

MODULAIR 2



1035027 M
02.2020



Certified Product



AS/NZS 1716:2012
SMK1214
SAI GLOBAL

Important: Please Read Carefully and Fully Understand

Keep Instructions For Future Reference

This manual is for use by personnel trained in the use and care of compressed air breathing apparatus, and **MUST NOT** be used as a self-teaching guide by untrained users. Failure to understand or adhere to the **ModulAir 2** User Instructions may result in injury or death.

Scott Safety have taken great care to ensure that the information in this manual is accurate, complete and clear. However, **Training and Technical Support Services** will be pleased to clarify any points in the manual and answer questions on **Scott Safety** breathing apparatus.

The following warnings are in accordance with certifying authority requirements and apply to the use of breathing apparatus in general:

-  Ensure that the selection of the equipment to be used is sufficient for the tasks being undertaken and the hazards likely to be encountered. For guidance on the selection of apparatus to be used with the **ModulAir 2** system, please contact **Training & Technical Support Services** at **Scott Safety** or refer to EN 529 : 2005 and the Health and Safety Executive Publication HS(G)53 Respiratory Protective Equipment, A Practical Guide for Users.
-  In Australia and New Zealand, ensure that your selection of respiratory protective devices conform to the requirements of AS/NZS1715 : 2009.
-  Anti-static supply hoses **MUST** be used in potentially flammable or explosive atmospheres.
-  The storage temperature should be between -30°C and +60°C.
The equipment is designed for use in a temperature range of -6°C to +60°C. However, if used with an AFU the operating temperature must be that of the AFU, between +1.5°C and +30°C.
-  When the equipment is in use, a competent person **MUST** remain with the supply system at all times to act as base controller and monitor the air supply. Under no circumstances must the equipment be left unmanned when wearers are being supplied from the unit.
-  To ensure optimum equipment performance, carry out the tests and service procedures detailed in this Manual under Servicing and Scheduled Maintenance.
-  Apparatus that fails a routine check must be withdrawn from service, an explanatory note attached and the unit returned for repair.

DISCLAIMER

Failure to comply with these instructions or misuse of the apparatus may result in: death, injury or material damage, and invalidate any warranty or insurance claims.

COPYRIGHT

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INTRODUCTION

These products meet the requirements of European Regulation (EU) 2016/425 and applicable local legislation. The applicable European/local legislation and Notified Body can be determined by reviewing the Certificate(s) and Declaration(s) of Conformity at www.3m.com/Respiratory/certs.

CE: European conformity - These products are type approved and annually audited by either BSI Group, The Netherlands B.V. Say Building, John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands, Notified Body No. 2797 and / or BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, UK, Notified Body No. 0086.

ABBREVIATIONS

The following abbreviations are used in this manual:

AFU	Air Filter Unit
DS4	Low Pressure Alarm
DV	Demand Valve
m	Metres
mg	Milligrams
min	Minute
mm	Millimetres
NRV	Non Return Valve
PRV	Pressure Relief Valve
psi	Pounds per Square Inch

BREATHABLE AIR

Breathable Air may be natural or synthetic. Table 1 shows the composition of natural air.

Component	Mass % (Dry Air)	Volume% (Dry Air)
Oxygen	23.14	20.95
Nitrogen	75.52	78.08
Argon	1.288	0.934
Carbon Dioxide	0.048	0.031
Hydrogen	0.000003	0.00005
Helium	0.000073	0.00052
Neon	0.0012	0.00018
Krypton	0.00033	0.00011
Xenon	0,000 04	0,000 009

Table 1: Breathable Air - EN 12021 (NOT applicable for Australia or New Zealand)

Fire risk increases when the oxygen content is above the value shown in Table 1.

The quality of air used to supply and charge breathing apparatus must conform to EN 12021 : 2014 or AS/NZS1715 : 2009.

Contaminants must be kept to a minimum, and must not exceed permissible exposure levels.

Where air-purifying devices are used, these must be sufficient for the types of contaminant present in the air supply.

Air supplied from a fixed or portable external source must be tested periodically to ensure conformance with these regulations.

