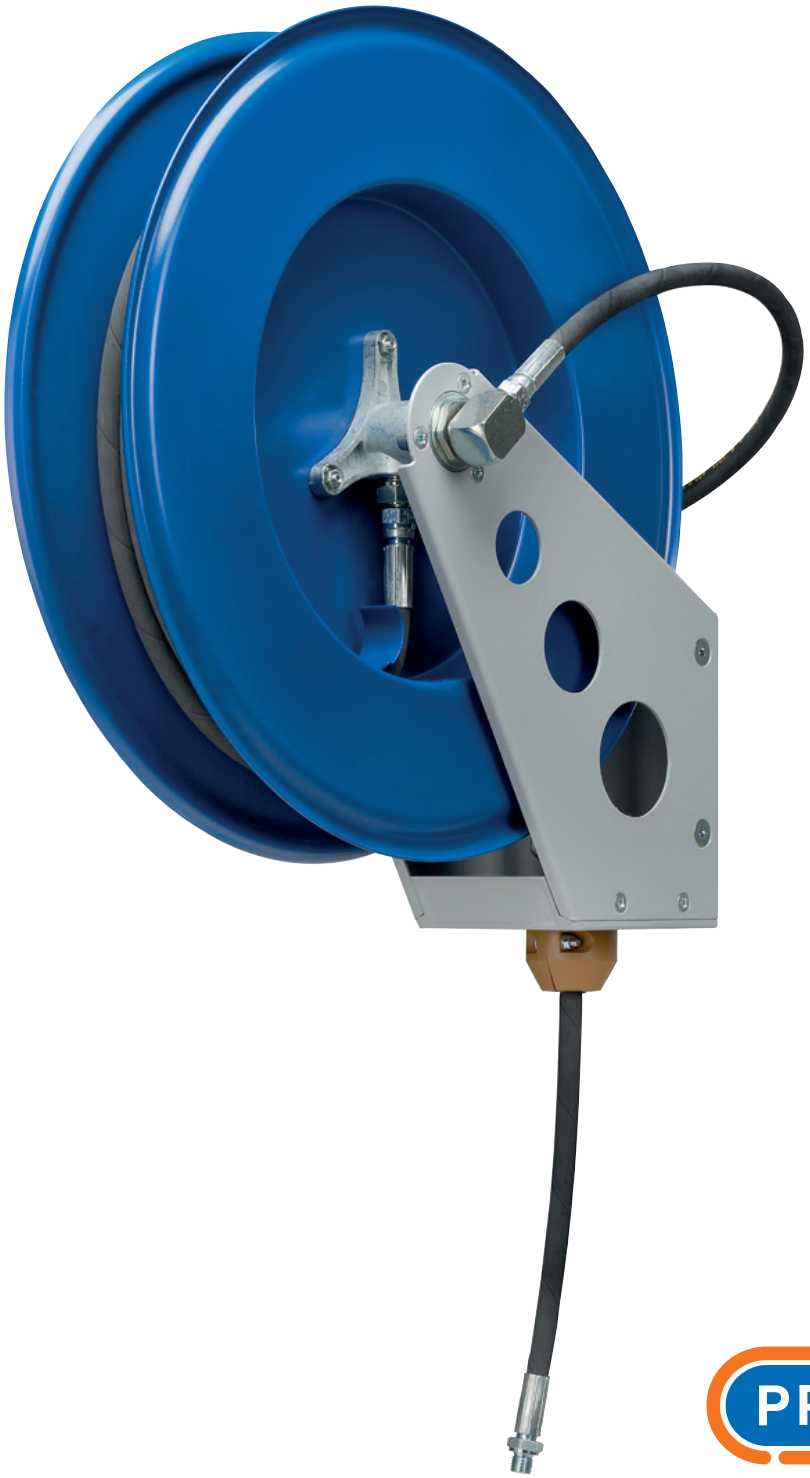
# OPERATING INSTRUCTIONS AND SAFETY NOTES

## Hose reel



PRESSOL

87 836 932 A408 GB

## Pressol Schmiergeräte GmbH

This documentation is exclusively intended for the operating company and their staff.

