

# AIR-PAK® NxG<sub>2</sub>™ SCBA

NEXT GENERATION RESPIRATORY PROTECTION



**tyco** / **SCOTT**  
HEALTH & SAFETY

# AIR-PAK<sup>®</sup> NxG<sub>2</sub><sup>™</sup> SCBA

HIGH PERFORMANCE PROTECTION YOU CAN

## Follow The Leader

Why do more than 60% of all U.S. fire departments depend on Scott's SCBA's every day? Because we have been the industry leader in the design, development and production of superior respiratory protection equipment for firefighters for over 50 years. Our long record of innovative engineering and reliable performance, coupled with our well-established reputation for customer satisfaction, is why 7 out of America's 10 largest fire departments choose Scott.

## Cutting-Edge Technology

Architecture, building materials, and fire scene threats are always changing. That's why Scott is always looking to the future, adapting to change, responding to firefighter's needs, and anticipating future requirements. We provide cutting-edge technology backed by time-tested performance. You expect the best from Scott Health & Safety, and that's exactly what we deliver:

- Unsurpassed engineering
- Quality manufacturing
- After-the-sale service
- Responsive technical support
- Superior training
- Total Customer Satisfaction

## Top-Down Convertibility<sup>™</sup>

Scott's entire line of respirators and communication products are fully interchangeable with Scott's AV-3000<sup>™</sup> Facepiece. This feature of Scott products expands their applications and extends their useful life. As your needs change or when new advances are introduced, the Scott Air-Pak NxG<sub>2</sub> is designed to be easily upgraded. Top-Down Convertibility simplifies training and assures the versatility, ease of use, and cost effectiveness of all Scott's SCBA products.

## Firefighters' #1 Choice

Why do most firefighters choose Scott? State-of-the art technology; unsurpassed engineering; reliable, time-tested performance; Top-Down Convertibility; cost effective versatility; superior training and technical support; and total customer satisfaction. Follow the leader for safety and SCBA performance – Scott Health & Safety.





## COUNT ON

### Next Generation in a Proud Tradition

With a well established record of reliable performance and rugged dependability, Scott's Air-Pak® earned the confidence and respect of a majority of SCBA users. The Scott Air-Pak Fifty™ was introduced as "the next generation SCBA" on the 50th Anniversary of the first Air-Pak. It provided a number of enhanced design features built around proven Scott performance characteristics. However, technology is always changing. Because Scott is dedicated to continuing its leadership in SCBA technology, it has taken the next step, the Air-Pak NxG<sub>2</sub>™.

### A Revolutionary Next Step

Fire service and industrial users urged Scott to develop a revolutionary breathing apparatus that would take advantage of today's technological advancements, but would continue to provide the performance characteristics on which Scott's reputation was built. The apparatus needed to provide greater flexibility, ergonomic compatibility, comfort, automated features, an array of status indicators, and still be easy to use and maintain. With invaluable input from scores of users, and five years of careful technical development, Scott created the Air Pak NxG<sub>2</sub>, featuring the best aspects of the Air-Pak Fifty, plus advanced technology of:

- The AV-3000™ Facepiece
- E-Z Flo® II Regulator
- HUD integrated electronics
- SNAP-CHANGE™ cylinder connection

### The Adaptable NxG<sub>2</sub>

The revolutionary Air Pak NxG<sub>2</sub> platform accommodates both AV-2000® and AV-3000 facepieces, as well as EZ-Flo I and II regulators. Many other standard components such as pressure reducer pistons and springs can also be used on the NxG<sub>2</sub>.

### See Your Way Clear – The AV-3000 Facepiece

As a part of Scott's ongoing "next step" program, facepiece advancements were a natural step in the right direction. The Scott AV-3000 facepiece was born by retaining all the advantages found in the AV-2000, and combining them with new improvements providing:

- Broader field of vision
- A better fit
- Added comfort
- Enhanced communications

This sleek, low profile facepiece provides better downward and peripheral vision to improve safety and job performance. Three exclusive Comfort Seal™ sizes and a nose cup uniquely designed for comfort, and available in four sizes, put the ease of fit-testing and wearing the AV-3000 in a class by itself. With a new six-point quad adjustment head harness and optional dual-adjustment spectacle kit, donning and doffing is quick and easy. No 21st-century facepiece is complete without state-of-art communications. The AV-3000 features large, dual voicemitters for clearer communications, and dual mounting brackets that allow for communication interface on either side of the facepiece.