Air supplied to breathing apparatus must be free from the odour of oil. The odour threshold is in the region of 0.3 mg/m³.

The water content of air used to charge high-pressure compressed-air cylinders must not exceed 30 mg/m³ for 300 bar or 50 mg/m³ for 200 bar apparatus.

Air for compressed-air breathing apparatus must have a dew-point sufficiently low to prevent internal freezing when apparatus is used below 4°C.

National regulations for compressed airline breathing apparatus must be observed.

AIRLINE AIR SUPPLY

Air for use with compressed-air airlines must conform to EN 12021:2014 or AS/NZS1715 : 2009 and must have a dewpoint sufficiently low to prevent internal freezing when the apparatus is used in temperatures below 4oC.

ModulAir 2 is approved for use with a maximum hose length of 105 metres.

APPARATUS DURATION

Durations quoted for compressed-air cylinders are nominal and based on an average consumption rate of 40 litres per minute to positive-pressure breathing apparatus. Table 3 lists the cylinders approved for use with **ModulAir 2**.

Consumption rates are increased by the following factors:

Workload.

Temperature: extreme heat or cold.

Physical fitness: personnel, with less efficient cardiovascular systems, consume more air for a given work rate.

Stress and fatigue.

Physiological stress.

Heavy/restrictive clothing.

It is important that users are aware of these factors when considering the duration of air supply from cylinders, and ensure that adequate precautions are taken.

TRAINING

Personnel using this apparatus must be fully-trained in accordance with these instructions and national regulations.

These instructions cannot replace an accredited training course run by fully qualified instructors in the proper and safe use of **Scott Safety** breathing apparatus.

Please contact **Training and Technical Support Services** or your distributor for training course details.

Training and Technical Support Services:

Scott Safety

Pimbo Road, West Pimbo,
Skelmersdale, Lancashire,
WN8 9RA, England.

Tel: +44 (0) 1695 711711

Fax: +44 (0) 1695 711775

SERVICING

ModulAir 2 must be serviced at scheduled intervals by personnel who have completed a formal training course and

hold a current certificate for the servicing and repair of **Scott Safety** breathing apparatus. Details of the servicing schedule are contained in the **ModulAir 2** Service Manual, copies of which can only be obtained by registered holders of a current certificate.

Training and Technical Support Services at **Scott Safety** provide a complete mobile test and maintenance service for all **Scott Safety** equipment.

Further details of training courses and servicing contracts can be obtained from **Training and Technical Support Services**.

SPARE PARTS AND ACCESSORIES

Customer Services provide an efficient, friendly, customer contact point for ordering new apparatus, spare parts and accessories. The team can also provide general information on **Scott Safety** products.

TECHNICAL DESCRIPTION GENERAL



ModulAir 2, Two-cylinder Trolley

The **ModulAir 2** apparatus is a portable airline system which can supply medium-pressure breathable quality air to up-to four airline breathing apparatus with demand valves.

ModulAir 2 units are approved for use with a total hose length of up-to 105 metres. Apparatus with two reducers is approved for use with two total hose

lengths of 105 metres, where each length is supplied from a reducer.

ModulAir 2 units are approved for use with all **Scott Safety** compressed-air airline breathing apparatus fitted with demand valves.

The following configurations of **ModulAir 2** are available:

Static frame fitted with pneumatics and space for two compressed-air cylinders.

Static frame fitted with pneumatics and space for four compressed-air cylinders.

Trolley-based system with 2 or 4 cylinder frame, pneumatics and a hose reel capable of holding 60 metres of hose.

Trolley system with cylinders, pneumatics and a hose reel, that can be supplied from an external medium-pressure breathable air supply.

