# **TECHNICAL DATASHEET**

ACSF- SELF CONTAINED BREATHING APPARATUS





### DESCRIPTION

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

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

The ACSf 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 ACSf is specifically designed as an 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 AS1716



# **TECHNICAL DATASHEET**

## MATERIALS

Pressure Reducing ValveNickel Plated BrassRust Tube (Cyls)BrassReducing Valve SeatPolyamide (Nylon)O-RingsNitrile, Silicone, EPDMReducing Valve SpringsStainless SteelHP Pressure GaugeStainless Steel, Polycarbonate LensHP Pressure Gauge CoverNeopreneMP Air Supply Hose FittingsNickel Plated BrassFacemaskNeoprene, Silicone or ProcompFacemask VisorPolycarbonateMP Air Supply HoseEPDM Cover, fabric braid reinforcement, EPDM linerHP Air HosePTCFE liner, stainless steel braiding, Estane sleeveValve Handwheel (Sabre Cyls)Glass filled Polyamide/ TPEHarnessKevlar and Pyrogard blend webbing with FR Proban covered fiame retardant foam. Reflective threadBackplateFabric covered polyamideBackpadKevlar and Pyrogard blend webbing, Reflective threadStrap BucklesGlass filled polyamideCylinder ValveSteel or CompositeCylinder ValveNickel Plated Brass		
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Cylinder Valve Nickel Plated Brass	Strap Buckles	Glass filled polyamide
-	Cylinder	Steel or Composite
	Cylinder Valve	Nickel Plated Brass
Demand Valve Casing Glass filled Polyamide	Demand Valve Casing	Glass filled Polyamide

### MAINTENANCE/CLEANING/SERVICING

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 instruction on the care label.



# **TECHNICAL DATASHEET**

### 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 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 Uclips.

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
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
Weight/ Dimensions	
Single configuration (less cylinder)	3.08kg
Single configuration & facemask (less cylinder)	3.70kg
Length	565mm
Width	260mm
Depth (with 6.0 litre 200 bar cylinder)	245mm



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