TECHNICAL DATASHEET

ELSA SPRINT – EMERGENCY LIFE SUPPORT APPARATUS

DESCRIPTION

The Sabre ELSA Sprint is a positive pressure escape set providing air on demand for situations where the escape route may require a lot of physical exertion or where the maximum levels of protection are required.

The ELSA Sprint is available in durations of 10 or 15 minutes in high visibility PVC or black anti-static polyurethane materials. The ELSA Sprint apparatus consists of a cylinder with combined cylinder valve and reducer, supply hose to constant flow hood or positive pressure facemask and stowage bag. The ELSA Sprint is activated upon opening the bag whereby a pin which is attached to the bag via a strap is released.

APPLICATIONS

The ELSA Sprint is suitable for use in Marine or Industrial Escape settings for escape use only.

APPROVALS
CE marked to EN402

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MATERIALS	
Pressure Reducing Valve	Anodised Aluminium
Rust Tube	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
Air Hood	Polyurethane coated viscose with clear PU visor
Facemask	Neoprene, Silicone or Procomp
Facemask Visor	Polycarbonate
MP Air Supply Hose	Chlorinated Polyethylene, fabric braid reinforcement, Nitrile liner
Carrying Bag	PVC Coated Nylon (AntiStatic – Polyurethane)
Valve Handwheel	Glass filled Polyamide
Strap Buckles	Polyamide
Cylinder	Aluminium, Steel or Composite
Cylinder Valve	Anodised Aluminium
Demand Valve Casing	Glass filled Polyacetal and Polyamide

CYLINDER VALVE

Manufactured from lightweight aluminium alloy with an anodised protective coating, the valve has a DIN type outlet for connection to the cylinder connector on the PRV and for simple charging. There is a low profile pressure gauge and burst disc assembly incorporated into the Valve and the Handwheel allows for manual or automatic quick-fire activation.

CARRYING BAG

The carrying bag is made of PVC coated nylon. This is coloured for high visibility and is both flame retardant and chemical splash resistant. There is an antistatic option for working in potentially explosive atmospheres and this is made of polyurethane. The bag can be worn across the chest, as a bandolier or worn with an optional waistbelt.

DEMAND FLOW HOOD

The demand flow hood is manufactured from polyurethane coated viscose. This is flame retardant and coloured for high visibility. This provides a stretch material for a comfortable fit combined with an elastomeric neck seal giving ease of donning over spectacles, beards and long hair. The optionally clear bubble visor is made from polyurethane. The mask has an exhale valve for increased performance and a compact ¼ mask reduced
rebreathed CO2 levels.

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.

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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 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 Demand 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
Hoses	
Stainless Steel swivel hose fittings	
Medium Pressure Hose	
Maximum working pressure	16 bar
Minimum burst pressure	80 bar
Packing Specifications	
10 minute bag version	56x21x18cm 6.0kg
15 minute bag version	56x21x18cm 6.5kg
Weights/Dimensions	
10 Minute Bag Version	
Weight	4.5kg
Length	450mm
Width	210mm
Depth	210mm
15 Minute Bag Version	
Weight	5.6kg
Length	450mm
Width	210mm
Depth	210mm

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