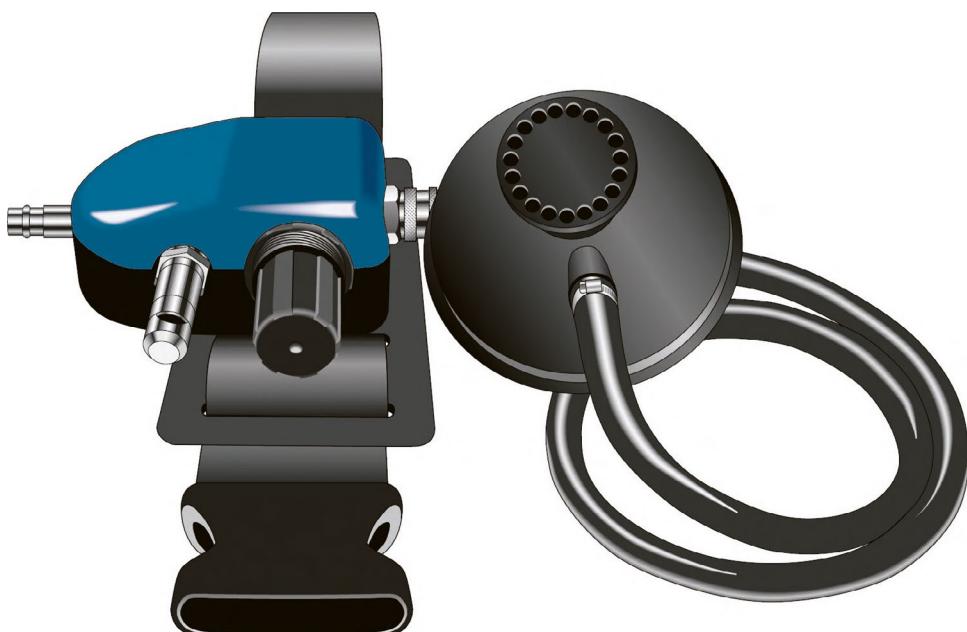


Sundstrom SR307 Regulator



SR 307

BRUGSANVISNING • BRUKSANVISNING • GEBRAUCHSANLEITUNG
GEBRUIKSAANWIJZING • INSTRUCCIONES DE USO • KÄYTTÖOHJEET
INSTRUCTIONS FOR USE • INSTRUÇÕES DE USO • MODE D'EMPLOI
INSTRUKJA UŻYTKOWANIA • NAUDOJIMO INSTRUKCIJOS • NÁVOD
K POUŽITÍ • ISTRUZIONI PER L'UZO • KASUTUSJUHEND • HASZNÁLATI
UTASÍTÁS • LIETOŠANAS INSTRUKCIJAS • NAVODILA ZA UPORABO
NÁVOD NA POUŽITIE • ИНСТРУКЦИИ ЗА УПОТРЕБА • ΟΔΗΓΙΕΣ ΧΡΗΣΗΣ

EN

Compressed air attachment SR 307

1. General information
2. Use
3. Technical specification
4. Maintenance
5. List of parts
6. Approvals

1. General information

The Sundström SR 307 compressed air attachment can be used together with Sundström half masks, and with full masks of all makes with standard thread in accordance with EN 148-1:1999. This combination then forms a breathing apparatus with continuous air flow for connection to a compressed air supply in accordance with EN 14594:2005 and AS/NZS 1716:2012.

If you feel uncertain about the selection and care of the equipment, consult your work supervisor or get in touch with the sales outlet. You are also welcome to get in touch with the Technical Service Department at Sundström Safety AB.

Use of a respirator must be part of a respiratory protection program. For advice see EN 529:2005 or AS/NZS 1715:2009. The guidance contained in these standards highlights important aspects of a respiratory protective device program but does not replace national or local regulations.

1.1 Applications

The SR 307 is an attachment that enables a given facepiece to be converted between a filtering device and a protective device with compressed air supply.

The compressed air attachment can be used as an alternative to a filtering device in all situations in which the latter is recommended. This applies particularly if the user is doing hard or sustained work, and if the pollutants have poor warning properties or are particularly toxic.