Without our written consent, the content of this documentation (textes, figures, drawings, charts, diagrams etc. ), must not be duplicated or distributed, neither in full or in part, utilized for the purpose of competition or passed on/made availabe to third parties.

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Operating instructions translation

Date of issue: 04/2021

We reserve the right to make design and product modifications, which serve to improve the product.

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# 1. Introduction

## 1.1 Preface

**Please carefully read these operating instructions and observe in particular all safety notes!**

Our staff will be pleased to provide support if you have any questions about the product.

**Yours sincerely, Pressol Schmiergeräte GmbH**

## 1.2 Obligations of the personnel

Before they start to work, all persons who are entrusted with work on the hose reel are obliged:

– to follow all applicable regulations on occupational safety and accident prevention.

– to read and to comply with all safety instructions and warning notes contained in these operating instructions.

Please observe the following instructions in the interest of all concerned:

- Refrain from any unsafe working methods!
- Adhere to all hazard and warning notes contained in this manual!
- In addition to this documentation, keep to all generally accepted safety rules, legal provisions as well as all other binding rules regarding occupational safety, accident prevention and environmental protection!
- Wear appropriate protective clothing in accordance with the work to be done!
- Perform only work for which you have been sufficiently trained and instructed!
- Only genuine spare parts as well as original tools and auxiliaries of the manufacturer are allowed to be used in order to ensure the functional safety and maintain the warranty coverage.

## 1.3 Symbols in this manual

### 1.3.1 Structure of the safety notes

The safety notes have the following structure:



**SIGNAL WORD**

**Type and source of the hazard**
- Consquences of non-compliance with the notes
- Measures to avoid that risk

Depending on the danger level, different signal words are used:

| Signal word | Danger level | Consequences of non-compliance |
|---|---|---|
| DANGER | Imminent threat of danger | Death or serious bodily injury |
| WARNING | Possible threat of danger | Death or serious bodily injury |
| CAUTION | Possibly dangerous situation | Minor bodily injury |
| ATTENTION | Possibly dangerous situation | Damage to material property |



**NOTE**

Indicates further information or tips which facilitate work.

### 1.3.2 Hazard warning symbols

| Symbol | Meaning |
|---|---|
|  | General hazard symbol. The warning note marked in this way contains supplementary information on the type of hazard. |

### 1.3.3 General symbols

| Symbol | Meaning |
|---|---|
| ■ | A small black square indicates the work you have to perform. |
| – | The dash denotes lists. |
| ⇨ | The arrow identifies cross-references.<br><br>If cross-references to other chapters are required within the text, the expression is shortened for reasons of clarity.<br><br>Example: ⇨ Chapter 2 Safety instructions<br>This means: please refer to chapter 2 for the safety instructions |

## 2. Safety notes

Various dangers may occur if the hose reel is improperly handled during installation, commissioning and daily operation.



**WARNING**

**Risk of injury and damage to material property because of improper handling**

- Hold the manual at the disposal of the operating staff at the usage site of the unit.
- Country-specific safety measures and accident prevention regulations must be observed.



**WARNING**

- When performing assembly, maintenance and cleaning work on the hose reel system, always wear appropriate gloves as protection against skin contact with hazardous or hot substances.
- Assembly and installation work is reserved for qualified personnel only, who must wear suitable personal protective equipment.

## 2.1 Authorized personnel

Only qualified and authorized persons are allowed to operate and to work on the hose reel.

Persons are qualified if they are, due to their training, experience, instruction and knowledge of the relevant standards, able to assess assigned tasks and to identify potentially hazardous situations.

These persons must have been authorized by the person responsible for the safety of the unit and must be able to identify and to avoid potential dangers.

All persons charged with installation, operation, maintenance and repair work, must have read and understood this operation manual.

