 17-50 22-65 25-75
159	MSA	474184	Bm	HH	8-300	55-60
160	Lancs		Bm	HH	25-100 50-200 75-300 100-300 25-300 150-300	18-34 25-40 28-48 29-53 31-59 32-60

SAR TYPE C CONTINUOUS FLOW

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
163	3M	W356-25/50/100 W357-25/50/100 W360-25L/50L/100L W360-25M/50M/100M W361-25/50/100 W362-25/50/100 W364-25/50/100 W374-25/50/100 W391-25/50/100 W399-25/50/100	Bm	HH	25 50 100	4-9 5-11 6-15
164	Survivair	9850-25 9850-40	Bm	FF	25 50 75 100 150 200 250	30-60 35-70 40-85 45-95 55-110 65-125 75-125
165	Survivair	9850-40*	Bm	FF	25 50 75 100 150 200 250	30-60 35-70 40-85 45-95 55-110 65-125 75-125
166	Willson	4000A/B/C/D/E	Bm	HH	25-300	8-40
168	Binks	40-360 40-370/380/390 40-567/568/569/570	Bm	FF	8-150	20-40
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

SAR TYPE C CONTINUOUS FLOW

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
171	National Draeger	4052017 4042025 4052034 4052037 4052040 4052043 4052044 4052045	Bm	FF	25-300	50-60
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

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
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
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 ACII-SC ACII-ST ACII-SS WEII-HA WEII-SC WEII-ST WEII-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	<u>Without Valve</u> 25-50 75-125 150-200 225-300 <u>W/Control Valve</u> 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

SAR TYPE C CONTINUOUS FLOW

Approval Number	Approval	Model	Regulator or Valve	Face- piece	Hose Length	Pressure Range
TC-19C-	Issued to	Number(s)	Location	Type	feet	psi
193	U.S. Safety	802-SL 802-WL 802-SN 802-WN	Bm	HH	<u>W/O Valve</u>	
					25-50	15-30
					75-125	25-45
					150-200	30-60
					225-300	40-70
					<u>W/Control Valve</u>	
					25-50	25-30
					75-125	30-40
196	North	85300	Bm	HH	<u>1/2" Diameter</u>	
					12.5-25	4-12
					50-75	6-14
					100-150	7-16
					175-200	9-18
					225-250	11-20
					275-300	12-22
					<u>3/8" Diameter</u>	
					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	Bm	HH	25-300	85-100
		803-WL				
		803-SN				
		803-WN				
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	Bm	HH	25-100	12-14
		thru -15			(NP1680)	
		NP1750-1 thru -15			25-300	25-30
					(NP1681)	
		NP1760-1 thru -15			25-300	65-75
					(NP1682)	

SAR TYPE C CONTINUOUS FLOW

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
201	Pulmosan	20330	Bm	HH	15-25 50 100	7-9 9-12 7-10
202	Bullard	M-40-35 M-40-30 M-40-32 M-40-33 M-40-31 M-40-30V M-40-32V M-40-31V M-40-33V	Bm	FF	25-300 50-150 200-300	35-70 6-25 8-30
202	DuPont	M-188	Bm	FF	25-300 50-150 200-300	35-70 6-25 8-30
203	Safety Products	AF0306	Bm	HH	25 or 35	55-90
204	North	85000	Bm	FF	<u>3/8 inch I.D.</u> 12.5-50 75-150 175-300 <u>1/2 inch I.D.</u> 12.5 - 50 75 - 150 175-300	5-15 9-24 15-35 3-18 5-22 8-27
206	AO	R7800 S7800	Bm Bm	FF FF	25 50 75 100 125 150 175 200 225 250 275 300	8-29 11-35 12-39 12-39 13-42 14-46 15-50 16-53 18-56 19-60 20-61 21-62

SAR TYPE C CONTINUOUS FLOW

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
207	US Safety	Series 97LP	Bm	ON	50 100 150 200 250 300	1.5-7 2.5-11 3.5-15 4.5-18 5.5-21 6.5-24
208	Willson	6370-A(S) -B(S) -C(S) -D(S) -E(S) 6370-A(M) -B(M) -C(M) -D(M) -E(M) 6370-A(L) -B(L) -C(L) -D(L) -E(L)	Bm	ON	R714A/R714B/R714C/R714D 25 5-18 5-20 8-20 5-30 50 6-25 6-25 10-75 6-20 75 8-25 8-25 12-30 8-25 100 8-30 10-35 14-35 10-35 125 14-38 16-40 16-40 16-40 150 16-40 20-45 20-45 20-45 175 20-42 24-50 24-50 24-50 200 22-44 28-55 28-55 28-55 225 24-46 32-60 32-60 32-60 250 26-48 36-60 36-65 36-65 300 30-50 40-65 40-65 40-65 R814A/R814B/R814C/R814D/R814E 50 4-15 4-30 6-30 4-30 2-11 100 5-19 5-30 8-30 5-30 3-17 R825A/R825B/R825C/R825D/R825E 25 5-18 6-35 8-35 7-35 3-24 50 5-35 6-40 8-42 7-42 5-30	
209	Willson	6470-AL-A thru E S6470-AL-A thru E 6570-AL-A thru E S6570-AL-A thru E 6670AL-A thru E S6670AL-A thru E 6770AL-A thru E S6770AL-A thru E	Bm	FF	R714A/R714B/R714C/R714D 25 6-18 6-20 6-20 6-20 50 6-22 8-25 8-25 8-25 75 8-28 10-30 12-30 12-30 100 10-30 10-35 14-35 14-35 125 16-38 18-40 18-40 18-40 150 18-40 22-45 22-45 22-45 175 22-42 26-50 26-50 26-50 200 24-44 30-55 30-55 30-55	
210	SATA	15628	Bm	ON	25 or 50	60-87
211	SATA	54148	Bm	HH	25 or 50	60-87

C. Supplied Air Respirators
1. Type C Continuous Flow

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
TC-19C-						
213	3M	W608 W403 W404 W406 7820	Bm	HH	50 100 150	Inches of Water Column Height 4-14 6-23 9-32
214	3M	W-401	Bm	FF	25 50 100	7.5-15 8-15 10-15
215	3M	W-402	Bm	FF	25 50 100	5-15 5-15 6-15
216	Vortec	22800	Bm	HH	25-300	80-95
217	North	85110	Bm	FF	<u>3/8" I.D.</u> 12.5-50 75-150 175-300 <u>1/2" I.D.</u> 12.5-50 75-150 175-300	5-15 9-24 15-35 4-18 5-22 8-27
218	Parmelee	804LP-DI	Bm	HH	0-50 0-100 0-150 0-200 0-250 0-300	5.5-13.0 7.5-17.0 9.5-20.0 10.5-23.0 12.5-25.0 14.5-28.0
219	Parmelee	802LP-SL 802LP-WL 802LP-SN 802LP-WN	Bm	HH	0-50 0-100 0-150 0-200 0-250 0-300	5.5-13.0 7.5-17.0 9.5-20.0 10.5-23.0 12.5-25.0 14.5-28.0

C. Supplied Air Respirators
1. Type C Continuous Flow

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
220	MSA	482716	Bm	HH	8-25	3.5-5
		482717			25-50	4.5-6
		482719			50-100	6-8
		482723			100-150	8-11
		482721			150-200	9-15
		482725			200-250	10-18
		483607			250-300	12-20
		483608				
		483610				
		483612				
		483614				
		483616				
221	Binks	40-908	Bm	HH	8-25	3.5-5
		40-909			25-50	4.5-6
		40-911			50-100	6-8
		40-915			100-150	8-11
		40-913			150-200	9-15
		40-917			200-250	10-18
		40-918			250-300	12-20
		40-919				
		40-921				
		40-923				
		40-925				
		40-927				
222	MSA	482823	Bm	HH	8-300	55-60
		482827				
		482903				
		482907				
		482807				
		482808				
		482809				
		482810				
		482811				
		482812				
		482813				
		482814				
		482824				
		482825				
		482826				
		482828				
		482829				
		482830				
		482887				

C. Supplied Air Respirators
1. Type C Continuous Flow

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length/ feet	Pressure Range psi
222 Cont.		482888				
		482889				
		482890				
		482891				
		482892				
		482893				
		482894				
		482904				
		482905				
		482906				
		482908				
		482909				
		482910				
		482967				
		482968				
		482969				
		482970				
		482971				
		482972				
		482973				
		482974				
		482983				
		482984				
		482985				
		482986				
		482987				
		482988				
		482989				
		482990				
223	Binks	40-617	Bm	HH	8-300	55-60
		40-621				
		40-697				
		40-701				
		40-601				
		40-602				
		40-603				
		40-604				
		40-605				
		40-606				
		40-607				
		40-608				
		40-618				
		40-619				
		40-620				

C. Supplied Air Respirators
1. Type C Continuous Flow

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
TC-19C-						
223 Cont.		40-622				
		40-623				
		40-624				
		40-681				
		40-682				
		40-683				
		40-684				
		40-685				
		40-686				
		40-687				
		40-688				
		40-698				
		40-699				
		40-700				
		40-702				
		40-703				
		40-704				
		40-761				
		40-762				
		40-763				
		40-764				
		40-765				
		40-766				
		40-767				
		40-768				
		40-777				
		40-778				
		40-779				
		40-780				
		40-781				
		40-782				
		40-783				
		40-784				
224	MSA	482999	BM	HH	8-25	10-11
		483000			33-50	13-14
		483003			50-75	15-17
		483004			75-100	19-21
		483011			100-150	23-25
		483012			150-200	28-31
		483027			200-250	32-36
		483028			250-300	36-40
		483002				
		483001				
		483005				
		483006				

C. Supplied Air Respirators
1. Type C Continuous Flow

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
224 Cont.		483013 483014 483019 483020 483021 483022 483029 483030 483035 483036 483037 483038				
225	Binks	40-793 40-797 40-805 40-821 40-794 40-795 40-796 40-798 40-799 40-800 40-806 40-807 40-808 40-813 40-814 40-815 40-816 40-822 40-823 40-824 40-829 40-830 40-831 40-832	BM	HH	8-25 33-50 50-75 75-100 100-150 150-200 200-250 250-300	10-11 13-14 15-17 19-21 23-25 28-31 32-36 36-40
227	ISD	900-002-264-20 900-002-264-21 900-002-264-22 900-002-264-23 900-002-264-24 900-002-264-31 900-002-264-32		FF/HH	25-250	50-125

C. Supplied Air Respirators
1. Type C Continuous Flow

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
227 Cont.		900-002-264-33 900-002-264-34				
228	A.O.	R5599 S5599 R6599 S6599	BM	ON	<u>3/8 inch</u> 25-75 100-150 175-225 250-300 <u>1/2 inch</u> 25-75 100-150 175-225 250-300	11-25 14-33 18-40 21-46 9-16 12-20 15-24 16-27
229	Bullard	1093 1094 1095 1096	BM	HH	F30 thru 33 Air Entry Sys. 25-100 (4 sec.) AC-1000-30 thru 33 Air Entry Sys. 25-300 (6 sec.) 1300-30 thru 33 Air Entry Sys. 25-300 (6 sec.) T-35 only Air Entry Sys. 100 only (2 sec.)	14-25 80-95 80-95 8-15
230	Survivair	9855-02	BM	FF	(1/4 NPT- (Schrader- OBAC) 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- (Schrader- OBAC) Foster) 25 2.5-10 3.5-13 50 4-15 5-18	

C. Supplied Air Respirators
1. Type C Continuous Flow

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
231 Cont.					75 100 125 150 175 200 225 250 300	6-20 7-24 8-25 9.5-28 10-32 11-33 11.5-35 12-38 13-41 15-44 7-23 8-27 9-28 10.5-31 11-35 12-36 12.5-38 13-41 15-44
232	Pulmosan	AL-190	Bm	FF	25 or 50 or 100 only	5-15
233	Neoterik	1790, 1790-1 1790-2, 1791 1791-1, 1791-2	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	AO	R76HT R76HS	Bm	HH	25-75 100-150 175-225 250-300	3/8" I.D. 13-15 18-23 22-30 25-36 1/2" I.D. 9-12 12-16 14-19 16-22
235	Clemco	11148 11149	Bm	HH	50 or 100	12-15
241	Neoterik	2600-CF	Bm	FF	50 100 150	Inches of Water Column Height 12-15 6-23 9-32
242	Pro-Tech	2601	Bm	FF	25 to 300	30-60
243	Pro-Tech	2611	Bm	FF	25 to 200	8-25

C. Supplied Air Respirators
1. Type C Continuous Flow

Approval Number	Approval	Model	Regulator or Valve	Face- piece	Hose Length	Pressure Range
TC-19C-	Issued to	Number(s)	Location	Type	feet	psi
						Millimeters of Water Column Height 65-230
244	Kasco	K80S-T19N/2	Bm	HA	164	
245	Pro-Tech	2621	Bm	FF	25 to 300	40-55
246	WGM Safety Corp.	AL340(S) AL340(M) AL340(L)	Bm	ON	25 to 100	5-15

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	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	Fm	FF	25-300	85-120
156	Interspiro	336-890-034 336-890-043	Bm	FF	25-200	60-125

SAR TYPE C PRESSURE DEMAND

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
158	MSA	473998 473457 473464 474020 475209 thru 475224 478721 thru 478728	Bm	HH	8-300	55-85
167	Globe	2939-1* 2939-2/3*/4	Bm	FF	25-200	60-75
169	Binks	40-525 40-526 40-340 40-395	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	707.135.00 707.135.01 707.135.02 707.135.03	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

SAR TYPE C PRESSURE DEMAND

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
212	Willson	6690-A,B,C,D S6690-A,B,C,D 6790-A,B,C,D S6790-A,B,C,D	Fm	FF	25-300	75-125
226	Respiratory Systems	101178-500	Fm	FF	6 25 50 75 100 150 200 250	65-85 65-85 65-85 70-85 70-85 70-85 75-85 75-85
237	National Draeger	4050664	Fm	FF	25-300	90-120
238	3M	W402	Fm	FF	25 50 100 200 300	7-11 7-11 7-12 8-16 10-18
239	3M	W401	Fm	FF	25 50 100 200 300	8-15 10-19 12-21 17-31 21-36
240	Neoterik	2600-PD	Bm	FF	50 100 150 200	8-20 12-28 16-28 21-30

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 and 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	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
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 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	Bm	HH	25 & 50 100 200 300	25-35 30-45 35-60 40-75
69	Pauli & Griffin* Clemco* Bowen Tools* Empire Abrasive* Kelco Sales* Pangborn*					

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
70-19	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					
79-27	Encon	6400*	Bm	HH	25-50	70-90
		01-6401-31				
		01-6401-32				
		01-6401-33				
		01-6401-34				
		01-6401-35				
		01-6401-36				
		01-6451-31				
		01-6451-32				
		01-6451-33				
		01-6451-34				
		01-6451-35				
		01-6451-36				

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
79	Schmidt	6400* 01-6401-37 01-6401-38 01-6401-39 01-6401-40 01-6401-41 01-6401-42	Bm	HH	25-50	70-90
81	MSA	460907 460908 460909 460910 461713 461714 461715 461716 480606 thru 480609 480682 thru 480688	Bm	HH	8-300	55-60
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

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

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

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
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		Bm	HH	25-100 100-200 200-300	60-70 80-100 85-100
		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				
		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*					

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
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	999-3 999-4 999-5 999-6 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Anderson	999-3 999-4 999-5 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Bowen	999-3 999-4 999-5 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Pauli & Griffin	999-3 999-4 999-5 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

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

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
TC-19C-	Clemco	999-3 999-4 999-5 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Binks	999-3 999-4 999-5 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Air Components	999-3 999-4 999-5 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Ace	999-3 999-4 999-5 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Clemtex	999-3 999-4 999-5 999-7 999-8	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
102	Sulliblast	999-3 999-4 999-5 999-6	Bm	HH	10-100 10-100 100 only	12-25 80-100 8-15
105	MSA	463939 463979 480493 480709 480710	Bm	HH	8-300	55-60

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
TC-19C-						
106	MSA	463980 463981 480494 480711 480712	Bm	HH	8-50	16-20
107	MSA	463929 463930 463959 463962 463963 463967 480485 480487 480689 480690 480693 480694	Bm	HH	8-300	55-60
108	MSA	463960 463961 463964 463965 463968 463969 480486 480488 480691 480692 480695 480696	Bm	HH	8-50	16-20
116	MSA	463291 463292 463295 463296 463303 463304 463311 463312 480469 480471 480647 480648	Bm	HH	8-50	16-20

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
TC-19C-						
116	Cont.	480651 thru 480654 480476 480480 480661 480662				
117	MSA	463924 463982	Bm	HH	8-300	75-100
119	MSA	463935 463956 463957 463958 463936 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/	Bm	FF	100-300 125-300 150-300	29-53 31-59 32-60

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
161 Cont.		911/913 481791/793/795/797/ 799/801/803/805/819/ 821/823/825/827/829/ 831/833				
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

SAR TYPE CE CONTINUOUS FLOW ABRASIVE BLASTING

Approval Number	Approval Issued to	Model Number(s)	Regulator or Valve Location	Face- piece Type	Hose Length feet	Pressure Range psi
TC-19C-						
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 481835 thru 481862 480931 thru 480946 481847 thru 481862	Bm	FF	15-300	60-80
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.) AC-1000-30 thru 33 Air Entry Sys. 25-300 (6 sec.) 1300-30 thru 33 Air Entry Sys. 25-300 (6 sec.) T-35 only Air Entry Sys. 100 only (2 sec.)	14-25 80-95 80-95 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

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

PARTICULATE RESPIRATORS - SINGLE USE

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Other Approvals
364	Balkamp	763-2271	D,M
416	New England Thermoplastics	0401	D,M
445	Akron Safety	A-Safe 970 DM	D,M
464	Gerson	1725	D,M

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	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
TC-21C-					
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	Rp,Fm,ON	2	
138	MSA	96000 457344	Rp,Fm,ON	1	
139	Willson	560	Rp,Fm,ON	1	
140	Willson	1210 1210R 1210S 1210SR 1210SS 1210SSS S1210 S1210R S1210S S1210SR S1210SS S1210SSS	Rp,Fm,ON	2	
144	AO	R4030 S4030 R5030 S5030 R5530 S5530 R6030 S6030 R6530 S6530	Rp,Fm,ON	2	
147	AO	R1050	Ru,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
151	North	7506* 7506S 7506M 7506L 7706S 7706M 7706L	Rp, Fm, ON	2	
153	North	7406L* 7406M*	Rp, Fm, ON	1	Z
154	Sellstrom	315-F100	Rp, Fm, ON	2	Z
154	Protech	1482-F100 1482-S-F100 1482-L-F100 1585S-F100 1585-F100 1585L-F100	Rp, Fm, ON	2	Z
154	Safe-Tex*	236-F100*	Rp, Fm, ON	2	Z
154	Eastern	E-450	Rp, Fm, ON	2	Z
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	AO	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

PARTICULATE RESPIRATORS - DUSTS AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
165	Pulmosan	L800* 10171 10174 10216 10297	Rp, Fm, ON	1	
166	AO	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	
173	3M	8800 8530	Su, ON	1	S
174	Binks	40-150	Su, ON	1	
175	North	7100 7100V	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	

PARTICULATE RESPIRATORS - DUSTS AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
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	
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	Rp,Bm, ON	2	
182	Willson	1610 1710	Rp,Fm,FF	2	
188	MSA	461845 466242 466243 471730 471731 480389 480390 480391 483498	Rp,Fm,FF	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
190	3M	9910	Su, ON	1	
191	North	7606 7606S* 7606N* 7606SN*	Rp, Fm, FF	2	
197	Racal	AH5	PAPR, HH	1	
198	Scott	6470-0100* 6480-0100* 65-D 65S-D 65XL-D	Rp, Fm, FF	2	
206	MSA	467010	Rp, Fm, ON	1	Z
207	AO	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	

PARTICULATE RESPIRATORS - DUSTS AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
217	US Safety	151T10	Rp,Fm,FF	2	
220	MSA	467541	Ru,ON	1	
221	Pulmosan	10303 10306 10309 10312	Rp,Fm,ON	1	
224	3M	9906	Su,ON	1	
225	3M	W-316 W-343*	PAPR,H/H	1	
232	Survivair	2110-00 2210-00 2310-00	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 3010S 3010SR 3010SS 3010SSS S3010 S3010R	Rp,Bm,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
253 Cont.		S3010S S3010SR S3010SS S3010SSS			
254	Willson	3110 3210	Rp, Bm, FF	2	
261	Glendale	GR7000	Rp, Fm, FF	2	Z
264	AO	R1070	Su, ON	1	
266	AO	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	Rp, Fm, ON	2	
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	

PARTICULATE RESPIRATORS - DUSTS AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
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
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 1510R 1510SS	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
308	Willson	3510 3510R 3510SS	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	AO	R1090	Su,ON	1	
334	AO	R1080	Su,ON	1	
335	AO	R1010	Su,ON	1	
344	Protech	1694-F100	Rp,Fm,FF	2	Z
347	North	7175	Su,ON	1	S
350	Moldex	2300	Su,ON	1	
351	AO	AO 1010	Su,ON	1	
352	Canadian Technical Tape	3535	Su,ON	1	
361	3M	8715	Su,ON	1	

PARTICULATE RESPIRATORS - DUSTS AND MISTS

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
TC-21C-					
363	3M	7818 7818C 7818-L 7818-H	Rp,Fm,FF For 7818C - Comb. Type C, CF Air pressure (psig) 15 - 40 17 - 45 22 - 55 25 - 70	2 Hose length (feet) 25 - 50 75 - 100 125 - 200 225 - 300	
			For 7818-L and 7818-H - Comb. Type C, CF <u>Hose Length (ft)</u>	<u>Pressure Range (psig)</u> 7818-H 8 - 15 10 - 19 12 - 21 17 - 31 21 - 36	7818-L 7 - 11 7 - 11 7 - 12 8 - 16 10 - 18
364	Balkamp	763-2271	Su,ON	1	S
374	3M	9902	Su,ON	1	
376	Willson	6110S 6110M 6110L	ON,Rp,Fm	2	
383	Willson	6410 6510 S6410 S6510	FF,Rp,Fm	2	
386	Willson	6210S 6210M 6210L	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	8710S 8710 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	AO	S7530 S7530C	FF,Rp,Fm	2 For S7530C Comb. Type C, CF For 3/8" I.D. Hose Hose Length Air Press. <u>feet</u> <u>psig</u> 25 - 300 14 - 37 For 1/2" I.D. Hose Hose Length Air Press. <u>feet</u> <u>psig</u> 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 Air Press. <u>feet</u> <u>psig</u> 8 - 300 65 - 80		

PARTICULATE RESPIRATORS - DUSTS AND MISTS

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
433	MSA	484021 484022 484023 484033 484034 484035	FF,Fm,Rp	2	Comb. Type C, CF Hose Length Air Press. <u>feet</u> <u>psig</u> 8 - 300 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		1	S
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	Rp,Fm,FF Comb. Type C, Pd Hose Length <u>feet</u>	2	Air Pressure (psig) 7818-H 7818-L 8-15 7-11 10-19 7-11 12-21 7-12 17-31 8-16 21-36 10-18
478	Racal	Air-Mate 1	HH,PAPR	1	
479	Racal	Air-Mate 3	HH,PAPR	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	Rp, Bm, Fm, ON	2	R
141	Willson	1211 1211R 1211S 1211SR 1211SS 1211SSS S1211 S1211R S1211S S1211SR S1211SS S1211SSS	Rp, Fm, ON	2	
161	AO	R4056 S4056 R5056 S5056 R6056 S6056	Rp, Fm, ON	2	R
169	AO	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	

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
193	US Safety	150T11*	Rp, Fm, ON	2	R, Z
194	Cesco	95RC16*	Rp, Fm, ON	2	R, Z
196	Eastern Protech	E456 1482-F108 1482-S-F108 1482-L-F108 1585S-F108 1585-F108 1585L-F108	Rp, Fm, ON	2	R, Z R, Z
	Sellstrom	315-F108			R, Z
202	3M	9920	Su, ON	1	R
203	North	7507* 7507S 7507M 7507L 7707S 7707M 7707L	Rp, Fm, ON	2	
204	North	75BP07* 75BP07M 75BP07L	Rp, Bm, ON	2	
205	North	7607 7607S* 7607SN* 7607N*	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	Rp, Fm, ON	2	R

PARTICULATE RESPIRATORS - DUSTS, FUMES AND MISTS

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
TC-21C-					
209 Cont.		64SE-F 64M-F			
210	Scott	6470-0300* 6480-0300* 65-F 65S-F 65XL-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	
230	AO	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

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
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
243	Cesco	96RC19	Rp,Fm,FF	2	R
248	Sellstrom	315-G108	Rp,Fm,ON	2	
255	Willson	3011 3011R 3011S 3011SR 3011SS 3011SSS S3011 S3011R S3011S S3011SR S3011SS S3011SSS	Rp,Bm,ON	2	
256	Willson	3111 3211	Rp,Bm,FF	2	
262	Glendale	GR7026	Rp,Fm,FF	2	
268	AO	R4050W S4050W R5050W S5050W R6050W S6050W	Rp,Fm,ON	2	R

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
273	MSA	472754 472763	Rp,Bm,ON	2	R
280	Survivair	2140-00 2240-00 2340-00	Rp,Fm,ON	2	R
297	AO	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	AO	R4056A S4056A R5056A S5056A R6056A S6056A R5556A S5556A R6556A S6556A R4556A S4556A	Rp,Fm,ON	2	
306	AO	R7056A S7056A R7756A S7756A	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
309	Willson	1511, 1511R 1511SS	Rp,Bm,ON	2	
310	Willson	3511, 3511R 3511SS	Rp,Fm,ON	2	
311	Willson	1513, 1513R 1513SS	Rp,Fm,ON	2	
312	Willson	3513 3513R 3513SS	Rp,Fm,ON	2	
323	MSA	476412 thru 476420 479649 thru 479657	Rp,Fm,ON	2	R
331	North	7509S* 7509M* 7509L* 7709S* 7709M* 7709L*	Rp,Fm,ON	2	
332	North	75BP09M* 75BP09L*	Rp,Fm,ON	2	
333	North	7609* 7609S*	Rp,Fm,FF	2	
340	North	7590S/M/L 7790S/M/L	Rp,Fm,ON	2	
341	North	75BP90M 75BP90L	Rp,Fm,ON	2	
342	North	7690 7690S*	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
345	Protech	1694-F108	Rp,Fm,FF	2	R,Z
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, 1517R 1517SS	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, 3517R 3517SS	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 6120M 6120L	Rp,Fm,ON	2	R

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
395	Willson	6420 S6420 6520 S6520	Rp,Fm,FF	2	R
400	3M	9920	Su,ON	1	R,Z
409	3M	9925	Su,ON	1	R,Z
412	Koken	RE1280S-K RE1280L-K	ON,Rp,Fm	2	R,Z
418	Moldex	3400	Su,ON	1	R
419	AO	S7556A S7556AC	Rp,FF,Fm	2	For S7556AC Comb. Type C, CF For 3/8" Hose Hose Length Air Press. <u>feet</u> <u>psig</u> 25 - 300 14 - 37
					For 1/2" Hose Hose Length Pressure Range <u>feet</u> <u>psig</u> 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 6220M 6220L	Rp,Fm,ON	1	
435	MSA	483990 484003	FF,Fm,Rp	2	R Comb. Type C, CF Hose Length Air Press. <u>feet</u> <u>psig</u> 8 - 300 35 - 40

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	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 1212R 1212S 1212SR 1212SS 1212SSS S1212 S1212R S1212S S1212SS S1212SSS S1212SR	Rp, Fm, ON	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
149	Scott	6160-1050 6160-2050 6170-0050 6170-1050 6170-2050 6150-0050 6150-1050 6150-2050 6155-0050 6155-1050 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	Rp, Fm, FF	1	A
150	MSA	88479 457117 480826	Rp, Fm, FF	1	A
152	North	7580* 7580S 7780S 7580M 7780M 7580L 7780L	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