1.2 System description

The SR 307 mounted in a Sundström facepiece is designed for connection to a suitable source of breathable compressed air. The pressure in the facepiece prevents polluted ambient air from entering the facepiece.

A compressed air supply hose which is approved for breathable air is connected to a control valve threaded onto the user's belt. The control valve can be used for adjusting the air flow rate to the facepiece. From the control valve, the air flows through a breathing hose to a connection adapter, and then into the facepiece.

The control valve is equipped with a warning whistle which will come into operation if the air flow rate should drop below the minimum design flow rate.

Manufacturer's minimum design flow: 120 l/min.

1.3 Breathable air

Breathable air shall meet at least the following purity requirements according to EN 12021:2014:

- the pollutants must be maintained at a minimum and must never exceed the hygienic limit value
- the content of mineral oil shall be so low that the air will have no oil smell (the threshold of smell is around 0.3 mg/m³)
- the air shall have a sufficiently low dew point to ensure that no internal freezing will take place in the equipment

In the event of uncertainty as to whether the above demands have been met, a filter such as the Sundström type SR 99 compressed air filter should be connected. Fig. 10. The SR 99 compressed air filter consists of a pre-collector and a main filter.

The main filter consists of a gas filter section (class A3 as per EN 141:1990 and AS/NZS 1716:2012) with about 500 g of activated carbon, surrounded by two particle filters (class P3 as per EN 143:1990 and AS/NZS 1716:2012). The collecting capacity is 100

- 150 g of oil. For further particulars of breathable air, see European Standard EN 132:1998, Australian Standard AS/NZS 1715:2009 and any other national regulations that may be in force.

2. Use

2.1 Unpacking

Check that the equipment is complete in accordance with the packing list and that no transport damage has occurred.

2.2 Packing list

- Connection adapter with hose
- Control valve
- Belt
- Locking ring
- Flow meter
- User instructions

2.3 Functional check

On every occasion before using the equipment, check that the minimum flow of air through the adapter is about 150 l/min.

Proceed as follows:

- Connect the breathing hose to the control valve. Fig. 3.
- Connect the compressed air hose to the control valve. Fig. 4.
- Turn the control valve knob anti-clockwise as far as it will go in order to throttle the air flow rate to a minimum. Fig. 3.
- Place the equipment in the bag, and grip the lower part of the bag so that the bag seals around the breathing hose. Grip the flow meter with the other hand and hold it so that the tube points vertically up from the bag. Fig. 2.
- Read the position of the ball in the tube. It should float level with or just above the marking on the tube.

If the flow rate is below the minimum value, check that

- the flow meter is vertical
- the ball can move freely
- the air supply is not restricted by kinks or other restrictions in the hoses

2.4 Putting the equipment on

Fig 5-6

- Put the belt on and adjust the length.
 - Arrange the control valve in a way that allows easy adjustment of the flow rate and a strict watch over the breathing hose, i. e. it must not be placed on the back of the waist.
 - Then adjust the harness so that the facepiece is held firmly but comfortably in place. See the user instructions for the facepiece you are using.
 - Then fit the connection adapter of the compressed air attachment to the facepiece. In combination with a full face mask, the locking ring should always be used for securing the mounting of the connection adapter. Fig. 1:6
 - Connect the breathing hose of the compressed air attachment to the control valve outlet. Fig. 3
 - Unroll the compressed air tube and make sure that it is not twisted.
 - Connect the tube to the control valve inlet. Fig. 4.
 - The facepiece is now being supplied with air and you can put it on.
 - Use the control valve knob to set the air flow rate to suit your current work intensity. Fig. 3
- In the fully closed position (turn the knob anti-clockwise), the flow will be the minimum, and in the fully open position (turn the knob clockwise), the flow will be the maximum.
- The breathing hose retaining clip which is supplied can be used to advantage for securing the breathing hose to your body. Fig. 1:11

2.5 Taking the equipment off

Leave the polluted work area before taking the equipment off.

- Remove the facepiece

Releasing the compressed air tube / breathing hose

Both couplings are of safety type and are released in two stages. Fig 7.

- Push the coupling towards the nipple.
- Pull the locking ring back.

After every period of use, check that no defects have occurred, and clean the equipment. See 4.1.