### Ready When You Are

The targeted touch air-saver switch is angled for easy operation with a gloved hand, and is designed to stop the free flow of air during donning and doffing. The user places the SCBA in stand-by mode with an activated cylinder. That means the user can be suited up and ready for action without spending cylinder air.

The EZ-Flo II features Scott's quick-don mounting system, a positive locking mount that prevents accidental loosening of the regulator. The regulator automatically activates air flow with the user's first breath. Air entering the facepiece is directed over the lens to prevent fogging.

### BREATHE EASIER – WITH THE E-Z FLO II REGULATOR

The proven performance of the E-Z Flo Regulator, with first-breath activation, has been elevated to make breathing even easier. The responsive, NFPA and NIOSH approved E-Z Flo II Regulator reduces exhalation force by 25% while sustaining air flow volumes of more than 400 lpm. The E-Z Flo II is engineered to be rugged and resistant to impact. An exclusive targeted touch air-saver switch is glove-friendly by design allowing the user to effortlessly stop the free flow of air during donning and doffing. The EZ Flo II provides you the peace of mind protection to breathe to work, not work to breathe.



# SAFETY AND PERFORM

JUST WHAT YOU WOULD EXPECT FROM THE

## SNAP-CHANGE™ Cylinder Connection

The patent pending SNAP-CHANGE quick cylinder change-out eliminates the high-pressure hose and CGA coupling. This makes cylinder change-out a snap. When a cylinder is snapped into the pressure reducer, the flashing blue LED lights are activated and sounders emit ascending tones to alert the user of positive cylinder retention. The NxG<sub>2</sub>™ hip-mounted pressure reducer has two glove-friendly rings on either side of the engagement snout. When the handles are pulled simultaneously, the lights flash red and a descending tone accompanies the disengagement action signaling cylinder pop out.



Other cylinders can be upgraded or retrofitted by simply changing out the cylinder valves. To perform mutual aid, the NxG<sub>2</sub> cylinder valve comes with a CGA male checked valve that allows utilization of a mutual aid air wagon or compressor to fill the cylinder without ever opening the valve hand-wheel. The NxG<sub>2</sub> also features a hip-mounted Rapid Intervention Connection (RIC) for quick charging a downed or trapped firefighter.



Engaged

Disengaged

## Cylinder Options

The Air-Pak® NxG<sub>2</sub> is available in 2216 or 4500 psi models. Choose from the latest in cylinder material including carbon fiber, the lightest cylinder available, and aluminum. Cylinders are available in 30-, 45- or 60-minute rated durations.

## Lightweight Alloy Backframe

Firefighters have a rugged job that often involves falling against hot masonry walls, being knocked down on concrete floors, sliding through breached walls, or crawling through confined spaces. The lightweight, one-piece aluminum alloy backframe is designed to provide a compact, sturdy and durable housing system for the NxG<sub>2</sub>'s electronics and pressure reducer, and at the same time, be comfortable and promote work efficiency and safety. The frame is contoured to fit the wearer's back, and places the bulk of the SCBA's weight on the hips. This configuration considerably reduces shoulder fatigue, and gives the wearer greater freedom of movement.

# ANCE

## LEADER IN SCBA'S



### Hi-Tech Harness System

The Air-Pak® NxG<sub>2</sub>™ harness system is constructed of durable braided para-aramid webbing. The rugged strength of this material eliminates the need for interior steel cables required in many competing systems. This remarkably comfortable harness is woven directly through retaining slots in the backframe. Bolts and screws have been eliminated, so tools are never required. Hip and shoulder pads, as well as straps, can be replaced or cleaned by simply unsnapping the dot fasteners. The harness also features quick take-up and release. Parachute-style or optional alligator clip fasteners afford efficient adjustment. Doffing is quick and easy because fasteners are oversized and easily manipulated even with gloved hands. A one-finger release disengages the waist belt buckle.