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
160	AO	R4057* R5057* R6057*	Rp, Fm, ON	2	
168	North	75BP80* 75BP80M 75BP80L	Rp, Bm, ON	2	A
171	North	7680 7680N* 7680S* 7680SN*	Rp, Fm, FF	2	A
178	Scott	6411-0050* 6411-2050* 6411-3050* 6412-0050* 6413-0050* 6413-2050* 6413-3050* 6421-0050* 6422-0050* 6423-0050* 604022-50 64-H 64E-H 64M-H 64ME-H 64S-H 64SE-H	Rp, Fm, ON	2	R, A
184	Willson	1612 1712	Rp, Fm, FF	2	A
186	MSA	463353 463354 463355 466607 466608 467963 467964 478735 478736 480456	PAPR, ON, FF	2	A

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
TC-21C-					
186 Cont.		480457			
		480458			
		480067			
		480068			
		480069			
		480074			
		480075			
		480084			
		480085			
		480086			
		480090			
		480091			
		480092			
		484110			
		484111			
		484112			
		484116			
		484117			
		484118			
		484122			
		484123			
		484124			
		484128			
		484129			
		484130			
		484134			
		484135			
		484136			
		484140			
		484141			
		484142			
		484146			
		484147			
		484148			
		484152			
		484153			
		484154			
		487867			
		487868			
199	Scott	6422-0050*	Rp,Fm,FF	2	R,A
		6480-0050*			
		65-H			
		65S-H			
		65XL-H			

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
TC-21C-					
200	MSA	466095 466096 478773 478774 480196 480198 480197	SAR,FF Combination Type C, CF 35 - 40 psig; 8-300 ft. hose	1	A
201	MSA	466097 466098 466603 480202 480203 480204 480208 480209 480210	SAR,ON Combination Type C, CF 35 - 40 psig; 8-300 ft. hose	1	A
208	AO	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

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
228	US Safety	150T12 150L12 100S12 200S12 100M12 200M12 100L12 200L12 300S/M12 300M/L12	Rp, Fm, ON	2	R, A
229	US Safety	151T12	Rp, Fm, FF	2	R, A
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 2290-00 2390-00	Rp, Fm, ON	2	A
245	Survivair	3290-00 4290-00	Rp, Fm, FF ON, Bm, Rp	2 1	A A
246	3M	W-344	PAPR, HH	1	A
249	AO	R4057A S4057A R5057A	Rp, Fm, ON	2	R, A

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
TC-21C-					
249 Cont.		S5057A R6057A S6057A R5557A S5557A R6557A S6557A			
250	AO	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 3012R 3012S 3012SR 3012SS 3012SSS S3012 S3012R S3012S S3012SR S3012SS S3012SSS	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

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
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	Rp,Bm,ON	2	A
275	Racal	BE 1/P3	PAPR,HH	3	A,R
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

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
286	Neoterik	AB7 HH7	PAPR,HH	1	A,R
296	AO	R8157A S8157A R8157A* S8157A*	Rp,Fm,ON	1	A,R
313	Willson	1512 1512R 1512SS	Rp,Fm,ON	2	A
314	Willson	3512 3512R 3512SS	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
324	Racal	BE8/P3	PAPR,ON	3	A,R
325	Glendale	GR-2050 GR-4050 GR-1650 GR-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

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
330	Neoterik	NP1664-1 NP1564-2 NP1964-1	PAPR,FF	3	A,R
336	MSA	477978	Rp,Fm,ON NOT APPROVED FOR RADIONUCLIDES	2	A
337	MSA	477979	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2	A
338	MSA	477977	Rp,Bm,ON NOT APPROVED FOR RADIONUCLIDES	2	A
339	MSA	487976	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 481019 481025 481031	FF,Rp,Bm Combination Type CE, CF 35-40 psig, 8 to 300 feet hose	1	A
346	Protech	1694-G108	Rp,Fm,FF	2	A,R
349	Eastern Safety	285	Rp,Fm,ON	2	A,R

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
TC-21C-					
353	Racal	PF/PP/7SP3	PAPR,FF	1	A,R
354	MSA	478740 thru 478745 480070 480071 480072 480093 480094 480095 480076 480077 480078 480087 480088 480089 484125 484126 484127 484131 484132 484133 484137 484138 484139 484143 484144 484145 484149 484150 484151 484155 484156 484157	PAPR,ON NOT APPROVED FOR RADIONUCLIDES	2	A
355	MSA	478737 478738 478739 480459 480460 480461 484113 484114 484115 484119 484120 484121	PAPR,FF NOT APPROVED FOR RADIONUCLIDES	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
356	MSA	478760 478759 480827	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	1	A
357	MSA	478779 478780 478781 480205 480206 480207 480211 480212 480213	SAR,ON NOT APPROVED FOR RADIONUCLIDES Combination Type C, CF 35 - 40 psig, 8-300 ft. hose	1	A
358	MSA	478775 478776 478778 478777 480199 480200 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

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
360	North	7880 7880S*	SAR,FF Combination Type C, CF Air pressure (psig) 11-35 12-36 16-45 19-50	2 C, CF Hose length (feet) 12.5-50 75-125 150-225 250-300	A
			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	
362	3M	7806 7806C 7806-L 7806-H	Rp,Fm,FF For 7806C Combination Type C, CF Air pressure (psig) 15 - 40 17 - 45 22 - 55 25 - 70	2 Hose length (feet) 25 - 50 75 - 100 125 - 200 225 - 300	A,R
			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
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) 6 - 65	1 Hose length (feet) 25 - 300	A

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
373	Willson	1813A/B/C/D/E	FF,Rp,Bm Combination Type C, CF Air pressure (psig) 6 - 65	1 Hose length (feet) 25 - 300	A
375	North	85780	Rp,Fm,FF Combination Type C, Pd Air pressure (psig) 78 - 80	2 Hose length (feet) 12.5 - 300	A
377	Willson	6140S 6140M 6140L	ON,Rp,Fm	2	A
378	Willson	6240S 6240M 6240L	ON,Rp,Fm	1	A
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. Hose Length psig feet 6-65 25-300	A
380	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	FF,Rp,Bm	1 Comb. Type C, CF Air Pres. Hose Length psig feet 6-65 25-300	A
381	Willson	6473A/B/C/D/E S6473A/B/C/D/E 6573A/B/C/D/E S6573A/B/C/D/E	FF,Rp,Bm	1 Comb. Type C, CF Air Pres. Hose Length psig feet 6-65 25-300	A

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
382	Racal	PD1-1 PD1-2	FF,Rp,Fm	1 Comb. Type C, PD Air Pres. <u>psig</u> 85-120	R,A Hose Length <u>feet</u> 25-300
384	Willson	6440 S6440 6540 S6540	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. <u>psig</u> 80-120	Hose Length <u>feet</u> 25-300
387	Willson	6673 S6673 6773 S6773	Rp,Fm,FF	1	A
391	Scott	66STC-H S66STC-H 66MTC-H S66MTC-H 66LTC-H S66LTC-H	Rp,Fm,ON	2	A,R
393	Willson	6693-A,B,C,D S6693-A,B,C,D 6793-A,B,C,D S6793-A,B,C,D	Rp,Fm,FF	1 Comb. Type C, Pd Hose Length <u>feet</u> 25 - 300 50 - 100 25 - 50	A Air Press. <u>psig</u> R714 75 - 125 R814 75 - 125 R825 75 - 125

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
TC-21C-					
396	MSA	481886 481887 481903 481904 481909 481910 481911	ON,Rp,Bm	1 Comb. Type C, Pd Hose Length <u>feet</u> 8 - 300	A Air Press. <u>psig</u> 65 - 85
397	MSA	481885 481889 481890 481897 481898 481899	FF,Bm,Rp	1 Comb. Type C, Pd Hose Length <u>feet</u> 8 - 300	A Air Press. <u>psig</u> 65 - 85
398	MSA	481894 481895 481896 481906 481907 481908 481912 481913 481914	ON,Bm,Rp NOT APPROVED FOR RADIONUCLIDES	1 Comb. Type C, Pd Hose Length <u>feet</u> 8 - 300	A Air Press. <u>psig</u> 65 - 85
399	MSA	481891 481892 481893 481900 481901 481902	FF,Bm,Rp NOT APPROVED FOR RADIONUCLIDES	1 Comb. Type C, Pd Hose Length <u>feet</u> 8 - 300	A Air Press. <u>psig</u> 65 - 85
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
404	Neoterik	NP1801-5 NP1801-7 NP1800	PAPR,FF	1	R,A

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
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 Air Press. Hose Length Valve psig 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 Press. Range feet 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 Hose Length Press Range Valve feet 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 Press. Range feet 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 Hose Length Press Range Valve feet psig					
1840 50 - 300 10 - 26					
1841 50 - 300 32 - 50					
1842 50 - 300 50 - 70					

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

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 <u>feet</u> 25 - 300	A Press. Range <u>psig</u> 30 - 125
417	AO	S7557A S7557AC	FF,Rp,Fm	2 For S7557AC Comb. Type C, CF Hose Length <u>feet</u> 25 - 300	R,A Press. Range <u>psig</u> 14 - 37
				For 1/2" Hose Hose Length <u>feet</u> 25 - 75 100 - 150 175 - 225 250 - 300	Press. Range <u>psig</u> 14 - 22 16 - 26 18 - 29 20 - 32
423	Glendale	GR9550	Rp,Fm,ON	2	R,A
425	Neoterik	NP1900-1 NP1900-2 NP1900-3	FF,PAPR Valve 1840 1841 1842	3 Hose Length <u>feet</u> 25 - 100 25 - 300 25 - 300	R,A Comb. Type C, CF Press. Range <u>psig</u> 14 - 16 50 - 60 60 - 70
426	MSA	484378 484382 484383 484390 484391 484392	Rp,Bm,FF	1 Comb. Type C, Pd Hose Length <u>feet</u> 8 - 300	A Press. Range <u>psig</u> 65 - 85

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
427	MSA	484379 484380 484381 484396 484397 484398 484402 484403 484404	Rp,Bm,FF	1 Comb. Type C, Pd Hose Length <u>feet</u> 8 - 300	A Press. Range <u>psig</u> 65 - 85
428	MSA	484385 484386 484384 484393 484394 484395	Rp,Bm,FF	1 Comb. Type C, Pd Hose Length <u>feet</u> 8 - 300	A Press. Range <u>psig</u> 65 - 85
429	MSA	484387 484388 484399 484400 484401 484405 484406 484407	Rp,Bm,ON	1 Comb. Type C, Pd Hose Length <u>feet</u> 8 - 300	A Press. Range <u>psig</u> 65 - 85
430	MSA	484485 484452 484453 484454 484464 484466 484465	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length <u>feet</u> 8 - 300	A Press. Range <u>psig</u> 65 - 85
432	MSA	484458 484459 484460 484470 484471 484472	Rp,Fm,FF	2 Comb. Type C, Pd Hose Length <u>feet</u> 8 - 300	A Press. Range <u>psig</u> 65 - 85

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
434	MSA	484002 484018 484019 484020 484030 484031	Rp,Fm,FF	2 Comb. Type C, CF Hose Length <u>feet</u> 8 - 300	A Press. Range <u>psig</u> 35 - 40
436	MSA	484024 484025 484026 484036 484037 484038	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2 Comb. Type C, CF Hose Length <u>feet</u> 8 - 300	A Press. Range <u>psig</u> 35 - 40
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 Press. Range <u>feet</u> <u>psig</u> 25 - 50 15 - 40 75 - 100 17 - 45 125 - 200 22 - 55 225 - 300 25 - 70		
		For 7819-H and 7819-L Comb. Type C, CF Hose Length Press. Range <u>feet</u> <u>(psig)</u> 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			

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
441	RSI	101270-1 101270-21 101270-31	Rp, Fm, FF	1	A
				Comb. Type C, Pd Hose Length feet 25-300	Pressure Range (psig) 65 - 85
442	National Draeger	4052460 4052461 4052464 4052465	Rp, Fm, FF	1	
				Comb. Type C, Pd Hose Length feet 25-300	Pressure Range (psig) 90 - 120
446	Neoterik	NP2000	FF, PAPR	2	R, A
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

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
TC-21C-					
448	Neoterik	NP2000-1 NP2000-2 NP2000-3 NP2000-4	FF,PAPR	2	R,A
Comb. Type C, CF					
Hose Length Pressure Range					
<u>Adapter</u> <u>feet</u> <u>(psig)</u>					
NP1840 25-100 13-16					
NP1841 25-300 50-60					
For 1/2" Hose and NP1840 Adaptor Only:					
Hose Length Press. Range					
<u>feet</u> <u>psig</u>					
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					
Hose Length Pressure Range					
<u>Adapter</u> <u>feet</u> <u>(psig)</u>					
NP1840 25-100 12-16					
NP1841 25-300 40-60					
For 1/2" Hose and NP1840 Adaptor Only:					
Hose Length Press. Range					
<u>feet</u> <u>psig</u>					
50 - 100 9 - 11					
450	Neoterik	NP1800-6 NP1800-13	ON,PAPR	1	R,A
Comb. Type C, CF					
Hose Length Pressure Range					
<u>Adapter</u> <u>feet</u> <u>(psig)</u>					
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, CF					
Hose Length Pressure Range					
<u>feet</u> <u>(psig)</u>					
50 10-16 40-50					
100 14-20 42-52					

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
TC-21C-					
451 Cont.				150	44-54
				200	45-55
				250	47-57
				300	48-58
For 1/2" Hose and NP1840 Adaptor Only:					
		Hose Length		Press. Range	
		feet		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	FF, PAPR, Bm	1	A
453	Willson	6383S 6383M 6383L	ON, PAPR, Bm	1	A
454	Neoterik	NP2001	FF, Rp, Fm	2	R, A
455	Survivair	9811-03	FF, Rp, Fm	2	A
				Comb. Type C, Pd	
				Hose Length	Pressure Range
				feet	(psig)
				25-300	60-125
456	3M	W415	FF, PAPR, Bm	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
457	Neoterik	NP2001-1 NP2001-2 NP2001-3 NP2001-4	FF,Rp,Fm	2	R,A
Comb. Type C, CF Hose Length feet Pressure Range (psig)					
Adapter NP1840-FB NP1841-VB NP1842-CB					
25-100 25-300 25-300					
13-16 43-48 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					
50 100 150 200 250 300					
10-16 14-20 15-22 17-24 18-26 20-26					
40-50 42-52 44-54 45-55 47-57 48-58					
50-60 52-62 54-64 56-66 58-68 60-70					
For 1/2" Hose and NP1840 Adaptor Only: Hose Length feet Press. Range psig					
50 100 150 200 250 300					
7 - 11 8 - 13 9 - 15 10 - 16 11 - 17 12 - 18					
459	Kasco	K80S-T5A/BP3- 2	HH,PAPR	1	A
460	Neoterik	NP2100	FF,PAPR	1	R,A

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
461	Neoterik	NP2100-3 NP2100-4 NP2100-1 NP2100-2	FF,PAPR	1	R,A
Comb. Type C, CF Hose Length Pressure Range					
Adapter feet (psig)					
1840 25-100 13-16					
1841 25-300 50-60					
For 1/2" Hose Hose Length Press. Range					
Adaptor feet 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 Pressure Range					
feet (psig)					
25-300 50-60					
463	Racal	Select-Air 2	FF,RP,FM	1	R,A
Comb. Type C, PD Hose Length Pressure Range					
feet (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	2	A
NOT APPROVED FOR RADIONUCLIDES					

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number TC-21C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
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	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	ON,Rp,PAPR	2	A
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

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
475	3M	7806-H 7806-L	Rp, Fm, FF	2	R, A
			Comb. Type C, PD		
			Hose Length	Pressure Range	
			feet	(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
477	3M	7819-H 7819-L	Rp, Fm, FF	2	R, A
			Comb. Type C, PD		
			Hose Length	Pressure Range	
			feet	(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
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
			For 1/2" Hose		
			Hose Length	Press. Range	
			feet	psig	
			Adaptor		
			NP1840-FB	25 - 100	9 - 11
			NP1841-VB	25 - 300	31 - 36

PARTICULATE RESPIRATORS - HIGH EFFICIENCY

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

Comb. Type C, PD					
For 3/8" Hose			For 1/2" Hose		
Pressure Range (psig)			Pressure Range (psig)		
Hose Length	NP1840	NP1841	Hose Length	NP1840	NP1841
feet	Adapter	Adapter	feet	Adapter	Adapter
50	10-16	40-46	50	7-11	28-36
100	14-20	42-48	100	8-13	28-37
150	15-22	44-50	150	9-15	29-38
200	18-24	45-51	200	10-16	30-38
250	19-26	47-53	250	11-17	31-39
300	20-26	48-54	300	12-18	32-40

483	3M	W421	HH, PAPR	1	A
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484	Bullard	QHP	HH, PAPR	2	R, A
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485	Pro-Tech	2601-HEPA	FF, Fm, Rp, Es	1	R, A
Comb. Type C, CF					
Hose Length			Pressure Range		
feet			(psig)		
25-300			30-60		

486	Pro-Tech	2611-HEPA	FF, Fm, Rp, Es	1	R, A
Comb. Type C, CF					
Hose Length			Pressure Range		
feet			(psig)		
25-300			8-25		

487	Pro-Tech	2621-HEPA	FF, Fm, Rp	1	R, A
Comb. Type C, CF					
Hose Length			Pressure Range		
feet			(psig)		
25-300			40-55		

488	3M	9101	ON, Fm, Rp	2	R, A
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489	3M	7821 7821-C 7821-H 7821-L	FF, Fm, Rp	2	R, A
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PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
489 Cont.					
				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 7821H 7821L	FF, Fm, Rp	2	R, A
					Comb. Type C, Pd
				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
491	Survivair	7812-04	FF, Fm, Rp	2	R, A
					Comb. Type C, Pd
				Hose Length feet	Pressure Range (psig)
				25	9-25
				50	10-30
				75	13-30
				100	14-30
				150	16-45
				200	17-50
				250	21-58
				300	24-60

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.

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
43	MSA	459436 461008	Rp, Fm, Bm, ON	2	D, M	MA
63	North	7504* 7504M 7704M 7504S 7704S 7504L 7704L	Rp, Fm, ON	2		MA
64	North	7514* 7514M 7714M 7514S 7714S 7514L 7714L	Rp, Fm, ON	2	D, M	MA
70	Willson	1224 S1224R 1224S S1224SS 1224SR S1224 S1224SSS S1224SR 1224SSS S1224S 1224R 1224SS	Rp, Fm, ON	2		MA
71	Willson	122410 S122410 122410S S122410R 122410SS S122410SR 122410SSS S122410S 122410R S122410SS 122410SR S122410SSS	Rp, Fm, ON	2	D, 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
109	AO	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	Rp, Fm, Bm, ON	2	H, A	MA
176	North	75BP04* 75BP04M 75BP04L	Rp, Bm, ON	2		MA
177	North	75BP14* 75BP14M 75BP14L	Rp, Bm, ON	2	D, M	MA
182	North	7604 7604S* 7604N* 7604SN*	Rp, Fm, FF	2		MA
187	North	7614 7614S* 7614N* 7614SN*	Rp, Fm, FF	2	D, 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
191	US Safety	150T22 150L22 100S22 200S22 100M22 200M22 100L22 200L22 300S/L22 300M/L22	Fm, ON	2		MA
192	Cesco	95RC65 95SMRC65 100S22 200S22 100M22 200M22 100L22 200L22 300S/L22 300M/L22	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
194	Cesco	95RC95 95SMRC95 100S27 200S27 100M27 200M27 100L27 200L27 300S/M27 300M/L27	Rp, Fm, ON	2	D, 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
213	North	7584M 7784M 7584S 7784S 7584L 7784L 7584*	Rp, Fm, ON	2	H, R, A	MA
214	North	75BP84* 75BP84L 75BP84M	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	D, M 8728 only	MA
235	AO	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
253	Scott	6470-0004* 65-AM 6480-0004* 65S-AM 65XL-AM	Rp, Fm, FF	2		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
254	Scott	6411-0104* 64-AM-D 6413-0104* 64E-AM-D 6421-0104* 64M-AM-D 6423-0104* 64ME-AM-D 6412-0104* 64S-AM-D 6422-0104* 64SE-AM-D	Rp,Fm,ON	2	D,M	MA
255	Scott	6470-0104* 6480-0104 65-AM-D 65S-AM-D 65XL-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	D,F,M,R	MA
257	Scott	6470-0304* 6480-0304* 65-AM-F 65S-AM-F 656XL-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

CHEMICAL CARTRIDGES - AMMONIA

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
279	Protech	1482-G106 1482-S-G106 1482-L-G106 1585S-G106 1585-G106 1585L-G106	Rp,Fm,ON	2		MA
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 1234R 1234S 1234SR 1234SS 1234SSS S1234 S1234R S1234S S1234SR S1234SS S1234SSS	Rp,Fm,ON	2		MA
290	Willson	1634 1734	Rp,Fm,FF	2		MA

CHEMICAL CARTRIDGES - AMMONIA

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
291	Willson	123412 123412R 123412S 123412SR 123412SS 123412SSS S123412 S123412R S123412S S123412SR S123412SS S123412SSS	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 100L42 200L42 300S/M42 300M/L42	Rp, Fm, ON	2	H, R, A	MA
316	Cesco	96RC60	Rp, Fm, FF	2	H, R, A	MA
317	US Safety	151T42	Rp, Fm, FF	2	H, R, A	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
319	Sellstrom	315-G106	Rp,Fm,ON	2		MA
329	AO	R4054A S4054A R5054A S5054A R6054A S6054A R5554A S5554A R6554A S6554A	Rp,Fm,ON	2		MA
330	AO	R7054A S7054A R7754A S7754A	Rp,Fm,FF	2		MA
331	AO	R4054AD S4054AD R5054AD S5054AD R6054AD S6054AD R5554AD S5554AD R6554AD S6554AD	Rp,Fm,ON	2	D,M	MA
332	AO	R7054AD S7054AD R7754AD S7754AD	Rp,Fm,FF	2	D,M	MA
347	Eastern	E453	Rp,Fm,ON	2		MA
350	North	10004S 10004M	Su,ON	1		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
358	North	10014S 10014M	Su,ON	1	D,M	MA
364	Willson	3024 3024S S3024 3024SR S3024S 3024R S3024R S3024SR S3024SS S3024SSS 3024SS 3024SSS	Rp,Bm,ON	2		MA
365	Willson	3124 3224	Rp,Bm,FF	2		MA
366	Willson	3034 3034S S3034 3034R S3034R 3034SR S3034S S3034SR S3034SS S3034SSS 3034SS 3034SSS	Rp,Bm,ON	2		MA
367	Willson	3134 3234	Rp,Bm,FF	2		MA
378	Willson	302410 S302410 302410S S302410R 302410R S302410SR 302410SR	Rp,Bm,ON	2	D,M	MA

CHEMICAL CARTRIDGES - AMMONIA

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
378 Cont.		S302410SS S302410SSS 302410SS 302410SSS S302410S				
379	Willson	312410 322410	Rp, Bm, FF	2	D, M	MA
384	Willson	303412 S303412 303412R S303412R 303412S S303412S 303412SR S303412SS S303412SSS 303412SS 303412SSS S30314SR	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	AO	R5054HE S5054HE R4054HE S4054HE R6054HE S6054HE R5554HE S5554HE R6554HE S6554HE	Rp, Fm, ON	2	H, R, A	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
420	AO	R7054HE S7054HE R7754HE S7754HE	Rp, Fm, FF	2	H, R, A	MA
422	Survivair	2104-00 2204-00 2304-00	Rp, Fm, ON	2		MA
423	Survivair	3204-00 4204-00	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	Rp, Bm, ON	2	D, M	MA
468	MSA	472758	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
515	Pirelli	4336.2022	Rp, Fm, ON	2		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
519	Scott	64-AM-H 64E-AM-H 64M-AM-H 64ME-AM-H 64S-AM-H 64SE-AM-H	Rp, Fm, ON	2	H, R, A	MA
520	Scott	65-AM-H, 65S-AM-H 65XL-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 1524R 1524SS	Rp, Fm, ON	2		MA
560	Willson	3524 3524R 3524SS	Rp, Fm, ON	2		MA
561	Willson	1534 1534R 1534SS	Rp, Fm, ON	2		MA
562	Willson	3534 3534R 3534SS	Rp, Fm, ON	2		MA
575	Willson	152410 152410R 152410SS	Rp, Fm, ON	2	D, 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
576	Willson	352410 352410R 352410SS	Rp,Fm,ON	2	D,M	MA
581	Willson	153412 153412R 153412SS	Rp,Fm,ON	2	H,A	MA
582	Willson	353412 353412R 353412SS	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

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
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
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	D,F,M	MA
659	North	75BP94M	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
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 Air pressure (psig) 15 - 40 17 - 45 22 - 55 25 - 70	2 Hose length (feet) 25 - 50 75 - 100 125 - 200 225 - 300		MA

CHEMICAL CARTRIDGES - AMMONIA

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
686 Cont.				Hose Length (feet)	Press. Range psig	
					7804-H 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
692	3M	7811	Rp,Fm,FF	2	D,M	MA
		7811C	For 7811C Combination Type C, CF			
		7811-L	Air pressure	Hose length		
		7811-H	(psig)	(feet)		
			15 - 40	25 - 50		
			17 - 45	75 - 100		
			22 - 55	125 - 200		
			25 - 70	225 - 300		
				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
696	3M	7815	Rp,Fm,FF	2	H,R,A	MA
		7815C	For 7815C Combination Type C, CF			
		7815-L	Air pressure	Hose length		
		7815-H	(psig)	(feet)		
			15 - 40	25 - 50		
			17 - 45	75 - 100		
			22 - 55	125 - 200		
			25 - 70	225 - 300		
				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

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
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 152417R 152417SS	ON,Rp,Fm	2	D,F,M	MA
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 352417R 352417SS	ON,Rp,Bm	2	D,F,M	MA
735	Willson	6104S 6104M 6104L	ON,Rp,Fm	2		MA
739	Willson	6204S 6204M 6204L	ON,Rp,Fm	1		MA
744	Willson	6404 S6404 6504 S6504	FF,Rp,Fm	2		MA
750	Willson	6414 S6414 6514 S6514	FF,Rp,Fm	2	DM	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
752	Willson	6114S 6114M 6114L	ON,Rp,Fm	2	DM	MA
758	Willson	6214S 6214M 6214L	ON,Rp,Fm	1	DM	MA
761	Willson	6144S 6144M 6144L	Rp,ON,Fm	2	HA	MA
762	Willson	S6444 6444 6544 S6544	Rp,Fm,FF	2	HA	MA
772	Scott	66STC-AM S66STC-AM 66MTC-AM S66MTC-AM 66LTC-AM S66LTC-AM	Rp,Fm,ON	2		MA
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

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
785	Willson	6124S 6124M 6124L	Rp, Fm, ON	2	DFMR	MA
786	Willson	6424 S6424 6524 S6524	Rp, Fm, FF	2	DFMR	MA
795	AO	S7554HE S7554HEC	FF, Rp, Fm	2	H, R, A For S7557HEC Comb. Type C, CF Hose Length Press. Range <u>feet</u> <u>psig</u> 25 - 300 14 - 37 For 1/2" Hose Hose Length Press. Range <u>feet</u> <u>psig</u> 25 - 75 14 - 22 100 - 150 16 - 26 175 - 225 18 - 26 250 - 300 20 - 32	MA
800	AO	S7554A S7554AC	Rp, Fm, FF	2	For S7554AC Comb. Type C, CF Hose Length Press. Range <u>feet</u> <u>psig</u> 25 - 300 14 - 37 For 1/2" Hose Hose Length Press. Range <u>feet</u> <u>psig</u> 25 - 75 14 - 22 100 - 150 16 - 26 175 - 225 18 - 26 250 - 300 20 - 32	MA
810	AO	S7554AD S7554ADC	Rp, Fm, FF	2	DM For S7554ADC Comb. Type C, CF Hose Length Press. Range <u>feet</u> <u>psig</u> 25 - 300 14 - 37	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
810 Cont.				For 1/2" Hose Hose Length Press. Range feet psig 25 - 75 14 - 22 100 - 150 16 - 26 175 - 225 18 - 26 250 - 300 20 - 32		
823	Glendale	GR9524	Rp,Fm,ON	2		
824	Glendale	GR9524-50	Rp,Fm,ON	2	HRA	
827	Willson	6224S 6224M 6224L	Rp,Fm,ON	1	DFM	MA
834	MSA	484477	Rp,Fm,FF	2	DM Comb. Type C, Pd Hose Length Press. Range feet psig 8 - 300 65 - 85	MA
840	MSA	484483	Rp,Fm,FF	2	HA Comb. Type C, Pd Hose Length Press. Range feet psig 8 - 300 65 - 85	MA
845	MSA	483994	Rp,Fm,FF	2	DM Comb. Type C, CF Hose Length Press. Range (feet) psig 8-300 35 - 40	MA
856	MSA	484000	Rp,Fm,FF	2	HA Comb. Type C, CF Hose Length Press. Range (feet) psig 8-300 35 - 40	MA
858	AO	R9724A	Es,MP	1		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
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	Rp,Fm,FF	2		MA
Comb. Type C, PD Hose Length (feet) Press. 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						
885	3M	7811-H 7811-L	Rp,Fm,FF	2	DM	MA
Comb. Type C, PD Hose Length (feet) Press. 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						
886	3M	7815-H 7815-L	Rp,Fm,FF	2	HRA	MA
Comb. Type C, PD Hose Length (feet) Press. 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						