A copy of this operating manual must be stored permanently and ready at hand at the place of usage of the unit.

## 2.2 Notes for maintenance, cleaning and repair



**WARNING**

**Risk of injury and damage to material property because of improper maintenance and repair**

- The PRESSOL hose reel is maintenance-free. Never attempt to replace parts or to open the device yourself, unless you are explicitely instructed to do so in this manual.

In addition to these operating instructions, keep to all generally accepted safety rules, legal provisions as well as other binding rules regarding occupational safety, accident prevention and environmental protection.

## 2.3 Intended conditions of use

Spring-operated hose reel with hose for delivering or drawing off fluids.
It can be equipped with a flow meter, lubrication guns or pneumatic tools. For installation in permanent supply networks or for use in stationary or mobile systems.

If the hose, when being pulled out, is bent for more than 30° in relation to the perpendicular axis of the hose reel, it is abolutely necessary to use a swivel bracket in order to protect the hose.

Do not bend the hose, do not put any heavy objects on it and do not drive over it.

If you notice any damage to the hose or to the hose reel, please contact your distributor. Never attempt to repair the damage yourself.

Take care that the outer surface of the hose does not remain in contact with aggressive liquids for a longer period of time.

To ensure that usage stipulations are met, read through the Operating Instructions completely before using the hose reel and observe all stipulations.

## 2.4 Foreseeable non-intended use

Any application beyond the intended use (other fluids, use of force) or user modifications (changes, use of non-original parts) can be dangerous and are considered as non-intended use.

Caustic, explosive, chemically and biologically hazardous substances are not allowed to be led through the hoses. The use in the food industry is forbidden.

The operation with modified or defective safety devices is forbidden.

Unauthorized persons are not allowed to carry out repair work.

## 2.5 Risks when handling the hose reel



**DANGER**

**Risk of injury and material damage because of improper handling**

- The return spring in the hose reel is under high initial tension. Never open the drum. You could be seriously injured when the spring suddenly jumps out.
- Never let the hose rewind in an uncontrolled manner. The swirling end of the hose with the nozzle and the lance can cause serious injury.
- In case of hose reels without a casing, keep your limbs and loose-fitting clothing away from the drum and its frame, because they could be entangled in the rotating drum and cause personal injury.

**Damaged accessories can lead to personal injury and material damage**

- Accessories must be checked for wear, splits or other damage throughout their period of use.
- Damaged accessories and attachments must be replaced immediately.
- With reference to the period of use, please note the details in ZH 1/A45.4.2 or DIN 20066 Part 5.3.2.

**Escaping liquids can cause environmental harm**

Comply with the stipulations of the German Water Resources Act (WHG) and of the Plant Regulations of the German federal states (VawS).

# 3. Design and functional description

Spring-operated hose reel with hose for delivering or drawing off fluids. It can be equipped with a flow meter, lubrication guns or pneumatic tools. For installation in permanent supply networks or for use in stationary or mobile systems.

The packaging contains the assembled hose reel with pressure hose and connecting hose. In the closed version, the connecting hose and the swivel joint are within the casing of the hose reel. The required fastening material, such as suitable screws, dowels etc. must be procured by the user.

# 4. Technical data

| Hose reel | Swivel joint | Weight kg | | Dimensions mm | | |
|---|---|---|---|---|---|---|
| | | from | to | length | width | height |
| Open, wall/floor installation | - | 16,8 | 19,5 | 472 | 152 | 498 |
| Open, ceiling installation | - | 20,4 | 23,1 | 475 | 158 | 520 |
| Closed, wall/floor installation | inside | 23,8 | 26,5 | 495 | 170 | 508 |
| Closed, wall/floor installation | outside | 23,4 | 26,1 | 495 | 158 | 508 |
| Closed, ceiling installation | inside | 23,2 | 25,9 | 495 | 170 | 520 |
| Closed, ceiling installation | outside | 23,6 | 26,3 | 495 | 158 | 520 |

| Temperature ranges | | |
|---|---|---|
| Ambient temperature | Fluid temperature | |
| min. + 10 °C, max. + 60 °C | | + 10 °C - + 60 °C |
| | when drawing off oil | + 10 °C - + 80 °C |
| | for hot water | + 10 °C - + 130 °C |