Options for use with trolley-based versions include:

A medium-pressure warning whistle;

An Air Filter Unit (AFU);

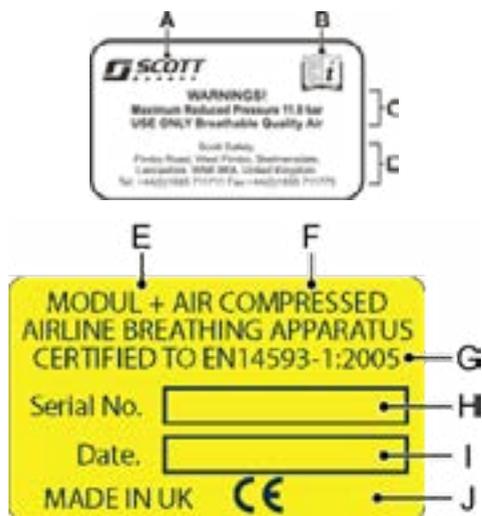
An electronic low-pressure warning alarm (DS4).

The **ModulAir 2** tubular stainless steel frame can house either two or four compressed-air cylinders (version dependent) with a diameter of between 140 mm (5.5") and 180 mm (7"). Cylinders are secured by steel cylinder bands and butterfly catches.

ModulAir 2 is CE marked to EN 14593-1:2005 (Respiratory Protective Devices - Compressed Airline Breathing Apparatus) and is quality-assurance approved to: ISO 9001 : 2015.

ModulAir 2 is approved to Australian/New Zealand Standard AS/NZS1716 : 2012.

ModulAir 2 is marked in accordance with EN 14593-1:2005 and AS/NZS1716 : 2012. An explanation of those markings is shown opposite:



Key	Meaning
A=	Product brand name
B=	Symbol - refer to User Instructions
C=	Operational warnings
D=	Contact details of manufacturer
E=	Product model/designation
F=	Apparatus description
G=	Standards to which apparatus is certified
H=	Serial number of apparatus
I=	Date of manufacture
J=	Number of Approval Body

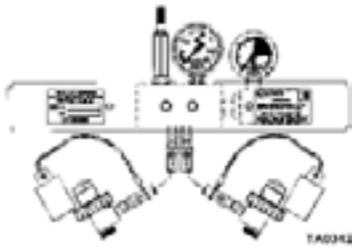
PNEUMATICS

The pneumatics system comprises cylinder connectors and reducer.

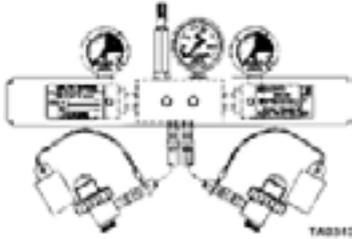
Air flows from the cylinders, through the cylinder connectors to the reducer where it is reduced to between 5.5 and 11 bar.

Each cylinder connector has a non-return valve that prevents air from a charged cylinder flowing into a discharged cylinder and allows discharged cylinders to be replaced while the system is pressurised. A bleed screw in the connector elbow enables the cylinder connector to be depressurised prior to disconnection.

A sintered filter in the cylinder connector protects the pneumatic system from contamination.



Pneumatics for a single reducer system



Pneumatics for a dual reducer system

Systems designed to supply 4 wearers are provided with 2 pressure-reducers to ensure sufficient flow-rate. The reducers are connected to a common high-pressure manifold.

The high-pressure manifold has ports that can accommodate:

- Outlets for up-to two pressure reducers;
- Inlets for up-to four cylinder connectors;
- An outlet for a high-pressure warning whistle;
- An outlet for a high-pressure gauge.

Systems that do not use all ports have blanking plugs fitted to unused ports.

Medium-pressure air is output by the reducer, either directly to wearer supply airlines, or, on hose reel versions, to a manifold on the hose reel hub.

The high-pressure warning whistle sounds when pressure in the on-line cylinder falls below 55 bar.

PRESSURE REDUCER

The pressure reducer is a single stage spring and piston device with an internal pressure relief valve that protects the medium-pressure system from over-pressurisation.

There are ports in the reducer which accommodate:

- An outlet to the medium-pressure gauge;
- A medium-pressure outlet to the wearers;
- The medium-pressure inlet from an external supply or an AFU (optional);
- An outlet to the medium-pressure warning whistle (optional).

Air from the cylinder flows through the high-pressure manifold, enters the reducer through a jet and flows through the hollow piston stem to a chamber above the piston. As pressure in the chamber rises, the piston is forced down against the spring until the nylon seat at the lower end of the piston stem closes the jet.