2.6 Warnings/limitations

Warnings

As a general rule, the user must always be able to retreat to safety without risk if the air supply should cease or if he/she must take off the equipment for some other reason.

The equipment must not be used

- If the ambient air does not have a normal oxygen content.
- If the pollutants are unknown.
- In environments that are immediately dangerous to life and health (IDLH).
- With oxygen or oxygen-enriched air.
- If the user finds it difficult to breathe.
- If you can smell or taste the pollutants.
- If you experience dizziness, nausea or other types of discomfort.
- If the warning whistle sounds, which indicates that the air supply is lower than recommended.

Limitations

- Anyone who wears a beard or sideboards cannot expect the mask to be tight.
- A person working in an explosive or flammable environment must follow any local regulations that may be in force for such conditions.
- At very high work intensity, a partial vacuum may occur in the equipment during the inhalation phase, which may cause ambient air to be drawn in.
- Use of the equipment together with spiral hose SR 360 is restricted to situations in which there is little risk of damage to the hose and if the freedom of movement of the user can be restricted.
- The air supply system should be equipped with an appropriately rated and adjusted pressure relief safety valve.
- A risk assessment has to be done to avoid possible perilous connections possible at the workplace, e.g. Nitrox.
- The SR 307 is not approved for use with a mobile compressed air system.

3. Technical specification

Air flow rate

150 l/min (measured in the flow meter) up to 320 l/min.

Compressed air hose EC/EN

The following tubes are type approved together with all Sundström compressed air fed equipment. Maximum working pressure 7 bar.

- SR 358. 9,5/15 mm rubber tube, made of polyester reinforced PVC. Oil and chemicals resistant. 5–30 m.
- SR 359. 9,5/18 mm plastic tube, made of EPDM/Polyester. Anti-static, heat resistant. 5–30 m.
- SR 360. 8/12 mm plastic spiral coiled tube made of Polyurethane. 2, 4, 6 and 8 m.

It is not allowed to join hoses together.

Compressed air supply tube AS/NZS

Approved tubes must be used if Australian Standards approval is to be valid. Tubes from 5–30 m or coupled to 90 m may be used.

Shelf life

The equipment has a shelf life of 5 years from the date of manufacture.

Temperature range

Storage temperature: from -20 °C to + 40 °C and a relative humidity below 90 %.

Service temperature: from -10 °C to + 55 °C and a relative humidity below 90 %.

Weight

Weight without control valve: 80 g

Working pressure

4–7 bar (400–700 kPa) measured at the connection to the control valve.

4. Maintenance

Personnel who are responsible for maintenance of the equipment must be trained and well acquainted with this type of work.

4.1 Cleaning

The SR 307 should be cleaned in the following manner: Use a piece of soft cloth or a sponge dipped in a solution of water and dishwashing detergent or the like. Rinse and leave to dry. In the event of more serious soiling, white spirit or similar degreasing agent may be used. Then wash with dishwashing detergent solution, rinse and leave to dry.

Sundström cleaning tissues SR 5226 are recommended for daily care.

For particulars of cleaning of the Sundström half mask and full mask, see the appropriate user instructions.

4.2 Storage

After cleaning, store the equipment in a dry and clean place at room temperature. Avoid direct sunlight.

4.3 Maintenance schedule

The schedule below shows the recommended minimum requirements on maintenance routines, so that you will be certain that the equipment will always be in usable condition.

	Before use	After use	Annually
Visual inspection	●	●	●
Functional check	●		●
Cleaning		●	

4.4 Spare parts

Use only genuine Sundström parts. Don't modify the equipment. The use of 'pirate parts' or any modifications made to the equipment may reduce the protective effect and compromise the approvals granted to the equipment.

4.4.1 Control valve

The control valve is a complete, sealed unit. Don't attempt to repair or modify it.

4.4.2 Breathing hose

To change the breathing hose, proceed as follows:

- Cut off the hose clip with a pair of pincers and pull the hose off. Fig. 8.
- Thread the hose clip and retaining clip (Fig. 1:11) onto the new hose. Connect to the adapter (Fig. 1:2) and use a pair of pincers to nip the hose clip. Fig. 9.
- Apply a load to the hose to check that it is firmly secured to the adapter.