### Space-Age Advancements

- Battery Pak – One battery pak powers the electronics system and eliminates time consuming battery checks and changes. Battery replacement is achieved by unsnapping the battery cover and simply slipping out the sleeve and replacing the 3 commonly available “C” batteries. Based on a 25% usage rate, batteries in the NxG<sub>2</sub> will provide a minimum 6 months run time.
- SNAP-CHANGE™ Cylinder – Scott's patent pending SNAP-CHANGE quick cylinder change-out eliminates the high-pressure hose and CGA coupling to make change out quick, simple and easy.
- Hip-Mounted Reducer – On-the-job-friendly, hip-mounted redundant pressure reducer makes working in the NxG<sub>2</sub> easier.
- Buddy System Indicators – Buddy system indicator lights (LEDs) and sounders are mounted on the backframe, and indicate to fellow firefighters both your PASS status and the status of your available air and cylinder engagement. The indicators are green and quiet when the PASS is monitoring normal movement, but alarm when the wearer is motionless for more than 20 seconds.
- Superior Comfort – By building on the Air-Pak Fifty™ SCBA's concept of resting the weight of the SCBA on the hips, the NxG<sub>2</sub> provides superior working comfort to firefighters.
- Pad and Strap Replacement – By providing for separate pad and strap replacement, maintenance and cleaning of these elements can be achieved with tool-free snap out ease.
- Buddy-Breathing System – The NxG<sub>2</sub> features a combined dual EBSS/Airline hose connection option. This unique buddy breathing system allows users to maneuver up to five feet apart while not exposing the recipient or donor to ambient air during connection. Additionally, users can connect to an external air source allowing for extended durations in a bucket truck or HAZMAT situation.



EBSS/Airline

### The Industry's Best Warranty

The Air Pak NxG<sub>2</sub> is covered by a 3/10/15-year warranty, one of the most comprehensive warranties in the industry. The electronics are covered for a period of 3 years; the entire Air Pak is covered for 10 years, facepiece-to-cylinder; the pressure reducer is covered by a 15-year warranty. Quality assurance and service are just two of the many reasons Scott is the leader in respiratory protection. Simply put, during the warranty period, if you bought it from us, it's covered.

### Approvals

- The NxG<sub>2</sub> is both NIOSH and NFPA 1981, 2002 approved.
- When adding options, note that the Pak Alert SE® and SEMS™ have both NFPA 1981, 2002 and NFPA 1998 approval.

#### WARNING

This respirator is intended to be used only in conjunction with an organized respiratory protection program. Selection of a respirator must take into account all hazards associated with its intended use. Improper selection or improper use of this respirator may result in injury or death.



### HUD INTEGRATED ELECTRONICS

The Air-Pak® NxG<sub>2</sub>™ features a Heads-Up Display (HUD), keeping you informed about your air status. The display conveniently mounts to the E-Z Flo® II Regulator minimizing the cost associated with issuing heads-up-displays with personal facepieces. Unlike other manufacturers' displays, Scott's HUD is hard-wired and engineered to eliminate false readings. An unobstructed view through the facepiece, provides a clear LED readout of full, three-quarter, half and one-quarter bottle. The HUD also serves as a redundant low air alarm. When used this way, the HUD makes Scott the only SCBA manufacturer offering an SCBA that does not vent air in order to drive a low air alarm. Most air alarms are inefficient and dump up to 5% of their air supply to sound an alarm.

# SCOTT FACEPIECES



## AV-3000™ Facepiece

- Improved downward and peripheral vision
- Enhanced clarity of voice communication through larger dual voicemitters
- Better fit test results with three sizes of Comfort Seal™ (Small, Medium, Large) and four sizes of nose cups (Small, Medium, Large, Extra-Large)
- Unique nosecup comfort design
- Easy don 6-point quad adjustment head harness
- Dual adjustment spectacle kit
- Omni-mount bracket design allows for facepiece and transmitting communication equipment interface to be done on either voicemitter
- A simplistic clam shell design significantly decreases part changeout
- Large sealing area allows for a better firefighter hood-to-facepiece interface
- NIOSH approved, NFPA approved



## AV-2000® Facepiece

- Totally interchangeable with Scott's full line of air-supplied, air-purifying and communications products
- Tested and meets the requirements of NIOSH's CBRN Standards
- Includes a "double lip" design that provides positive pressure to the seal
- Includes a wider, softer design that improves user comfort
- Includes a thicker seal lip that adds strength to the seal structure
- Includes a broader, deeper chin cup that allows greater contact
- Other sizes available including small, large and x-large
- Available head harnesses include Kevlar® and rubber