When medium-pressure air flows from the reducer to the wearers, the pressure in the chamber falls enabling the spring to lift the piston seat from the jet. This cycle continues while there is sufficient air in the cylinder.

The medium-pressure gauge has a restrictor that limits air-loss to 25 litres per minute in the event of the gauge becoming damaged.

HOSE REEL

The hose reel is fitted with 60 metres of 9.5 mm (3/8”) bore airline supply hose. The hose conforms to EN 14593-1:2005 and AS/NZS1716 : 2012; and has a maximum working pressure of 15 bar (220psi). Hoses are fitted with CEJN safety couplings.

The hose reel manifold can accommodate up-to two medium-pressure hoses, each from a pressure reducer; and a medium-pressure warning whistle.

A rotatable CEJN coupling in the hub allows the hose reel to turn without loss of air.

The CEJN parking connector at the top of the hose reel frame is designed to vent any pressure from the medium-pressure circuit.

Anti-static hoses (which are resistant to heat and chemicals) must be used in environments where there is danger from potentially explosive or flammable atmospheres.

MEDIUM-PRESSURE ALARM OPTIONS

Whistle

The medium-pressure whistle sounds when the medium-pressure circuit falls below between 4.1 bar (60psi) and 3.8 bar (55psi).

DS4 Alarm

The DS4 alarm is a battery-operated electronic warning device which is ATEX-approved as intrinsically safe for use in flammable or explosive atmospheres.



DS4 Alarm

The DS4 is powered by a PP3 9-volt alkaline battery, which must be renewed periodically. A yellow light will illuminate to advise the operator when the battery level is low.

The DS4 unit is switched on and off by a key-operated switch which is located on the side of the unit, close to the warning lights.

When the DS4 is initially switched on, a red warning light will illuminate and the audible alarm will sound until pressure in the system reaches the safe level. Once the safe pressure level is reached, the audible alarm will cancel automatically, the red light will extinguish and a green light will illuminate.

During use, if the medium-pressure circuit

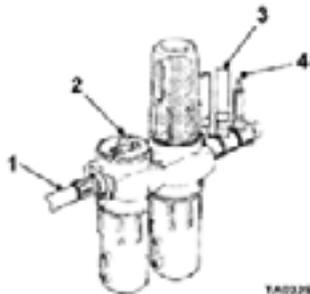
falls to below 4.5 bar (65psi), the operator is alerted by the illumination of the red warning light and the sounding of the audible alarm. Under 'normal' conditions, (while the pressure is at a safe level), a green light is illuminated.

EXTERNAL AIR SUPPLY

WARNING: On **ModulAir 2** versions designed to operate with an external supply airline, the airline may be connected directly to a pressure-reducer or to an airline filter unit provided.

External air supplies must conform to EN 12021 : 2014 or AS/NZS1715 : 2009. Pressure must be between 6.0 and 9.0 bar (84 and 126psi) and capable of providing the flow-rates listed in Table 2.

AIRLINE FILTER UNIT



Airline Filter Unit (AFU)

1	External Air Supply Inlet
2	Pop-up Indicator
3	Outlet Hoses
4	Warning Whistle

WARNING: The AFU WILL NOT remove carbon monoxide (CO), carbon dioxide (CO₂), or other toxic gases or vapours.

The AFU MUST be operated in the vertical position.

The operating temperature must be between +1.5°C and +30°C.

For further details, please refer to AFU User Instruction Manual.

The AFU has three filter elements.

Two coalescing filter elements remove oil, water, and particles down to 0.01×10^{-6} metres, giving a residual oil content of less than 0.01 mg/m³ dirt.

The third element is an activated carbon absorption filter that removes oil vapour and odours.

Before use, the external air supply **MUST** be checked for purity and composition (see Breathable Air in the Introduction section of this Manual). Where toxic gases or vapours are present, an air purifier must be used. Further details are available from **Customer Services** at **Scott Safety**.

Auto-drain valves fitted to each element, drain water and oil filtered from the air. The third element (an absorption bed of activated carbon) removes oil vapour and odours.

