

# TECHNICAL DATASHEET

## ACSfx- SELF CONTAINED BREATHING APPARATUS



### **DESCRIPTION**

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

The ACSfx 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 ACSfx 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 ACSfx 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

AS1716

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<b>MATERIALS</b>	
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 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	EPDM Cover, fabric braid reinforcement, EPDM liner
HP Air Hose	PTCFE liner, stainless steel braiding, Estane sleeve
Valve Handwheel (Sabre Cyls)	Glass filled Polyamide/ TPE
Harness	Kevlar and Pyrogard blend webbing with FR Proban covered flame retardant foam. Reflective thread
Backplate	Fabric covered polyamide
Backpad	Flame retardant cross linked polyolefin closed cell foam covered in a Viscose aramid fabric
Cylinder Band	Kevlar and Pyrogard blend webbing, Reflective thread
Strap Buckles	Glass filled polyamide
Cylinder	Steel or Composite
Cylinder Valve	Nickel Plated Brass
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.

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## 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)	3.10kg
Single configuration & facemask (less cylinder)	3.72kg
Length	565mm extendable to 610 mm
Width	260mm
Depth (with 6.0 litre 200 bar cylinder)	245mm