Facepiece Options & Accessories	
Part Number	Description
805773-01	AV-3000 Facepiece, Small Faceseal / Nosecup, Kevlar Head Harness
805773-02	AV-3000 Facepiece, Medium Faceseal / Nosecup, Kevlar Head Harness
805773-03	AV-3000 Facepiece, Large Faceseal / Nosecup, Kevlar Head Harness
804191-01	AV-2000 Facepiece, Small, EPDM Rubber, Kevlar Head Harness
804191-02	AV-2000 Facepiece, Large, EPDM Rubber, Kevlar Head Harness
804191-03	AV-2000 Facepiece, X-Large, EPDM Rubber, Kevlar Head Harness
804191-08	AV-2000 Facepiece, Comfort Seal, EPDM Rubber, Kevlar Head Harness

Note: Additional facepiece options available. Contact Scott customer service for more details.

# CYLINDER OPTIONS



## Carbon Cylinders

- Scott's Carbon cylinders are built around DOT specifications and have a working pressure of 2216, or 4500 psig
- Lightweight, composite cylinder consisting of an aluminum alloy inner shell, with a total overwrap of carbon fiber, fiberglass and an epoxy resin
- Rated for 30, 45, or 60 minutes in duration
- Hydrostatic testing to be performed every 5 years
- 15-year life expectancy

Cylinder and Valve Ordering Information			
Part Number	Description	Weight in lbs.	Weight in kgs.
200128-01	4500 psig, 30 Min. Carbon Cyl, NxG2	9.4	4.3
200129-01	4500 psig, 45 Min. Carbon Cyl, NxG2	13.6	6.2
200130-01	4500 psig, 60 Min. Carbon Cyl, NxG2	16.6	7.5
200131-01	2216 psig, 30 Min. Carbon Cyl, NxG2	9.4	4.3

# OPTIONS AND ACCESSORIES

## UPGRADE YOUR NxG<sub>2</sub><sup>™</sup> TO SUIT YOUR REQUIREMENTS

To promote maximum user benefit, the Air-Pak<sup>®</sup> NxG<sub>2</sub> SCBA is designed to be upgraded should the user's requirements change. For example, a low-pressure SCBA may be upgraded to a high-pressure system with minimum cost. In addition, it may be equipped with a range of options and a full line of accessories including:



### SEMS<sup>™</sup>

The Scott Electronic Management System communicates directly with an outside base station by transmitting and receiving firefighters' status information, greatly improving fire scene accountability.



### Integrated PASS Device

The Pak Alert SE<sup>®</sup> user distress alarm is integrated with an SCBA's air stream for automatic activation, with audible and visual alarms alerting fellow firefighters that one of their own is down or trapped.



### Buddy-Breathing system

A combined dual EBSS/Airline option affords users mobility while not exposing the recipient or donor to ambient air. Users can also connect to an external air source for extended durations.



### Air-Pak Cases

Choose from a soft canvas carrying case, constructed of heavyweight nylon or a black molded polyethylene hard case.



### Eyeglass holder

Designed to retain your prescription lens, this device features a flexible suspension system to ensure a comfortable fit to the user's face.



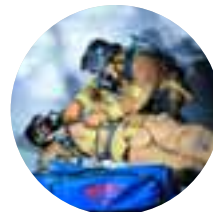
### Facepiece Bag

Durable and washable polyester fleece bag, with spring loaded clamp and drawstring, offers protective stowing for facepiece and quick connect mask mounted regulator.



### SCBA Steel Wall Case

Steel construction provides a safe, sturdy wall case for the Air-Pak SCBA. A clear Plexiglass<sup>®</sup> window permits easy visual inspection. Dimensions: 31.5x15x8.75 inches.



### RIT-PAK<sup>™</sup> Air Source Kit

Designed to provide air to downed/trapped firefighters. Basic kit includes cylinder caddy with carrying handle, pressure reducer with low pressure hose and fittings, and rugged Pyrotone<sup>®</sup> bag.



### Walk-away Wall Bracket

A simple, inexpensive means of mounting the Air-Pak SCBA on a wall, this bracket provides a secure method of holding the respirator for quick donning in emergency situations.



### Chest Strap

The chest strap is constructed with the same materials as the Air-Pak NxG<sub>2</sub> harness and is designed to adjust for a comfortable fit.