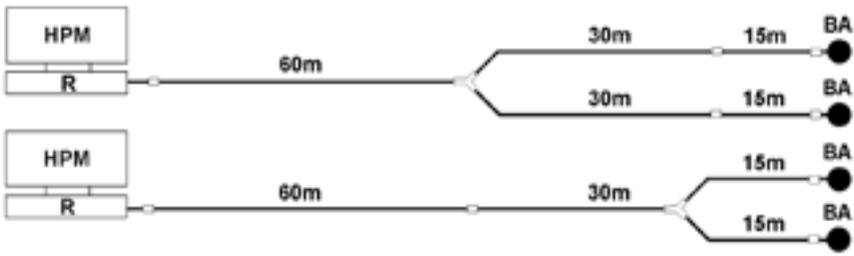
Elements must be renewed when congested. A red pop-up indicator on AFU is activated when the pressure drop in the AFU, caused by congestion, becomes excessive.

HOSE CONFIGURATIONS

Although the hose reel holds only 60 metres of hose, the maximum hose length for which **ModulAir 2** is approved is 105 metres. The total length is achieved by connecting several hoses of different lengths. The following diagrams show configurations that have been tested and approved by **Scott Safety**.

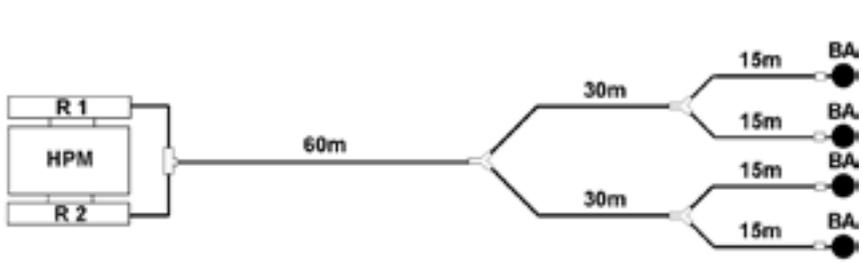
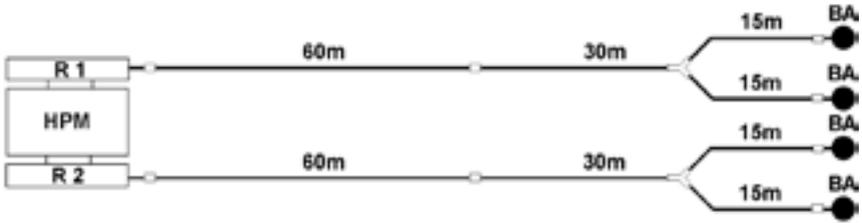
Configurations that result in a total length of less than 105 metres are permissible.

If the maximum hose length configurations in the following diagrams do not meet your requirements, please contact **Training and Technical Support Services** at **Scott Safety** for advice on alternative configurations.



TA0340

Maximum hose length configuration for a 2-man ModulAir 2



TA0341

Maximum hose length configuration for a 4-man ModulAir 2

- Key:
- HPM = High-pressure Manifold
 - R = Reducer
 - BA = Breathing Apparatus

CYLINDERS

Table 3 shows the cylinder types approved for use with **ModulAir 2**. All durations quoted are nominal and based on an average consumption rate of 40 litres per minute. (Composite cylinders may vary in diameter which may affect the cylinder band positions, as would the fitting of cylinder covers. The positions given are for guidance only). Table 4 contains details of the cylinder specifications.

Cylinder	Water volume (litres)	Charging pressure (bar)	Free air capacity (litres)	Charged weight (kg)	Total duration (min)	Warning period (min)	Nominal duration (min)	Cylinder Band position
CYL-1200	6,0	200	1200	8,8	30	8	22	3
CYL-FWC-1300	4,7	300	1300	5,0	32	7	25	4
CYL-1640	6,0	300	1640	5,0	32	7	33	4
CYL-FWC-1640	6,0	300	1640	5,8	41	8	33	7
CYL-1800	9,0	200	1800	13,0	45	12	33	14
CYL-FWC-1800	9,0	200	1800	6,75	45	12	33	14
CYL-FWC-1860	6,8	300	1860	6,75	46	9	37	7
CYL-FWC-2460	9,0	300	2460	8,8	62	12	50	14