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
895	Racal	BE10/K	HH, PAPR	3		MA
898	Racal	BE10/KP3	HH, PAPR	3	HRA	MA
908	AO	R4054AF S4054AF R5054AF S5054AF R6054AF S6054AF	Rp, Fm, ON	2	DFMR	MA
909	AO	R7054AF S7054AF R7754AF S7754AF	Rp, Fm, FF	2	DFMR	MA
910	AO	S7554AF S7554AFC	Rp, Fm, FF	2	DFMR	MA
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. Methyl Amine

Approval

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

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 - METHYL AMINE

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	Rp, Fm, Bm, ON	2	D, M	NH3
63	North	7504* 7504M 7704M 7504S 7704S 7504L 7704L	Rp, Fm, ON	2		NH3
64	North	7514* 7514M 7714M 7514S 7714S 7514L 7714L	Rp, Fm, ON	2	D, M	NH3
70	Willson	1224 S1224R 1224S S1224SS 1224SR S1224 S1224SSS S1224SR 1224SSS S1224S 1224R 1224SS	Rp, Fm, ON	2		NH3
71	Willson	122410 S122410 122410S S122410R 122410SS S122410SR 122410SSS S122410S 122410R S122410SS 122410SR S122410SSS	Rp, Fm, ON	2	D, M	NH3

CHEMICAL CARTRIDGES - METHYL AMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
109	AO	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	Rp, Fm, Bm, ON	2	H, A	NH3
176	North	75BP04* 75BP04M 75BP04L	Rp, Bm, ON	2		NH3
177	North	75BP14* 75BP14M 75BP14L	Rp, Bm, ON	2	D, M	NH3
182	North	7604 7604S* 7604N* 7604SN*	Rp, Fm, FF	2		NH3
187	North	7614 7614S* 7614N* 7614SN*	Rp, Fm, FF	2	D, M	NH3

CHEMICAL CARTRIDGES - METHYL AMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
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
194	Cesco	95RC95 95SMRC95 100S27 200S27 100M27 200M27 100L27 200L27 300S/M27 300M/L27	Rp, Fm, ON	2	D, M	NH3

CHEMICAL CARTRIDGES - METHYL AMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
213	North	7584M 7784M 7584S 7784S 7584L 7784L 7584*	Rp, Fm, ON	2	H, A, R	NH3
214	North	75BP84* 75BP84L 75BP84M	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	D, M 8728 only	NH3
235	AO	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		NH3
253	Scott	6470-0004* 6480-0004* 65-AM 65S-AM 65XL-Am	Rp, Fm, FF	2		NH3

CHEMICAL CARTRIDGES - METHYL AMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
254	Scott	6411-0104* 6412-0104* 6413-0104* 6421-0104* 6422-0104* 6423-0104* 64-AM-D 64E-AM-D 64M-AM-D 64ME-AM-D 64S-AM-D 64SE-AM-D	Rp, Fm, ON	2	D, M	NH3
255	Scott	6470-0104* 6480-0104* 65-AM-D 65S-AM-D 65XL-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	D, F, M, R	NH3
257	Scott	6470-0304* 6480-0304* 65-AM-F 65S-AM-F 656XL-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

CHEMICAL CARTRIDGES - METHYL AMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
279	Protech	1482-G106 1482-S-G106 1482-L-G106 1585S-G106 1585-G106 1585L-G106	Rp, Fm, ON	2		NH3
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 1234R 1234S 1234SR 1234SS 1234SSS S1234 S1234R S1234S S1234SR S1234SS S1234SSS	Rp, Fm, ON	2		NH3
290	Willson	1634 1734	Rp, Fm, FF	2		NH3

CHEMICAL CARTRIDGES - METHYL AMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
291	Willson	123412 123412R 123412S 123412SR 123412SS 123412SSS S123412 S123412R S123412S S123412SR S123412SS S123412SSS	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 100L42 200L42 300S/M42 300M/L42	Rp, Fm, ON	2	H, A, R	NH3
316	Cesco	96RC60	Rp, Fm, FF	2	H, A, R	NH3
317	US Safety	151T42	Rp, Fm, FF	2	H, A, R	NH3

CHEMICAL CARTRIDGES - METHYL AMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
319	Sellstrom	315-G106	Rp, Fm, ON	2		NH3
329	AO	R4054A S4054A R5054A S5054A R6054A S6054A R5554A S5554A R6554A S6554A	Rp, Fm, ON	2		NH3
330	AO	R7054A S7054A R7754A S7754A	Rp, Fm, FF	2		NH3
331	AO	R4054AD S4054AD R5054AD S5054AD R6054AD S6054AD R5554AD S5554AD R6554AD S6554AD	Rp, Fm, ON	2	D, M	NH3
332	AO	R7054AD S7054AD R7754AD S7754AD	Rp, Fm, FF	2	D, M	NH3
347	Eastern	E453	Rp, Fm, ON	2		NH3
350	North	10004S 10004M	Su, ON	1		NH3
358	North	10014S 10014M	Su, ON	1	D, M	NH3

CHEMICAL CARTRIDGES - METHYL AMINE

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
364	Willson	3024 3024S S3024 3024SR S3024S 3024R S3024R S3024SR S3024SS S3024SSS 3024SS 3024SSS	Rp, Bm, ON	2		NH3
365	Willson	3124 3224	Rp, Bm, FF	2		NH3
366	Willson	3034 3034S S3034 3034R S3034R 3034SR S3034S S3034SR S3034SS S3034SSS 3034SS 3034SSS	Rp, Bm, ON	2		NH3
367	Willson	3134 3234	Rp, Bm, FF	2		NH3
378	Willson	302410 S302410 302410S S302410R 302410R S302410SR 302410SR S302410SS S302410SSS 302410SS 302410SSS S302410S	Rp, Bm, ON	2	D, M	NH3

CHEMICAL CARTRIDGES - METHYL AMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
379	Willson	312410 322410	Rp, Bm, FF	2	D, M	NH3
384	Willson	303412 S303412 303412R S303412R 303412S S303412S 303412SR S303412SS S303412SSS 303412SS 303412SSS S30314SR	Rp, Bm, ON	2	H, A	NH3
385	Willson	313412 323412	Rp, Bm, FF	2	H, A	NH3
419	AO	R5054HE S5054HE R4054HE S4054HE R6054HE S6054HE R5554HE S5554HE R6554HE S6554HE	Rp, Fm, ON	2	H, A, R	NH3
420	AO	R7054HE S7054HE R7754HE S7754HE	Rp, Fm, FF	2	H, A, R	NH3
422	Survivair	2104-00 2204-00 2304-00	Rp, Fm, ON	2		NH3
423	Survivair	3204-00 4204-00	Rp, Fm, ON	2		NH3

CHEMICAL CARTRIDGES - METHYL AMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
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	Rp, Bm, ON	2	D, M	NH3
468	MSA	472758	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	H, A, R	NH3
520	Scott	65-AM-H, 65S-AM-H 65XL-AM-H	Rp, Fm, FF	2	H, A, R	NH3

CHEMICAL CARTRIDGES - METHYL AMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
544	Safety Supply	F-200-AM F-160-AM F-800-AM	Rp, Fm, ON	2		NH3
545	Safety Supply	F-700-AM	Rp, Fm, FF	2		NH3
559	Willson	1524 1524R 1524SS	Rp, Fm, ON	2		NH3
560	Willson	3524 3524R 3524SS	Rp, Fm, ON	2		NH3
561	Willson	1534 1534R 1534SS	Rp, Fm, ON	2		NH3
562	Willson	3534 3534R 3534SS	Rp, Fm, ON	2		NH3
575	Willson	152410 152410R 152410SS	Rp, Fm, ON	2	D, M	NH3
576	Willson	352410 352410R 352410SS	Rp, Fm, ON	2	D, M	NH3
581	Willson	153412 153412R 153412SS	Rp, Fm, ON	2	H, A	NH3
582	Willson	353412 353412R 353412SS	Rp, Fm, ON	2	H, A	NH3

CHEMICAL CARTRIDGES - METHYL AMINE

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	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
623	Glendale	GR-1624-50 GR-2024-50 GR-4024-50 GR-8024-50	Rp,Fm,ON	2	H,A,R	NH3
624	Glendale	GR-7024-50	Rp,Fm,FF	2	H,A,R	NH3
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

CHEMICAL CARTRIDGES - METHYL AMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor																					
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	D,F,M	NH3																					
659	North	75BP94M	Rp,Bm,ON	2	D,F,M	NH3																					
660	North	7694 7694S*	Rp,Fm,FF	2	D,F,M	NH3																					
666	Protech		Rp,Fm,FF 1694-G104-F100	2		NH3																					
667	Protech		Rp,Fm,FF 1694-G106-F100	2	D,M	NH3																					
674	Protech		Rp,Fm,FF 1694-G106-G208	2	H,A,R	NH3																					
686	3M	7804 7804C 7804-L 7804-H	Rp,Fm,FF For 7804C Combination Type C, CF Air pressure (psig) 15 - 40 17 - 45 22 - 55 25 - 70	2 Hose length (feet) 25 - 50 75 - 100 125 - 200 225 - 300		NH3																					
<table><tr><th>Hose Length (feet)</th><th colspan="2">Press. Range psig</th></tr><tr><td></td><th>7804-H</th><th>7804-L</th></tr><tr><td>25</td><td>8-15</td><td>7-11</td></tr><tr><td>50</td><td>10-19</td><td>7-11</td></tr><tr><td>100</td><td>12-21</td><td>7-12</td></tr><tr><td>200</td><td>17-31</td><td>8-16</td></tr><tr><td>300</td><td>21-36</td><td>10-18</td></tr></table>							Hose Length (feet)	Press. Range psig			7804-H	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
Hose Length (feet)	Press. Range psig																										
	7804-H	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																									

CHEMICAL CARTRIDGES - METHYL AMINE

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
692	3M	7811	Rp,Fm,FF	2	D,M	NH3
		7811C	For 7811C Combination Type C, CF			
		7811-L	Air pressure	Hose length		
		7811-H	(psig)	(feet)		
			15 - 40	25 - 50		
			17 - 45	75 - 100		
			22 - 55	125 - 200		
			25 - 70	225 - 300		
				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
696	3M	7815	Rp,Fm,FF	2	H,A,R	NH3
		7815C	For 7815C Combination Type C, CF			
		7815-L	Air pressure	Hose length		
		7815-H	(psig)	(feet)		
			15 - 44	25 - 50		
			17 - 45	75 - 100		
			22 - 55	125 - 200		
			25 - 70	225 - 300		
				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		ON, Rp, Fm	2	D, F, M	NH3
		122417/R/S/SR/SS/SSS				
		S122417/R/S/SR/SS/SSS				
724	Willson	162417	FF, Rp, Fm	2	D, F, M	NH3
		172417				

CHEMICAL CARTRIDGES - METHYL AMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
725	Willson	152417 152417R 152417SS	ON,Rp,Fm	2	D,F,M	NH3
726	Willson	302417/R/S/SR/SS/SSS 302417/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 352417R 352417SS	ON,Rp,Bm	2	D,F,M	NH3
735	Willson	6104S 6104M 6104L	ON,Rp,Fm	2		NH3
739	Willson	6204S 6204M 6204L	ON,Rp,Fm	1		NH3
744	Willson	6404 S6404 6504 S6504	FF,Rp,Fm	2		NH3
750	Willson	6414 S6414 6514 S6514	FF,Rp,Fm	2	DM	NH3
752	Willson	6114S 6114M 6114L	ON,Rp,Fm	2	DM	NH3

CHEMICAL CARTRIDGES - METHYL AMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
758	Willson	6214S 6214M 6214L	ON,Rp,Fm	1	DM	NH3
761	Willson	6144S 6144M 6144L	Rp,ON,Fm	2	HA	NH3
762	Willson	S6444 6444 6544 S6544	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

CHEMICAL CARTRIDGES - METHYL AMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
785	Willson	6124S 6124M 6124L	Rp, Fm, ON	2	DFMR	NH3
786	Willson	6424 S6424 6524 S6524	Rp, Fm, FF	2	DFMR	NH3
795	AO	S7554HE S7554HEC	FF, Rp, Fm	2 For S7557HEC Comb. Type C, CF Hose Length <u>feet</u> 25 - 300	H, R, A Press. Range <u>psig</u> 14 - 37 For 1/2" Hose Hose Length <u>feet</u> 25 - 75 100 - 150 175 - 225 250 - 300	NH3
800	AO	S7554A S7554AC	Rp, Fm, FF	2 For S7554AC Comb. Type C, CF Hose Length <u>feet</u> 25 - 300	Press. Range <u>psig</u> 14 - 37 For 1/2" Hose Hose Length <u>feet</u> 25 - 75 100 - 150 175 - 225 250 - 300	NH3
810	AO	S7554AD S7554ADC	Rp, Fm, FF	2 For S7554ADC Comb. Type C, CF Hose Length <u>feet</u> 25 - 300	DM Press. Range <u>psig</u> 14 - 37	NH3

CHEMICAL CARTRIDGES - METHYL AMINE

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
810 Cont.				For 1/2" Hose		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 75	14 - 22	
				100 - 150	16 - 26	
				175 - 225	18 - 29	
				250 - 300	20 - 32	
827	Willson	6224S 6224M 6224L	Rp,Fm,ON	1	DFM	NH3
834	MSA	484477	Rp,Fm,FF	2	DM	NH3
				Comb. Type C, Pd		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				8 - 300	65 - 85	
840	MSA	484483	Rp,Fm,FF	2	HA	NH3
				Comb. Type C, Pd		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				8 - 300	65 - 85	
845	MSA	483994	Rp,Fm,FF	2	DM	NH3
				Comb. Type C, CF		
				Hose Length	Press. Range	
				<u>(feet)</u>	<u>psig</u>	
				8-300	35 - 40	
856	MSA	484000	Rp,Fm,FF	2	HA	NH3
				Comb. Type C, CF		
				Hose Length	Press. Range	
				<u>(feet)</u>	<u>psig</u>	
				8-300	35 - 40	
858	AO	R9724A	Es,MP	1		NH3
861	3M	5104 5204 5304	Su,ON	2		NH3

CHEMICAL CARTRIDGES - METHYL AMINE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
862	3M	5114 5214 5314	Su, ON	2	DM	NH3
879	3M	7804-H 7804-L	Rp, Fm, FF	2		NH3
Comb. Type C, Pd Hose Length Press. Range (feet) 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						
885	3M	7811-H 7811-L	Rp, Fm, FF	2	DM	NH3
Comb. Type C, Pd Hose Length Press. Range (feet) 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						
889	3M	7815-H 7815-L	Rp, Fm, FF	2	HRA	NH3
Comb. Type C, Pd Hose Length Press. Range (feet) 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						
895	Racal	BE10/K	HH, PAPR	3		NH3

CHEMICAL CARTRIDGES - METHYL AMINE

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	AO	R4054AF S4054AF R5054AF S5054AF R6054AF S6054AF	Rp, Fm, ON	2	DFMR	NH3
909	AO	R7054AF S7054AF R7754AF S7754AF	Rp, Fm, FF	2	DFMR	NH3
910	AO	S7554AF S7554AFC	Rp, Fm, FF	2	DFMR	NH3
For S7554AFC, combination Type C, CF 3/8" I.D.						
Hose Length			Press. Range			
feet			psig			
25 - 75			17 - 25			
100 - 150			20 - 29			
175 - 225			23 - 32			
250 - 300			26 - 35			
1/2" I.D.						
Hose Length			Press. Range			
feet			psig			
25 - 75			14 - 22			
100 - 150			16 - 26			
175 - 225			18 - 29			
250 - 300			20 - 32			

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	D,M	HCl
195	3M	8721 8722	Su,ON	1	D,M 8722 only	
196	3M	8723 8724	Su,ON	1	D,M 8724 only	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	H,R,A	
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	AO	R9722E	Es,MP	1		

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
610	Racal	BE8/B	PAPR,ON	3		HCl
629	MSA	472959	Rp,Bm,ON	2		Mercury
631	Racal	BE4/B	PAPR,HH	3		HCl
680	Survivair	2195-00 2295-00 2395-00	Rp,ON	2	H,A	
681	Survivair	3295-00 4295-00	Rp,FF	2	H,A	
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

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.

E. Chemical Cartridges
4. 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	D,M	HCl
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
534	Racal	BE3/BC BE7/BC	PAPR,FF	3		HCl
610	Racal	BE8/B	PAPR,ON	3		HCl
631	Racal	BE4/B	PAPR,HH	3		HCl

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	Rp, Fm, Bm, ON	2	D, M	CH2-O
47	MSA	459435 461007	Rp, Fm, Bm, ON	2	D, M	OV CH2-O/H2S CLO2
60	AO	R4052* R5052* R6052*	Rp, Fm, ON	2		
65	North	7503* 7503M 7703M 7503S 7703S 7503L 7703L	Rp, Fm, ON	2		OV CH2-O
66	North	7513* 7513M 7713M 7513S 7713S 7513L 7713L	Rp, Fm, ON	2	D, M	OV CH2-O
76	Willson	1225 S1225 1225S S1225S 1225SR S1225SR S1225R S1225SS S1225SSS 1225SSS 1225R 1225SS	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
77	Willson	122510 122510R 122510S 122510SR 122510SS 122510SSS S122510 S122510R S122510S S122510SR S122510SS S122510SSS	Rp, Fm, ON	2	D, M	OV
82	AO	R4053* R5053* R6053*	Rp, Fm, ON	2		OV
85	AO	R8153* S8153*	Rp, Fm, ON	1		OV
104	North	75BP03* 75BP03M 75BP03L	Rp, Bm, ON	2		OV
105	North	75BP13* 75BP13M 75BP13L	Rp, Bm, ON	2	D, M	OV CH2-O
111	AO	R9722	Es, MP	1	D, M	
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

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
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	D, M	CH2-O/H2S CL02
122	North	7542* 7542M*	Rp, Fm, ON	2	D, M, Z	
129	3M	8714 8720	Su, ON	1	D, M 8720 only	
141	Willson	1625 1725	Rp, Fm, FF	2		OV
142	Willson	162510 172510	Rp, Fm, FF	2	D, M	OV
145	MSA	461849 483481	Rp, Fm, FF	2	D, M	CH2-O
146	MSA	461850 483482	Rp, Fm, FF	2	D, M	OV CH2-O/H2S CL02
150	MSA	461854 483486	Rp, Fm, FF	2	H, A	CH2-O
153	MSA	461855 483487	Rp, Fm, FF	2	H, A	OV CH2-O/H2S CL02

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
154	MSA	461856 483488	Rp, Fm, FF	2	D, F, M, R	OV CH2-O/H2S CLO2
156	MSA	461835 462239	Rp, Fm, Bm, ON	2	H, A	CH2-O
159	MSA	460847 461013	Rp, Fm, Bm, ON	2	H, A	OV CH2-O/H2S CLO2
160	MSA	460848 461014	Rp, Fm, Bm, ON	2	D, F, M, R	OV CH2-O/H2S CLO2
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	D, M, Z 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	OV
163	Sellstrom	315-G104 315-G104-F100	Rp, Fm, ON	2	D, M, Z 315-G104-F100 only	OV
163	Eastern	E-452	Rp, Fm, ON	2	D, M, Z	OV
164	Cesco	95RC55 95SMRC55 100S21 200S21 100M21 200M21 100L21 200L21 300S/M21 300M/L21	Fm, ON	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
165	Cesco	95RC75 95SMRC75 100S25 200S25 100M25 200M25 100L25 200L25 300S/M25 300M/L25	Rp,Fm,ON	2	D,M	
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	D,M	OV
168	US Safety	150T21 150L21 100S21 200S21 100M21 200M21 100L21 200L21 300S/M21 300M/L21	Fm,ON	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
169	US Safety	150T25 150L25 100S25 200S25 100M25 200M25 100L25 200L25 300S/M25 300M/L25	Rp, Fm, ON	2	D, M	
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	D, M	OV
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

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
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	D, M	OV CH2-O/H2S CL02
179	North	75BP42* 75BP42M*	Rp, Bm, ON	2	D, M, Z	
181	North	7603 7603S* 7603N* 7603SN*	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	D, M	CH2-O
186	North	7613 7613S* 7613N* 7613SN*	Rp, Fm, FF	2	D, M	OV CH2-O
189	North	7642* 7642S* 7642N* 7642SN*	Rp, Fm, FF	2	D, M, Z	

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
203	Pulmosan	10012 10186 10240 10273	Rp, Fm, ON	1		
207	North	7582M 7782M 7582S 7782S 7582L 7782L 7582*	Rp, Fm, ON	2	H, R, A	CH2-O
208	North	75BP82* 75BP82M 75BP82L	Rp, Bm, ON	2	H, R, A	CH2-O
209	North	7682 7682S*	Rp, Fm, FF	2	H, R, A	CH2-O
210	North	7583M 7783M 7583S 7783S 7583L 7783L 7583*	Rp, Fm, ON	2	H, R, A	OV CH2-O
211	North	75BP83* 75BP83M 75BP83L	Rp, Bm, ON	2	H, R, A	OV CH2-O
212	North	7683S* 7683	Rp, Fm, FF	2	H, R, A	OV CH2-O
216	3M	8725 8726	Su, ON	1	D, M 8726 only	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
218	Scott	6470-0101* 6480-0101* 65-AG-D 65S-AG-D 65XL-AG-D	Rp,Fm,FF	2	D,M	CH2-O/H2S CLO2
221	Scott	6470-0015* 6480-0015* 65-OA 65S-OA 65XL-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	Rp,Fm,FF	2	D,M	OV CH2-O/H2S CLO2
225	Scott	6470-0001 6480-0001 65-AG 65S-AG 65XL-AG	Rp,Fm,FF	2		CH2-O/H2S CLO2
226	North	7502* 7502S 7702S 7502M 7702L 7502L 7702M	Rp,Fm,ON	2		CH2-O
227	North	75BP02* 75BP02M 75BP02L	Rp,Bm,ON	2		CH2-O
228	North	7602 7602S* 7602N* 7602SN*	Rp,Fm,FF	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
229	North	7512* 7512S 7512M 7512L 7712S 7712M 7712L	Rp, Fm, ON	2	D, M	CH2-O
230	North	75BP12* 75BP12M 75BP12L	Rp, Bm, ON	2	D, M	CH2-O
231	North	7612 7612S* 7612N* 7612SN*	Rp, Fm, FF	2	D, M	CH2-O
232	Pulmosan	10027 10201 10252 10285	Rp, Fm, ON	1	D, M	
233	AO	R7052*	Rp, Fm, FF	2		
234	AO	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	D, M	OV CH2-O
246	Scott	6411-0301* 64-AG-F 6413-0301* 64E-AG-F	Rp, Fm, ON	2	D, F, M, R	CH2-O/H2S CLO2

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
246 Cont.		6421-0301* 64M-AG-F 6423-0301* 64ME-AG-F 6412-0301* 64S-AG-F 6422-0301* 64SE-AG-F				
247	Scott	6470-0301* 6480-0301* 65-AG-F 65S-AG-F 65XL-AG-F	Rp, Fm, FF	2	D, F, M, R	CH2-O/H2S CL02
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	D, F, M, R	OV CH2-O/H2S CL02
251	Scott	6470-0315* 6480-0315* 65-OA-F 65S-OA-F 65XL-OA-F	Rp, Fm, FF	2	D, F, M, R	OV CH2-O/H2S CL02
260	MSA	466903	Rp, Fm, ON	2	D, M	OV CH2-O
261	MSA	466902	Rp, Bm, ON	2	D, M	OV CH2-O/H2S CL02

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	D,M	OV CH2-O/H2S CLO2
265	Cesco	96RC75	Rp,Fm,FF	2	D,M	
266	US Safety	151T25	Rp,Fm,FF	2	D,M	
267	Cesco	96RC105	Rp,Fm,FF	2	D,M	OV
268	US Safety	151T28	Rp,Fm,FF	2	D,M	OV
281	AO	R4563 S4563 R5563 S5563 R6563 S6563	Rp,Fm,ON	2	D,F,M	OV Pest
282	AO	R7563 S7563	Rp,Fm,FF	2	D,F,M	OV Pest
288	North	7902	Es,MP	1		
298	Willson	1235 1235S S1235 1235SR S1235R S1235S S1235SS S1235SSS 1235SSS 1235R 1235SS 1235R	Rp,Fm,ON	2		OV

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
299	Willson	123512 S123512 123512S S123512R 123512SR S123512S S123512SS S123512SSS 123512SSS 123512R 123512SS S123512SR	Rp, Fm, ON	2	H, A	OV
300	Willson	1635 1735	Rp, Fm, FF	2		OV
301	Willson	163512 173512	Rp, Fm, FF	2	H, A	OV
306	Cesco	95RC50 95SMRC50 100S41 200S41 100M41 200M41 100L41 200L41 300S/M41 300M/L41	Rp, Fm, ON	2	H, R, A	
307	US Safety	150T41 150L41 100S41 200S41 100M41 200M41 100L41 200L41 300S/M41 300M/L41	Rp, Fm, ON	2	H, R, A	
308	Cesco	96RC50	Rp, Fm, FF	2	H, R, A	

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
309	US Safety	151T41	Rp,Fm,FF	2	H,R,A	
310	Cesco	95RC80 95SMRC80 100S46 200L46 100M46 200M46 100L46 200S46 300S/M46 300M/L46	Rp,Fm,ON	2	H,R,A	OV
311	US Safety	150T46 150L46 100S46 200L46 100M46 200M46 100L46 200S46 300S/M46 300M/L46	Rp,Fm,ON	2	H,R,A	OV
312	Cesco	96RC80	Rp,Fm,FF	2	H,R,A	OV
313	US Safety	151T46	Rp,Fm,FF	2	H,R,A	OV
318	Survivair	2203-00 2103-00 2303-00	Rp,Fm,ON	2		OV CH2-O
320	Pulmosan	10015 10189 10243 10276	Rp,Fm,ON	1		OV
324	Pulmosan	10030 10255 10204 10288	Rp,Fm,ON	1	D,M	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
339	AO	R4052A S4052A R5052A S5052A R6052A S6052A R5552A S5552A R6552A S6552A	Rp, Fm, ON	2		
340	AO	R7052A S7052A R7752A S7752A	Rp, Fm, FF	2		
341	AO	R4052AD R5052AD R6052AD S4052AD S5052AD S6052AD R5552AD S5552AD R6552AD S6552AD	Rp, Fm, ON	2	D, M	
342	AO	R7052AD S7052AD R7752AD S7752AD	Rp, Fm, FF	2	D, M	
343	AO	R4053A S4053A R5053A S5053A R6053A S6053A R5553A S5553A R6553A S6553A	Rp, Fm, ON	2		OV CL02