### Facepiece Neck Strap

Designed to hold the facepiece for convenient easy retrieval when wearing an SCBA. The facepiece strap is constructed with the same materials as the Air-PakNxG<sub>2</sub> harness and is designed to adjust for a comfortable fit.

# ORDERING INFORMATION

## AIR-PAK® NxG<sub>2</sub>™ SCBA

NxG <sub>2</sub> SCBA NFPA 2002 Compliant Ordering Information									
Part Number	Description	Standard w/Case	Standard less Case	w/Quick Connect and Case	w/Quick Connect less Case	w/Dual EBSS and Case	w/Dual EBSS less Case	w/Dual EBSS QC Reg and Case	w/Dual EBSS QC Reg less Case
200300-XX	2.2 Air-Pak NxG <sub>2</sub> Less Cylinder	-01	-02	-03	-04	-05	-06	-07	-08
200301-XX	2.2 Air-Pak NxG <sub>2</sub> Less Cyl. w/ Pak-Alert®	-01	-02	-03	-04	-05	-06	-07	-08
200302-XX	2.2 Air-Pak NxG <sub>2</sub> Less Cyl. w/ SEMS™	-01	-02	-03	-04	-05	-06	-07	-08
200309-XX	4.5 Air-Pak NxG <sub>2</sub> Less Cylinder	-01	-02	-03	-04	-05	-06	-07	-08
200310-XX	4.5 Air-Pak NxG <sub>2</sub> Less Cyl. w/ Pak-Alert	-01	-02	-03	-04	-05	-06	-07	-08
200311-XX	4.5 Air-Pak NxG <sub>2</sub> Less Cyl. w/ SEMS	-01	-02	-03	-04	-05	-06	-07	-08

Above NxG<sub>2</sub> configurations include Parachute-Style Clips. For Alligator Clip option, change "o" in extension to "5" (i.e. -01 becomes -51, -02 becomes -52).  
 Note: Configurations do not include facepiece or cylinder. All case configurations feature a standard hard plastic case.

NxG <sub>2</sub> SCBA CBRN Approved Ordering Information									
Part Number	Description	Standard w/Case	Standard less Case	w/Quick Connect and Case	w/Quick Connect less Case	w/Dual EBSS and Case	w/Dual EBSS less Case	w/Dual EBSS QC Reg and Case	w/Dual EBSS QC Reg less Case
200321-XX	2.2 Air-Pak NxG <sub>2</sub> Less Cylinder	-01	-02	-03	-04	-05	-06	-07	-08
200322-XX	2.2 Air-Pak NxG <sub>2</sub> Less Cyl. w/ Pak-Alert	-01	-02	-03	-04	-05	-06	-07	-08
200323-XX	2.2 Air-Pak NxG <sub>2</sub> Less Cyl. w/ SEMS	-01	-02	-03	-04	-05	-06	-07	-08
200330-XX	4.5 Air-Pak NxG <sub>2</sub> Less Cylinder	-01	-02	-03	-04	-05	-06	-07	-08
200331-XX	4.5 Air-Pak NxG <sub>2</sub> Less Cyl. w/ Pak-Alert	-01	-02	-03	-04	-05	-06	-07	-08
200332-XX	4.5 Air-Pak NxG <sub>2</sub> Less Cyl. w/ SEMS	-01	-02	-03	-04	-05	-06	-07	-08

Above NxG<sub>2</sub> CBRN Approved configurations include Parachute-Style Clips. For Alligator Clip option, change "o" in extension to "5" (i.e. -01 becomes -51, -02 becomes -52).  
 Note: Configurations do not include facepiece or cylinder. All case configurations feature a standard hard plastic case.



Monroe Corporate Center • P.O. Box 569 • Monroe, NC 28111  
 Telephone: 800.247.7257 • Facsimile: 704.291.8330  
[www.scotthealthsafety.com](http://www.scotthealthsafety.com) • [sh-sale@tycoint.com](mailto:sh-sale@tycoint.com)



H/S 6437 A 3/05 ISO 9001 Registered. All rights reserved.  
 Kevlar is a registered trademark of E.I. Du Pont de Nemours and Company.  
 Plexiglas is a registered trademark of Rohm & Haas Company Corporation.  
 Pyrotone is a registered trademark of Elizabeth Webbing Mills Company, Inc.