5. Parts list

The item numbers below refer to Fig. 1 at the end of the user instructions.

Item No. Part	Order No.
1. Breathing hose	R03-1428
2. Connection adapter	R03-1425
3. Belt	R03-1510
4. Flow meter	R03-0346
5. Control valve SR 347	R03-1426
Service kit	R03-1417
6. Locking ring	-
7. Protective cover	-
8. Membrane	-
9. Silencer	-
10. Compressed air hose. See section 3	-
11. Retaining clip Compressed air filter SR 99, Fig. 10	H03-2612
Protective hood SR 345, Fig. 11	H09-1012
Short-term hood SR 64, Fig. 12	H09-0301
Cleaning wipes Box of 50	H09-0401

6. Approvals

EC/EN

- The SR 307 with half mask together with compressed air hose SR 358, SR 359 or spiral hose SR 360 is type approved in accordance with EN 14594:2005, class 3A.
- The SR 307 with full face mask and together with compressed air hose SR 358 or SR 359 is type approved in accordance with EN 14594:2005, class 4B.
- The SR 307 with full face mask and together with spiral hose SR 360 is type approved in accordance with EN 14594:2005, class 4A.

The EC type approval certificate has been issued by Notified Body No 0194.
For address, see back-cover.

Australian StandardsMark

The Compressed Air Attachment SR 307 is tested and certified to comply to AS/NZS 1716:2012.
The StandardsMark is issued under licence by SAI Global Pty Limited Lic No.766 (ACN 108 716 669) ("SAI Global").



Accesorio de aire comprimido SR 307

1. Información general
2. Uso
3. Características técnicas
4. Mantenimiento
5. Lista de piezas
6. Homologaciones

1. Información general

El accesorio de aire comprimido Sundström SR 307 puede usarse junto con las semicaretas Sundström, y con caretas completas de todas las marcas provistas de rosca estándar según EN 148-1: 1999. Una de estas combinaciones forma un aparato de respiración, con flujo de aire continuo alimentado por aire comprimido según EN 14594:2005.

Ante cualquier duda sobre la elección y mantenimiento de equipos, no deje de consultar al supervisor de trabajos o póngase en contacto con el outlet de venta. También puede contactar a Sundström Safety AB, departamento de soporte técnico.

La protección respiratoria ha de constituir siempre parte de cualquier programa protector. Para información y directivas, vea EN 529:2005. Este estándar proporciona información sobre aspectos importantes del programa de protección respiratoria, pero no sustituye a las normativas nacionales o locales.

1.1 Campos de aplicación

El accesorio SR 307 permite cambiar entre protección con filtro y protección con suministro de aire comprimido en una misma careta. Este accesorio puede emplearse como alternativa a los sistemas de respiración con filtro en todas las situaciones en las que se recomiendan estos sistemas. Sobre todo al realizar trabajos pesados o largos y cuando la contaminación tiene unas características difíciles de apreciar o es muy tóxica.

1.2 Descripción del sistema

El accesorio SR 307 montado en una careta protectora Sundström está previsto para acoplarse a una fuente de aire comprimido

adecuada, con aire apto para respiración. La sobrepresión que se mantiene en la careta impide que el aire contaminado exterior penetre en ella.