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
344	AO	R7053A S7053A R7753A S7753A	Rp,Bm,FF	2		OV CL02
345	AO	R4053AD S4053AD R5053AD S5053AD R6053AD S6053AD R5553AD S5553AD R6553AD S6553AD	Rp,Fm,ON	2	D,M	OV CL02
346	AO	R7053AD S7053AD R7753AD S7753AD	Rp,Fm,FF	2	D,M	OV CL02
352	North	10003S 10003M	Su,ON	1		OV CH2-O
353	North	10002S 10002M	Su,ON	1		CH2-O
356	North	10012S 10012M	Su,ON	1	D,M	CH2-O
357	North	10013S 10013M	Su,ON	1	D,M	OV CH2-O
359	Protech	1482-G102 1482-S-G102 1482-L-G102 1585S-G102 1585-G102 1585L-G102	Rp,Fm,ON	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
368	Willson	3025 3025S S3025 3025R S3025R 3025SR S3025S 3025SSS S3025SS S305SSS 3025SS 3025SR	Rp, Bm, ON	2		OV
369	Willson	3125 3225	Rp, Bm, FF	2		OV
370	Willson	3035 3035S S3035 3035R S3035S 3035SR S3035R S3035SR S3035SS S3035SSS 3035SS 3035SSS	Rp, Bm, ON	2		OV
371	Willson	3135 3235	Rp, Bm, FF	2		OV
380	Willson	302510 S302510 302510R S302510S 302510S S302510R 302510SR S302510SR S302510SS S302510SSS 302510SS 302510SSS	Rp, Bm, ON	2	D, M	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
381	Willson	312510 322510	Rp,Bm,FF	2	D,M	OV
386	Willson	303512 303512R 303512S 303512SR 303512SS 303512SSS S303512 S303512R S303512S S303512SR S303512SS S303512SSS	Rp,Bm,ON	2	H,A	OV
387	Willson	313512 323512	Rp,Bm,FF	2	H,A	OV
393	Survivair	2133-00* 2233-00* 2333-00*	Rp,Fm,ON	2	D,F,M,R	OV
394	Survivair	3233-00*	Rp,Fm,FF	2	D,F,M,R	OV
395	Survivair	2192-00 2292-00 2392-00	Rp,Fm,ON	2	H,A	
396	Survivair	3292-00 4292-00	Rp,Fm,FF	2	H,A	
407	Glendale	GR7022	Rp,Fm,FF	2		CH2-O
408	Glendale	GR7022-10	Rp,Fm,FF	2	D,M	CH2-O
410	Glendale	GR7023	Rp,Fm,FF	2		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
411	Glendale	GR7023-10	Rp, Fm, FF	2	D, M	OV CH2-0
415	AO	R4052HE S4052HE R5052HE S5052HE R6052HE S6052HE R5552HE S5552HE R6552HE S6552HE	Rp, Fm, ON	2	H, R, A	
416	AO	R7052HE S7052HE R7752HE S7752HE	Rp, Fm, FF	2	H, R, A	
417	AO	R4053HE S4053HE R5053HE S5053HE R6053HE S6053HE R5553HE S5553HE R6553HE S6553HE	Rp, Fm, ON	2	H, R, A	OV CL02/Pest
418	AO	R7053HE S7053HE R7753HE S7753HE	Rp, Fm, FF	2	H, R, A	OV CL02/Pest
421	Protech	1585S-G104-G208 1585-L-G104-G208 1585L-G104-G208 1482-G104-G208 1482-S-G104-G208 1482-L-G104-G208	Rp, Fm, ON	2	H, R, A	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
429	Survivair	3202-00 4202-00	Rp, Fm, FF	2		
430	Survivair	2102-00 2202-00 2302-00	Rp, Fm, ON	2		
431	Survivair	2112-00 2212-00 2312-00	Rp, Fm, ON	2	D, M	
432	Survivair	3212-00 4212-00	Rp, Fm, FF	2	D, M	
433	Survivair	2113-00 2213-00 2313-00	Rp, Fm, ON	2	D, M	OV CH2-O
434	Survivair	3213-00 4213-00	Rp, Fm, ON	2	D, M	OV CH2-O
443	3M	7202	Rp, Fm, ON	2		
444	3M	7208	Rp, Fm, ON	2	D, M	
445	3M	7213	Rp, Fm, ON	2	H, R, A	
446	3M	7203	Rp, Fm, ON	2		OV
447	3M	7209	Rp, Fm, ON	2	D, M	OV
448	3M	7214	Rp, Fm, ON	2	H, R, A	OV
449	North	7912	Es, MP	1	D, M	

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
450	Survivair	2193-00 2293-00 2393-00	Rp, Fm, ON	2	H, A	OV
451	Survivair	3293-00 4293-00	Rp, Fm, FF	2	H, A	OV
454	Survivair	3203-00 4203-00	Rp, Fm, FF	2		OV CH2-O
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	H, R, A	
461	MSA	472749	Rp, Bm, ON	2	D, M	CH2-O
462	MSA	472750	Rp, Bm, ON	2	D, M	OV CH2-O/H2S CLO2
466	MSA	472756	Rp, Bm, ON	2	H, A	OV CH2-O/H2S CLO2
467	MSA	472757	Rp, Bm, ON	2	D, F, M, R	OV CH2-O/H2S CLO2
470	MSA	472760	Rp, Bm, ON	2	H, A	CH2-O
472	MSA	472764	Rp, Bm, ON	2	D, M	OV/H2S CLO2/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
487	Sellstrom	315-G102-G208*	Rp,Fm,ON	2	H,R,A	
496	Pulmosan	10411	Rp,Fm,FF	1		
497	Pulmosan	10414	Rp,Fm,FF	1		OV
500	Pulmosan	10423	Rp,Fm,FF	1	D,M	
501	Pulmosan	10426	Rp,Fm,FF	1	D,M	OV
511	MSA	469728	Rp,Fm,ON	1	D,M	CH2-O
512	MSA	469729	Rp,Fm,ON	1	D,M	OV CH2-O
514	MSA	471914 476337 476338	Es,MP	1	D,M	H2S
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	H,R,A	CH2-O/H2S CLO2
518	Scott	65-AG-H 65S-AG-H 65XL-AG-H	Rp,Fm,FF	2	H,R,A	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
521	Scott	64-OA-H 64E-OA-H 64M-OA-H 64ME-OA-H 64S-OA-H 64SE-OA-H	Rp,Fm,ON	2	H,R,A	OV CH2-O/H2S CL02
522	Scott	65-OA-H 65S-OA-H 65XL-OA-H	Rp,Fm,FF	2	H,R,A	OV CH2-O/H2S CL02
527	Pirelli	4333.2033	Rp,Fm,FF	2		
532	Survivair	2143-00 2243-00 2343-00	Rp,Fm,ON	2	D,F,M,R	OV CH2-O
533	Survivair	3243-00 4243-00	Rp,Fm,FF	2	D,F,M,R	OV CH2-O
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	D,M	

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
551	Safety Supply	F-700-AG-F-P	Rp,Fm,FF	2	D,M	
552	Safety Supply	F-160-OA-F-P F-200-OA-F-P F-800-OA-F-P	Rp,Fm,ON	2	D,M	OV
553	Safety Supply	F-700-OA-F-P	Rp,Fm,FF	2	D,M	OV
563	Willson	1525 1525R 1525SS	Rp,Fm,ON	2		OV
564	Willson	3525 3525R 3525SS	Rp,Fm,ON	2		OV
565	Willson	1535 1535R 1535SS	Rp,Fm,ON	2		OV
566	Willson	3535 3535R 3535SS	Rp,Fm,ON	2		OV
577	Willson	152510 152510R 152510SS	Rp,Fm,ON	2	D,M	OV
578	Willson	352510 352510R 352510SS	Rp,Fm,ON	2	D,M	OV
583	Willson	153512 153512R 153512SS	Rp,Fm,ON	2	H,A	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
584	Willson	353512 353512R 353512SS	Rp,Fm,ON	2	H,A	OV
587	AO	R4563A S4563A R5563A S5563A R6563A S6563A R55563A S55563A R65563A S65563A	Rp,Fm,ON	2	D,F,M	OV CL02/Pest
588	AO	R7563A S7563A R77563A S77563A	Rp,Fm,FF	2	D,F,M	OV CL02/Pest
593	Racal	BE1/E	PAPR,HH	3		CH2-0
594	Racal	BE3/EC BE7/EC	PAPR,FF	3		CH2-0
595	Racal	BE5/E	PAPR,HH	3		CH2-0
596	Racal	BE6/E	PAPR,HH	3		CH2-0
597	Racal	BE1/EP3	PAPR,HH	3	H,R,A	CH2-0
598	Racal	BE3/EP3 BE7/EP3	PAPR,FF	3	H,R,A	CH2-0
599	Racal	BE5/EP3	PAPR,HH	3	H,R,A	CH2-0

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
600	Racal	BE6/EP3	PAPR,HH	1	H,R,A	CH2-O
601	AO	R9722A	Es,MP	1		
603	Racal	BE17/P3	PAPR,HH	3	H,R,A	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	H,R,A	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	H,R,A	CH2-O
620	Glendale	GR-7022-50	Rp,Fm,FF	2	H,R,A	CH2-O
621	Glendale	GR-2023-50 GR-8023-50 GR-1623-50 GR-4023-50	Rp,Fm,ON	2	H,R,A	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
622	Glendale	GR-7023-50	Rp,Fm,FF	2	H,R,A	OV CH2-O
626	Neoterik	NP1562-7	PAPR	3		OV
627	Neoterik	NP1562-6	PAPR,ON	3		
634	Racal	BE4/E	PAPR,HH	3		
635	Racal	BE4/EP3	PAPR,HH	3	H,R,A	
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	H,R,A	OV
648	Racal	BE8/AEP3	PAPR,ON	3	H,R,A	OV
652	North	7592S,M,L 7792S,M,L	Rp,Fm,ON	2	D,F,M	CH2-O
653	North	75BP92M 75BP92L	Rp,Bm,ON	2	D,F,M	CH2-O
654	North	7692 7692S*	Rp,Fm,FF	2	D,F,M	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	D, F, M	OV CH2-O
656	North	75BP93M 75BP93L	Rp, Bm, ON	2	D, F, M	OV CH2-O
657	North	7693 7693S*	Rp, Fm, FF	2	D, F, M	OV CH2-O
664	Protech	1694-G104	Rp, Fm, FF	2		OV
665	Protech	1694-G104-F100	Rp, Fm, FF	2	D, M, Z	OV
670	Protech	1694-G104-G208	Rp, Fm, FF	2	H, R, A	OV
671	Protech	1694-G102	Rp, Fm, FF	2		
673	Protech	1694-G102-G208	Rp, Fm, FF	2	H, R, A	
678	Eastern	287	Rp, Fm, ON	2	H, R, A	OV
679	AO	R7070A S7070A R7770A S7770A	Rp, Fm, FF	2		OV CL02
684	3M	7802 7802C 7802-L 7802-H	Rp, Fm, FF For 7802C Combination Type C, CF Air pressure (psig) 15 - 40 17 - 45 22 - 55 25 - 70	2 Hose length (feet) 25 - 50 75 - 100 125 - 200 225 - 300		

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						

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 For 7803C Combination Type C, CF Air pressure	2		OV
			<u>(psig)</u>		<u>Hose length (feet)</u>	
			15 - 40		25 - 50	
			17 - 45		75 - 100	
			22 - 55		125 - 200	
			25 - 70		225 - 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 (For 7808C Combination Type C, CF Air pressure	2	D,M	
			<u>(psig)</u>		<u>Hose length (feet)</u>	
			15 - 40		25 - 50	
			17 - 45		75 - 100	
			22 - 55		125 - 200	
			25 - 70		225 - 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

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
690	3M	7809 7809C 7809-L 7809-H	Rp,Fm,FF For 7809C Combination Type C, CF Air pressure <u>(psig)</u> 15 - 40 17 - 45 22 - 55 25 - 70	2	D,M Hose length <u>(feet)</u> 25 - 50 75 - 100 125 - 200 225 - 300	OV
					Hose Length <u>(feet)</u>	Press. Range <u>psig</u> 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
694	3M	7813 7813C 7813-L 7813-H	Rp,Fm,FF For 7813C Combination Type C, CF Air pressure <u>(psig)</u> 15 - 40 17 - 45 22 - 55 25 - 70	2	H,R,A Hose length <u>(feet)</u> 25 - 50 75 - 100 125 - 200 225 - 300	
					Hose Length <u>(feet)</u>	Press. Range <u>psig</u> 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
695	3M	7814 7814C 7814-L 7814-H	Rp,Fm,FF For 7814C Combination Type C, CF Air pressure <u>(psig)</u> 15 - 40 17 - 45 22 - 55 25 - 70	2	H,R,A Hose length <u>(feet)</u> 25 - 50 75 - 100 125 - 200 225 - 300	OV

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
695 Cont.				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
699	Willson	ON, Rp, Fm 1226/R/S/SR/SS/SSS S1226/R/S/SR/SS/SSS		2		CH2-0
700	Willson	1626 1726	FF, Rp, Fm	2		CH2-0
701	Willson	1526 1526R 1526SS	ON, Rp, Fm	2		CH2-0
702	Willson	ON, Rp, Bm 3026/R/S/SR/SS/SSS 3026/R/S/SR/SS/SSS		2		CH2-0
703	Willson	3126, 3226	FF, Bm, Rp	2		CH2-0
704	Willson	3526 3526R 3526SS	ON, Bm, Rp	2		CH2-0
705	Willson	ON, Rp, Fm 122610/R/S/SR/SS/SSS S122610/R/S/SR/SS/SSS		2	D, M	CH2-0
706	Willson	152610 152610R 152610SS	ON, Rp, Fm	2	D, M	CH2-0
707	Willson	162610 172610	FF, Rp, Fm	2	D, M	CH2-0

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
708	Willson	302610/R/S/SR/SS/SSS S302610/R/S/SR/SS/SSS	ON, Rp, Bm	2	D, M	CH2-O
709	Willson	312610 322610	FF, Rp, Bm	2	D, M	CH2-O
710	Willson	352610 352610R 352610SS	ON, Rp, Bm	2	D, M	CH2-O
711	Willson	122617/R/S/SR/SS/SSS S122617/R/S/SR/SS/SSS	ON, Rp, Fm	2	D, F, M	CH2-O
712	Willson	162617 172617	FF, Rp, Fm	2	D, F, M	CH2-O
713	Willson	152617 152617R 152617SS	FF, Rp, Fm	2	D, F, M	CH2-O
714	Willson	302617/R/S/SR/SS/SSS S302617/R/S/SR/SS/SSS	ON, Rp, Bm	2	D, F, M	CH2-O
715	Willson	312617 322617	FF, Rp, Bm	2	D, F, M	CH2-O
716	Willson	352617 352617R 352617SS	ON, Rp, Bm	2	D, F, M	CH2-O
717	Willson	122517/R/S/SR/SS/SSS S122517/R/S/SR/SS/SSS	ON, Rp, Fm	2	D, F, M	OV
718	Willson	162517 172517	FF, Rp, Fm	2	D, F, M	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
719	Willson	152517 152517R 152517SS	ON,Rp,Fm	2	D,F,M	OV
720	Willson	302517/R/S/SR/SS/SSS S302517/R/S/SR/SS/SSS	ON,Rp,Bm	2	D,F,M	OV
721	Willson	312517 322517	FF,Rp,Bm	2	D,F,M	OV
722	Willson	352517 352517R 352517SS	ON,Rp,Bm	2	D,F,M	OV
736	Willson	6105S 6105M 6105L	ON,Rp,Fm	2		OV
740	Willson	6205S 6205M 6205L	ON,Rp,Fm	1		OV
741	Willson	6106S 6106M 6106L	ON,Rp,Fm	2		CH2-0
742	Willson	6206S 6206M 6206L	ON,Rp,Fm	1		CH2-0
745	Willson	6405 S6405 6505 S6505	FF,Rp,Fm	2		OV
746	Willson	6406 S6406 6506 S6506	FF,Rp,Fm	2		CH2-0

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
748	Willson	6415 S6415 6515 S6515	FF,Rp,Fm	2	DM	OV
749	Willson	6416 S6416 6516 S6516	FF,Rp,Fm	2	DM	CH2-0
753	Willson	6115S 6115M 6115L	ON,Rp,Fm	2	DM	OV
754	Willson	6116S 6116M 6116L	ON,Rp,Fm	2	DM	CH2-0
756	Willson	6215S 6215M 6215L	ON,Rp,Fm	1	DM	OV
757	Willson	6216S 6216M 6216L	ON,Rp,Fm	1	DM	CH2-0
763	Willson	6145S 6145M 6145L	Rp,Fm,ON	2	HA	OV
764	Willson	6445 S6445 6545 S6545	Rp,Fm,FF	2	HA	OV
765	Willson	6146S 6146M 6146L	Rp,Fm,ON	2	HA	CH2-0

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
766	Willson	6546 S6546 6446 S6446	Rp, Fm, FF	2	HA	CH2-0
768	Scott	66STC-AG S66STC-AG 66MTC-AG S66MTC-AG 66LTC-AG S66LTC-AG	Fm, Rp, ON	2		CH2-0/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	CH2-0/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	CH2-0/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	CH2-0/H2S CLO2
776	Scott	66STC-OA S66STC-OA 66MTC-OA S66MTC-OA 66LTC-OA S66LTC-OA	Fm, Rp, ON	2		OV CH2-0/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
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	OV CH2-0/H2S CL02
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 CH2-0/H2S CL02
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 CH2-0/H2S CL02
787	Willson	6125S 6125M 6125L	Rp,Fm,ON	2	DFMR	OV
788	Willson	6425 S6425 6525 S6525	Rp,Fm,FF	2	DFMR	OV
789	Willson	6126S 6126M 6126L	Rp,Fm,ON	2	DFMR	CH2-0
790	Willson	6426 S6426 6526 S6526	Rp,Fm,FF	2	DFMR	CH2-0

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
794	AO	S7553HE S7553HEC	FF,Rp,Fm	2 For S7557HEC Comb. Type C, CF Hose Length <u>feet</u> 25 - 300	HRA Press. Range <u>psig</u> 14 - 37	CLO2/OV Pest
For 1/2" Hose						
Hose Length Press. Range						
<u>feet</u> <u>psig</u>						
25 - 75 14 - 22						
100 - 150 16 - 26						
175 - 225 18 - 29						
250 - 300 20 - 32						
798	AO	S7552A S7552AC	FF,Rp,Fm	2 For S7552AC Comb. Type C, CF Hose Length <u>feet</u> 25 - 300	Press. Range <u>psig</u> 14 - 37	
For 1/2" Hose						
Hose Length Press. Range						
<u>feet</u> <u>psig</u>						
25 - 75 14 - 22						
100 - 150 16 - 26						
175 - 225 18 - 29						
250 - 300 20 - 32						
799	AO	S7553A S7553AC	FF,Rp,Fm	2 For S7553AC Comb. Type C, CF Hose Length <u>feet</u> 25 - 300	Press. Range <u>psig</u> 14 - 37	OV CLO2
For 1/2" Hose						
Hose Length Press. Range						
<u>feet</u> <u>psig</u>						
25 - 75 14 - 22						
100 - 150 16 - 26						
175 - 225 18 - 29						
250 - 300 20 - 32						

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
803	AO	S7552HE S7552HEC	FF,Rp,Fm	2	H,R,A For S7552HEC Comb. Type C, CF	
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 300	14 - 37	
				For 1/2" Hose		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 75	14 - 22	
				100 - 150	16 - 26	
				175 - 225	18 - 29	
				250 - 300	20 - 32	
805	AO	S7570A S7570AC	FF,Rp,Fm	2		OV
				For S7570AC		CL02
				Comb. Type C, CF		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 300	14 - 37	
				For 1/2" Hose		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 75	14 - 22	
				100 - 150	16 - 26	
				175 - 225	18 - 29	
				250 - 300	20 - 32	
808	AO	S7552AD S7552ADC	FF,Rp,Fm	2	D,M, For S7552ADC Comb. Type C, CF	CL02
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 300	14 - 37	
				For 1/2" Hose		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 75	14 - 22	
				100 - 150	16 - 26	
				175 - 225	18 - 29	
				250 - 300	20 - 32	

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
809	AO	S7553AD S7553ADC	FF,Rp,Fm	2	D,M, For S7553ADC Comb. Type C, CF	OV CL02
				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	
812	AO	S75563A S75563AC	FF,Rp,Fm	2	D,F,M For S75563AC Comb. Type C, CF	OV CL02
				Hose Length feet	Press. Range psig	
				25 - 300	14 - 37	
817	Glendale	GR9522	Rp,Fm,ON	2		CH2-0
818	Glendale	GR9522-10	Rp,Fm,ON	2	DM	CH2-0
819	Glendale	GR9522-50	Rp,Fm,ON	2	HRA	CH2-0
820	Glendale	GR9523	Rp,Fm,ON	2		OV CH2-0
821	Glendale	GR9523-10	Rp,Fm,ON	2	DM	OV CH2-0
822	Glendale	GR9523-50	Rp,Fm,ON	2	HRA	OV CH2-0
828	Willson	6225S 6225M 6225L	Rp,Fm,ON	1	DFM	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
829	Willson	6226S 6226M 6226L	Rp,Fm,ON	1	DFM	CH2-O
832	MSA	484475	FF,Rp,Fm	2	DM	CH2-O
Comb. Type C, Pd Hose Length Press. Range <u>feet</u> <u>psig</u> 8 - 300 65 - 85						
833	MSA	484476	FF,Rp,Fm	2	DM	OV CH2-O/H2S CLO2
Comb. Type C, Pd Hose Length Press. Range <u>feet</u> <u>psig</u> 8 - 300 65 - 85						
836	MSA	484480	FF,Rp,Fm	2	HA	CH2-O
Comb. Type C, Pd Hose Length Press. Range <u>feet</u> <u>psig</u> 8 - 300 65 - 85						
837	MSA	484488	FF,Rp,Fm	2	DM	OV CH2-O/H2S CLO2
Comb. Type C, Pd Hose Length Press. Range <u>feet</u> <u>psig</u> 8 - 300 65 - 85						
839	MSA	484481	Rp,Fm,FF	2	HA	OV Cl/H2S/CLO2 CH2-O
Comb. Type C, Pd Hose Length Press. Range <u>feet</u> <u>psig</u> 8 - 300 65 - 85						

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
843	MSA	483992	Rp,Fm,FF	2 Comb. Hose Length (feet) 8-300	DM Type C, CF Press. Range psig 35 - 40	CH2-0
844	MSA	483993	Rp,Fm,FF	2 Comb. Hose Length (feet) 8-300	DM Type C, CF Pressure psig 35 - 40	OV CH2-0/H2S CLO2
851	MSA	483997	Rp,Fm,FF	2 Comb. Hose Length (feet) 8-300	HA Type C, CF Pressure psig 35 - 40	CH2-0
852	MSA	484005	Rp,Fm,FF	2 Comb. Hose Length (feet) 8-300	DM Type C, CF Pressure psig 35 - 40	OV CH2-0/H2S CLO2
853	MSA	483999	Rp,Fm,FF	2 Comb. Hose Length (feet) 8-300	DFMR Type C, CF Pressure psig 35 - 40	OV CH2-0/H2S CLO2
854	MSA	483998	Rp,Fm,FF	2 Comb. Hose Length (feet) 8-300	HRA Type C, CF Pressure psig 35 - 40	OV CH2-0/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
865	3M	5103 5203 5303	ON, Su	2		OV
866	3M	5102 5202 5302	ON, Su	2		
868	3M	5113 5213 5313	ON, Su	2	DM	OV
869	3M	5112 5212 5312	ON, Su	2	DM	
872	Masprot	M-2.204/M	Rp, Fm, ON	2	D, M	
874	Masprot	M-2.207/M	Rp, Fm, ON	2	H, A	
877	3M	7802-H 7802-L	Rp, Fm, FF	2	Combination Type C, Pd Hose Length Press. Range (feet) 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	
878	3M	7803-H 7803-L	Rp, Fm, FF	2		OV
					Combination Type C, Pd Hose Length Press. Range (feet) 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	

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
882	3M	7808-H 7808-L	Rp,Fm,FF	2	DM	
				Combination Hose Length (feet)	Type C, Pd 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
883	3M	7809-H 7809-L	Rp,Fm,FF	2	DM	OV
				Combination Hose Length (feet)	Type C, Pd 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
887	3M	7813-H 7813-L	Rp,Fm,FF	2	HRA	
				Combination Hose Length (feet)	Type C, Pd 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
888	3M	7814-H 7814-L	Rp,Fm,FF	2	HRA	OV
				Combination Hose Length (feet)	Type C, Pd 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

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
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	AO	R4052AF S4052AF R5052AF S5052AF R6052AF S6052AF	Rp, Fm, ON	2	DFMR	
903	AO	R7052AF S7052AF R7752AF S7752AF	Rp, Fm, FF	2	DFMR	
904	AO	S7552AF S7552AFC	Rp, Fm, FF	2	DFMR	
For S7552AFC, combination Type C, CF 3/8" I.D.						
			Hose Length	Press. Range		
			feet	psig		
			25 - 75	17 - 25		
			100 - 150	20 - 29		
			175 - 225	23 - 32		
			250 - 300	26 - 35		
1/2" I.D.						
			Hose Length	Press. Range		
			feet	psig		
			25 - 75	14 - 22		
			100 - 150	16 - 26		
			175 - 225	18 - 29		
			250 - 300	20 - 32		
905	AO	R4053AF S4053AF R5053AF S5053AF R6053AF S6053AF	Rp, Fm, ON	2	DFMR	OV/CL02 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
906	AO	R7053AF S7053AF R7753AF S7753AF	Rp,Fm,FF	2	DFMR	OV/CL02 Pest

907	AO	S7753AF S7753AFC	Rp,Fm,FF	2	DFMR	OV/CL02 Pest
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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

Hose Length feet	Press. Range psig
25 - 75	14 - 22
100 - 150	16 - 26
175 - 225	18 - 29
250 - 300	20 - 32

914	AO	S7070AF S7070AF R7770AF S7770AF	Rp,Fm,FF	2	DFMR	OV/CL02 Pest
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915	AO	S7570AF S7570AFC	Rp,Fm,FF	2	DFMR	OV/CL02 Pest
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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

CHEMICAL CARTRIDGES - CHLORINE, SULFUR DIOXIDE, AND HYDROGEN CHLORIDE

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
915 Cont.						
1/2" I.D.						
			Hose Length	Press. Range		
			<u>feet</u>	<u>psig</u>		
			25 - 75	14 - 22		
			100 - 150	16 - 26		
			175 - 225	18 - 29		
			250 - 300	20 - 32		

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	Rp,Fm,Bm, ON	2	DM	
47	MSA	459435 461007	Rp,Fm,Bm, ON	2	DM	SO2/HCl Cl/CH2-O H2S/ClO2
49	North	7501* 7501S 7501M 7501L 7701S 7701M 7701L	Rp,Fm, ON	2		
50	Willson	1221 1221 1221R 1221S 1221SR 1221SS 1221SSS S1221 S1221R S1221S S1221SR S1221SS S1221SSS	Rp,Fm, ON	2		
51	Willson	122110 122110R 122110S 122110SR 122110SS 122110SSS S122110 S122110R S122110SSS S122110SS S122110S S122110SR	Rp,Fm, ON	2	DM	

CHEMICAL CARTRIDGES - ORGANIC VAPOR

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
52	Willson	122113 122113R 122113S 122113SR 122113SS 122113SSS S122113 S12213R S122113S S122113SR S122113SS S122113SSS	Rp,Fm, ON	2	DFM	
54	Willson	122115 122115R 122115S 122115SR 122115SS 122115SSS S122115 S122115R S122115S S122115SR S122115SS S122115SSS	Rp,Fm, ON	2	DM	PLE/Pest
56	AO	R4051* R5051* R6051*	Rp,Fm, ON	2		
59	DeVilbiss	MSE-502* MSE-502-1*	Rp,Fm, ON	2		
65	North	7503* 7503S 7503M 7503L 7703S 7703M 7703L	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* 7513S 7513M 7513L 7713S 7713M 7713L	Rp, Fm, ON	2	DM	SO2/HCl Cl/CH2-O
73	North	7511* 7511S 7511M 7511L 7711S 7711M 7711L	Rp, Fm, ON	2	DM	
74	North	7549* 7549M 7549L 7749S 7749M 7749L	Rp, Fm, ON	2		Pest
75	North	7531* 7531M 7531S 7531L 7731S 7731M 7731L	Rp, Fm, ON	2		PLE
75	Acme	27*	Rp, Fm, ON	2		PLE
76	Willson	1225 S1225 1225S S1225S 1225SR S1225SR S1225R S1225SS S1225SSS 1225SSS 1225R 1225SS	Rp, Fm, ON	2		SO2/HCl Cl

