

TECHNICAL DATASHEET

ELSA MUSTER - EMERGENCY LIFE SUPPORT APPARATUS



DESCRIPTION

The ELSA Muster 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 Muster has an ancillary air in attachment for use at Muster stations.

The ELSA Muster is an open circuit, positive pressure airline breathing apparatus consisting of; Anti-Static bag, high pressure reducing valve, automatic positive pressure demand valve and coupling for airline supply hose.

The ELSA Muster is supplied with either a Positive Pressure Facemask or with Positive Pressure Hood.

APPLICATIONS

The ELSA muster is suitable for use in rapid escape situations and in conjunction with the use of Muster Stations.

APPROVALS

CE marked to EN402

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MATERIALS

Pressure Reducing Valve	Nickel Plated Brass
Rust Tube (Sabre Cyls)	Brass
Reducing Valve Seat	Polyamide (Nylon)
O-Rings	Nitrile, Silicone, EPDM
Reducing Valve Springs	Stainless Steel
HP Pressure Gauge	Stainless Steel, brass, 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	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	Nickel Plated Brass
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 antistatic polyurethane for working in potentially explosive atmospheres. This is black and is both flame retardant and chemical splash resistant. The bag can be worn across the chest, as a bandolier or worn with an optional waistbelt.

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.

<i>First breath activation</i>	-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

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Flow restrictor to gauge supply hose	<25 litres minute

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

Packing Specifications

10 minute bag version	56x21x18cm 6.0kg
15 minute bag version	56x21x18cm 6.5kg

Weights/Dimensions

10 Minute Bag Version

Weight	4.2kg
Length	450mm
Width	210mm
Depth	210mm

15 Minute Bag Version

Weight	5.3kg
Length	450mm
Width	210mm
Depth	210mm