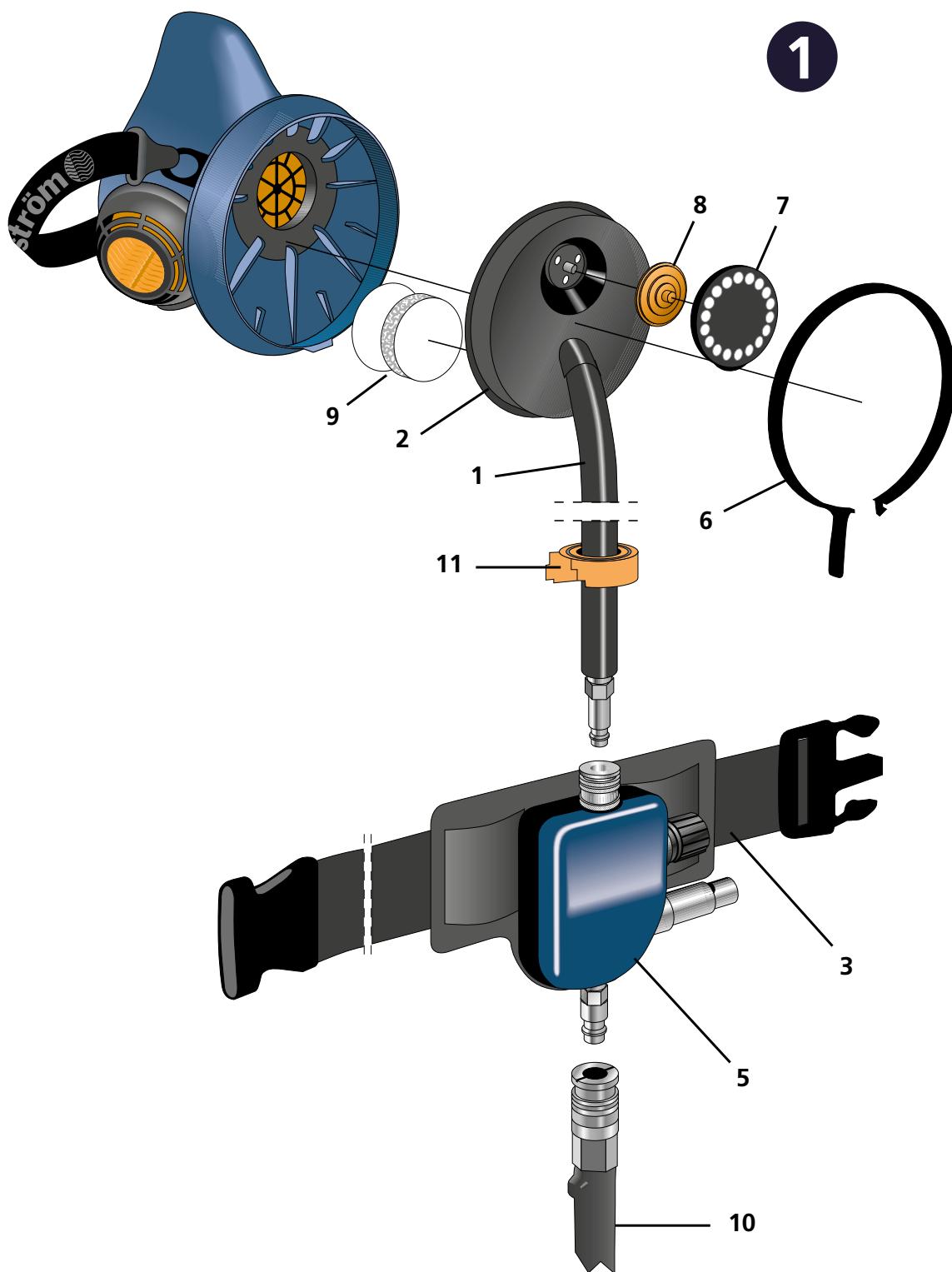
Una manguera de suministro de aire comprimido —aprobada para aire respirable— se acopla a una válvula reguladora montada en un cinturón. El flujo de aire a la capucha se regula con la válvula. Desde la válvula reguladora el aire circula por una manguera provista de válvula de retención y por una pieza de acoplamiento, hasta la careta. La válvula de control está equipada con un silbato de aviso que se activa si la cantidad de aire desciende por debajo del caudal de aire mínimo permitido. El caudal de aire mínimo permitido por el fabricante es de 120 l/min.

