SPIROLINE AIRLINE BREATHING APPARATUS

YOUR SAFE SUPPLY OF BREATHING AIR





IT'S ALL ABOUT HIGH PERFORMANCE AIRLINE TECHNOLOGY

THE MODULAR CONCEPT OFFERS AN INDIVIDUALLY TAILORED SYSTEM

The Spiroline high performance breathing equipment system is designed for use in contaminated or toxic atmospheres. It is suitable for maintenance and rescue work in confined spaces, such as sewers, tanks, aircraft wing sections, and other areas where conventional breathing apparatus would make access difficult. Spiroline also provides a convenient way of carrying out the Fire Service and Chemical Disposal team's decontamination procedures as well as search and rescue operations.

The Spiroline system combines exceptional breathing protection with extended use. The flexible modular approach allows a system to be individually tailored.

The Spiroline offers a range of safe, reliable and thoroughly tested options which are CE certified in accordance with the Personal Protective Equipment directive (PPE) 89/686/EEC.

Spiroline is designed for use in contaminated or toxic atmospheres.

Spiroline can be configured to suit your line of work.



SPIROLINE HP (HIGH PRESSURE)

Spiroline HP is an innovative airline system that supplies high pressure all the way to the user. The air supply is a unique high pressure supply hose with a small diameter and a low weight. A 60 meter supply hose only weighs 5.3 kg and is extremely easy to handle. The hose dimension and weight makes it possible to have hose lengths of 120 meters. What's more, the smooth hose surface makes it ideal to clean and decontaminate.

The supply hose is available with a whistle that provides the user with a warning sound if the pressure in the air supply is disrupted.

The mobile and easy to use distribution panel is suitable for rapid deployment in remote locations.

It is used to dispense the air from air sources through the air supply hose to the user. It is equipped with two lightweight and easily operated adapter hoses that can be connected to two air sources. With a pressure gauge and whistle, the attendant is in control and ready to change the air source when necessary.

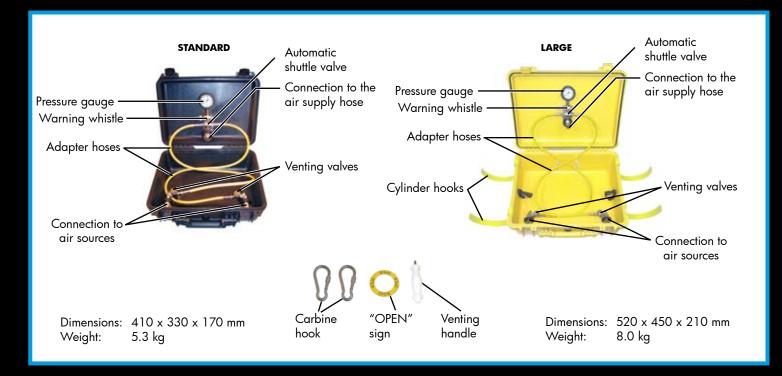
The distribution panel is available in two different versions. The smallest and lightest version is the black box. A larger yellow version is also available. The yellow box is suitable for storing two 10 meter air supply hoses and includes cylinder hooks to hold two single cylinders at the edges of the box.

DISTRIBUTION PANEL (DP1)

The highly mobile DP1 distribution panel comprises of an automatic shuttle valve, warning whistle, pressure gauge, adapter hoses and a connection to the air supply hose and air source. The connections to the air sources are suitable for both 200 and 300 bar.

The following accessories are included with the DP1:

- "OPEN" sign Used to identify the air source currently in use.
- Venting handle Used to vent the unit.
- Carbine hooks Used to secure the supply hose.



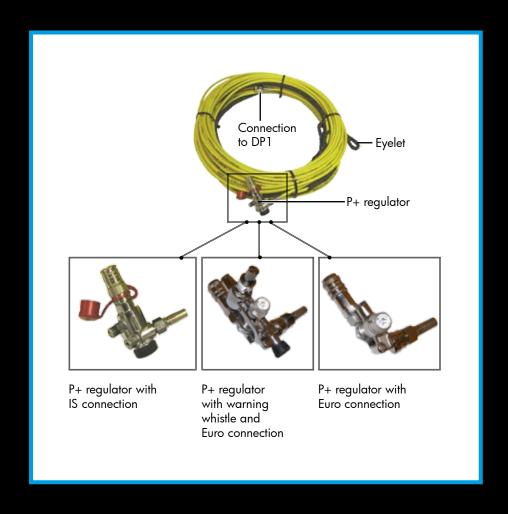
HP SUPPLY HOSE

The Spiroline HP system has been approved with an supply hose up to 120 meters in length.