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
77	Willson	122510 122510R 122510S 122510SS 122510SSS S122510 S122510R 122510SR S122510S S122510SS S122510SR S122510SSS	Rp,Fm, ON	2	DM	SO2/HCl Cl
79	MSA	448848 461009	Rp,Fm,Bm, ON	2	DM	PLE/Pest
80	MSA	448849 460853 462241 466249 466250 466251 466255 466528 466529 468015 468016 468017 468018 476726 476727 476728 479704 thru 479712 479714 thru 479722	Rp,Fm,Bm, ON	2	DM	PLE
81	Pulmosan	C256* 10009 10183 10219 10270	Rp,Fm, ON	1		
82	AO	R4053* R5053* R6053*	Rp,Fm, ON	2		SO2/HCl/ Cl

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
83	AO	R4055 S4055 R5055 S5055 R6055 S6055	Rp,Fm, ON	2	DM	
84	AO	R8151 S8151	Rp,Fm, ON	1		
85	AO	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* GR1621-60 GR2021-20* GR2021-60 GR4021-20* GR4021-60 GR8021-20* GR8021-60	Rp,Fm, ON	2		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
91	Pulmosan	C259* 10024 10198 10222 10282	Rp,Fm, ON	1	DM	
92	AO	R8191P* S8191P*	Rp,Fm, ON	1	DM	PLE
93	AO	R8151P S8151P	Rp,Fm, ON	1	DM	PLE
94	AO	R4051P* R5051P* R6051P*	Rp,Fm, ON	2	DM	PLE
96	DeVilbiss	MSP-505* MSP-505-1*	Rp,Fm, ON	2	DM	PLE
97	AO	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

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
101	North	7401L* 7401M*	Rp, Fm, ON	1		
102	North	75BP01* 75BP01M 75BP01L	Rp, Bm, ON	2		
103	North	75BP11* 75BP11M 75BP11L	Rp, Bm, ON	2	DM	
104	North	75BP03* 75BP03M 75BP03L	Rp, Bm, ON	2		SO2/HCl Cl/CH2-O
105	North	75BP13* 75BP13M 75BP13L	Rp, Bm, ON	2	DM	SO2/HCl Cl/CH2-O
106	AO	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	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*	Rp, Fm, ON	2		

CHEMICAL CARTRIDGES - ORGANIC VAPOR

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
113 Cont.		6423-0013* 64-OV 64E-OV 64M-OV 64ME-OV 64S-OV 64SE-OV				
114	Scott	6411-0113* 6412-0113* 6413-0113* 6421-0113* 6422-0113* 6423-0113* 64-OV-D 64E-OV-D 64M-OV-D 64ME-OV-D 64S-OV-D 64SE-OV-D	Rp, Fm, ON	2	DM	
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		

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
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	
121	Cesco	95RC45 95SMRC45 100S23 200S23 100M23 200M23 100L23 200L23 300S/M23 300M/L23	Rp, Fm, ON	2	DM	
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

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
124	Eastern	E454	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
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	

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
146	MSA	461850 483482	Rp,Fm, FF	2	DM	SO2/HCl CH2-O/C1 H2S/ClO2
149	MSA	461846 466256 466257 471726 471727 480386 480387 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 CH2-O/C1 H2S/ClO2
154	MSA	461856 483488	Rp,Fm, FF	2	DFMR	SO2/HCl CH2-O/C1 H2S/ClO2
155	MSA	461853 483485	Rp,Fm, FF	2	HA	PLE CH2-O/C1
157	MSA	460965 462238	Rp,Fm,Bm, ON	2	DM	
159	MSA	460847 461013	Rp,Fm,Bm, ON	2	HA	SO2/HCl CH2-O/C1 H2S/ClO2
160	MSA	460848 461014	Rp,Fm,Bm, ON	2	DFMR	SO2/HCl CH2-O/C1 H2S/ClO2
161	MSA	460846 461012	Rp,Fm,Bm, ON	2	HA	PLE/Pest

CHEMICAL CARTRIDGES - ORGANIC VAPOR

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
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	DMZ	SO2/HCl Cl 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
163	Sellstrom	315-G104 315-G104-F100	Rp, Fm, ON	2	DMZ	SO2/HCl Cl
163	Eastern	E452	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 300S/M28 300M/L28	Rp, Fm, ON	2	DM	SO2/HCl Cl
170	US Safety	150T26 150L26 100S26 200S26 100M26	Fm, ON	2		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
170 Cont.		200M26 100L26 200L26 300S/M26 300M/L26				
171	US Safety	150T28 150L28 100S28 200S28 100M28 200M28 100L28 200L28 300S/M28 300M/L28	Rp, Fm, ON	2	DM	SO2/HCl Cl
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
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	Fm, ON	2	DM	SO2/HCl CH2-O/Cl H2S/ClO2
175	North	75BP31* 75BP31M 75BP31L	Rp, Bm, ON	2		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
178	North	75BP49* 75BP49M 75BP49L	Rp, Bm, ON	2		Pest
180	North	7601 7601S* 7601N* 7601SN*	Rp, Fm, FF	2		
181	North	7603 7603S* 7603N* 7603SN*	Rp, Fm, FF	2		SO2/HCl Cl/CH2-O
185	North	7611 7611S* 7611N* 7611SN*	Rp, Fm, FF	2	DM	
186	North	7613 7613S* 7613N* 7613SN*	Rp, Fm, FF	2	DM	SO2/HCl Cl/CH2-O
188	North	7631 7631S* 7631N* 7631SN*	Rp, Fm, FF	2		PLE
190	North	7649 7649S 7649N* 7649SN*	Rp, Fm, FF	2		Pest
196	3M	8723 8724	Su, ON	1	DM 8724 only	Cl
198	US Safety	150T30*	Fm, ON	2		Pest
199	Cesco	95RC125*	Fm, ON	2		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
201	MSA	465986 466239 466240 466241 466526 466527	Rp, Fm, ON	2	DM	PLE
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	Pest
202	Eastern	E455	Rp, Fm, ON	2	DM	Pest
202	Sellstrom	315-G100-F104	Rp, Fm, ON	2	DM	Pest
204	North	7581M 7781M 7581S 7781S 7581L 7781L 7581*	Rp, Fm, ON	2	HRA	PLE
205	North	75BP81* 75BP81M 75BP81L	Rp, Bm, ON	2	HRA	PLE
206	North	7681 7681S*	Rp, Fm, FF	2	HRA	PLE
210	North	7583M 7783M 7583S 7783S 7583L 7783L 7583*	Rp, Fm, ON	2	HRA	SO2/HCl Cl/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
211	North	75BP83* 75BP83M 75BP83L	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	Rp,Fm, FF	2		
220	Scott	6470-0113* 6480-0113* 65-OV-D 65S-OV-D 65XL-OV-D	Rp,Fm, FF	2	DM	
221	Scott	6470-0015* 6480-0015* 65-OA 65S-OA 65XL-OA	Rp,Fm, FF	2		SO2/HCl CH2-O/Cl H2S/ClO2
222	Scott	6470-0115* 6480-0115* 65-OA-D 65S-OA-D 65XL-OA-D	Rp,Fm, FF	2	DM	SO2/HCl CH2-O/Cl H2S/ClO2
224	Scott	6470-0313* 6480-0313* 65-OVP 65S-OVP 65XL-OVP	Rp, Fm, FF	2	DFMR	PLE/Pest
234	AO	R7053*	Rp,Fm, FF	2		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
236	AO	R7051*	Rp,Fm, FF	2		
237	AO	R7055 S7055	Rp,Fm, FF	2	DM	
238	AO	R7058 S7058	Rp,Fm, FF	2	DMF	Pest
239	AO	R7051P*	Rp,Fm, FF	2		PLE
240	AO	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	Rp,Fm, ON	2	HA	
244	MSA	466163	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

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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
251	Scott	6470-0315* 6480-0315* 65-OA-F 65S-OA-F 65XL-OA-F	Rp,Fm, FF	2	DFMR	SO2/HCl CH2-O/Cl H2S/ClO2
258	Willson	122116 122116R 122116S 122116SR 122116SS 122116SSS S122116 S122116R S122116S S122116SS S122116SSS S122116SR	Rp,Fm, ON	2	DM	PLE
259	Willson	162116 172116	Rp,Fm, FF	2	DM	PLE
260	MSA	466903	Rp,Fm, ON	2	DM	SO2/HCl CH2-O/Cl H2S/ClO2
261	MSA	466902	Rp,Bm, ON	2	DM	SO2/HCl CH2-O/Cl H2S/ClO2
262	MSA	466904 483494	Rp,Fm, FF	2	DM	SO2/HCl CH2-O/Cl H2S/ClO2
263	Cesco	96RC45	Rp,Fm, FF	2	DM	
264	US Safety	151T23	Rp,Fm, FF	2	DM	
267	Cesco	96RC105	Rp,Fm, FF	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
268	US Safety	151T28	Rp,Fm, FF	2	DM	SO2/HCl Cl
271	Cesco	96RC35*	Rp,Fm, FF	2		PLE
272	US Safety	151T24*	Rp,Fm, FF	2		PLE
275	Protech	1482-G100-F108 1482-S-G100-F108 1482-L-G100-F108	Rp,Fm, ON	2	DFM	
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	AO	R4563 S4563 R5563 S5563 R6563 S6563	Rp,Fm, ON	2	DFM	SO2/HCl Cl02/Pest Cl
282	AO	R7563 S7563	Rp,Fm, FF	2	DFM	SO2/HCl Cl02/Pest Cl
285	MSA	468023 468024 468025 471728 471729	Rp, FM, FF	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
286	MSA	468026 468027 468028 468029 468030 468031	Rp, BM, ON	2	DM	PLE
287	Survivair	2101-00 2301-00 2201-00	Rp, FM, ON	2		
293	Willson	1231 1231R 1231S 1231SR 1231SS 1231SSS S1231 S1231R S1231S S1231SR S1231SS S1231SSS	Rp, FM, ON	2		
294	Willson	123112 123112R 123112S 123112SR 123112SS 123112SSS S123112 S123112R S123112S S123112SR S123112SS S123112SSS	Rp, FM, ON	2	HA	
295	Willson	1631 1731	Rp, FM, FF	2		
296	Willson	163112 173112	Rp, FM, FF	2	HA	

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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
297	3M	8729	SU, ON	1		
298	Willson	1235 1235R 1235S 1235SR 1235SSS 1235SS S1235 S1235R S1235S S1235SR S1235SS S1235SSS	Rp, Fm, ON	2		SO2/HCl Cl
299	Willson	123512 123512R 123512S 123512SR 123512SS 123512SSS S123512 S123512R S123512S S123512SR S123512SS S123512SSS	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	

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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
303	US Safety	150T40 150L40 100S40 200S40 100M40 200M40 100L40 200L40 300S/M40 300M/L40	Rp, FM, ON	2	HRA	
304	Cesco	96RC20	Rp, FM, FF	2	HRA	
305	US Safety	151T40	Rp, FM, FF	2	HRA	
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
312	Cesco	96RC80	Rp, FM, FF	2	HRA	SO2/HCl Cl
313	US Safety	151T46	Rp, FM, FF	2	HRA	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
318	Survivair	2203-00 2103-00 2303-00	Rp, FM, ON	2		SO2/HCl CH2-O/C1
320	Pulmosan	10015 10189 10243 10276	Rp, FM, ON	1		SO2/HCl C1
321	Survivair	2221-00 2121-00 2321-00	Rp, FM, ON	2	DM	PLE
322	Survivair	2211-00 2111-00 2311-00	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 C1
325	AO	R4051A S4051A R5051A S5061A R6051A S6051A R5551A S5551A R6551A S6551A	Rp, FM , ON	2		
326	AO	R7051A S7051A R7751A S7751A	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
327	AO	R4051AD S4051AD R5051AD S5051AD R6051AD S6051AD R5551AD S5551AD R6551AD S6551AD	Rp, FM, ON	2	DM	
328	AO	R7051AD S7051AD R7751AD S7751AD	Rp, FM, FF	2	DM	
333	AO	R4051AP S4051AP R5051AP S5051AP R6051AP S6051AP R5551AP S5551AP R6551AP S6551AP	Rp, FM, ON	2	DM	PLE
334	AO	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

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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
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
343	AO	R4053A S4053A R5053A S5053A R6053A S6053A R5553A S5553A R6553A S6553A	Rp, Fm, ON	2		SO2/HCl ClO2/Cl
344	AO	R7053A S7053A R7753A S7753A	Rp, Bm, FF	2		SO2/HCl ClO2/Cl
345	AO	R4053AD S4053AD R5053AD S5053AD R6053AD S6053AD R5553AD S5553AD R6553AD S6553AD	Rp, Fm, ON	2	DM	SO2/HCl ClO2/Cl
346	AO	R7053AD S7053AD R7753AD S7753AD	Rp, Fm, FF	2	DM	SO2/HCl ClO2/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
348	Cesco	96RC115	Rp, Fm, FF	2	DFM	PLE/Pest
349	North	10001S 10001M	Su, ON	1		
351	Survivair	3201-00 4201-00	Rp, Fm, FF	2		
352	North	10003S 10003M	Su, ON	1		SO2/HCl Cl/CH2-O
354	North	10041S 10041M	Su, ON	1	DM	PLE/Pest
355	North	10011S 10011M	Su, ON	1	DM	
357	North	10013S 10013M	Su, ON	1	DM	SO2/HCl Cl/CH2-O
360	Willson	3021 3021R 3021S 3021SR 3021SS 3021SSS S3021 S3021S S3021R S3021SR S3021SS S3021SSS	Rp, Bm, ON	2		
361	Willson	3121 3221	Rp, Bm, FF	2		
362	Willson	3031 3031R 3031S 3031SR	Rp, Bm, ON	2		

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Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
362 Cont.		3031SS 3031SSS S3031 S3031R S3031S S3031SR S3031SS S3031SSS				
363	Willson	3131 3231	Rp, Bm, FF	2		
368	Willson	3025 3025R 3025S 3025SR 3025SS 3025SSS S3025 3025R S3025R S3025S S3025SS S305SSS	Rp, Bm, ON	2		SO2/HCl Cl
369	Willson	3125 3225	Rp, Bm, FF	2		SO2/HCl Cl
370	Willson	3035 3035R 3035S 3035SR 3035SS 3035SSS S3035 S3035S S3035R S3035SR S3035SS S3035SSS	Rp, Bm, ON	2		SO2/HCl Cl
371	Willson	3135 3235	Rp, Bm, FF	2		SO2/HCl Cl

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Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
373	Stewart Warner	7931+	Rp, Fm, ON	2	DFMR	PLE/Pest
374	Willson	302115 302115R 302115S 302115SR 302115SS 302115SSS S302115 S302115R S302115S S302115SR S302115SS S302115SSS	Rp, Bm, ON	2	DM	PLE/Pest
375	Willson	312115 322115	Rp, Bm, FF	2	DM	PLE/Pest
376	Willson	302116 302116R 302116S 302116SR 302116SS 302116SSS S302116 S302116R S302116S S302116SR S302116SS S302116SSS	Rp, Bm, ON	2	DM	PLE
377	Willson	312116 322116	Rp, Bm, FF	2	DM	PLE
380	Willson	302510 302510R 302510S 302510SR 302510SS 302510SSS S302510 S302510R S302510S S302510SR S302510SS S302510SSS	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 S303112 303112R S303112R 303112S S303112S 303112SR S303112SR S303112SS S303112SSS 303112SS 303112SSS	Rp,Bm, ON	2	HA	
383	Willson	313112 323112	Rp,Bm, FF	2	HA	
386	Willson	303512 303512R 303512S 303512SR 303512SS 303512SSS S303512 S303512S S303512R S303512SR S303512SS S303512SSS	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 302110R 302110S 302110SR 302110SS	Rp,Bm, ON	2	DM	

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Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
389 Cont.		302110SSS S302110 S302110R S302110S S302110SR S302110SS S302110SSS				
390	Willson	312113 322113	Rp, Bm, FF	2	DFM	
391	Willson	302113 302113R 302113S 302113SR 302113SS 302113SSS S302113 S302113S S302113R S302113SR S302113SS S302113SSS	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		
405	Glendale	GR7021-10	Rp, Fm, FF	2	DM	
406	Glendale	GR7021-20 GR7021-60	Rp, Fm, FF	2		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
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	AO	R4051HE S4051HE R5051HE S5051HE R6051HE S6051HE R5551HE S5551HE R6551HE S6551HE	Rp, Fm, ON	2	HRA	Pest/PLE
414	AO	R7051HE S7051HE R7751HE S7751HE	Rp, Fm, FF	2	HRA	Pest/PLE
417	AO	R4053HE S4053HE R5053HE S5053HE R6053HE S6053HE R5553HE S5553HE R6553HE S6553HE	Rp, Fm, ON	2	HRA	SO2/HCl ClO2/Pest Cl
418	AO	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

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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
424	AO	R4051E R5051E R6051E	Rp,Fm, ON	2		
425	AO	R7051E	Rp,Fm, FF	2		
426	AO	R4051EP R5051EP R6051EP	Rp,Fm, ON	2	DMZ	PLE
427	AO	R7051EP	Rp,Fm, FF	2	DMZ	PLE
428	DeVilbiss	MSL-500	Rp,Fm, ON	2	DMZ	PLE
433	Survivair	2113-00 2213-00 2313-00	Rp,Fm, ON	2	DM	SO2/HC1 CH2-O/C1
434	Survivair	3213-00 4213-00	Rp,Fm, ON	2	DM	SO2/HC1 CH2-O/C1
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/HC1 C1
447	3M	7209	Rp,Fm, ON	2	DM	SO2/HC1 C1

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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
448	3M	7214	Rp, Fm, ON	2	HRA	SO2/HCl Cl
450	Survivair	2193-00 2293-00 2393-00	Rp, Fm, ON	2	HA	SO2/HCl Cl
451	Survivair	3293-00 4293-00	Rp, Fm, FF	2	HA	SO2/HCl Cl
452	Survivair	2191-00 2291-00 2391-00	Rp, Fm, ON	2	HA	
453	Survivair	3291-00 4291-00	Rp, Fm, FF	2	HA	
454	Survivair	3203-00 4203-00	Rp, Fm, FF	2		SO2/HCl CH2-O/Cl
455	Survivair	3221-00 4221-00	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	Rp, Bm, ON	2	DM	
462	MSA	472750	Rp, Bm, ON	2	DM	SO2/HCl CH2-O/Cl H2S/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
464	MSA	472752	Rp, Bm, ON	2	DM	Pest
465	MSA	472755	Rp, Bm, ON	2	HA	PLE/Pest
466	MSA	472756	Rp, Bm, ON	2	HA	SO2/HCl CH2-O/C1 H2S/CLO2
467	MSA	472757	Rp, Bm, ON	2	DFMR	SO2/HCl CH2-O/C1 H2S/CLO2
469	MSA	472759	Rp, Bm, ON	2	DM	
471	MSA	472761	Rp, Bm, ON	2	HA	
472	MSA	472764	Rp, Bm, ON	2	DM	SO2/HCl CH2-O/C1 H2S/CLO2
473	MSA	472736 472737 472738 479926 thru 479931	Rp, Bm, ON	2	DM	PLE
474	MSA	472739 472740 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	AO	R4055A S4055A R5055A S5055A R6055A S6055A R5555A S5555A R6555A S6555A	Rp,FM, ON	2	DM	
489	AO	R7055A S7055A R7755A S7755A	Rp,FM, FP	2	DM	
490	AO	R4091AP S4091AP R5091AP S5091AP R6091AP S6091AP R5591AP S5591AP R6591AP S6591AP	Rp,FM, ON	2	DM	PLE
491	AO	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		

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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
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
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
522	Scott	65-OA-H 65S-OA-H 65XL-OA-H	Rp, FM, FF	2	HRA	SO2/HCl CH2-O/Cl H2S/ClO2
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
524	Scott	65-OV-H 65S-OV-H 65XL-OV-H	Rp, FM, FF	2	HRA	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
529	Pirelli	4333.2021	Rp,FM, FF	2		
530	Survivair	2141-00 2241-00 2341-00	Rp,FM, ON	2	DFMR	Pest
531	Survivair	3241-00 4241-00	Rp,FM, FF	2	DFMR	Pest
532	Survivair	2143-00 2243-00 2343-00	Rp,FM, ON	2	DFMR	SO2/HCl CH2-O/Cl
533	Survivair	3243-00 4243-00	Rp,Fm,FF	2	DFMR	SO2,Cl HCl/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

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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
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	
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 1521R 1521SS	Rp,FM, ON	2		
556	Willson	3521 3521R 3521SS	Rp,FM, ON	2		
557	Willson	1531 1531R 1531SS	Rp,FM, ON	2		
558	Willson	3531 3531R 3531SS	Rp,FM, 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
563	Willson	1525 1525R 1525SS	Rp,FM, ON	2		SO2/HCl Cl
564	Willson	3525 3525R 3525SS	Rp,FM, ON	2		SO2/HCl Cl
565	Willson	1535 1535R 1535SS	Rp,FM, ON	2		SO2/HCl Cl
566	Willson	3535 3535R 3535SS	Rp,FM, ON	2		SO2/HCl Cl
567	Willson	152110 152110R 152110SS	Rp,FM, ON	2	DM	
568	Willson	352110 352110OR 352110SS	Rp,FM, ON	2	DM	
569	Willson	152113 152113R 153113SS	Rp,FM, ON	2	DFM	
570	Willson	352113 352113R 352113SS	Rp,FM, ON	2	DFM	
571	Willson	152115 152115R 152115SS	Rp,FM, ON	2	DM	PLE/Pest
572	Willson	352115 352115R 352115SS	Rp,FM, ON	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
573	Willson	152116 152116R 152116SS	Rp,FM, ON	2	DM	PLE
574	Willson	352116 352116R 352116SS	Rp,FM, ON	2	DM	PLE
577	Willson	152510 152510R 152510SS	Rp,FM, ON	2	DM	SO2/HCl Cl
578	Willson	352510 352510R 352510SS	Rp,FM, ON	2	DM	SO2/HCl Cl
579	Willson	153112 153112R 153112SS	Rp,FM, ON	2	HA	
580	Willson	353112 353112R 353112SS	Rp,FM, ON	2	HA	
583	Willson	153512 153512R 153512SS	Rp,FM, ON	2	HA	SO2/HCl Cl
584	Willson	353512 353512R 353512SS	Rp,FM, ON	2	HA	SO2/HCl Cl
585	AO	R4058A S4058A R5058A S5058A R6058A S6058A R5558A S5558A R6558A S6558A	Rp,FM, ON	2	DFM	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
586	AO	R7058A S7058A R7758A S7758A	Rp,FM, ON	2	DFM	Pest
587	AO	R4563A S4563A R5563A S5563A R6563A S6563A R55563A S55563A R65563A S65563A	Rp,FM, ON	2	DFM	SO2/HCl ClO2/Pest Cl
588	AO	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

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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
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 GR-8021-50	Rp,FM, ON	2	HRA	
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		

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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
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	
650	North	75BP91M 75BP91L	Rp, Bm, ON	2	DFM	
651	North	7691 7691S*	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 75BP93L	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	Protech	1694-G100	Rp, Fm, FF	2		
662	Protech	1694-G100-F100	Rp, Fm, FF	2	DM	
663	Protech	1694-G100-F108	Rp, Fm, FF	2	DFM	

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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
664	Protech	1694-G104	Rp,Fm, FF	2		SO2/HCl Cl
665	Protech	1694-G104-F100	Rp,Fm, FF	2	DMZ	SO2/HCl Cl
668	Protech	1694-G100-F102	Rp,Fm, FF	2		PLE
669	Protech	1694-G100-F104	Rp,Fm, FF	2	DM	Pest
670	Protech	1694-G104-G208	Rp,Fm, FF	2	HRA	SO2/HCl Cl
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	AO	R8151A* S8151A*	Rp, Fm, ON	1		
677	AO	R8151AP* S8151AP*	Rp, Fm, ON	1	DM	PLE
678	Eastern	287	Rp, Fm, ON	2	HRA	SO2/HCl Cl

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Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
679	AO	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) Air pressure (psig) 15 - 40 17 - 45 22 - 55 25 - 70	2 Hose length (feet) 25 - 50 75 - 100 125 - 200 225 - 300		
					Hose Length (feet)	Press. Range psig 7801-H 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
685	3M	7803 7803C 7803-L 7803-H	Rp, Fm, FF (For 7803C Combination Type C, CF) Air pressure (psig) 15 - 40 17 - 45 22 - 55 25 - 70	2 Hose length (feet) 25 - 50 75 - 100 125 - 200 225 - 300		Cl/HCl OV/SO2
					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

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Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
688	3M	7807 7807C 7807-L 7807-H	Rp, Fm, FF (For 7807C Combination Type C, CF) Air pressure <u>(psig)</u> 15 - 40 17 - 45 22 - 55 25 - 70	2 Hose length <u>(feet)</u> 25 - 50 75 - 100 125 - 200 225 - 300	DM	
					Hose Length <u>(feet)</u>	Press. Range <u>psig</u> 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
690	3M	7809 7809C 7809-L 7809-H	Rp, Fm, FF (For 7809C Combination Type C, CF) Air pressure <u>(psig)</u> 15 - 40 17 - 45 22 - 55 25 - 70	2 Hose length <u>(feet)</u> 25 - 50 75 - 100 125 - 200 225 - 300	DM	SO2/Cl HCl
					Hose Length <u>(feet)</u>	Press. Range <u>psig</u> 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
691	3M	7810 7810C 7810-L 7810-H	Rp, Fm, FF (For 7810C Combination Type C, CF) Air pressure <u>(psig)</u> 15 - 40 17 - 45 22 - 55 25 - 70	2 Hose length <u>(feet)</u> 25 - 50 75 - 100 125 - 200 225 - 300	DM	PLE

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Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
691 Cont.				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
				300	21-36	10-18
693	3M	7812	Rp, Fm, FF	2	HRA	
		7812C				
		7812-H	(For 7812C Combination Type C, CF)			
		7812-L	Air pressure	Hose length		
			(psig)	(feet)		
			15 - 40	25 - 50		
			17 - 45	75 - 100		
			22 - 55	125 - 200		
			25 - 70	225 - 300		
				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
695	3M	7814	Rp, Fm, FF	2	HRA	SO ₂ /HCl
		7814C				Cl
		7814-L	(For 7814C Combination Type C, CF)			
		7814-H	Air pressure	Hose length		
			(psig)	(feet)		
			15 - 40	25 - 50		
			17 - 45	75 - 100		
			22 - 55	125 - 200		
			25 - 70	225 - 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

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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
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 152517R 152517SS	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 352517R 352517SS	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
731	Willson	152117 152117R 152117SS	ON, Rp, Fm	2	DFM	Pest/PLE
732	Willson	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

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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
734	Willson	352117 352117R 352117SS	ON, Rp, Bm	2	DFM	Pest/PLE
736	Willson	6105S 6105M 6105L	ON, Rp, Fm	2		SO2/Cl/HCl
737	Willson	6101S 6101M 6101L	ON, Rp, Fm	2		
738	Willson	6201S 6201M 6201L	ON, Rp, Fm	1		
740	Willson	6205S 6205M 6205L	ON, Rp, Fm	1		SO2/Cl/HCl
743	Willson	6401 S6401 6501 S6501	FF, Rp, Fm	2		
745	Willson	6505 S6505 6405 S6405	FF, Rp, Fm	2		SO2/Cl/HCl
747	Willson	6411 S6411 6511 S6511	FF, Rp, Fm	2	DM	PLE/Pest
748	Willson	6515 S6515 6415 S6415	FF, Rp, Fm	2	DM	SO2/Cl/HCl