Table 3: Cylinders approved for use with ModulAir 2

Code	Material	Specification
No Code	Steel (i.e. CYL-1200)	CE Marked (EU) Work Cover (Australia & New Zealand)
FWC	Composite cylinder (i.e. CYL-FWC-1300)	CE Marked (EU) Work Cover (Australia & New Zealand)

Table 4: Cylinder Codes and Specifications

The following formula apply:

$$\text{Total Duration} = \frac{\text{Cylinder Free Air Capacity}}{\text{Average Wearer Consumption Rate}}$$

$$\text{Nominal Duration} = \text{Total Duration minus the Warning Period}$$

$$\text{Warning Period} = \frac{\text{Whistle Operating Pressure} \times \text{Cylinder Water Capacity}}{\text{Average Wearer Consumption Rate}}$$

$$\text{High-pressure whistle operating pressure} = 55 \text{ bar}$$

Please read Section Apparatus Duration at the front of this manual.

PREPARATION FOR USE

WARNING: Keep the AFU upright during operation. Tilting the AFU may result in filtered-out material re-entering the air supply.

DO NOT use apparatus that fails any of the following tests. Withdraw the unit from service, attach an explanatory note and return for servicing.

INITIAL CHECKS - (AIRLINE SYSTEM)

1. Check that the apparatus is clean and free from damage.
2. Check that the apparatus is complete, that the cylinders are fully-charged and that the cylinder valves and bleed screws are closed (fully clockwise).



3. Check that the AFU sight-glasses are clean and dry. If required, follow the instructions given in the AFU User Manual to clean them.
4. Check that the external air supply is pressurised and that the quality of air conforms to the requirements detailed in Section Breathable Air of this Manual.

DS4 ALARM

WARNING: The sound emitted by the DS4 alarm is VERY loud. Warn others before activating the alarm.



1. Activate the DS4 alarm by inserting the key into the switch and turning the key in a clockwise direction.
2. Confirm that the red warning light illuminates and the audible alarm sounds.
3. Connect **ModulAir 2** to the external air supply.
4. Once the safe pressure level is reached, confirm that the DS4 resets from the alarm condition; (i.e. the audible alarm ceases, the red light extinguishes and the green light illuminates).
5. Ensure that the yellow light IS NOT illuminated. If the yellow light illuminates, the battery level is low and battery replacement is required.

WARNING: DO NOT use the equipment if the yellow (low battery level) warning light is illuminated.

DO NOT remove the DS4 battery compartment cover in a potentially explosive or flammable atmosphere.

AIR FILTER UNIT



1. Check that the AFU pop-up indicator is GREEN and that the medium-pressure gauge needle is in the green sector.
2. Listen for audible leaks from the unit.
3. Follow the instructions given in the breathing apparatus User Manual and connect the breathing apparatus pigtail and facemask(s) to the airline hose(s). Pull the connections firmly to ensure that they are secure.
4. On ALL breathing apparatus connected, turn the DV bypass valve(s) to the 'ON' position. With air free-flowing from the DV(s), check that the medium-pressure gauge stays in the green sector and that the DS4 does not alarm.
5. Turn the DV bypass valve(s) to the 'OFF' position and check that air no longer flows from the DV(s).
6. Perform all pre-use checks detailed in the User Manual of the breathing apparatus to be used with **ModulAir 2**.

INITIAL CHECKS - (CYLINDER SYSTEM)

1. Check that the cylinder connector(s) is/are connected to the cylinder valve(s) and that all bleed screws are closed.
2. Open the bleed screw OPPOSITE the cylinder to be tested.
3. Open the cylinder valve to be tested

and check that the high-pressure gauge shows at least 80% full.

WARNING: Replace cylinders that are less than 80% full.