The supply hose is secured to the user with a quick connection via a pressure regulator (P+regulator) and to the distribution panel with a coupling that is hand tightened. Versions with an IS quick connection on the P+ regulator have a locking ring to lock the connection to the manifold on the breathing apparatus or the Spiroline belt.

There are eyelets at each end of the supply hose for connection to lines or couplings that can take up tension.

Maximum working pressure is 300 bar. The hose has been tested to a burst pressure of 1200 bar and withstands a pull force of 2000 N. The cover of the hose is is oil resistant, smooth and ideal to clean and decontaminate.



SPIROLINE MP (MEDIUM PRESSURE)

Spiroline MP is an airline system that supplies medium pressure to the user.

A mobile and easy-to-handle TRS (Twin Regulator System) unit is used to distribute the air from air sources through the supply hose to the user.

With pressure gauges and warning whistles, the attendant is in control of the air sources and is ready to change the air source when necessary.

TRS UNIT

The TRS - Twin Regulator System - is a light and mobile unit that regulates and distributes breathing air from air sources to a supply hose. The two regulator units each include a high pressure gauge and a warning whistle each. The attendant always has total control of the situation. In addition, there is a medium pressure gauge indicating the pressure supplied to the supply hose.

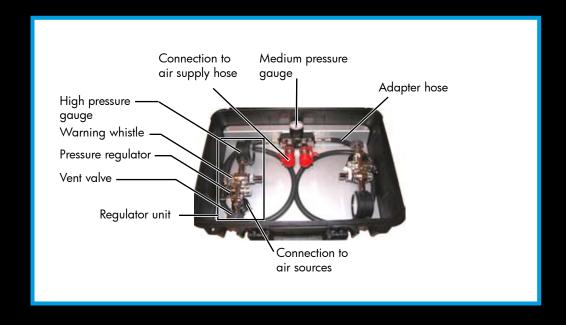
Easy-to-use quick connections, IS or Euro female, are available for connection to one or two supply hoses.

The connections to the air sources are suitable for both 200 and 300 bar and are fitted with vent valves to reduce the pressure.

The pressure in the air source currently in use can be read on the high pressure gauge.

When the air source pressure falls to 55 bar, the warning whistle is activated and the air source must be replaced.

Check valves prevent reverse flow when the pressure in the system is reduced.

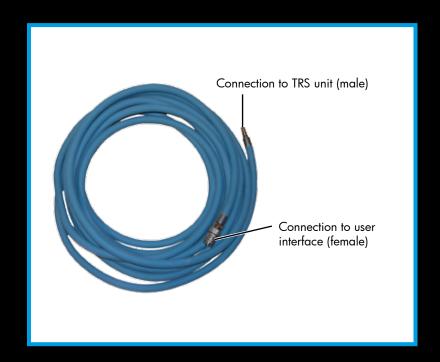


MP SUPPLY HOSE

The Spiroline MP system has been approved for use with a supply hose length of up to 60 meters.

The working pressure is 7.5 bar.

Versions with an IS connection have a locking ring to lock the connection to the manifold of the bail-out set/breathing apparatus or Spiroline belt.



USER INTERFACE - SPIROLINE HP AND SPIROLINE MP

There are three levels of equipment that can be used together with the Spiroline MP and Spiroline HP airline systems:

- 1. Spiroline belt with face mask
- 2. QS Bail-out set with face mask
- 3. QS Breathing apparatus

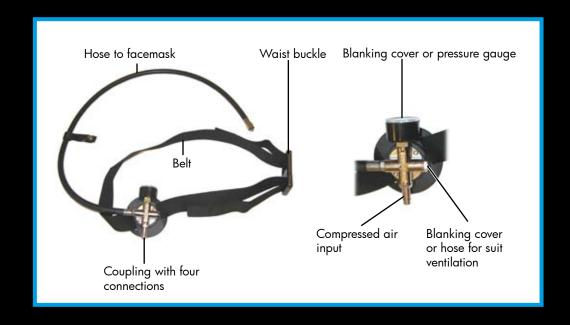
All three options form an approved system together with the TRS/DP1 and the supply hose.

SPIROLINE BELT

The Spiroline belt provides a unique degree of flexibility which allows the user to select different options to suit particular applications with safe and quick connection to a supply hose.

In the basic version, the unit distributes incoming air to the face mask, whilst more advanced versions incorporate a pressure gauge and suit ventilation connection.

The Spiroline belt consists of a coupling with four connections on a belt with a waist buckle. One connection is used as a compressed air input and is connected to the P+ regulator. There is a check valve on this connection, to prevent toxic gases from entering if the supply hose is disconnected.



QS BAIL-OUT SET

The QS bail-out unit offers a simple yet very comfortable solution that can be worn for long periods of time. It is intended for use with a single 3.4L composite cylinder but can also hold other cylinders. If the air supply is disrupted for any reason, the bail-out unit offers a safe way out.