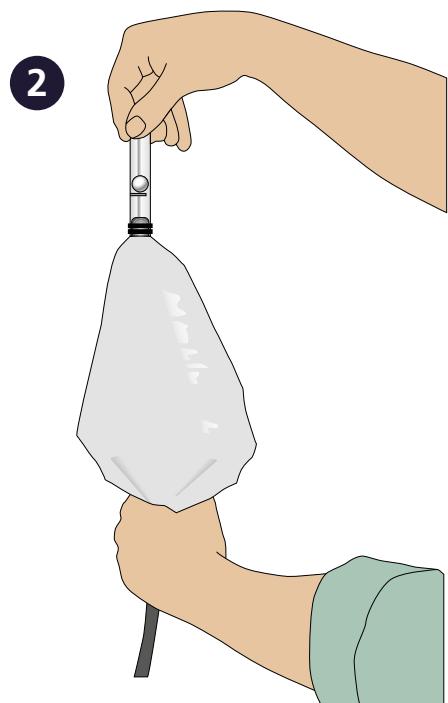
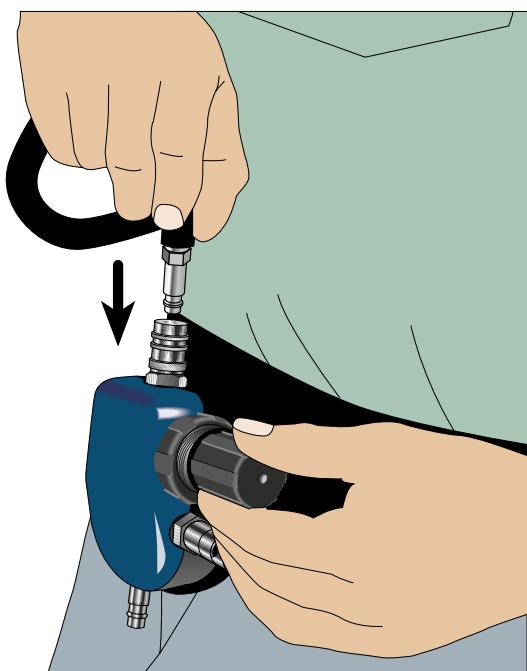
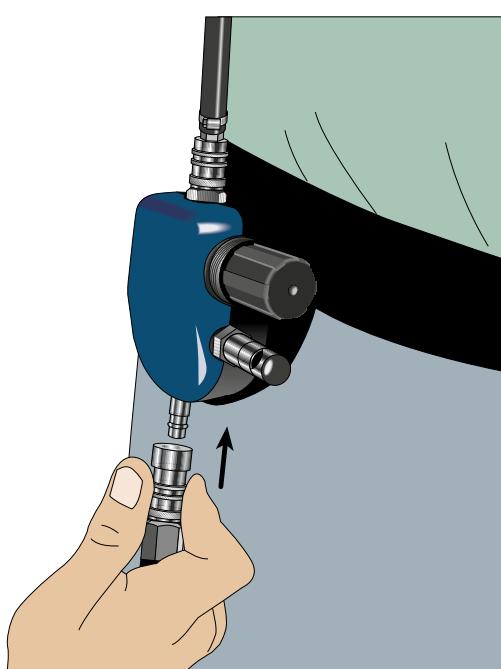
1.3 Aire de respiración