4. Check to ensure that there are no leaks from the open bleed screw.
5. Allow 30 seconds for the system to pressurise. Close the cylinder valve and bleed screw.
6. Observe the high-pressure gauge and check that pressure loss is less than 10 bar per minute. A drop of more than 10 bar per minute indicates that there is a leak.
7. Use the DV bypass valve to bleed the system. Check that the warning whistle sounds when the high-pressure gauge reads between 50 and 60 bar.
8. Repeat operations 1 to 6 for each of the remaining cylinders in turn.

Note: Ensure that air is drained through the DV bypass valve before commencing tests on next cylinder.

9. Open one cylinder valve fully.
10. On ALL breathing apparatus connected, turn the DV bypass valve(s) to the 'ON' position. With air free-flowing from the DV(s), check that the medium-pressure gauge stays in the green sector and that the medium-pressure whistle does not alarm.
11. Turn the DV bypass valve(s) to the 'OFF' position and check that air no longer flows from the DV(s).
12. Follow the instructions in the breathing apparatus User Manual to check the facemask, DV and pigtail.

HOSES

1. Examine all hoses for signs of damage such as splits, abrasions and deep crazing (minor crazing is acceptable).
2. Examine all couplings for signs of damage and ensure that all connections are securely made.

WARNING: DO NOT use hoses or couplings that exhibit signs of damage.

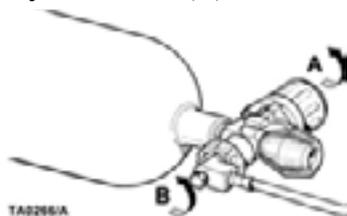
CHANGING A CYLINDER

WARNING: DO NOT mix cylinders of different charging pressures when using the equipment. Fit only FULLY-CHARGED cylinders.

When a cylinder is changed while the apparatus is in use, ensure that an adequate supply of air is available in the on-line cylinder for breathing apparatus wearers.

To prevent possible equipment failure, DO NOT charge the pneumatic system utilising more than one cylinder or operate the **ModulAir 2** system with more than one cylinder valve open.

1. On the empty cylinder, release the hand-wheel locking catch and close the cylinder valve (A).

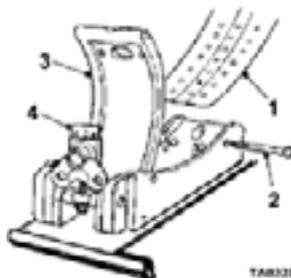


2. Open bleed screw (B) to vent the cylinder connector. Close the bleed screw and disconnect the cylinder connector from the cylinder.
3. With the frame in a horizontal position, release the cylinder band catch and remove the cylinder.
4. If the replacement cylinder is of a different size, adjust the cylinder band accordingly (see Section Adjusting Cylinder Bands).
5. Slide the charged cylinder into the frame, ensuring that it is correctly located against the end of the frame.
6. Fit and securely tighten the cylinder connector.
7. Position the cylinder band around the cylinder and secure by turning the butterfly catch 90° clockwise

and folding the catch flat. (Minor adjustments can be made using the cam-lock fastener: turn clockwise to tighten and anti-clockwise to loosen).

8. On the replacement cylinder, open the cylinder valve the close the on-line cylinder valve. Check that the high-pressure gauge reading is at least 80% full.

ADJUSTING CYLINDER BANDS



1. Cylinder Band
 2. Retaining Screw
 3. Cradle Flap
 4. Locking Catch
1. Use a 4mm Allen Key to remove the cylinder band retaining screw and release the cylinder band.
 2. Re-position the cylinder band according to the hole-positions given in Table 3. Replace the retaining screw and tighten securely.



3. Position the cylinder in the frame and fasten the cylinder band butterfly catch.

CHANGING THE DS4 BATTERY

WARNING: DO NOT remove the DS4 battery compartment cover in a potentially explosive or flammable

atmosphere.

1. Remove the four screws that secure the battery compartment cover to the DS4 unit. Place battery compartment cover aside.
2. Withdraw the battery and holder from the battery compartment.
3. Remove the battery from the holder.
4. Replace the battery in the holder and refit into the battery compartment.
5. Replace the battery compartment cover and secure in position with the four screws. Tighten screws evenly, DO NOT over-tighten.