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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
751	Willson	6111S 6111M 6111L	ON,Rp,Fm	2	DM	PLE/Pest
753	Willson	6115S 6115M 6115L	ON,Rp,Fm	2	DM	SO2/Cl/HCl
755	Willson	6211S 6211M 6211L	ON,Rp,Fm	1	DM	PLE
756	Willson	6215S 6215M 6215L	ON,Rp,Fm	1	DM	SO2/Cl/HCl
759	Willson	6141S 6141M 6141L	Rp,Fm,ON	2	HA	
760	Willson	6541 S6541 6441 S6441	Rp,Fm,FF	2	HA	
763	Willson	6145S 6145M 6145L	Rp,Fm,ON	2	HA	SO2/Cl/HCl
764	Willson	6445 S6445 6545 S6545	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 CH2-O H2S/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
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/Cl/SO2 CH2-O/H2S 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	HCl/Cl/SO2 CH2-O/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	HCl/Cl/SO2 CH2-O/H2S CLO2
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

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
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 6125M 6125L	Rp, Fm, ON	2	DFMR	SO2/Cl/HCl
788	Willson	6425 S6425 6525 S6525	Rp, Fm, FF	2	DFMR	SO2/Cl/HCl
791	Willson	6121S 6121M 6121L	Rp, Fm, ON	2	PLE	Pest
792	Willson	6421 S6421 6521 S6521	Rp, Fm, FF	2	PLE	Pest
793	AO	S7551HE S7551HEC	FF, Rp, Fm	2	HRA For S7551HEC Comb. Type CF Hose Length <u>feet</u> 25 - 300	PLE/Pest Press. Range <u>psig</u> 14 - 37
				For 1/2" Hose Hose Length <u>feet</u> 25 - 75 100 - 150 175 - 225 250 - 300		
				Press. Range <u>psig</u> 14 - 22 16 - 26 18 - 29 20 - 32		

CHEMICAL CARTRIDGES - ORGANIC VAPOR

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
794	AO	S7553HE S7553HEC	FF,Rp,Fm	2	HRA Pest	SO2/HCl/Cl CL02
				For S7553HEC		
				Comb. Type C, CF		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 300	14 - 37	
				For 1/2" Hose		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 75	14 - 22	
				100 - 150	16 - 26	
				175 - 225	18 - 29	
				250 - 300	20 - 32	
796	AO	S7591AP S7591APC	FF,Rp,Fm	2	DM	PLE
				For S7591APC		
				Comb. Type C, CF		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 300	14 - 37	
				For 1/2" Hose		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 75	14 - 22	
				100 - 150	16 - 26	
				175 - 225	18 - 29	
				250 - 300	20 - 32	
797	AO	S7551A S7551AC	FF,Rp,Fm	2		
				For S7551AC		
				Comb. Type C, CF		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 300	14 - 37	
				For 1/2" Hose		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 75	14 - 22	
				100 - 150	16 - 26	
				175 - 225	18 - 29	
				250 - 300	20 - 32	

CHEMICAL CARTRIDGES - ORGANIC VAPOR

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
799	AO	S7553A S7553AC	FF,Rp,Fm	2 For S7553AC Comb. Type C, CF Hose Length <u>feet</u> 25 - 300	DM For S7553AC Comb. Type C, CF Press. Range <u>psig</u> 14 - 37 For 1/2" Hose Hose Length <u>feet</u> 25 - 75 100 - 150 175 - 225 250 - 300	C1/SO2/HCl CLO2
801	AO	S7555A S7555AC	FF,Rp,Fm	2 For S7555AC Comb. Type C, CF Hose Length <u>feet</u> 25 - 300	DM For S7555AC Comb. Type C, CF Press. Range <u>psig</u> 14 - 37 For 1/2" Hose Hose Length <u>feet</u> 25 - 75 100 - 150 175 - 225 250 - 300	
802	AO	S7558A S7558AC	FF,Rp,Fm	2 For S7558AC Comb. Type C, CF Hose Length <u>feet</u> 25 - 300	DFM For S7558AC Comb. Type C, CF Press. Range <u>psig</u> 14 - 37 For 1/2" Hose Hose Length <u>feet</u> 25 - 75 100 - 150 175 - 225 250 - 300	Pest

CHEMICAL CARTRIDGES - ORGANIC VAPOR

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
805	AO	S7570A S7570AC	FF,Rp,Fm	2		OV/SO2/HCl
				For S7570AC		CL02
				Comb. Type C, CF		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 300	14 - 37	
				For 1/2" Hose		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 75	14 - 22	
				100 - 150	16 - 26	
				175 - 225	18 - 29	
				250 - 300	20 - 32	
806	AO	S7551AD S7551ADC	FF,Rp,Fm	2	DM	
				For S7551ADC		
				Comb. Type C, CF		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 300	14 - 37	
				For 1/2" Hose		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 75	14 - 22	
				100 - 150	16 - 26	
				175 - 225	18 - 29	
				250 - 300	20 - 32	
807	AO	S7551AP S7551APC	FF,Rp,Fm	2	DM	PLE
				For S7551APC		
				Comb. Type C, CF		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 300	14 - 37	
				For 1/2" Hose		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 75	14 - 22	
				100 - 150	16 - 26	
				175 - 225	18 - 29	
				250 - 300	20 - 32	

CHEMICAL CARTRIDGES - ORGANIC VAPOR

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
809	AO	S7553AD S7553ADC	FF,Rp,Fm	2 For S7553ADC Comb. Type C, CF Hose Length <u>feet</u> 25 - 300	DM Press. Range <u>psig</u> 14 - 37	Cl/SO2/HCl CLO2
				For 1/2" Hose Hose Length <u>feet</u> 25 - 75 100 - 150 175 - 225 250 - 300	Press. Range <u>psig</u> 14 - 22 16 - 26 18 - 29 20 - 32	
812	AO	S75563A S75563AC	FF,Rp,Fm	2 For S75563AC Comb. Type C, CF Hose Length <u>feet</u> 25 - 300	DFM Press. Range <u>psig</u> 14 - 37	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
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 6221M 6221L	Rp,Fm,ON	1	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
828	Willson	6225S 6225M 6225L	Rp,Fm,ON	1	DFM	SO2/Cl/HCl
830	MSA	484449 484450 484451 484461 484462 484463	Rp,Fm,FF	2	DM Comb. Type C, Pd Hose Length Press. Range <u>feet</u> <u>psig</u> 8 - 300 65 - 85	PLE
831	MSA	484474	Rp,Fm,FF	2	DM Comb. Type C, Pd Hose Length Press. Range <u>feet</u> <u>psig</u> 8 - 300 65 - 85	
833	MSA	484476	Rp,Fm,FF	2	DM Comb. Type C, Pd Hose Length Press. Range <u>feet</u> <u>psig</u> 8 - 300 65 - 85	SO2/Cl/HCl CH2-O/H2S ClO2
835	MSA	484478	Rp,Fm,FF	2	DM Comb. Type C, Pd Hose Length Press. Range <u>feet</u> <u>psig</u> 8 - 300 65 - 85	SO2/Cl/HCl CH2-O/H2S ClO2
837	MSA	484488	Rp,Fm,FF	2	DM Comb. Type C, Pd Hose Length Press. Range <u>feet</u> <u>psig</u> 8 - 300 65 - 85	SO2/Cl/HCl CH2-O/H2S ClO2

CHEMICAL CARTRIDGES - ORGANIC VAPOR

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
838	MSA	484479	Rp,Fm,FF	2	HA	Pest/PLE
				Comb. Type C, Pd		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				8 - 300	65 - 85	
839	MSA	484481	Rp,Fm,FF	2	HA	SO2/HCl/Cl H2S/CLO2 CH2-O
				Comb. Type C, Pd		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				8 - 300	65 - 85	
841	MSA	484484	Rp,Fm,FF	2	HA	Pest/PLE
				Comb. Type C, Pd		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				8 - 300	65 - 85	
842	MSA	484487	Rp,Fm,FF	2	HA	
				Comb. Type C, Pd		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				8 - 300	65 - 85	
844	MSA	483993	Rp,Fm,FF	2	DM	SO2/Cl/HCl CH2-O/H2S CLO2
				Comb. Type C, CF		
				Hose Length	Press. Range	
				<u>(feet)</u>	<u>psig</u>	
				8-300	35 - 40	
846	MSA	484015	Rp,Fm,FF	2	DM	PLE
				Comb. Type C, CF		
				Hose Length	Press. Range	
				<u>(feet)</u>	<u>psig</u>	
				8-300	35 - 40	
				484016		
				484017		
				484027		
				484028		
				484029		

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
847	MSA	484001	Rp,Fm,FF	2 Comb. Hose Length (feet) 8-300	DM Type C, CF Press. Range psig 35 - 40	Pest/PLE
848	MSA	484004	Rp,Fm,FF	2 Comb. Hose Length (feet) 8-300	HA Type C, CF Press. Range psig 35 - 40	
849	MSA	483995	Rp,Fm,FF	2 Comb. Hose Length (feet) 8-300	DM Type C, CF Press. Range psig 35 - 40	
850	MSA	483996	Rp,Fm,FF	2 Comb. Hose Length (feet) 8-300	HA Type C, CF Press. Range psig 35 - 40	Pest/PLE
852	MSA	484005	Rp,Fm,FF	2 Comb. Hose Length (feet) 8-300	DM Type C, CF Press. Range psig 35 - 40	SO2/Cl/HCl CH2-O/H2S ClO2
853	MSA	483999	Rp,Fm,FF	2 Comb. Hose Length (feet) 8-300	DFMR Type C, CF Press. Range psig 35 - 40	SO2/Cl/HCl CH2-O/H2S ClO2

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
854	MSA	483998	Rp,Fm,FF	2	HRA	SO2/Cl/HCl CH2-O/H2S ClO2
				Comb. Type C, CF Hose Length (feet) 8-300	Press. Range psig 35 - 40	
855	MSA	483990	Rp,Fm,FF	2	DM	
				Comb. Type C, CF Hose Length (feet) 8-300	Press. Range psig 35 - 40	
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
865	3M	5103 5203 5303	ON,Su	2		SO2/Cl/HCl
868	3M	5113 5213 5313	ON,Su	2	DM	SO2/Cl/HCl

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
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	FF,Rp,Fm	2 Combination Hose Length (feet)	Type C, Pd Press. Range psig	
					7801-H 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
878	3M	7803-H 7803-L	FF,Rp,Fm	2 Combination Hose Length (feet)	Type C, Pd Press. Range psig	SO2/Cl/HCl
					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

CHEMICAL CARTRIDGES - ORGANIC VAPOR

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
881	3M	7807-H 7807-L	FF,Rp,Fm	2 Combination Hose Length (feet)	DM Type C, Pd 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
883	3M	7809-H 7809-L	FF,Rp,Fm	2 Combination Hose Length (feet)	DM Type C, Pd Press. Range psig	SO2/Cl/HCl
					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
884	3M	7810-H 7810-L	FF,Rp,Fm	2 Combination Hose Length (feet)	DM Type C, Pd Press. Range psig	PLE
					7810-H 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
885	3M	7812-H 7812-L	FF,Rp,Fm	2 Combination Hose Length (feet)	HRA Type C, Pd Press. Range psig	PLE
					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

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
886	3M	7814-H 7814-L	FF, Rp, Fm	2 Combination Hose Length (feet)	HRA Type C, Pd Press. Range psig 7814-H 7814-L	SO2/Cl/HCl
				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
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	AO	R4051AF S4051AF R5051AF S5051AF R6051AF S6051AF	Rp, Fm, ON	2	DFMR	Pest/PLE
900	AO	R7051AF S7051AF R7751AF S7751AF	Rp, Fm, FF	2	DFMR	Pest/PLE
901	AO	S7551AF S7551AFC	Rp, Fm, FF	2	DFMR	Pest/PLE
			For S7551AFC, combination Type C, CF 3/8" I.D.			
			Hose Length	Press. Range		
			feet	psig		
			25 - 75	17 - 25		
			100 - 150	20 - 29		
			175 - 225	23 - 32		
			250 - 300	26 - 35		

CHEMICAL CARTRIDGES - ORGANIC VAPOR

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
901 Cont.			1/2" I.D. Hose Length Press. Range <u>feet</u> <u>psig</u>			
			25 - 75 14 - 22			
			100 - 150 16 - 26			
			175 - 225 18 - 29			
			250 - 300 20 - 32			
905	AO	R4053AF S4053AF R5053AF S5053AF R6053AF S6053AF	Rp, Fm, ON	2	DFMR	SO2/CL02/ HCl/Pest/ Cl
906	AO	R7053AF S7053AF R7753AF S7753AF	Rp, Fm, FF	2	DFMR	SO2/CL02/ HCl/Pest/ Cl
907	AO	S7553AF S7553AFC	Rp, Fm, FF	2	DFMR	SO2/CL02/ Pest/HCl/ Cl
			For S7553AFC, combination Type C, CF 3/8" I.D. Hose Length Press. Range <u>feet</u> <u>psig</u>			
			25 - 75 17 - 25			
			100 - 150 20 - 29			
			175 - 225 23 - 32			
			250 - 300 26 - 35			
907 Cont.			1/2" I.D. Hose Length Press. Range <u>feet</u> <u>psig</u>			
			25 - 75 14 - 22			
			100 - 150 16 - 26			
			175 - 225 18 - 29			
			250 - 300 20 - 32			
914	AO	R7070AF S7070AF R7770AF S7770AF	Rp, Fm, FF	2	DFMR	SO2/CL02/ HCl/Pest/ Cl

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
915	AO	S7570AF S7570AFC	Rp,Fm,FF	2	DFMR	SO2/CL02/ Pest/HCl/ Cl
For S7570AFC, combination Type C, CF						
3/8" I.D.						
Hose Length Press. Range						
<u>feet</u> <u>psig</u>						
25 - 75 17 - 25						
100 - 150 20 - 29						
175 - 225 23 - 32						
250 - 300 26 - 35						
1/2" I.D.						
Hose Length Press. Range						
<u>feet</u> <u>psig</u>						
25 - 75 14 - 22						
100 - 150 16 - 26						
175 - 225 18 - 29						
250 - 300 20 - 32						

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.

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
54	Willson	122115 S122115SS 122115S 122115SS 122115SR S122115 122115R S122115R S122115SR 122115SSS S122115SSS S122115S	Rp, Fm, ON	2	DM	OV/Pest
75	North	7531* 7531M 7731M 7531S 7731S 7531L 7731L	Rp, Fm, ON	2		OV
75	Acme	27*	Rp, Fm, ON	2		OV
79	MSA	448848 461009	Rp, Fm, Bm, ON	2	DM	OV/Pest
80	MSA	448849 460853 462241 466249 466250 466251 466255 466528 466529 468015 thru 468018 476726 thru 476728 479704 thru 479712 479914 thru 479922	Rp, Fm, Bm, 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
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
92	AO	R8191P* S8191P*	Rp, Fm, ON	1	DM	OV
93	AO	R8151P S8151P	Rp, Fm, ON	1	DM	OV
94	AO	R4051P* R5051P* R6051P*	Rp, Fm, ON	2	DM	OV
96	DeVilbiss	MSP-505* MSP-505-1*	Rp, Fm, ON	2	DM	OV
97	AO	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

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
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
123	3M	8741	Su, ON	1		OV
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	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

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
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
149	MSA	461846 466256 466257 471726 471727 480386 480387 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
175	North	75BP31* 75BP31M 75BP31L	Rp,Bm,ON	2		OV
188	North	7631 7631S* 7631N* 7631SN*	Rp,Fm,FF	2		OV
201	MSA	465986 466239 466240 466241 466526 466527	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
204	North	7581M 7781M 7581S 7781S 7581L 7781L 7581*	Rp, Fm, ON	2	HRA	OV
205	North	75BP81* 75BP81M 75BP81L	Rp, Bm, ON	2	HRA	OV
206	North	7681 7681S*	Rp, Fm, FF	2	HRA	OV
224	Scott	6470-0313* 6480-0313* 65-OV-P 65S-OV-P 65XL-OVP	Rp, Fm, FF	2	DFMR	OV/Pest
239	AO	R7051P*	Rp, Fm, FF	2		OV
240	AO	R7091P S7091P	Rp, Fm, FF	2	DM	OV
258	Willson	122116 S122116 122116S S122116R 122116SR S122116S S122116SS S122116SSS 122116SSS S122116SR 122116R 122116SS	Rp, Fm, ON	2	DM	OV
259	Willson	162116 172116	Rp, Fm, FF	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
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 468024 468025 471728 471729	Rp, FM, FF	2	DM	OV
286	MSA	468026 468027 468028 468029 468030 468031	Rp, BM, ON	2	DM	OV
321	Survivair	2221-00 2121-00 2321-00	Rp, FM, ON	2	DM	OV
333	AO	R4051AP S4051AP R5051AP S5051AP R6051AP S6051AP R5551AP S5551AP R6551AP S6551AP	Rp, FM, ON	2	DM	OV
334	AO	R7051AP S7051AP R7751AP S7751AP	Rp, FM, FF	2	DM	OV
335	DeVilbiss	MSP-508 MSP-9508	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
336	US Safety	150T35 150L35 100S35 200S35 100M35 200M35 100L35 200L35 300S/M35 300M/L35	Rp, Fm, ON	2	DFMR	OV/Pest
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
348	Cesco	96RC115	Rp, Fm, FF	2	DFM	OV/Pest
354	North	10041S 10041M	Su, ON	1	DM	OV/Pest
373	Stewart Warner	7931+	Rp, Fm, ON	2	DFMR	OV/Pest
374	Willson	302115 302115R 302115S 302115SR 302115SS 302115SSS S302115 S302115R	Rp, Bm, ON	2	DM	OV/Pest

CHEMICAL CARTRIDGES - PAINTS, LACQUERS, ENAMELS

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
374 Cont.		S302115S S302115SR S302115SS S302115SSS				
375	Willson	312115 322115	Rp, Bm,FF	2	DM	OV/Pest
376	Willson	302116 302116R 302116S 302116SR 302116SS 302116SSS S302116 S302116R S302116S S302116SR S302116SS S302116SSS	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
413	AO	R4051HE S4051HE R5051HE S5051HE R6051HE S6051HE R5551HE S5551HE R6551HE S6551HE	Rp, Fm,ON	2	HRA	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
414	AO	R7051HE S7051HE	Rp, Fm, FF	2	HRA	OV/Pest
426	AO	R4051EP R5051EP R6051EP	Rp, Fm, ON	2	DMZ	OV
427	AO	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 4221-00	Rp, Fm, FF	2	DM	OV
465	MSA	472755	Rp, Bm, ON	2	HA	OV/Pest
473	MSA	472736 472737 472738 479926 thru 479931	Rp, Bm, ON	2	DM	OV
474	MSA	472739 472740 472741 480055 thru 480063	Rp, Bm, ON	2	DM	OV
490	AO	R4091AP S4091AP R5091AP S5091AP R6091AP S6091AP R5591AP S5591AP R6591AP S6591AP	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
491	AO	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
524	Scott	65-OV-H 65S-OV-H 65XL-OV-H	Rp,FM,FF	2	HRA	OV/Pest
554	Pulmosan	10438 10441 11060	Rp,Fm,ON	2	DM	OV
571	Willson	152115 152115R 152115SS	Rp,FM,ON	2	DM	OV/Pest
572	Willson	352115 352115R 352115SS	Rp,FM,ON	2	DM	OV/Pest
573	Willson	152116 152116R 152116SS	Rp,FM,ON	2	DM	OV
574	Willson	352116 352116R 352116SS	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																					
616	Shoplyne	11060 10441	Rp, FM, ON	2	DM	OV																					
668	Protech	1694-G100-F102	Rp, Fm, FF	2		OV																					
675	Binks	40-411 40-412 40-413 40-414 40-415 40-416	Rp, Fm, ON	2	HA	OV																					
677	AO	R8151AP* S8151AP*	Rp, Fm, ON	1	DM	OV																					
691	3M	7810 7810C 7810-H 7810-L	Rp, Fm, FF (For 7810C Combination Type C, CF) Air pressure <u>(psig)</u> 15 - 40 17 - 45 22 - 55 25 - 70	2	DM	OV																					
			<table><tr><th>Hose Length (feet)</th><th colspan="2">Press. Range psig</th></tr><tr><td></td><td>7810-H</td><td>7810-L</td></tr><tr><td>25</td><td>8-15</td><td>7-11</td></tr><tr><td>50</td><td>10-19</td><td>7-11</td></tr><tr><td>100</td><td>12-21</td><td>7-12</td></tr><tr><td>200</td><td>17-31</td><td>8-16</td></tr><tr><td>300</td><td>21-36</td><td>10-18</td></tr></table>		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	300	21-36	10-18		
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																									
300	21-36	10-18																									
729	Willson	122117R/S/SR/SS/SSS S122117/S/SR/SS/SSS	ON, Rp, Fm	2	DFM	Pest/OV																					
730	Willson	162117 172117	FF, Rp, Fm	2	DFM	Pest/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
731	Willson	152117 152117R 152117SS	ON, Rp, Fm	2	DFM	Pest/OV
732	Willson	302117R/S/SR/SS/SSS S302117R/S/SR/SS/SSS	ON, Rp, Bm	2	DFM	Pest/OV
733	Willson	312117 322117	FF, Rp, Bm	2	DFM	Pest/OV
734	Willson	352117 352117R 352117SS	ON, Rp, Bm	2	DFM	Pest/OV
747	Willson	6411 S6411 6511 S6511	FF, Rp, Fm	2	DM	OV/Pest
751	Willson	6111S 6111M 6111L	ON, Rp, Fm	2	DM	OV/Pest
755	Willson	6211S 6211M 6211L	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

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
791	Willson	6121S 6121M 6121L	Rp,Fm,ON	2	DFMR	Pest/OV
792	Willson	6421 S6421 6521 S6521	Rp,Fm,FF	2	DFMR	Pest/OV
796	AO	S7591AP S7591APC	FF,Rp,Fm	2	DM	OV
For S7591APC Comb. Type C, CF						
Hose Length Press. Range						
<u>feet</u> <u>psig</u>						
25 - 300 14 - 37						
For 1/2" Hose						
Hose Length Press. Range						
<u>feet</u> <u>psig</u>						
25 - 75 14 - 22						
100 - 150 16 - 26						
175 - 225 18 - 29						
250 - 300 20 - 32						
807	AO	S7551AP S7551APC	FF,Rp,Fm	2	DM	OV
For S7551APC Comb. Type C, CF						
Hose Length Press. Range						
<u>feet</u> <u>psig</u>						
25 - 300 14 - 37						
For 1/2" Hose						
Hose Length Press. Range						
<u>feet</u> <u>psig</u>						
25 - 75 14 - 22						
100 - 150 16 - 26						
175 - 225 18 - 29						
250 - 300 20 - 32						
816	Glendale	GR9521-60	Rp,Fm,ON	2		OV
826	Willson	6221S 6221M 6221L	Rp,Fm,ON	1	DFM	Pest/OV

CHEMICAL CARTRIDGES - PAINTS, LACQUERS, ENAMELS

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
830	MSA	484449 484450 484451 484461 484462 484463	Rp,Fm,FF	2	DM	OV
				Comb. Type C, Pd Hose Length <u>feet</u> 8 - 300	Press. Range <u>psig</u> 65 - 85	
838	MSA	484479	Rp,Fm,FF	2	HA	OV
				Comb. Type C, Pd Hose Length <u>feet</u> 8 - 300	Press. Range <u>psig</u> 65 - 85	
841	MSA	484484	Rp,Fm,FF	2	HA	Pest/OV
				Comb. Type C, Pd Hose Length <u>feet</u> 8 - 300	Press. Range <u>psig</u> 65 - 85	
846	MSA	484015 484016 484017 484027 484028 484029	Rp,Fm,FF	2	DM	OV
				Comb. Type C, CF Hose Length <u>(feet)</u> 8-300	Press. Range <u>psig</u> 35 - 40	
847	MSA	484001	Rp,Fm,FF	2	DM	Pest/OV
				Comb. Type C, CF Hose Length <u>(feet)</u> 8-300	Press. Range <u>psig</u> 35 - 40	
850	MSA	483996	Rp,Fm,FF	2	HA	Pest/OV
				Comb. Type C, CF Hose Length <u>(feet)</u> 8-300	Press. Range <u>psig</u> 35 - 40	
860	3M	5111 5211 5311	Su,ON	2	DM	Pest/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
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	Rp, Fm, FF	2	DM	OV
				Combination Hose Length (feet)	Type C, Pd 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
				300	21-36	10-18
899	AO	R4051AF S4051AF R6051AF S6051AF R5051AF S5051AF	Rp, Fm, ON	2	DFMR	OV/Pest

CHEMICAL CARTRIDGES - PAINTS, LACQUERS, ENAMELS

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
900	AO	R7051AF S7051AF R7751AF S7751AF	Rp,Fm,FF	2	DFMR	OV/Pest
901	AO	S7551AF S7551AFC	Rp,Fm,FF	2	DFMR	OV/Pest
For S7551AFC, combination Type C, CF						
3/8" I.D.						
		Hose Length	Press. Range			
		<u>feet</u>	<u>psig</u>			
		25 - 75	17 - 25			
		100 - 150	20 - 29			
		175 - 225	23 - 32			
		250 - 300	26 - 35			
1/2" I.D.						
		Hose Length	Press. Range			
		<u>feet</u>	<u>psig</u>			
		25 - 75	14 - 22			
		100 - 150	16 - 26			
		175 - 225	18 - 29			
		250 - 300	20 - 32			

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.