The QS Bail-out set is designed for ultimate comfort and to reduce fatigue. The harness is heavily padded with wide shoulder straps. Both the shoulder straps and the hip belt are equipped with a pivoting system to give greater freedom of movement and ergonomic weight distribution. The double pivoting system design reduces shoulder strain, even whilst taking part in heavy physical activities such as climbing a ladder.

The regulator unit has a well proven and robust design capable of very high flow rates. A pressure gauge and warning whistle are situated on the left shoulder. The supply hose connection is situated on the right hip. The pressure regulator and warning whistle are designed as modular units to make maintenance simpler.



QS BREATHING APPARATUS

The QS breathing apparatus option enables the Spiroline airline system to be combined with a complete breathing apparatus enabling all-round functionality. The same equipment can be used as a stand-alone unit.

The flexibility of the Spiroline airline system allows Interspiro breathing apparatus to be used. When supplied from an airline, the apparatus

works as a bail-out.



The Spiroline HP has the relieving loop eyelet of the air supply hose secured to the hip belt with a carabine hook. The supply hose can then be connected to the extra air connection of the breathing apparatus.

Connection to the breathing apparatus on the Spiroline MP must be made via a 4-way connection secured on the hip belt.



Distribution





DP1- Distribution Panel 1High Pressure Distribution Panel

Part no. **96 710-02**



DP1- Distribution Panel 1

High Pressure Distribution Panel Large, yellow with cylinder hooks

Part no. 98 980-01

Air Supply



TRS-unit - Twin Regulator system

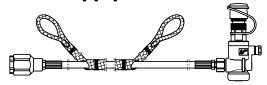
Medium Pressure Distribution Panel

2 x IS female connectors

Part no. **336 190 561**

2 x Euro female connectors Part no. **336 190 560**

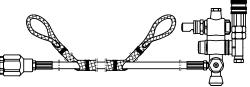
Supply Hose



High Pressure Supply Hose

with P+ Regulator - IS female connection

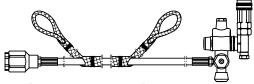
J	
10 metres	96 725-15
30 metres	96 725-13
60 metres	96 725-11
70 metres	96 725-12
90 metres	96 725-16
120 metres	96 725-14



High Pressure Supply Hose

with P+ Regulator and whistle - Euro female connection

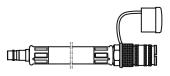
10 metres	96 725-25
30 metres	96 725-23
60 metres	96 725-21
70 metres	96 725-22
90 metres	96 725-26
120 metres	96 725-24



High Pressure Supply Hose

with P+ Regulator - Euro female connection

10 metres	96 725-35
30 metres	96 725-33
60 metres	96 725-31
70 metres	96 725-32
90 metres	96 725-36
120 metres	96 725-34



Medium Pressure Supply Hose

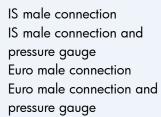
IS male and IS female connection

336 190 987
336 190 988
336 190 989
336 190 990
336 190 991

User Interface

Spiroline belt

Hip worn belt with waist buckle and breathing hose to mask. Optional pressure gauge and suit ventilation hose.





336 190 621

336 190 622 336 190 641

336 190 642



Harness assembly in nylon. Spiroline connection on right hip.

IS male connection 99 224-01 Euro male connection 99 224-02



3.4 L single cylinder

180 degree cylinder valve with pressure gauge

98 708-02

QS Breathing Apparatus

Spiroline HP

To comply with EN139 requirements, the air supply hose must be secured to the hip belt with the carabine hook.



1

Spiroline MP

To comply with EN139 requirements, connection must be made to the 4-way Spiroline connector secured on the hip belt.





S-Face Mask Ambient air hatch **96 300-12**



S-Face MaskFirst breath activation **96 300-26**



Spiromatic Face Mask 336190001



Face Mask /
Filter combination

S-mask (without breathing valve and filter)

97 197-01

S-mask silicone (without breathing valve and filter)

97 197-02

Other face mask options are available.

Interspiro has 70 years of experience as a groundbreaking innovator of respiratory protection for non-breathable environments.

We develop, manufacture and market respiratory and auxiliary equipment for firefighting, work in hazardous environments and professional diving. Our breathing apparatus has an outstanding reputation for reliability and performance. This is accomplished with innovative technical solutions and by applying the highest standards of quality to all parts of the value chain. Our innovation pedigree includes many technology milestones now considered to be standards in the industry.

Interspiro is a supplier of respiratory protection to defense military organisations, fire and rescue services, industries, utilities, shipping, offshore and diving companies all around the world.

