

# TECHNICAL DATASHEET

## *ProPak- SELF CONTAINED BREATHING APPARATUS*



### **DESCRIPTION**

The Scott Safety ProPak range is a series of open circuit, self-contained, compressed air breathing apparatus. They consist of a back plate, carrying harness and pneumatic system, containing a cylinder connector, reducer, pressure gauge, whistle and demand valve.

Available in 4 specification levels, variants can include padded or non padded harnesses and options of a fully adjustable backplate. The complete range are EN137 Type 2 approved products. All backplates have been designed to be able to incorporate integrated electronics.

The ProPak can be configured in a number of different ways with single or dual cylinders. There are also a range of attachments available including Airline (AC), Split Demand Valve Coupling (SDC) and Y Piece configurations.

The ProPak is used in conjunction with a range of composite or steel cylinders and the choice of Vision 3, Vision AMS or Promask PP facemask. The ProPak range is specifically designed as a Professional Fire Fighting SCBA, but is also suitable for providing respiratory protection in any IDLH environment.

### **APPROVALS**

CE marked in accordance with EN137:2006 Type II

MED (Shipswheel)

BS8468-1 in conjunction with appropriate facemask

AS1716

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## MATERIALS

Pressure Reducing Valve	Nickel Plated Brass
Rust Tube (Sabre Cyls)	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
Facemask	Neoprene, Silicone or Procomp
Facemask Visor	Polycarbonate
MP Air Supply Hose	Chlorinated Polyethylene, fabric braid reinforcement, Nitrile liner
HP Air Hose	PTCFE liner, stainless steel braiding, Estane sleeve
Valve Handwheel	Glass filled Polyamide
Harness	Intrinsically flame retardant Kevlar blend webbing and Proban fabric on padded variants
Backplate	Glass & Carbon filled Nylon composite
Backpad	Flame retardant Proban and closed cell Polyethylene foam
Cylinder Band	Kevlar blend fabric
Strap Buckles	Stainless Steel, Brass
Cylinder	Steel or Composite
Cylinder Valve	Nickel Plated Brass
Demand Valve Casing	Glass filled Polyacetal and Polyamide

## TECHNICAL SPECIFICATIONS

### 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

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### 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 Uclips.

Outlet Pressure	Nickel Plated Brass
200 bar inlet	5.5 to 9.5 bar
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 & 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

### Hoses

#### Stainless Steel swivel hose fittings

##### Medium Pressure Hose

Maximum working pressure	16 bar
Minimum burst pressure	80 bar

##### High Pressure hose

Maximum working pressure	450 bar
Minimum burst pressure	800 bar

### Packing Specifications

Single

Duo