

3M™ FLITE COV – Supplied Air Respirator

Description

The 3M™ FLITE COV is an open circuit, positive pressure airline breathing apparatus generally comprising; bandolier harness, positive pressure airline apparatus consisting of automatic positive pressure demand valve; supply hose and coupling for airline supply hose.

An additional coupling allows the connection of an emergency air supply cylinder with automatic change over valve which provides an independent air supply with a duration of 10 or 15 minutes, depending on cylinder size.

The apparatus can be used with the full range of AS/NZS1716 compliant 3M™ positive pressure facemasks even when used as an escape only apparatus.

Applications

The FLITE COV is specifically designed as an airline working set and with its optional hip mounted cylinder as an airline escape set. It has many applications but is particularly suited to confined space entry and the oil and gas industry. It is also suitable for providing respiratory protection in any IDLH environment.

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.

Operation

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

The escape cylinder utilises a locking hand wheel to remain in the open position and eliminate inadvertent shutting. If airline delivery pressure is reduced by an interruption of the main supply the automatic change over valve switches the unit to cylinder air for safe egress. When there is a switch over to cylinder air the user is alerted via activation of a whistle.

Standards

CE marked in accordance with EN14593-1:2005.
CE marked in accordance with EN402:2003 when fitted with an escape cylinder.
AS/NZ 1716:2012



Specifications

Component	Material
Pressure Reducing Valve	Nickel Plated Brass
Rust Tube (3M™ Cyls)	Brass
Reducing Valve Seat	Polyamide (Nylon)
O-Rings	Nitrile, Silicone, EPDM
Reducing Valve Springs	Stainless Steel
Change Over Valve	Nickel Plated Brass, 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	DV - EPDM Cover, fabric braid reinforcement, EPDM liner Pigtail - Chlorinated Polyethylene, fabric braid reinforcement, Nitrile liner
Cylinder bag	Flame retardant PVC Coated Nylon / Polyester
Valve Handwheel	Glass filled Polyamide
Harness	Flame retardant polyester
Strap buckles	Stainless Steel
Harness Padding	Closed cell Polyethylene foam
Cylinder	Steel or Composite
Cylinder	Valve Nickel Plated Brass
Demand Valve	Casing Glass filled Polyacetal and Polyamide



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3M™ FLITE COV Supplied Air Respirator

FLITE COV is a positive pressure Supplied Air Respirator that also provides emergency respiratory protection and escape capability allowing the user to enter hazardous atmospheres including those identified as immediately dangerous to life or health (IDLH).

If needed, the switch to the emergency air supply cylinder is accomplished by an automatic change over valve greatly simplifying response to a stressful situation.

The unit also features a flame retardant polyester harness with stainless steel buckles, combined cylinder and pressure reducing valve assembly and a rugged mask-mounted demand valve with automatic first breath activation.

The FLITE COV is versatile and can be used in applications like confined space entry, hazardous materials handling and any number of general maintenance tasks in a wide variety of industries including chemical, petrochemical, oil & gas and public utilities.



Product Highlights

In the event of an interruption of air flow from the primary supply source switchover to emergency cylinder air supply is immediately activated by the automatic change over valve to facilitate safe egress. Warning whistle informs user switch has been made to cylinder air.

- Combined cylinder and pressure reducing valve features a locking hand wheel that remains locked in the open position against inadvertent shutting and a pressure gauge
- Compressed air steel cylinders are provided in 10 and 15 minute durations with a 10 minute superlight carbon composite version also offered
- CEJN type coupling as standard; other connections available.
- Features the time-proven Scott Tempest Demand Valve with low inspiratory resistance, automatic first breath activation and responsive dynamic performance
- The unit is comfortable and extremely simple to operate and maintain
- The FLITE COV meets all requirements and is certified to current EN 14593-1:2005 and EN 402:2003 standards (AS/NZS1716:2012)

Related Products



Modulair Airline Trolley



Vision 3 Face Mask



Promask Face Mask



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 and Acetyl 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

Combined Cylinder & 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 locking handwheel, a low profile pressure gauge and burst disc assembly incorporated into the valve.

Neck thread for standard steel cylinders	M18 × 1.5mm parallel
Neck thread for composite cylinders	M18 × 1.5mm parallel
Optional neck thread available for conversions	0.715" BS 341 taper
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

Automatic Change Over Valve

The valve is manufactured from nickel plated brass with stainless steel spring and will automatically switch air supply to cylinder source if the main supply is interrupted. A whistle on the valve will sound continuously on cylinder air and silence when on line supply resumes.

Switch Over Pressure	6 bar (normal line pressure is 9 bar)
Warning whistle	90 dB

Hoses

Stainless Steel swivel hose fittings	
Medium Pressure Hose	
Maximum working pressure	16 bar
Minimum burst pressure	80 bar

Weight/ Dimensions

Flite (less cylinder)	1.9kg
Flite with 10 minute cylinder (3.5kg)	5.4kg
Flite with 15 minute cylinder (5.6kg)	7.5kg
Facemask (Approximate)	0.7kg

Ordering Information

Scott Code	3M Code	Description
2031077	XP100148376	Flite COV Airline Breathing Apparatus comprising Tempest DV, supply hose and pigtail with CEJN coupling, bandolier harness and facility to connect escape cylinder
	XP100148715	200 bar 10 minute charged steel cylinder complete with pouch and reducer/hose
	XP100148731	200 bar 15 minute charged steel cylinder complete with pouch and reducer/hose
1071671	XP100071271	Vision 3 Positive pressure Facemask, medium/large, left DV, rubber head harness
013190	XP100544202	Promask Positive Pressure Facemask, medium/large, left DV, rubber head harness

Spare Parts & Accessories

Scott Code	3M Code	Description
2031603	XP100148822	Spare cylinder pouch CYL-FLITE-10
2031604	XP100148830	Spare cylinder pouch CYL-FLITE-15
2031605	XP100148848	Spare cylinder pouch CYL-FLITE-SL
2010722	XP100116761	Flite fast fill adaptor
1034745	XP100067089	084.059.01 Breathing apparatus log book Ind
1035996	XP100067428	089.386.00 Testkit and toolkit
1035997	XP100067436	089.386.01 Testkit Flite less Toolkit
1034008	XP100066958	074.293.00 Toolkit for Flite
2004229	XP100101664	018.008.99 Charg adaptor handwheel liner 207 bar
1017527	XP100058286	010.125.00 Flite storage/ carrying case

Important Notice

To the extent permitted by law, 3M shall not be liable for any loss or damage including any loss of business, loss of profits, or for any indirect, special, incidental or consequential loss or damage arising from reliance upon any information herein provided by 3M. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.



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