

TECHNICAL DATA SHEET

Description

The Scott ACS_m is an open circuit, self-contained, compressed air breathing apparatus. It consists of a back plate, carrying harness and pneumatic system, consisting of a cylinder connector, reducer, pressure gauge, whistle and demand valve.

The ACS can be configured in a number of different ways with various size single cylinders. There are also a range of attachments available including Airline, Split Demand Valve Coupling (SDC).

The ACS is used in conjunction with a range of composite or steel cylinders and the choice of Vision 3, Panaseal, Panavisor or Promask PP facemask.

Applications

The Sigma ACS_m is specifically designed as a Marine / Industrial SCBA, but is also suitable for providing respiratory protection for any IDLH environment.

Approval Information

- CE marked in accordance with EN137:2006: Class 1
- AS1716
- MED



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Pressure Reducing Valve	Nickel Plated Brass
Rust Tube (Cyls)	Brass
Reducing Valve Seat	Polyamide (Nylon)
O-Rings	Nitrile, Silicone, EPDM
Reducing Valve Springs	Stainless Steel
HP Pressure Guage	Stainless Steel, Polycarbonate Lens
HP Pressure Guage Cover	Neoprene
MP Air Supply Hose Fittings	Nickel Plated Brass
Facemask	Neoprene, Silicone or Procomp
Facemask Visor	Polycarbonate
MP Air Supply Hose	EPDM Cover, fabric braid reinforcement, EPDM liner
HP Air Hose	PTCFE liner, stainless steel braiding, Estane sleeve
Valve Handywheel (Cyls)	Glass filled Polyamide / TPE
Harness	Flame retardant Polyester
Backplate	Fabric covered polyamide
Backpad	Flame retardant cross linked polyolefin closed cell foam covered in a Viscose aramid fabric
Cylinder Band	Flame retardant polyester with Velcro
Strap Buckles	Glass filled polyamide
Cylinder	Steel or Composite
Cylinder Valve	Nickel Plated Brass
Demand Valve Casing	Glass filled Polyamide

Maintenance / Servicing / Cleaning

N.B. - 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.

The ACS backplate is designed to be washed in a washing machine, please follow instructions on the care label.

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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 with rubber seals and diaphragms.

First breath activation	-20 to -30 mbar
Peak flow performance	In excess of 500 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	
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
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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

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Weight/ Dimensions

Single configuration (less cylinder)	2.08 Kg
Single configuration & facemask (less cylinder)	2.70 Kg
Length	565 mm
Width	260 mm
Depth (with 6.8 litre 300 bar cylinder)	230 mm

UNITED KINGDOM

Scott Health & Safety Ltd
Pimbo Road, West Pimbo,
Skelmersdale, Lancashire,
WN8 9RA, England

Customer Services:
Tel: +44 (0)1695 711711
Fax: +44 (0)1695 711772
scott.sales.uk@tycoint.com

FINLAND

Scott Health & Safety Oy
P.O. Box 501
FI-65101 Vaasa, Finland
Tel: +358 (0)6 3244 511

Customer Services:
Tel: +358 (0)6 3244 -543 or -544
Fax: +358 (0)6 3244 591
scott.sales.fin@tycoint.com

ACS_m - SELF CONTAINED BREATHING APPARATUS