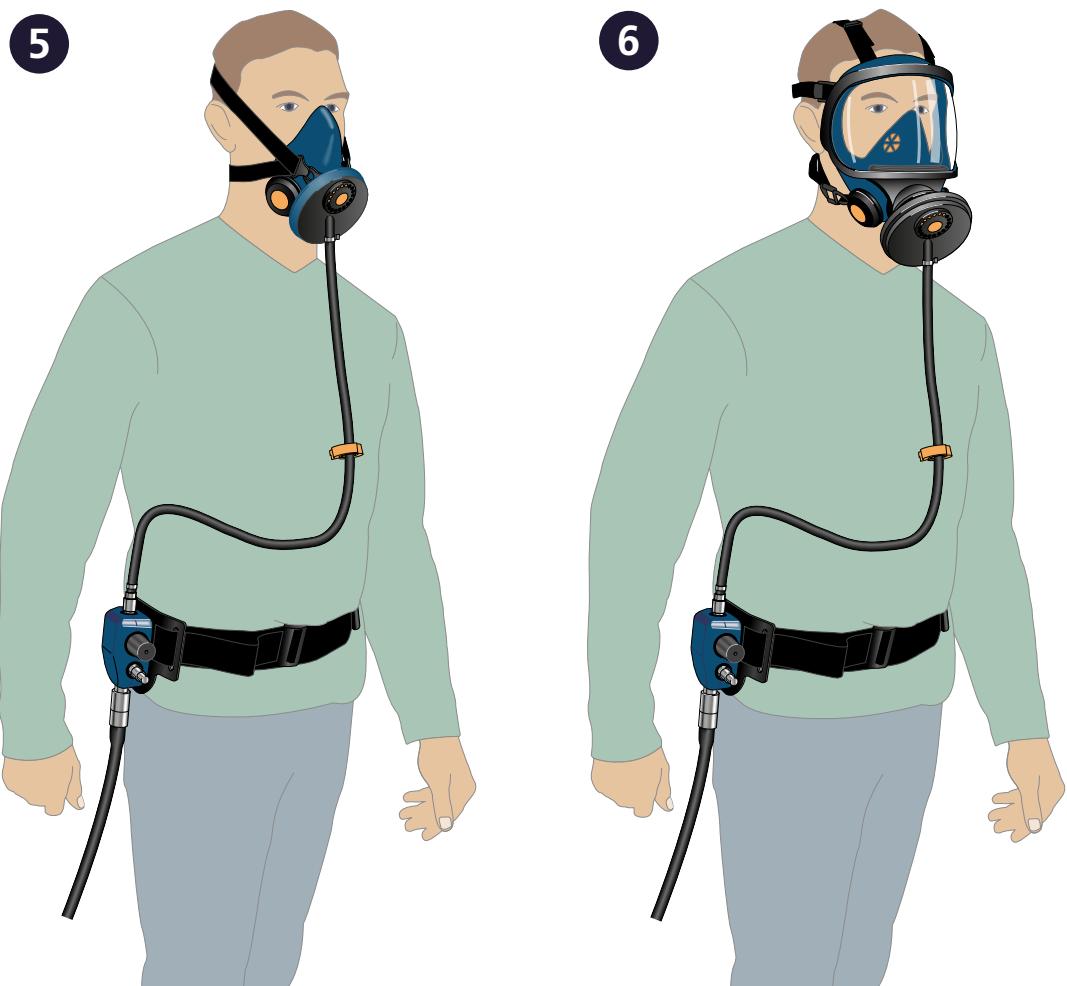
De acuerdo con la norma EN 12021:2014, para que el aire sea respirable debe cumplir los siguientes requisitos de pureza:

