

TECHNICAL DATASHEET

ELSA MUSTER ESCAPE BREATHING APPARATUS



DESCRIPTION

The Scott Safety 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 Face Mask or with a Positive Pressure hood.

APPLICATIONS

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

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TECHNICAL SPECIFICATIONS

| ELSA MUSTER | |
|---|---|
|  | |
| 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 |
| Air Hood | Polyurethane coated viscose with clear PU visor |
| Positive Pressure Mask | Black Neoprene with net head harness |
| MP Air Supply Hose | Chlorinated Polyethylene, fabric braid reinforcement, Nitrile Liner |
| Carrying Bag | Anti-static - Polyurethane |
| Strap Buckles | Polyamide |
| Cylinder | Steel |

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CARRYING BAG

The carrying bag is made of Polyurethane coated viscose with clear PU visor. This anti-static option is for working in potentially explosive atmospheres. The bag can be worn across the chest, as a bandolier or worn with an optional waist belt.

HOOD

The constant flow hood is manufactured from polyurethane coated viscose with clear PU visor. 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.

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 activation and hands free bypass facility. Components injection moulded from Polyamide with rubber seals and diaphragms.

| TEMPEST DEMAND VALVE | |
|-----------------------------|--------------------------------|
| First breath activation | -20 to -30 mbar |
| Peak flow performance | In excess of 500 litres/minute |
| Optional | 150 litres/minute nominal |
| Static positive pressure | 1.5 - 3.5 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 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 |
| Flow restrictor to gauge supply hose | <25 litres per minute |

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PRESSURE INDICATOR & WARNING WHISTLE

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 anti-static 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 waist belt.

| PRESSURE INDICATOR & WARNING WHISTLE | |
|---|-------------------------------|
| Bourdon tube dial indicator | |
| Heat & impact resistant Polycarbonate Lens | |
| 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 |

WEIGHTS

| WEIGHTS/DIMENSIONS | |
|------------------------------|--------|
| 10 minute Bag Version | |
| Weight | 4.2 kg |
| Length | 450 mm |
| Width | 210 mm |
| Depth | 210 mm |
| 15 minute Bag Version | |
| Weight | 5.3 kg |
| Length | 450 mm |
| Width | 210 mm |
| Depth | 210 mm |

PACKAGING SPECIFICATIONS

| PRODUCT | DIMENSIONS | WEIGHTS |
|-----------------------|-------------------|----------------|
| 10 minute bag version | 56 x 21 x 18 cm | 6.0 kg |
| 15 minute bag version | 56 x 21 x 18 cm | 6.5 kg |

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APPROVAL INFORMATION

The ELSA Muster by Scott Safety is certified to AS/NZS 1716:2012.

The ELSA Muster is also CE marked in accordance with EN1146 with EC/686/86.

The ELSA Muster is also Lloyd's Marine approved (MED Shipswheel).

ORDERING INFORMATION

| PART NUMBER | DESCRIPTION |
|--------------------|---|
| 2009643 | ELSA Muster 10 minute escape set with cylinder & positive pressure HiVis flame retardant hood |
| 2009642 | ELSA Muster 15 minute escape set with cylinder & positive pressure Black Neoprene hood with net harness |

MAINTENANCE/CLEANING

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.

STORAGE

The apparatus must be stored in a clean dry environment away from direct heat and sunlight. Storage temperature should not exceed -10°C to +40°C.

DISPOSAL

Decontaminated equipment should be dismantled and disposed of as solid waste. Empty cylinders should be treated as special waste and disposed of according to local and state guidelines.