E. Chemical Cartridges
8. 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	Willson	122115 S122115SS 122115S 122115SS 122115SR S122115 122115R S122115R S122115SR 122115SSS S122115SSS S122115S	Rp,Fm, ON	2	DM	OV/PLE
74	North	7549* 7549M 7749M 7549S 7749S 7549L 7749L	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	Rp,Fm,Bm ON	2	DM	PLE/OV
106	AO	R4058 S4058 R5058 S5058 R6058 S6058	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
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 10228 10264	Rp,FM, ON	1		
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
133	Willson	162115 172115	Rp,Fm, FF	2	DM	OV/PLE
148	MSA	461858 483490	Rp,Fm, FF	2	DM	OV/PLE
161	MSA	460846 461012	Rp,Fm,Bm, ON	2	HA	OV/PLE
178	North	75BP49* 75BP49M 75BP49L	Rp,Bm, ON	2		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
190	North	7649 7649S* 7649N* 7649SN*	Rp,Fm, FF	2		OV
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	Rp,Fm, ON	2	DM	OV
202	Sellstrom	315-G100-F104	Rp,Fm, ON	2	DM	OV
224	Scott	6470-0313* 6480-0313* 65-OVP 65S-OVP 65XL-OVP	Rp, Fm, FF	2	DFMR	OV/PLE
238	AO	R7058 S7058	Rp,Fm, FF	2	DMF	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
273	Cesco	96RC125*	Rp,Fm, FF	2		
274	US Safety	151T30*	Rp,Fm, FF	2		
281	AO	R4563 S4563 R5563 S5563 R6563 S6563	Rp,Fm, ON	2	DFM	SO2/HCl/OV Cl/ClO2
282	AO	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
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
348	Cesco	96RC115	Rp, Fm, FF	2	DFM	OV/PLE
354	North	10041S 10041M	Su, ON	1	DM	OV/PLE
373	Stewart Warner	7931+	Rp, Fm, ON	2	DFMR	OV/PLE
374	Willson	302115 302115R 302115S 302115SR 302115SS 302115SSS S302115 S302115R S302115S S302115SR S302115SS S302115SSS	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	AO	R4051HE S4051HE R5051HE S5051HE R6051HE S6051HE R5551HE S5551HE R6551HE S6551HE	Rp, Fm, ON	2	HRA	PLE/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
414	AO	R7051HE S7051HE R7751HE S7751HE	Rp, Fm, FF	2	HRA	PLE/OV
417	AO	R4053HE S4053HE R5053HE S5053HE R6053HE S6053HE R5553HE S5553HE R6553HE S6553HE	Rp, Fm, ON	2	HRA	OV/CLO2/ Cl/HCl SO2
418	AO	R7053HE S7053HE R7753HE S7753HE	Rp, Fm, FF	2	HRA	OV/CLO2/ Cl2/HCl
439	3M	7205	Rp, Fm, ON	2		
456	Survivair	3231-00*	Rp, Fm, FF	2	DFMR	OV
464	MSA	472752	Rp, Bm, ON	2	DM	OV
465	MSA	472755	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
493	Pulmosan	10402	Rp, FM, FF	1		

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
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
524	Scott	65-OV-H 65S-OV-H 65XL-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	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 152115R 152115SS	Rp,FM, ON	2	DM	OV/PLE
572	Willson	352115 352115R 352115SS	Rp,FM, ON	2	DM	OV/PLE
585	AO	R4058A S4058A 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	AO	R7058A S7058A R7758A S7758A	Rp, FM, ON	2	DFM	OV
587	AO	R4563A S4563A R5563A S5563A R6563A S6563A R55563A S55563A R65563A S65563A	Rp, FM, ON	2	DFM	SO2/HCl/Cl OV/ClO2
588	AO	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
682	Kasco	K80S-T4	PAPR, HH	3	D,Z	
687	3M	7805 7805C 7805-L 7805-H	Rp, Fm, FF (For 7805C Combination Type C, CF) Air pressure (psig) 15 - 40 17 - 45 22 - 55 25 - 70	2 Hose length (feet) 25 - 50 75 - 100 125 - 200 225 - 300		

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
687 Cont.				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
729	Willson	122117R/S/SR/SS/SSS S122117/R/S/SR/SS/SSS	ON, Rp, Fm	2	DFM	PLE/OV
730	Willson	162117 172117	FF, Rp, Fm	2	DFM	PLE/OV
731	Willson	152117 152117R 152117SS	ON, Rp, Fm	2	DFM	PLE/OV
732	Willson	302117/R/S/SR/SS/SSS S302117/R/S/SR/SS/SSS	ON, Rp, Bm	2	DFM	PLE/OV
733	Willson	312117 322117	FF, Rp, Bm	2	DFM	PLE/OV
734	Willson	352117 352117R 352117SS	ON, Rp, Bm	2	DFM	PLE/OV
747	Willson	6411 S6411 6511 S6511	FF, Rp, Fm	2	DM	OV/PLE
751	Willson	6111S 6111M 6111L	ON, Rp, Fm	2	DM	OV/PLE
767	Kasco	K80S-T5N/BP3-2 K80E-T5N/BP3-2	PAPR, HH	3		

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
782	Scott	66STC-OVP S66STC-OVP 66MTC-OVP S66MTC-OVP 66LTC-OVP S66LTC-OVP	Rp, Fm, ON	2	DFMR	OV/PLE
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 6121M 6121L	Rp, Fm, ON	2	PLE	OV
792	Willson	6421 S6421 6521 S6521	Rp, Fm, FF	2	PLE	OV
793	AO	S7551HE S7551HEC	FF, Rp, Fm	2	HRA For S7551HEC Comb. Type CF Hose Length Press. Range <u>feet</u> <u>psig</u> 25 - 300 14 - 37 For 1/2" Hose Hose Length Press. Range <u>feet</u> <u>psig</u> 25 - 75 14 - 22 100 - 150 16 - 26 175 - 225 18 - 29 250 - 300 20 - 32	PLE/OV
794	AO	S7553HE S7553HEC	FF, Rp, Fm	2	HRA For S7553HEC Comb. Type C, CF Hose Length Press. Range <u>feet</u> <u>psig</u> 25 - 300 14 - 37	SO2/HCl/Cl2 ClO2/OV

CHEMICAL CARTRIDGES - PESTICIDES

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
794 Cont.						
				For 1/2" Hose		
				Hose Length	Press. Range	
				feet	psig	
				25 - 75	14 - 22	
				100 - 150	16 - 26	
				175 - 225	18 - 29	
				250 - 300	20 - 32	
802	AO	S7558A S7558AC	FF,Rp,Fm	2	DFM	Pest
				For S7558AC		
				Comb. Type C, CF		
				Hose Length	Press. Range	
				feet	psig	
				25 - 300	14 - 37	
				For 1/2" Hose		
				Hose Length	Press. Range	
				feet	psig	
				25 - 75	14 - 22	
				100 - 150	16 - 26	
				175 - 225	18 - 29	
				250 - 300	20 - 32	
812	AO	S75563A S75563AC	FF,Rp,Fm	2	DFM	Cl/SO2/HCl CLO2
				For S75563AC		
				Comb. Type C, CF		
				Hose Length	Press. Range	
				feet	psig	
				25 - 300	14 - 37	
				For 1/2" Hose		
				Hose Length	Press. Range	
				feet	psig	
				25 - 75	14 - 22	
				100 - 150	16 - 26	
				175 - 225	18 - 29	
				250 - 300	20 - 32	
825	Glendale	GR9525 GR9525A	Rp,Fm,ON	2		
826	Willson	6221S 6221M 6221L	Rp,Fm,ON	1	DFM	OV/PLE

CHEMICAL CARTRIDGES - PESTICIDES

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
838	MSA	484479	Rp,Fm,FF	2	HA	OV/PLE
				Comb. Type C, Pd		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				8 - 300	65 - 85	
841	MSA	484484	Rp,Fm,FF	2	HA	PLE/OV
				Comb. Type C, Pd		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				8 - 300	65 - 85	
847	MSA	484001	Rp,Fm,FF	2	DM	PLE/OV
				Comb. Type C, CF		
				Hose Length	Press. Range	
				<u>(feet)</u>	<u>psig</u>	
				8-300	35 - 40	
850	MSA	483996	Rp,Fm,FF	2	HA	PLE/OV
				Comb. Type C, CF		
				Hose Length	Press. Range	
				<u>(feet)</u>	<u>psig</u>	
				8-300	35 - 40	
857	3M	8751A	Su,ON	1		OV
860	3M	5111 5211 5311	Su,ON	2	DM	PLE/OV
880	3M	7805-H 7805-L	Rp,FF,FM	2	Combination Type C, Pd	
				Hose Length	Press. Range	
				<u>(feet)</u>	<u>psig</u>	
					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
893	Racal	BE10/AP3	HH,PAPR		HRA	OV

CHEMICAL CARTRIDGES - PESTICIDES

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
899	AO	R4051AF S4051AF R5051AF S5051AF R6051AF S6051AF	Rp, Fm, ON	2	DFMR	OV/PLE
900	AO	R7051AF S7051AF R7751AF S7751AF	Rp, Fm, FF	2	DFMR	OV/PLE
901	AO	S7551AF S7551AFC	Rp, Fm, FF	2	DFMR	OV/PLE
For S7551AFC, combination Type C, CF						
3/8" I.D.						
Hose Length Press. Range						
<u>feet</u> <u>psig</u>						
25 - 75 17 - 25						
100 - 150 20 - 29						
175 - 225 23 - 32						
250 - 300 26 - 35						
1/2" I.D.						
Hose Length Press. Range						
<u>feet</u> <u>psig</u>						
25 - 75 14 - 22						
100 - 150 16 - 26						
175 - 225 18 - 29						
250 - 300 20 - 32						
905	AO	R4053AF S4053AF R5053AF S5053AF R6053AF S6053AF	Rp, Fm, ON	2	DFMR	OV/Cl/ HCl/ClO2/ SO2
906	AO	R7053AF S7053AF R7753AF S7753AF	Rp, Fm, FF	2	DFMR	OV/Cl/ HCl/ClO2/ SO2

CHEMICAL CARTRIDGES - PESTICIDES

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
907	AO	S7553AF S7553AFC	Rp,Fm,FF	2	DFMR	OV/Cl/ HCl/ClO2/ SO2
For S7553AFC, combination Type C, CF 3/8" I.D.						
		Hose Length	Press. Range			
		<u>feet</u>	<u>psig</u>			
		25 - 75	17 - 25			
		100 - 150	20 - 29			
		175 - 225	23 - 32			
		250 - 300	26 - 35			
1/2" I.D.						
		Hose Length	Press. Range			
		<u>feet</u>	<u>psig</u>			
		25 - 75	14 - 22			
		100 - 150	16 - 26			
		175 - 225	18 - 29			
		250 - 300	20 - 32			
914	AO	R7070AF S7070AF R7770AF S7770AF	Rp,Fm,FF	2	DFMR	OV/Cl/ HCl/ClO2/ SO2
915	AO	S7570AF S7570AFC	Rp,Fm,FF	2	DFMR	OV/Cl/ HCl/ClO2/ SO2
For S7570AFC, combination Type C, CF 3/8" I.D.						
		Hose Length	Press. Range			
		<u>feet</u>	<u>psig</u>			
		25 - 75	17 - 25			
		100 - 150	20 - 29			
		175 - 225	23 - 32			
		250 - 300	26 - 35			
1/2" I.D.						
		Hose Length	Press. Range			
		<u>feet</u>	<u>psig</u>			
		25 - 75	14 - 22			
		100 - 150	16 - 26			
		175 - 225	18 - 29			
		250 - 300	20 - 32			

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.

E. Chemical Cartridges
9. 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		

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.

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	Rp,BM,ON	2		C1
916	Glendale	GR9527BM	BM,ON,Rp	2		C1

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
47	MSA	459435 461007	Rp,FM,Bm,ON	2	DM	OV/HCL/C1 CL02/SO2 CH2-O
115	Scott	64-AG 64E-AG 64M-AG 64ME-AG 64S-AG 64SE-AG	Rp,FM,ON	2		HCL/C1 CL02/SO2 CH2-O
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/C1 CL02/SO2 CH2-O
146	MSA	461850 483482	Rp,FM,FF	2	DM	OV/HCL/C1 CL02/SO2 CH2-O
153	MSA	461855 483487	Rp,FM,FF	2	HA	OV/HCL/C1 CL02/SO2 CH2-O
154	MSA	461856 483488	Rp,FM,FF	2	DFMR	OV/HCL/C1 CL02/SO2 CH2-O

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	Rp,FM,Bm,ON	2	HA	OV/HCL/C1 CL02/SO2 CH2-0
160	MSA	460848 461014	Rp,FM,Bm,ON	2	DFMR	OV/HCL/C1 CL02/SO2 CH2-0
172	Scott	64-OA 64E-OA 64M-OA 64ME-OA 64S-OA 64SE-OA	Rp,FM,ON	2		OV/HCL/C1 CL02/SO2 CH2-0
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/C1 CL02/SO2 CH2-0
218	Scott	65-AG-D 65S-AG-D 65XL-AG-D	Rp,FM,FF	2	DM	HCL/C1 CL02/SO2 CH2-0
221	Scott	65-OA 65S-OA 65XL-OA	Rp,FM,FF	2		OV/HCL/C1 CL02/SO2 CH2-0
222	Scott	65-OA-D 65S-OA-D 65XL-OA-D	Rp,FM,FF	2	DM	OV/HCL/C1 CL02/SO2 CH2-0
225	Scott	65-AG 65S-AG 65XL-AG	Rp,FM,FF	2		HCL/C1 CL02/SO2 CH2-0
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/C1 CL02/SO2 CH2-0

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
247	Scott	65-AG-F 65S-AG-F 65XL-AG-F	Rp,FM,FF	2	DFMR	HCL/C1 CL02/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/C1 CL02/SO2 CH2-O
251	Scott	65-OA-F 65S-OA-F 65XL-OA-F	Rp,FM,FF	2	DFMR	OV/HCL/C1 CL02/SO2 CH2-O
260	MSA	466903	Rp,FM,ON	2	DM	OV/HCL/C1 CL02/SO2 CH2-O
261	MSA	466902	Rp,Bm,ON	2	DM	OV/HCL/C1 CL02/SO2 CH2-O
262	MSA	483444 466904	Rp,Bm,FF	2	DM	OV/HCL/C1 CL02/SO2 CH2-O
462	MSA	472750	Rp,Bm,ON	2	DM	OV/HCL/C1 CL02/SO2 CH2-O
466	MSA	472756	Rp,Bm,ON	2	HA	OV/HCL/C1 CL02/SO2 CH2-O
467	MSA	472757	Rp,Bm,ON	2	DFMR	OV/HCL/C1 CL02/SO2 CH2-O

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
472	MSA	472764	Rp, Bm, ON	2	DM	OV/HCL/C1 CL02/SO2 CH2-O
492	Scott	70-AG	ES, MP	1		C1/HCL
514	MSA	471914 476337 476338	ES, MP	1	DM	SO2/HCL/C1
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/C1 CL02/SO2 CH2-O
518	Scott	65-AG-H 65S-AG-H 65XL-AG-H	Rp, FM, FF	2	HRA	HCL/C1 CL02/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/C1 CL02/SO2 CH2-O
522	Scott	65-OA-H 65S-OA-H 65XL-OA-H	Rp, FM, FF	2	HRA	OV/HCL/C1 CL02/SO2 CH2-O
768	Scott	66STC-AG S66STC-AG 66MTC-AG S66MTC-AG 66LTC-AG S66LTC-AG	Rp, FM, ON	2		HCL/C1 CL02/SO2 CH2-O

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
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/C1 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/C1 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/C1 CLO2/SO2 CH2-O
776	Scott	66STC-OA S66STC-OA 66MTC-OA S66MTC-OA 66LTC-OA S66LTC-OA	Rp, FM, ON	2		OV/HCL/C1 CLO2/SO2 CH2-O
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/C1 CLO2/SO2 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	DMFR	OV/HCL/C1 CLO2/SO2 CH2-O

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
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/C1 CLO2/SO2 CH2-O
833	MSA	484476	Rp,Fm,FF	2	DM	OV/HCL/C1 CLO2/SO2 CH2-O
				Comb. Type C, Pd Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				8 - 300	65 - 85	
837	MSA	484488	Rp,Fm,FF	2	DM	OV/HCL/C1 CLO2/SO2 CH2-O
				Comb. Type C, Pd Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				8 - 300	65 - 85	
839	MSA	484481	Rp,Fm,FF	2	HA	OV/HCL/C1 CLO2/SO2 CH2-O
				Comb. Type C, Pd Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				8 - 300	65 - 85	
844	MSA	483993	Rp,Fm,FF	2	DM	OV/HCL/C1 CLO2/SO2 CH2-O
				Comb. Type C, CF Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				8 - 300	35 - 40	
852	MSA	484005	Rp,Fm,FF	2	DM	OV/HCL/C1 CLO2/SO2 CH2-O
				Comb. Type C, CF Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				8 - 300	35 - 40	

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
853	MSA	483999	Rp, Fm, FF	2	DFMR	OV/HCL/Cl CL02/SO2 CH2-0
				Comb. Type C, CF	Hose Length	Press. Range
				<u>feet</u>	<u>psig</u>	
				8 - 300	35 - 40	
854	MSA	483998	Rp, Fm, FF	2	HA	OV/HCL/Cl CL02/SO2 CH2-0
				Comb. Type C, CF	Hose Length	Press. Range
				<u>feet</u>	<u>psig</u>	
				8 - 300	35 - 40	

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
47	MSA	459435 461007	Rp, Fm, Bm, ON	2	DM	OV/HCL/C1 CH2-O/SO2 H2S
115	Scott	64-AG 64E-AG 64M-AG 64ME-AG 64S-AG 64SE-AG	Rp, Fm, ON	2		HCL/C1 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/C1 CH2-O/SO2
146	MSA	461850 483482	Rp, Fm, FF	2	DM	OV/HCL/C1 CH2-O/SO2 H2S
153	MSA	461855 483487	Rp, Fm, FF	2	HA	OV/HCL/C1 CH2-O/SO2 H2S
154	MSA	461856 483488	Rp, Fm, FF	2	DFMR	OV/HCL/C1 CH2-O/SO2 H2S
159	MSA	460847 461013	Rp, Fm, FF, ON	2	HA	OV/HCL/C1 CH2-O/SO2 H2S
160	MSA	460848 461014	Rp, Fm, FF, ON	2	DFMR	OV/HCL/C1 CH2-O/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
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
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	Rp, Fm, FF	2	DM	HCL/Cl CH2-O/SO2 H2S
221	Scott	6470-0015* 6480-0015* 65-OA 65S-OA 65XL-OA	Rp, Fm, FF	2		HCL/Cl OV/SO2 H2S/CH2-O
222	Scott	65-OA-D 65S-OA-D 65XL-OA-D	Rp, Fm, FF	2	DM	HCL/Cl OV/SO2 H2S/CH2-O
225	Scott	65-AG 65S-AG 65XL-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	Rp, Fm, FF	2	DFMR	HCL/Cl SO2/CH2-O 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
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	Rp, Fm, ON	2	DFMR	HCL/Cl SO2/CH2-O H2S/OV
260	MSA	466903	Rp, Fm, ON	2	DM	OV/HCL/Cl CH2-O/SO2 H2S
261	MSA	466902	Rp, Fm, ON	2	DM	OV/HCL/Cl CH2-O/SO2 H2S
262	MSA	466904 483444	Rp, Fm, FF	2	DM	OV/HCL/Cl CH2-O/SO2 H2S
343	AO	R4053A S4053A R5053A S5053A R6053A S6053A R5553A S5553A R6553A S6553A	Rp, Fm, ON	2		OV/SO2/HCl Cl
344	AO	R7053A S7053A R7753A S7753A	Rp, Bm, FF	2		OV/SO2/HCl Cl

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
345	AO	R4053AD S4053AD R5053AD S5053AD R6053AD S6053AD R5553AD S5553AD R6553AD S6553AD	Rp, Fm, ON	2	DM	OV/SO2/HCl C1
346	AO	R7053AD S7053AD R7753AD S7753AD	Rp, Fm, FF	2	DM	OV/SO2/HCl C1
417	AO	R4053HE S4054HE R5053HE S5053HE R6053HE S6053HE R5553HE S5553HE R6553HE S6553HE	Rp, Fm, ON	2	HRA	OV/SO2/HCl C1
418	AO	R7053HE S7053HE R7753HE S7753HE	Rp, Fm, FF	2	HRA	OV/SO2/HCl C1
462	MSA	472750	Rp, Bm, ON	2	DM	OV/HCL/C1 CH2-O/SO2 H2S
466	MSA	472756	Rp, Bm, ON	2	HA	OV/HCL/C1 CH2-O/SO2 H2S
467	MSA	472757	Rp, Bm, ON	2	DFMR	OV/HCL/C1 CH2-O/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
472	MSA	472764	Rp, Bm, ON	2	DM	OV/HCL/Cl CH2-O/SO2 H2S
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
518	Scott	65-AG-H 65S-AG-H 65XL-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
522	Scott	65-OA-H 65S-OA-H 65XL-OA-H	Rp, FM, FF	2	HRA	OV/SO2/HCl Cl/H2S CH2-O
587	AO	R4563A S4563A R5563A S5563A R6563A S6563A R55563A S55563A R65563A S65563A	Rp, FM, ON	2	DFM	OV/SO2/HCl Cl/Pest
588	AO	R7563A S7563A R77563A S77563A	Rp, FM, FF	2	DFM	OV/SO2/HCl Cl/Pest

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
679	AO	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 CH2-O

CHEMICAL CARTRIDGES - OTHER GASES AND VAPORS - CHLORINE DIOXIDE

Approval Number	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 CH2-O
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 CH2-O
794	AO	S7553HE S7553HEC	FF,Rp,Fm	2	HRA For S7553HEC Comb. Type C, CF Hose Length Press. Range <u>feet</u> <u>psig</u> 25 - 300 14 - 37 For 1/2" Hose Hose Length Press. Range <u>feet</u> <u>psig</u> 25 - 75 14 - 22 100 - 150 16 - 26 175 - 225 18 - 29 250 - 300 20 - 32	SO2/HCl/Cl OV/Pest
799	AO	S7553A S7553AC	FF,Rp,Fm	2	For S7553AC Comb. Type C, CF Hose Length Press. Range <u>feet</u> <u>psig</u> 25 - 300 14 - 37	OV/SO2/HCl Cl/ClO2

CHEMICAL CARTRIDGES - OTHER GASES AND VAPORS - CHLORINE DIOXIDE

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
799 Cont.						
				For 1/2" Hose		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 75	14 - 22	
				100 - 150	16 - 26	
				175 - 225	18 - 29	
				250 - 300	20 - 32	
805	AO	S7570A S7570AC	FF,Rp,Fm	2		OV/SO2/HCl
				For S7570AC		C1/CLO2
				Comb. Type C, CF		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 300	14 - 37	
				For 1/2" Hose		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 75	14 - 22	
				100 - 150	16 - 26	
				175 - 225	18 - 29	
				250 - 300	20 - 32	
809	AO	S7553AD S7553ADC	FF,Rp,Fm	2	DM	OV/SO2/HCl
				For S7553ADC		C1/CLO2
				Comb. Type C, CF		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 300	14 - 37	
				For 1/2" Hose		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 75	14 - 22	
				100 - 150	16 - 26	
				175 - 225	18 - 29	
				250 - 300	20 - 32	
812	AO	S75563A S75563AC	FF,Rp,Fm	2	DFM	OV/HCl/C1
				For S75563AC		CLO2
				Comb. Type C, CF		
				Hose Length	Press. Range	
				<u>feet</u>	<u>psig</u>	
				25 - 300	14 - 37	

CHEMICAL CARTRIDGES - OTHER GASES AND VAPORS - CHLORINE DIOXIDE

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
812 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	
833	MSA	484476	FF,Rp,Fm	2	DM	OV/HCl/Cl CH2-O/SO2 H2S
				Comb. Type C, Pd		
				Hose Length feet	Press. Range psig	
				8 - 300	65 - 85	
837	MSA	484488	FF,Rp,Fm	2	DM	OV/HCl/Cl CH2-O/SO2 H2S
				Comb. Type C, Pd		
				Hose Length feet	Press. Range psig	
				8 - 300	65 - 85	
839	MSA	484481	FF,Rp,Fm	2	HA	OV/HCl/Cl CH2-O/SO2 H2S
				Comb. Type C, Pd		
				Hose Length feet	Press. Range psig	
				8 - 300	65 - 85	
844	MSA	483993	FF,Rp,Fm	2	DM	OV/HCl/Cl CH2-O/SO2 H2S
				Comb. Type C, CF		
				Hose Length feet	Press. Range psig	
				8 - 300	35 - 40	
852	MSA	484005	FF,Rp,Fm	2	DM	OV/HCl/Cl CH2-O/SO2 H2S
				Comb. Type C, CF		
				Hose Length feet	Press. Range psig	
				8 - 300	35 - 40	

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
853	MSA	483999	FF, Rp, Fm	2	DFMR	OV/HCl/C1 CH2-O/SO2 H2S
				Comb. Type C, CF Hose Length <u>feet</u> 8 - 300	Press. Range <u>psig</u> 35 - 40	
854	MSA	483998	FF, Rp, Fm	2	HA	OV/HCl/C1 CH2-O/SO2 H2S
				Comb. Type C, CF Hose Length <u>feet</u> 8 - 300	Press. Range <u>psig</u> 35 - 40	
905	AO	R4053AF S4053AF R5052AF S5052AF R6053AF S6053AF	Rp, Fm, ON	2	DFMR	OV/HCl/C1 SO2/Pest
906	AO	R7053AF S7053AF R7753AF S7753AF	Rp, Fm, FF	2	DFMR	OV/HCl/C1 SO2/Pest
907	AO	R7553AF S7553AFC	Rp, Fm, FF	2	DFMR	OV/HCl/C1 SO2/Pest
				For S7553AFC, combination Type C, CF 3/8" I.D.		
				Hose Length <u>feet</u>	Press. Range <u>psig</u>	
				25 - 75	17 - 25	
				100 - 150	20 - 29	
				175 - 225	23 - 32	
				250 - 300	26 - 35	
				1/2" I.D.		
				Hose Length <u>feet</u>	Press. Range <u>psig</u>	
				25 - 75	14 - 22	
				100 - 150	16 - 26	
				175 - 225	18 - 29	
				250 - 300	20 - 32	

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
914	AO	R7070AF S7070AF R7770AF S7770AF	Rp,Fm,FF	2	DFMR	OV/HCl/Cl SO2/Pest
915	AO	S7570AF S7570AFC	Rp,Fm,FF	2	DFMR	OV/HCl/Cl SO2/Pest
For S7570AFC, combination Type C, CF						
3/8" I.D.						
Hose Length Press. Range						
<u>feet</u> <u>psig</u>						
25 - 75 17 - 25						
100 - 150 20 - 29						
175 - 225 23 - 32						
250 - 300 26 - 35						
1/2" I.D.						
Hose Length Press. Range						
<u>feet</u> <u>psig</u>						
25 - 75 14 - 22						
100 - 150 16 - 26						
175 - 225 18 - 29						
250 - 300 20 - 32						

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
41	MSA	459434 461006	Rp, Fm, Bm, ON	2	DM	SO2/Cl/HCl
47	MSA	459435 461007	Rp, Fm, Bm, ON	2	DM	OV/SO2/HCl Cl/H2S ClO2
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* 75BP03M 75BP03L	Rp, Bm, ON	2		OV/SO2/Cl HCl
105	North	75BP13M 75BP03L	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
116	Scott	6411-0101* 6413-0101* 6421-0101* 6423-0101* 6412-0101* 6422-0101*	Rp, Fm, ON	2	DM	SO2/HCl/Cl H2S/ClO2

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
116 Cont.		64-AG-D 64E-AG-D 64M-AG-D 64ME-AG-D 64S-AG-D 64SE-AG-D				
145	MSA	461849 483481	Rp, Fm, FF	2	DM	SO2/HCl/Cl
146	MSA	461850 483482	Rp, Fm, FF	2	DM	OV/SO2/HCl Cl/H2S ClO2
150	MSA	461854 483486	Rp, Fm, FF	2	HA	SO2/HCl/Cl
153	MSA	461855 483487	Rp, Fm, FF	2	HA	OV/SO2/HCl Cl/H2S ClO2
154	MSA	461856 484888	Rp, Fm, FF	2	DFMR	OV/SO2/HCl Cl/H2S ClO2
156	MSA	461835 462239	Rp, Fm, Bm, ON	2	HA	SO2/HCl/Cl
159	MSA	460847 461013	Rp, Fm, Bm, ON	2	HA	OV/SO2/HCl Cl/H2S ClO2
160	MSA	460848 461014	Rp, Fm, Bm, ON	2	DFMR	OV/SO2/HCl Cl/H2S ClO2

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
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/SO2/HCl Cl/H2S ClO2
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

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
207	North	7582S 7582M 7582L 7782S 7782M 7782L	Rp, ON, Fm	2	HRA	HC1/C1/SO2
208	North	75BP82M 75BP82L	Rp, Bm, ON	2	HRA	HC1/C1/SO2
209	North	7682 7682S*	Rp, Fm, FF	2	HRA	HC1/C1/SO2
210	North	7583S, M, L 7783S, M, L	Rp, Bm, ON	2	HRA	OV/SO2/C1 HC1
211	North	75BP83M 75BP83L	Rp, Bm, ON	2	HRA	OV/SO2/C1 HC1
212	North	7683	Rp, Bm, ON	2	HRA	OV/SO2/C1 HC1
218	Scott	6470-0101* 6480-0101* 65-AG-D 65S-AG-D 65XL-AG-D	Rp, Fm, FF	2	DM	SO2/HC1/C1 H2S/CLO2
221	Scott	6470-0015* 6480-0015* 65-OA 65S-OA 65XL-OA	Rp, Fm, FF	2		OV/SO2/HC1 C1/H2S CLO2
222	Scott	6470-0115* 6480-0115* 65-OA-D 65S-OA-D 65XL-OA-D	Rp, Fm, FF	2	DM	OV/SO2/HC1 C1/H2S CLO2

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
225	Scott	6470-0001 6480-0001 65-AG 65S-AG 65XL-AG	Rp,Fm, FF	2		SO2/HCl/Cl H2S/ClO2
226	North	7502* 7502S 7702S 7502M 7702L 7502L 7702M	Rp,Fm, ON	2		SO2/HCl/Cl
227	North	75BP02* 75BP02M 75BP02L	Rp,Bm, ON	2		SO2/HCl/Cl
228	North	7602 7602S* 7602N* 7602SN*	Rp,Fm, FF	2		SO2/HCl/Cl
229	North	7512* 7512S 7512M 7512L 7712S 7712M 7712L	Rp,Fm, ON	2	DM	SO2/HCl/Cl
230	North	75BP12* 75BP12M 75BP12L	Rp,Bm, ON	2	DM	SO2/HCl/Cl
231	North	7612 7612S* 7612N* 7612SN*	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

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
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
247	Scott	6470-0301* 6480-0301* 65-AG-F 65S-AG-F 65XL-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	6470-0315* 6480-0315* 65-OA-F 65S-OA-F 65XL-OA-F	Rp, Fm, FF	2	DFMR	OV/SO2/HCl Cl/H2S CLO2
260	MSA	466903	Rp, Fm, ON	2	DM	OV/SO2/HCl Cl/H2S CLO2

