

# ELSA - MUSTER



*The Sabre ELSA Muster is an open circuit, positive pressure airline breathing apparatus generally comprising; Anti-static bag, high pressure reducing valve, automatic positive pressure demand valve and coupling for airline supply hose.*

*The apparatus is supplied with either a Panaseal positive pressure facemask or with a positive pressure hood.*

## Key Features

- *Maximum level of respiratory protection*
- *Ancillary air in for enhanced safety*
- *Available in hooded and facemask versions*
- *High performance reducer*
- *Easy to maintain, low through life costs*
- *Low training requirement*
- *Automatic activation*
- *10 & 15 minute options available*
- *Variety of couplings for wide range of airline systems*



# Emergency Life Support Apparatus

# SPECIFICATION

## 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, Brass, Polycarbonate Lens
HP Pressure Gauge Cover	Neoprene
MP Air Supply Hose Fittings	Nickel Plated Brass
Facemask	Neoprene
Facemask visor	Polycarbonate
MP Air Supply Hose	Chlorinated Polyethylene, fabric braid reinforcement, nitrile liner
Carrying Bag	Anti-static Flame retardant PVC Coated Nylon
Valve Handwheel	Glass filled polyamide
Strap Buckles	Stainless steel
Cylinder	10 Min:- Alloy Steel 15 Min:- Alloy Steel
Cylinder Valve	Nickel plated brass
Demand Valve Casing	Glass filled polyacetal and polyamide

## Weight

ELSA Muster 10  
ELSA Muster 15

## Packing specification

ELSA Muster 10  
ELSA Muster 15

## Approvals

EN402 Self rescue self contained open circuit breathing apparatus



## Major Components ELSA Muster

### Tempest Demand Valve

Compact positive pressure demand valve featuring servo-assisted, tilting diaphragm mechanism with low inspiratory resistance and responsive dynamic performance and automatic first breath actuation. Components injection moulded from polyamide and acetal with rubber seals and diaphragms.

Peak flow performance:-	in excess of 500 litres/minute
Bypass flow :-	150 litres/minute nominal
Static positive pressure:-	1.8 - 3.5 mbar

### Combined Cylinder and 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 for standard product M18 x 1.5mm parallel

The first stage pressure reducer features a non-adjustable, spring loaded piston mechanism and outlet supply protected by an integral pressure relief valve.

Valve body and cap manufactured from nickel plated brass with stainless steel spring and hose retainer U-clips. The pressure reducer will accept inlet pressures of 300 bar, however 10 and 15 minute sets use 200 bar cylinders.

A medium pressure hose leads from the reducer ending in a CEN male fitting which can be connected to an emergency air supply.

Outlet pressure	
207 bar inlet:-	5.5 to 9.5 bar
300 bar inlet:-	6.0 to 11.0 bar
Pressure relief valve protected:-	11.5 bar
Flow restrictor to gauge	<25 litres minute

### Airline connection

The airline coupling is a male CEN type and is mounted on a swivelled pigtail assembly. It also incorporates a non-return valve so air from an attached cylinder can not escape when the apparatus is detached from the airline supply.

### Hoses

Stainless steel swivel hose fittings	
Medium pressure hose	
Maximum working pressure	16 bar

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**SABRE**

Customer Services  
Scott Health & Safety Ltd  
Pimbo Road, West Pimbo, Skelmersdale  
Lancashire, WN8 9RA, England  
Tel:+44 (0) 1695 711711  
Fax:+44 (0) 1695 711772  
Email:scottint.uk@tycoint.com  
www.scottint.com