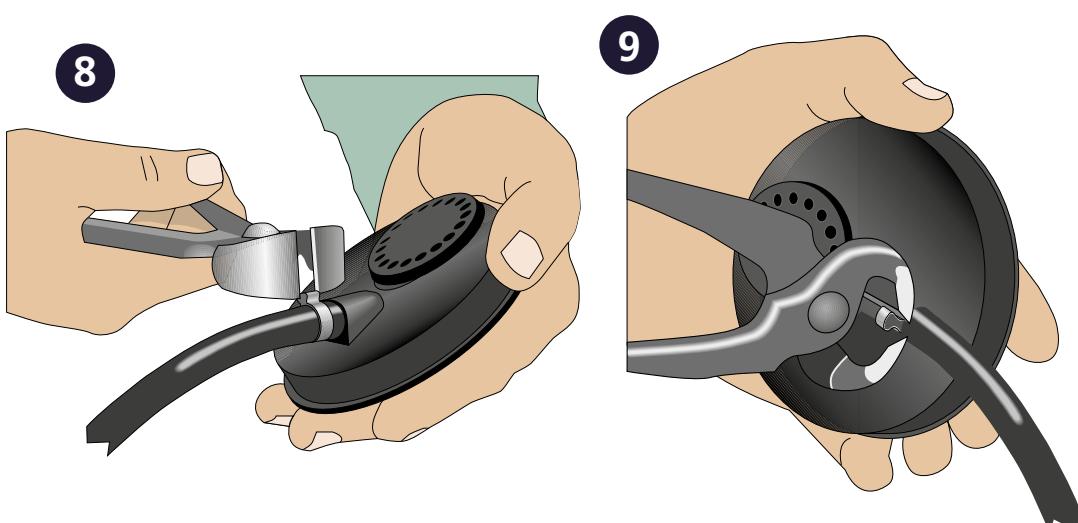
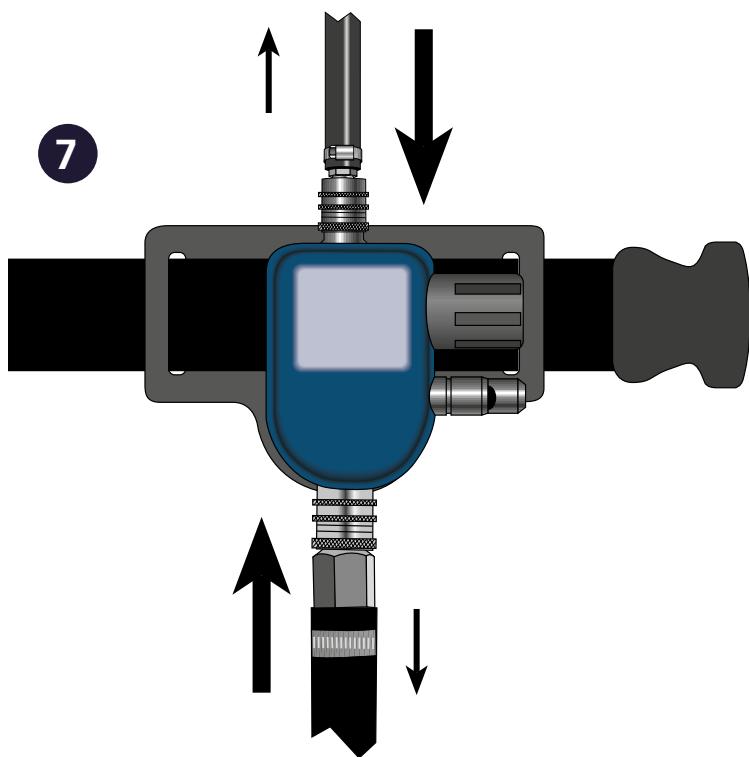
- las sustancias contaminantes deberán mantenerse a un mínimo y en ningún caso deberán exceder del valor límite higiénico.
- el contenido de aceite mineral deberá ser lo suficientemente bajo como para que su olor no se aprecie en el aire. (El límite de percepción olfativa es de unos 0,3 mg/m³).
- el punto de rocío del aire deberá ser lo suficientemente bajo como para evitar que se forme escarcha en el interior del equipo.

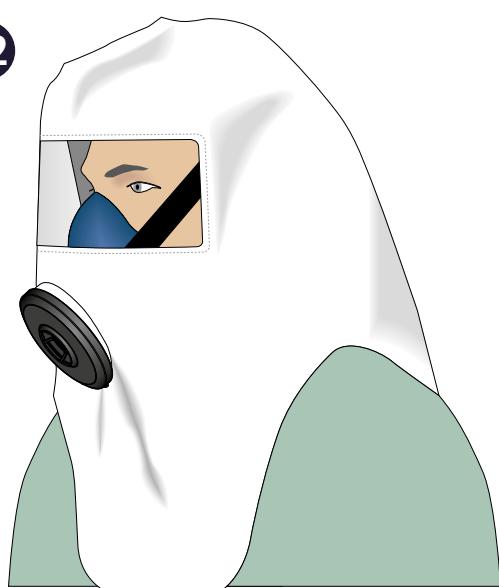
En caso de que haya duda de que las exigencias de más atrás se hayan cumplido, puede conectarse un filtro de aire comprimido como el Sundström tipo SR 99, Fig. 10. El filtro SR 99 de aire comprimido consta de un separador preliminar y un filtro principal. El filtro principal consta de una sección de filtro de gas (clase A3 según EN 141:1990) con aproximadamente 500 gramos de carbón activado, rodeado por dos filtros de partículas (clase P3 según EN 143:1990). La capacidad de separación es de 100-150 gramos de aceite. Ver también lo indicado sobre el aire de respiración en Estándar Europeo EN 132:1998 y en las demás posibles normas vigentes en el país respectivo.



**3****4**





10**SR 99****11****SR 345****12****SR 64**

The SR 307 Compressed Air Attachment is manufactured
within a quality management system accepted by
Notified Body 0194: INSPEC International Ltd,
Certification Services, 56 Leslie Hough Way,
Salford, M6 6AJ, England.

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