

TECHNICAL DATASHEET

ELSA SPRINT - EMERGENCY LIFE SUPPORT APPARATUS



DESCRIPTION

The Sprint is a self-contained, open-circuit, compressed air, positive-pressure escape breathing apparatus.

The Sprint is fitted with a 200 bar, 15 minute duration, steel cylinder (based upon a wearer consumption of 40 litres per minute).

The Sprint is stored, ready for use, in a high visibility bag that contains the compressed air cylinder and Vision 3 facemask. Pictogram user instructions and the duration of the air supply are prominently visible on the bag. The cylinder contents gauge on the cylinder/reducer valve is visible through a transparent panel in the bag, permitting the cylinder charge state to be checked without opening the bag.

The bag is sealed by a bright red anti-tamper tag which breaks easily when the bag is opened.

Medium-pressure air is immediately available at the facemask demand valve, which remains closed until the wearer pulls the facemask from the bag, dons the mask and takes a first, sharp, breath.

APPLICATIONS

Suitable for Escape use only

APPROVALS

CE marked in accordance with EN402

TECHNICAL DATASHEET

MATERIALS

Pressure Reducing Valve	Nickel Plated Brass
Rust Tube	Brass
Reducing Valve Seat	Polyamide (Nylon)
O-Rings	Nitrile, Silicone, EPDM, Viton
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	DV - EPDM Cover, fabric braid reinforcement, EPDM liner
Carrying Bag	PVC Coated Nylon
Valve Handwheel	Glass filled Polyamide
Strap Buckles	Polyamide
Cylinder	Steel
Demand Valve Casing	Glass filled Polyacetal and Polyamide

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.

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

Combined Cylinder & Pressure Reducing Valve

The valve is manufactured from nickel plated brass and has a pressure indicator and DIN type charging connection (stainless steel). There is a large handwheel, a low profile pressure gauge and burst disc assembly incorporated into the valve.

Neck thread	M18 x 1.5mm parallel
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