



# 3M™ Scott™ ProPak Sigma Self-Contained Breathing Apparatus (SCBA) Kit



## Description

The 3M™ Scott™ ProPak Sigma SCBA Kit is a ready-to-use kit. It comes complete with a ProPak Sigma SCBA set, a Vision 3 positive pressure facemask and a fully charged 6.0 litre, 300 bar steel cylinder.

## Features

The 3M™ Scott™ ProPak Sigma is a Type 2 open circuit, self-contained, compressed air breathing apparatus. It consists of a back plate, unpadded carrying harness and pneumatic system, containing a cylinder connector, reducer, pressure gauge, whistle and demand valve.

The 6.0L, 300 bar steel cylinder offers 1640 litres of free air capacity providing total duration of 41 minutes\*. It is supplied with a right angled (RA) cylinder valve fitted with a safety locking handwheel. This cylinder is manufactured to CE specification in accordance with PED, EN 1964-1 and ISO 9809-1. Cylinders are supplied fully charged.

The Vision 3 facemask is a positive pressure, medium/large, facemask and feature a liquid silicone rubber outer mask with reflex seal and EDPM ori nasal inner mask. The facemask visor is multi curvature and made of a scratch and impact resistant polycarbonate material with a flame-retardant coating and provides excellent panoramic vision. The visor is held in place by two U shaped clamps. The facemask features a left sided bayonet connection for the demand valve and a five point fully adjustable neoprene strap style head harness. A speech diaphragm is mounted at the front of the mask to offer speech transmission and includes a low resistance positive pressure exhalation valve. The facemask is available with optional prescription lens insert for spectacles wearers.

## Applications

The 3M™ Scott™ ProPak Sigma Kit is designed as a marine/ industrial firefighting SCBA but is also suitable for providing respiratory protection in any IDLH (Immediately Dangerous to Health or Life) environment.

## Maintenance/cleaning/servicing

Cleaning should only be carried out as specified in the user instructions. Maintenance and servicing must only be performed by trained personnel following the procedures in the service and maintenance manual.

\* Duration calculated using an average wearer consumption rate of 40 litres per minute.

# Specification

## Approvals

CE marked in accordance with EN 137:2006: Type 2

MED (Shipswheel)

Facemask is CE marked in accordance with EN 136:1998 Class III

## Materials

Pressure reducing valve	Nickel plated brass
Rust tube cylinders	Brass
Reducing valve seat	Polyamide (nylon)
O-rings	Nitrile, silicone, EPDM
Reducing valve springs	Stainless steel
HP pressure gauge	Stainless steel, polycarbonate lens
HP pressure gauge cover	Neoprene
MP air supply hose fittings	Nickel plated brass
MP air supply hose	EPDM cover, fabric braid reinforcement, EPDM liner
Vision 3 Facemask outer mask	Injection moulded liquid silicone
Vision 3 Facemask inner mask	Thermoplastic elastomer
Vision 3 Facemask visor	Polycarbonate with silicone coating
Vision 3 Facemask head harness	5 point fully adjustable neoprene strap style head harness
HP air hose	PTCFE liner, stainless steel braiding, estane sleeve
Valve handwheel	Glass filled polyamide
Backplate	Glass and carbon filled nylon composite
Backpad	Flame retardant cross linked polyolefin closed cell foam covered in a PROBAN® fabric
Harness	Kevlar® blend webbing, PROBAN® covered padding
Strap buckles	Stainless steel
Cylinder band	Kevlar® and Pyrogard blend webbing, reflective thread
Cylinder	Steel
Cylinder valve	Nickel plated brass
Demand valve casing	Glass filled polyamide

## Tempest demand valve

Compact positive pressure demand valve featuring servo-assisted, tilting diaphragm mechanism with low inspiratory resistance and responsive dynamic performance, automatic first breath actuation and hands free bypass facility. Components injection moulded from polyamide and acetyl with rubber seals and diaphragms.

First breath activation	-20 to -30 mbar
Peak flow performance	In excess of 1000 litres/minute
Bypass flow	150 litres/minute nominal
Static positive pressure	1.0 – 4.0 mbar

## Reducing valve

First stage pressure reducing valve featuring non-adjustable, spring-loaded piston mechanism and outlet supply protected by pressure relief valve. Valve body and cap machined from nickel-plated brass with stainless steel spring and hose retainer U-clips.

Outlet pressure	
300 bar inlet	6.0 to 11.0 bar
Pressure relief valve protected	Approx. 13.5 bar
Flow restrictor to gauge supply hose	<25 litres minute

### Pressure indicator and warning whistle

Bourdon tube type dial indicator

Heat and impact resistant polycarbonate lens

Safety blow-out vent in rear of gauge

Accuracy	+/- 10 bar between 40-300 bar
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### Hoses

Stainless steel swivel hose fittings

Medium pressure hose

Maximum working pressure	16 bar
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Minimum burst pressure	80 bar
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High pressure hose

Maximum working pressure	450 bar
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Minimum burst pressure	800 bar
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### Weight

ProPak Sigma (less cylinder)	2.6kg
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6.0 litre, 300 bar steel cylinder (full)	10.5kg
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Vision 3 Facemask	Approximately 0.7kg
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## Ordering Information

3M ID	Description
7100330230	3M™ Scott™ ProPak Sigma SCBA Kit

## Spare Parts

3M ID	Description
7100325667	3M™ Scott™ 1640 Cylinder, 6L 300 bar, Steel, with Right Angled Valve (RA), Fully charged
7100317326	3M™ Scott™ Vision 3 Positive Pressure Facemask, Standard Rubber Head Harness, M /L



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