

# ELSA SPRINT - MUSTER

Emergency Life Support Apparatus.

## Introduction

For situations where the escape route may require a lot of physical exertion, United Safety uses the Sabre ELSA Sprint, a positive pressure escape set that provides air with the maximum level of protection.

## Key Feature

- Cylinder valve made from lightweight aluminium alloy with anodised protective coating.
- To activate, the user only has to release a pin attached to the bag via a strap.
- Pressure gauge and burst disc incorporated into valve.
- Flame retardant and coloured for high visibility.
- Stretch material for a comfortable fit combined with an elastomeric neck seal.
- Mask has an exhale valve for increased performance, reduces rebreathed CO2 levels.
- Carrying bag is flame retardant and chemical splash resistant.
- Available in durations of 10 or 15 minutes.

## Key Benefits

- Can easily be worn across the chest, as a bandolier or worn with an optional waistbelt.
- Optional black anti-static polyurethane material for use in potentially explosive atmospheres.
- Valve has a DIN type outlet for connection to the cylinder connector and for simple charging.
- Handwheel allows manual or automatic quick-fire activation.
- Specifically designed for Marine or Industrial Escape settings only.



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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	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	
Demand Valve Casing	Glass filled polyacetal and polyamide		
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.	
		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	Maximum working pressure	16 bar