DURING USE

WARNING: When in use, a competent person MUST remain with the supply system at all times to act as base controller and monitor the air supply. Under NO circumstances must the equipment be left unmanned when wearers are being supplied from the unit.

EXTERNAL AIR SUPPLY WITH CYLINDER BACK-UP

If the low-pressure alarm sounds (DS4 or medium-pressure whistle), or if the medium-pressure gauge falls below 5 bar:

1. Fully open one cylinder valve.
2. Check that the high-pressure gauge reading is greater than 80% and that medium-pressure gauge is above 5 bar.
3. If required, disconnect the external air supply.

CYLINDER SUPPLY

If the high-pressure warning whistle sounds:

1. Open the next designated cylinder valve fully.
2. Close the cylinder valve and open the bleed screw on the empty cylinder.
3. Replace the empty cylinder.
4. Mark the empty cylinder accordingly and store separately from full cylinders.

AFTER USE

The following procedure covers all options available with **ModulAir 2** and covers the apparatus in general.

1. Close the cylinder valve and open the bleed screw on the active cylinder.



2. Switch off the DS4 unit by turning the key in a counter-clockwise direction.
3. Disconnect the external air supply.
4. Open the breathing apparatus bypass and vent air from the pneumatics.
5. Replace used cylinders with fully-charged cylinders.
6. Disconnect the breathing apparatus from the airline. Clean, test and inspect the breathing apparatus in accordance with the appropriate User Manual.
7. Examine hoses for damage or excess wear such as splits, kinks and abrasions. Replace damaged or worn hoses.
8. Examine all couplings for wear or damage and ensure that all connections are securely made. Replace items with worn or damaged connectors.
9. Rewind the airline hose onto the hose reel.



10. Connect the hose CEJN outlet to the parking connector on the hose reel. This prevents the hose unwinding and vents any pressure left in the medium-pressure circuit.



11. Firmly grasp and pull the winding handle knob away from the hose reel. Fold the knob against the handle.

CLEANING

CAUTION: Do not drop the hose ends onto the floor as this may damage the couplings.

1. Clean all parts of the apparatus with a mild soap and water solution, followed by a thorough rinse with clean water. Unwind the hose to ensure that all parts are cleaned.
2. Allow to dry away from direct heat. Dry the air-hose thoroughly prior to rewinding onto the reel.
3. Inspect all parts of the apparatus for damage and check the function of CEJN hose couplings.
4. Follow the cleaning instructions given in the breathing apparatus, DS4 and AFU User Manuals.

BREATHING APPARATUS LOG

A breathing apparatus Log must be maintained for each apparatus and must be retained for future reference.

A breathing apparatus Logbook, is available from **Scott Safety** (under Article Number 1034745) for this purpose.

The log must contain:

Name and address of the employer responsible for the apparatus.

Name and signature, or unique authentication, of the person conducting the tests.

Manufacturer, model and serial number of the equipment, together with details of any other distinguishing features or markings that enable it to be clearly identified.

Condition of equipment and details of any faults found during the tests, and any remedial action taken.

Types of test conducted.

Date of the tests.

Air pressure within the cylinders.

The length of time that the equipment was in use must be recorded (for AFU servicing requirements).

STORAGE AND TRANSPORTATION

The Device must be protected from damage during transportation.

OBSOLESCENCE

Refer to product marking and packaging.

SCHEDULED MAINTENANCE MONTHLY

1. The equipment must be checked and tested at monthly intervals in accordance with the After Use instructions contained in this Manual.
2. Details of these tests must be recorded within the appropriate register and retained for future reference.

Note: In the United Kingdom, monthly testing is a statutory requirement under COSHH (Control of Substances Hazardous to Health) regulations.

ANNUALLY

1. The equipment must be tested and serviced in accordance with the **ModulAir 2** Service Schedule, within a maximum period of one year.
2. Full details of servicing requirements can be found in the **ModulAir 2** Service Manual, which is available from **Training and Technical Support Services** at **Scott Safety** upon completion of a formal training course in maintenance of the apparatus.
3. In order to maintain correct functioning of the equipment, if it is subjected to excessive use, it may be necessary to test the equipment on a more frequent basis than that stipulated.



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