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
261	MSA	466902	Rp,Bm, ON	2	DM	OV/SO2/HCl Cl/H2S ClO2
262	MSA	466904 483494	Rp,Fm, FF	2	DM	SO2/HCl OV/Cl H2S/ClO2
318	Survivair	2203-00 2103-00 2303-00	Rp, FM, ON	2		OV/SO2/HCl Cl
352	North	10003S 10003M	Su,ON	1		OV/SO2/Cl HCl
353	North	10002S 10002M	Su,ON	1		SO2/Cl/HCl
356	North	10012S 10012M	Su,ON	1	DM	SO2/Cl/HCl
357	North	10013S 10013M	Su,ON	1	DM	OV/SO2/Cl HCl
372	3M	8754	Su, ON	1		
397	North	7505S* 7505M* 7505L*	Rp,Fm, ON	2		
398	North	7515S* 7515M* 7515L*	Rp,Fm, ON	2	DM	
399	North	75BP05M* 75BP05L*	Rp,Fm, ON	2		
400	North	75BP15M* 75BP15L*	Rp,Fm, ON	2	DM	

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
401	North	7605* 7605S*	Rp,Fm, FF	2		
402	North	7615* 7615S*	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
433	Survivair	2113-00 2213-00 2313-00	Rp,Fm, ON	2	DM	OV/SO2/HCl Cl
434	Survivair	3213-00 4213-00	Rp,Fm, ON	2	DM	OV/SO2/HCl Cl
454	Survivair	3203-00 4203-00	Rp,Fm, FF	2		OV/SO2/HCl Cl
461	MSA	472749	Rp,Bm, ON	2	DM	SO2/HCl/Cl
462	MSA	472750	Rp,Bm, ON	2	DM	OV/SO2/HCl Cl/H2S ClO2
466	MSA	472756	Rp,Bm, ON	2	HA	OV/SO2/HCl Cl/H2S ClO2
467	MSA	472757	Rp,Bm, ON	2	DFMR	OV/SO2/HCl Cl/H2S ClO2

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
470	MSA	472760	Rp,Bm, ON	2	HA	SO2/HCl/Cl
472	MSA	472764	Rp,Bm, ON	2	DM	OV/SO2/HCl Cl/H2S ClO2
475	3M	7216	Rp,Fm, ON	2		
486	3M	8775	SU, ON	1	DM	
503	3M	7217	Rp, FM, ON	2	DM	
505	AO	R4060A S4060A R5060A S5060A R6060A S6060A R5560A S5560A R6560A S6560A	Rp,FM, ON	2		
506	AO	R7060A S7060A R7760A S7760A	Rp,FM, FF	1		
507	AO	R4060AD S4060AD R5060AD S5060AD R6060AD S6060AD R5560AD S5560AD R6560AD S6560AD	Rp,FM, ON	2	DM	
508	AO	R7060AD S7060AD R7760AD S7760AD	Rp,FM, FF	2	DM	

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
511	MSA	469728	Rp,FM, ON	1	DM	OV/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
518	Scott	65-AG-H 65S-AG-H 65XL-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
522	Scott	65-OA-H 65S-OA-H 65XL-OA-H	Rp,FM, FF	2	HRA	OV/SO2/HCl Cl/H2S ClO2
532	Survivair	2143-00 2243-00 2343-00	Rp,FM, ON	2	DFMR	OV/SO2/HCl Cl
533	Survivair	3243-00 4243-00	Rp,FM, FF	2	DFMR	OV/SO2/HCl Cl
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

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
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
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
652	North	7592S, M, L 7792S, M, L	Rp, Fm, ON	2	DFM	SO2/HCl Cl
653	North	75BP92M 75BP92L	Rp, BM, ON	2	DFM	SO2/HCl/Cl

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
654	North	7692 7692S*	Rp,Fm, FF	2	DFM	SO2/HCl Cl
655	North	7593S,M,L 7793S,M,L	Rp,Bm,ON	2	DFM	OV/SO2/Cl HCl
656	North	75BP93M 75BP93L	Rp,Bm,ON	2	DFM	OV/SO2/Cl HCl
657	North	7693 7693S*	Rp,Bm,ON	2	DFM	OV/SO2/Cl HCl

697	3M	7816	Rp, Fm, FF	2
		7816C		
		7816-H	(For 7816C Combination Type C, CF)	
		7816C-L	Air pressure	Hose length
			<u>(psig)</u>	<u>(feet)</u>
			15 - 40	25 - 50
			17 - 45	75 - 100
			22 - 55	125 - 200
			25 - 70	225 - 300

Hose Length (feet)	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

698	3M	7817	Rp, Fm, FF	2	DM
		7817C			
		7817-H	(For 7817C Combination Type C, CF)		
		7817C-L	Air pressure	Hose length	
			<u>(psig)</u>	<u>(feet)</u>	
			15 - 40	25 - 50	
			17 - 45	75 - 100	
			22 - 55	125 - 200	
			25 - 70	225 - 300	

Hose Length (feet)	Press. Range psig	
	7817-H	7817-L
25	8-15	7-11
50	10-19	7-11

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
698 Cont.				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
700	Willson	1626, 1726	FF, Rp, Fm	2		SO2/Cl/HCl
701	Willson	1526, 1526R 1526SS	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, 3526R 3526SS	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 152610R 152610SS	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

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
710	Willson	352610 352610R 352610SS	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 152617R 152617SS	FF, Rp, Fm	2	DFM	SO2/Cl/HCl
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 352617R 352617SS	ON, Rp, Bm	2	DFM	SO2/Cl/HCl
741	Willson	6106S 6106M 6106L	ON, Rp, Fm	2		SO2/Cl/HCl
742	Willson	6206S 6206M 6206L	ON, Rp, Fm	1		SO2/Cl/HCl
746	Willson	6406 S6406 6506 S6506	FF, Rp, Fm	2		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
749	Willson	6516 S6516 6416 S6416	FF, Rp, Fm	2	DM	SO2/Cl/HCl
754	Willson	6116S 6116M 6116L	ON, Rp, Fm	2	DM	SO2/Cl/HCl
757	Willson	6216S 6216M 6216L	ON, Rp, Fm	1	DM	SO2/Cl/HCl
765	Willson	6146S 6146M 6146L	Rp, Fm, ON	2	HA	SO2/Cl/HCl
766	Willson	6546 S6546 6446 S6446	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
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

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
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	HC1/Cl SO2/H2S CLO2
776	Scott	66STC-OA S66STC-OA 66MTC-OA S66MTC-OA 66LTC-OA S66LTC-OA	Fm,Rp,ON	2		HC1/Cl/OV 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	HC1/Cl/OV SO2/H2S 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	HC1/Cl/OV SO2/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	HC1/Cl/OV SO2/H2S CLO2
789	Willson	6126S 6126M 6126L	Rp,Fm,ON	2	DFMR	SO2/Cl/HC1

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
790	Willson	6426 S6426 6526 S6526	Rp, Fm, FF	2	DFMR	SO2/Cl/HCl
804	AO	S7560A S7560AC	FF, Rp, Fm	2 For S7560AC Comb. Type C, CF Hose Length <u>feet</u> 25 - 300	Press. Range <u>psig</u> 14 - 37 For 1/2" Hose Hose Length <u>feet</u> 25 - 75 100 - 150 175 - 225 250 - 300	
811	AO	S7560AD S7560ADC	FF, Rp, Fm	2 DM For S7560ADC Comb. Type C, CF Hose Length <u>feet</u> 25 - 300	Press. Range <u>psig</u> 14 - 37 For 1/2" Hose Hose Length <u>feet</u> 25 - 75 100 - 150 175 - 225 250 - 300	
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

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
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 6226M 6226L	Rp, Fm, ON	1	DFM	SO2/Cl/HCl
832	MSA	484475	FF, Rp, Fm	2 Comb. Type C, Pd Hose Length <u>feet</u> 8 - 300	DM Press. Range <u>psig</u> 65 - 85	SO2/Cl/HCl
833	MSA	484476	FF, Rp, Fm	2 Comb. Type C, Pd Hose Length <u>feet</u> 8 - 300	DM Press. Range <u>psig</u> 65 - 85	OV/SO2/HCl Cl/H2S ClO2
836	MSA	484480	FF, Rp, Fm	2 Comb. Type C, Pd Hose Length <u>feet</u> 8 - 300	HA Press. Range <u>psig</u> 65 - 85	SO2/Cl/HCl
837	MSA	484488	FF, Rp, Fm	2 Comb. Type C, Pd Hose Length <u>feet</u> 8 - 300	DM Press. Range <u>psig</u> 65 - 85	OV/SO2/HCl Cl/H2S ClO2
839	MSA	484481	Rp, Fm, FF	2 Comb. Type C, Pd Hose Length <u>feet</u> 8 - 300	HA Press. Range <u>psig</u> 65 - 85	OV/SO2/HCl Cl/H2S/ClO2

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
843	MSA	483992	Rp,Fm,FF	2	DM	Cl/HCl SO2
				Comb. Type C, CF Hose Length (feet) 8-300	Press. Range psig 35 - 40	
844	MSA	483993	Rp,Fm,FF	2	DM	OV/Cl/HCl SO2/H2S ClO2
				Comb. Type C, CF Hose Length (feet) 8-300	Pressure psig 35 - 40	
851	MSA	483997	Rp,Fm,FF	2	HA	Cl/HCl SO2
				Comb. Type C, CF Hose Length (feet) 8-300	Pressure psig 35 - 40	
852	MSA	484005	Rp,Fm,FF	2	DM	OV/Cl/HCl SO2/H2S ClO2
				Comb. Type C, CF Hose Length (feet) 8-300	Pressure psig 35 - 40	
853	MSA	483999	Rp,Fm,FF	2	DFMR	OV/Cl/HCl SO2/H2S ClO2
				Comb. Type C, CF Hose Length (feet) 8-300	Pressure psig 35 - 40	
854	MSA	483998	Rp,Fm,FF	2	HRA	OV/Cl/HCl SO2/H2S ClO2
				Comb. Type C, CF Hose Length (feet) 8-300	Pressure psig 35 - 40	

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
864	3M	5105 5205 5305	ON,Su	2		
867	3M	5115 5215 5315	ON,Su	2	DM	
890	3M	7816-H 7816-L	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
891	3M	7817-H 7817-L	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
894	Racal	BE10/E	HH,PAPR	3	HRA	SO2/Cl/HCl
896	Racal	BE10/EP3	HH,PAPR	3	HRA	SO2/Cl/HCl
911	AO	R4060AF S4060AF R5060AF S5060AF R6060AF S6060AF	Rp,Fm,ON	2	DFMR	
912	AO	R7060AF S7060AF R7760AF S7760AF	Rp,Fm,FF	2	DFMR	

CHEMICAL CARTRIDGES - OTHER GASES AND VAPORS - FORMALDEHYDE

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
TC-23C-						
913	AO	R7560AF S7560AFC	Rp,Fm,FF	2	DFMR	
For S7560AFC, combination Type C, CF 3/8" I.D.						
			Hose Length	Press. Range		
			<u>feet</u>	<u>psig</u>		
			25 - 75	17 - 25		
			100 - 150	20 - 29		
			175 - 225	23 - 32		
			250 - 300	26 - 35		
1/2" I.D.						
			Hose Length	Press. Range		
			<u>feet</u>	<u>psig</u>		
			25 - 75	14 - 22		
			100 - 150	16 - 26		
			175 - 225	18 - 29		
			250 - 300	20 - 32		

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		C1

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 approval label and instructions and maintenance 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* 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
186	MSA	463353 467963 463354 463355 466607 466608 467964 487867 487868	PAPR, FF	2	A
212	Racal	AH3 AH3-1 AH3B AH3B-1 AH17 AH17-1	PAPR, HH	2	A, R

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
237	Racal	AC3	PAPR, HH	2	A, R
246	3M	W-344	PAPR, HH	1	A
263	Neoterik	AB4 HH4 VH4 VB4 SB4 SH4	PAPR, HH	1	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
275	Racal	BE 1/P3	PAPR, HH	3	A, R
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
285	Neoterik	AB8 HH8 VB8 VH8 SB8 SH8	PAPR, HH	1	A, R

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
321	Racal	BE17/P3	PAPR, HH	3	A, R
324	Racal	BE8/P3	PAPR, ON	3	A, R
327	Neoterik	NP1562-1	PAPR, ON	3	A, R
329	Racal	BE4/P3	PAPR, HH	3	A, R
330	Neoterik	NP1664-1 NP1564-2 NP1964-1	PAPR, FF	3	A, R
353	Racal	PF/PP/7SP3	FF, PAPR	1	A, R
402	Neoterik	NP1801 NP1801-1 NP1801-2 NP1801-3 NP1801-4	PAPR,HH		A,R
403	Neoterik	NP1801-6	PAPR,ON	1	A,R
404	Neoterik	NP1801-5 NP1800	PAPR,FF	1	A,R
405	Neoterik	NP1900	PAPR,FF	3	A,R
407	Neoterik	NP1880-PD NP1880-1-PD NP1880-2-PD NP1880-3-PD NP1880-4PD NP1880-5PD NP1880-6PD	Rp,Fm,FF <u>Valve</u> 1840 1841 1842	2 Comb. Hose Length <u>feet</u> 50 - 300 50 - 300 50 - 300	R,A Type C, Pd Press Range <u>psig</u> 10 - 26 30 - 47 44 - 64

POWERED AIR PURIFYING PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
TC-21C-					
407 Cont.			For 1/2" Hose and NP1840 Adaptor Only:		
			Hose Length	Press. Range	
			<u>feet</u>	<u>psig</u>	
			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	A,R
			Comb. Type C, Pd		
			Air Press.	Hose Length	
			<u>Valve</u>	<u>psig</u>	<u>feet</u>
			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
			Comb. Type C, Pd		
			Hose Length	Air Pressure	
			<u>Feet</u>	<u>psig</u>	
				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 Adapter Only		
			Hose Length	Air Pressure	
			<u>Feet</u>	<u>psig</u>	
			50	7-11	
			100	8-13	
			150	9-15	
			200	10-16	
			250	11-17	
			300	12-18	

POWERED AIR PURIFYING PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
448	Neoterik	NP2000-1 NP2000-2 NP2000-3 NP2000-4	PAPR,FF	2	R,A
			Comb. Type C, CF Air Press. Hose Length <u>Adapter</u> <u>psig</u> <u>feet</u> NP1840 13-16 25-100 NP1841 50-60 25-300 For 1/2" Hose and NP1840 Adapter Only Hose Length Air Pressure <u>Feet</u> <u>psig</u> 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 Air Press. Hose Length <u>Adapter</u> <u>psig</u> <u>feet</u> NP1840 12-16 25-100 NP1841 40-60 25-300 For 1/2" Hose and NP1840 Adapter Only Hose Length Air Pressure <u>Feet</u> <u>psig</u> 50 - 150 9-11		
450	Neoterik	NP1800-6 NP1800-13	PAPR,ON	1	R,A
			Comb. Type C, CF Air Press. Hose Length <u>Adapter</u> <u>psig</u> <u>feet</u> 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 Air Pressure <u>Hose Length</u> <u>psig</u> <u>Feet</u> 50 1840 1841 10-16 40-50		

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
451 Cont.			100 150 200 250 300	14-20 15-22 18-24 19-26 20-26	42-52 44-54 45-55 47-57 48-58
			For 1/2" Hose and NP1840 Adapter Only		
			Hose Length	Air Pressure	
			<u>Feet</u>	<u>psig</u>	
			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	FF,PAPR	1	A
453	Willson	6383S 6383M 6383L	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	1	R,A
			Type C, CF		
			Adapter	Air Press. <u>psig</u>	Hose Length <u>feet</u>
			1840	25-100	13-16
			1841	25-300	50-60

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
TC-21C-					
461 Cont.			For 1/2" Hose		
				Air Press.	Hose Length
			<u>Adapter</u>	<u>psig</u>	<u>feet</u>
			NP1840-FB	25-100	9-11
			NP1840-VB	25-300	31-36
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	2	A
			NOT APPROVED FOR RADIONUCLIDES		
470	MSA	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 486420 486455 thru 486457	ON,Rp,PAPR	2	A
471	MSA		ON,Rp,PAPR	2	A
		486428 thru 486430 486434 thru 486436 486440 thru 486442 486446 thru 486448 486452 thru 486454 486458 thru 486460 486392 thru 486394 486398 thru 486400			

POWERED AIR PURIFYING PARTICULATE RESPIRATORS - HIGH EFFICIENCY

Approval Number	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Filters	Other Approvals
TC-21C-					
471 Cont.		486404 thru 486406 486410 thru 486412 486416 thru 486418 486422 thru 486424			
			NOT APPROVED FOR RADIONUCLIDES		
472	MSA	486461 486463 486465 486467	HH,PAPR	2	A
473	MSA	486462 486464 486466 486468	HH,PAPR	2	A
			NOT APPROVED FOR RADIONUCLIDES		
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 Comb. Type C, PD	FF,PAPR	1	R,A
For 3/8" Hose			For 1/2" Hose		
Pressure Range (psig)			Pressure Range (psig)		
Hose Length	1840	1841	Hose Length	1840	1841
feet	Adapter	Adapter	feet	Adapter	Adapter
50	10-16	40-46	50	7-11	28-36
100	14-20	42-48	100	8-13	28-37
150	15-22	44-50	150	9-15	29-38
200	18-24	45-51	200	10-16	30-38
250	19-26	47-53	250	11-17	31-39
300	20-26	48-54	300	12-18	32-40
483	3M	W421	HH,PAPR	1	A
484	Bullard	QHP	HH,PAPR	2	R,A

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 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	HH, PAPR	3		MA
898	Racal	BE10/KP3	HH, PAPR	3	HRA	MA

POWERED AIR PURIFYING CHEMICAL CARTRIDGES - METHYL AMINE

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		HC1
480	Racal	BE 5/B	PAPR, HH	3		HC1
481	Racal	BE 6/B	PAPR, HH	3		HC1
534	Racal	BE3/BC BE7/BC	PAPR, FF	3		HC1
593	Racal	BE 1/E	PAPR, HH	3		SO2/HC1/ CH2-0
594	Racal	BE 3/EC BE 7/EC	PAPR, FF	3		SO2/HC1/ CH2-0
595	Racal	BE 5/E	PAPR, HH	3		SO2/HC1/ CH2-0
596	Racal	BE 6/E	PAPR, HH	3		SO2/HC1/ CH2-0
597	Racal	BE 1/EP3	PAPR, HH	3	HRA	SO2/HC1/ CH2-0
598	Racal	BE 3/EP3 BE 7/EP3	PAPR, FF	3	HRA	SO2/HC1/ CH2-0
599	Racal	BE 5/EP3	PAPR, HH	3	HRA	SO2/HC1/ CH2-0
600	Racal	BE6/EP3	PAPR, HH	3	HRA	SO2/HC1/ CH2-0
603	Racal	BE17/P3	PAPR, HH	3	HRA	SO2/HC1/ CH2-0
605	Racal	BE1/AE	PAPR, HH	3		OV/SO2/HC1

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
606	Racal	BE3/AE BE7/AE	PAPR, FF	3		OV/SO2/HCl
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

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
647	Racal	BE3/AEP3 BE7/AEP3	PAPR, FF	3	HRA	OV/SO2/HCl
648	Racal	BE8/AEP3	PAPR, ON	3	HRA	OV/SO2/HCl
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/ CH2-0
594	Racal	BE 3/EC BE 7/EC	PAPR, FF	3		SO2/Cl/ CH2-0
595	Racal	BE 5/E	PAPR, HH	3		SO2/Cl/ CH2-0
596	Racal	BE 6/E	PAPR, HH	3		SO2/Cl/ CH2-0
597	Racal	BE 1/EP3	PAPR, HH	3	HRA	SO2/Cl/ CH2-0
598	Racal	BE 3/EP3 BE 7/EP3	PAPR, FF	3	HRA	SO2/Cl/ CH2-0
599	Racal	BE 5/EP3	PAPR, HH	3	HRA	SO2/Cl/ CH2-0
600	Racal	BE6/EP3	PAPR, HH	3	HRA	SO2/Cl/ CH2-0
603	Racal	BE17/P3	PAPR, HH	3	HRA	SO2/Cl/ CH2-0

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
605	Racal	BE1/AE	PAPR, HH	3		OV/SO2/Cl
606	Racal	BE3/AE BE7/AE	PAPR, FF	3		OV/SO2/Cl
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

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
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
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		HC1/Cl/ CH2-O
594	Racal	BE 3/EC BE 7/EC	PAPR, FF	3		HC1/Cl/ CH2-O
595	Racal	BE 5/E	PAPR, HH	3		HC1/Cl/ CH2-O
596	Racal	BE 6/E	PAPR, HH	3		HC1/Cl/ CH2-O
597	Racal	BE 1/EP3	PAPR, HH	3	HRA	HC1/Cl/ CH2-O
598	Racal	BE 3/EP3 BE 7/EP3	PAPR, FF	3	HRA	HC1/Cl/ CH2-O
599	Racal	BE 5/EP3	PAPR, HH	3	HRA	HC1/Cl/ CH2-O
600	Racal	BE6/EP3	PAPR, HH	3	HRA	HC1/Cl/ CH2-O
603	Racal	BE17/EP3	PAPR, HH	3	HRA	HC1/Cl/ CH2-O
605	Racal	BE1/AE	PAPR, HH	3		OV/HC1/Cl
606	Racal	BE3/AE BE7/AE	PAPR, FF	3		OV/HC1/Cl
607	Racal	BE5/AE	PAPR, HH	3		OV/HC1/Cl
608	Racal	BE6/AE	PAPR, HH	3		OV/HC1/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
613	Racal	BE8/E	PAPR, ON	3		HC1/C1/ CH2-O
614	Racal	BE8/EP3	PAPR, ON	3	HRA	HC1/C1/ CH2-O
615	Racal	BE8/AE	PAPR, ON	3		OV/HC1/C1
626	Neoterik	NP1562-7	PAPR, ON	3		OV/HC1/C1
627	Neoterik	NP1562-6	PAPR, ON	3		HC1/C1
634	Racal	BE4/E	PAPR, HH	3		HC1/C1
635	Racal	BE4/EP3	PAPR, HH	3	HRA	HC1/C1
636	Racal	BE4/AE	PAPR, HH	3		OV/HC1/C1
638	Neoterik	NP1664-7 NP1564-7 NP1964-7	PAPR, FF	3		OV/HC1/C1
640	Neoterik	NP1664-6 NP1564-6 NP1964-6	PAPR, FF	3		HC1/C1
647	Racal	BE3/AEP3 BE7/AEP3	PAPR, FF	3	HRA	OV/HC1/C1
648	Racal	BE8/AEP3	PAPR, ON	3	HRA	OV/HC1/C1
894	Racal	BE10/E	HH, PAPR	3		C1/HC1/ CH2-O
896	Racal	BE10/EP3	HH, PAPR	3	HRA	C1/HC1/ 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
897	Racal	BE10/AE	HH, PAPR	3		OV/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
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

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
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	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

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	PAPR, HH	3	D,Z	
767	Kasco	K80S-T5N BP 3-2 K80E-T5N/BP3	PAPR, HH	3		
893	Racal	BE10/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)

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

American Optical Corp.
Safety Products Div.
14 Mechanic Street
Southbridge, MA 01550

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.
Pistol Shop Road
Rockfall, CT 06481

Bowen Tools, Inc.
P.O. Box 3186
Houston, TX 77001

Bullard, E. D., Co.
3320 White Oak Pike
Cynthiana, KY 41031-0187

CSE Corporation
600 Seco Road
Monroeville, PA 15146

Canadian Technical Tape
455 Cote Vertu Rd.
Montreal H4N 1EB, CANADA

Cesco Safety Products
Parmelee Industries, Inc.
P.O. Box 1237
Kansas City, MO 64141

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

Dan Am (SATA)
Highway 16-63 North
Spring Valley, MN 55975

Defense Apparel
285 Murphy Road
Hartford, CT 06114

NAMES AND ADDRESSES OF MANUFACTURERS AND DISTRIBUTORS

DeVilbiss Company
300 Phillips Ave.
P.O. Box 913
Toledo, OH 43692

Drägerwerk, 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

Gerson, Louis
15 Sproat Street
Middleboro, MA 02346

Glendale Protective Technologies Inc.
130 Crossways Park Drive
Woodbury, NY 11797

Globe Safety Products, Inc.
125 Sunrise Place
P.O. Box 7248
Dayton, OH 45407

International Safety Devices
16717 Smoketree Street
Hesperia, CA 92345

International Safety Instruments, Inc.
480 Perry Street
P.O. Box 846
Lawrenceville, GA 30246

Interspiro USA, Inc.
11 Business Park Drive
Branford, CT 06405

Jackson Products
5801 Safety Drive
Belmont, 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

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, N° 5558 (Par. 13G. Av.)
San Miguel - Santiago
CHILE

Mohawk Industrial Supply Company
P.O. Box 945
Manchester, CT 06040

NAMES AND ADDRESSES OF MANUFACTURERS AND DISTRIBUTORS

Moldex Metric Inc.
4671 Leahy Street
Culver City, CA 90230

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

3M Company
3M Center
Building 230-B
St. Paul, MN 55144-1000

National Draeger, Inc.
101 Technology Drive
P.O. Box 120
Pittsburgh, PA 15230

National Mine Service
4900/600 Grant Street
Pittsburgh, PA 15219

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
2000 Plainfield Pike
Cranston, RI 02920

Northcott Products Co.
1826 W. Diversey Parkway
Chicago, IL 60614

Nuclear Power Outfitters
P.O. Box 737
Crystal Lake, Illinois 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.
1535 Walnut Street
Kansas City, MO 64141

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

Racal Health and Safety, Inc.
7209A Grove Road
Frederick, MD 21701

Respiratory Systems
18102 Sky Park South J
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

NAMES AND ADDRESSES OF MANUFACTURERS AND DISTRIBUTORS

Safety Supply Co.
Toronto, Ontario
Canada

Safety Products Limited
Holmethorpe Avenue, Redhill
Surrey RH1 2PA
UNITED KINGDOM

Schmidt Manufacturing Inc.
14400 Alameda 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

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

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

United States Safety Service
Parmelee Industries, Inc.
P.O. Box 1237
Kansas City, MO 64141

Vortec Corporation
10125 Carver Road
Cincinnati, OH 45242

Willson Safety Products
P.O. Box 622
Reading, PA 19603

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, as part of its post-certification respirator audit program. Problem reports are received from users, regulatory agencies (Federal, state and local), and, increasingly, from manufacturers themselves. Because of increased awareness of manufacturers, and their willing acceptance of the need to recall and correct defective respirators, NIOSH has not needed to issue user warnings and notices for the past two years. In the future, NIOSH will issue such 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. Mark Theno
Air-Tek Company
6472 Flying Cloud Drive
Eden Prairie, MN 55344

Mr. Marc Cooper
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Parmelee Ind.
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Federal Republic of Germany

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11 Business Park Drive
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Masprot S.C. eI. & CIA LTDA.
Walker Martinez, No 5558 (Par.13G. Av.)
San Miguel - Santiago
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Carnegie, Pennsylvania 15106

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400 Academy Drive
Northbrook, IL 60062

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Erlanger, KY 41018-1040

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Sekur S.P.A. - Pirelli Group
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00169 Roma, ITALY

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1015 Raymond Street
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Fort Bombay - 400023, INDIA

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Reading, PA 19603

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Rexnord Safety Products
(See Biomarine Inc.)

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England

Mr. Paul McConnaughey
Safety and Supply Co.
5510 East Marginal Way South
Seattle, WA 98134

Mr. Robert Brennan
Scott Aviation
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Lancaster, NY 14086

Mr. Simon Kugler
Siebe Gorman, Ltd.
Avondale Way, Cwmbran, Gwent, Wales
NP4 1 YR, Great Britain

Mr. Jeff Moore
Standard Safety Equipment Corp.
P.O. Box 188
Palatine, IL 60067

Dr. Richard Stein
Survivair
A Division of Comasec Inc.
3001 S. Susan Street
Santa Ana, CA 92704

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
NIOSH, CDC, PHS, HHS
944 Chestnut Ridge Road
Morgantown, WV 26505

