MRS TRAINING & RESCUE
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Technical Specification

Cen-Paq Self Contained Breathing Apparatus

Description

The Cen-Paq is an open circuit, self-contained, compressed air breathing apparatus. It consists of a Hi-Vis jacket based carrying system and pneumatic system, containing a cylinder connector, reducer, pressure gauge, whistles and demand valve.

The Cen-Paq is a single cylinder set with a duration of 15, 20 or 30 minutes.

The Cen-Paq can also be configured with an anti-static jacket and an airline attachment.
It is used in conjunction with a range of composite or steel cylinders and the choice of Vision 3, Panaseal, Panavisor or Promask PP facemask.

Applications

The Cen-Paq was specifically designed as a snatch rescue SCBA, but is also suitable for work in the Oil and Gas industry and providing respiratory protection in any IDLH environment.

Approvals

CE marked in accordance with EN137:1998
CE marked in accordance with EN139 – sets fitted with CEN airline attachments
AS1716

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, 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
HP Air Hose	PTCFE liner, stainless steel braiding, Estane sleeve
Valve Handwheel (Sabre Cyls)	Glass filled Polyamide
Harness/Jacket	Flame retardant PVC coated Nylon, Closed cell polyethylene, polyester material
Straps	Flame retardant polyester webbing
Strap Buckles	Velcro and polyamide
Cylinder	Steel or Composite
Cylinder Valve	Nickel Plated Brass
Demand Valve Casing	Glass filled Polyacetal and Polyamide

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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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

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 minute

Pressure Indicator & Warning Whistle

Bourdon tube type dial indicator	
Heat and impact resistant Polycarbonate lens	5.5 to 9.5 bar
Safety blow-out vent in rear of gauge	6.0 to 11.0 bar
Accuracy	+/- 10 bar between 40-300 bar

Hoses

Stainless Steel swivel hose fittings	
Medium Pressure Hose - max working pressure	16 bar
Medium Pressure Hose - main working pressure	80 bar
High Pressure hose - max working pressure	450 bar
High Pressure hose - max working pressure	800 bar

Weight/ Dimensions

Single configuration (less cylinder)	2.8kg
Cen-Paq 15 with cylinder	7.5kg
Cen-Paq 20 with cylinder	8.5kg
Cen-Paq 30 with cylinder	8.0kg
Length / Width	600mm / 278mm

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