**Connections**

| Fluid | Type SAR | Operating pressure | Connecting hose | Discharge hose possible lengths |
|---|---|---|---|---|
| Oil | 12-10/15 Ö | 120 bar | 1 m, DN 12, G 1/2" | 10/15 m, DN 12, G 1/2" |
| Grease | 6-10/15 F | 400 bar | 1 m, DN 6, G 1/4" | 10/15 m, DN 6, G 1/4" |
| Diesel/fuel oil | 16-8 D | 60 bar | 1 m, DN 20, G 3/4" | 8 m, DN 16, G 3/4" |
| Air/water | 10-10/15 L | 20 bar | 1 m, DN 10, G 3/8" | 10/15 m, DN 10, G 3/8" |
| Coolant | 12-10/15 K | 120 bar | 1 m, DN 12, G 1/2" | 10/15 m, DN 12, G 1/2" |
| Hot water | 10-10/15 H | 200 bar | 1 m, DN 10, G 3/8" | 10/15 m, DN 10, G 3/8" |
| AdBlue®/urea | 16-6 U | 10 bar | 1 m, DN 19 | 6 m, DN 16 |

Tab. 4-1: Technical data; Hose reel abbreviated **SAR**

# 5. Preparations for assembly

## 5.1 Determining the place of installation and the material required

- The choice of a suitable place of installation is crucial for a safe and trouble-free operation of the PRESSOL hose reel.



**ATTENTION**

- Observe the general safety instructions ⇨ Chapter 2.



**WARNING**

**Risk of damage to property and severe bodily injury.**

A hose reel, which is assembled, filled with fluid and put into operation, can weigh up to 40 kg. In addition, the tensile stress which occurs when the hose is pulled out of the casing, must also be taken into consideration. Thus, it must be ensured that the unit is installed on a stable and sufficiently load-bearing mounting surface which can withstand theses forces. The mounting surface should be preferably made of concrete or firm masonry. Thin wooden floors, plasterboard walls or suspended ceilings are not suitable.

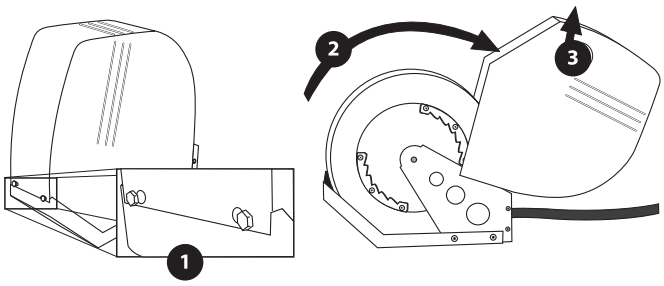
- The mounting surface must be level and the drill holes for the fastening screws have to correspond exactly with the holes in the supporting plate / mounting bracket. Otherwise, distorsions may occur and a reliable operation is not ensured.
- For fastening, choose screws and dowels of a sufficient size.
- For the installation, you will need the following tools: 1 x 5 mm Allen key, 1 x 8 mm open-end or ring spanner, 2 x 17 mm open-end or ring spanner, 1 x 22 mm open-end spanner, 1 x 32 mm open-end spanner, a pencil to mark the position of the drill holes, a spirit level, a percussion drill with the corresponding bits, and, if necessary, a ladder.
- Before starting the installation work, ensure that all materials are within immediate reach.
- For installing the hose reel to the ceiling, you will additionally need an angle bracket to fasten the upper sloping edge of the mounting bracket. In this case, step 5.4 „Separating the mounting bracket and the supporting plate“ does not apply.

## 5.2 Removing the casing (only for models with casing)

**Required tool:** 8 mm ring or open-end spanner.

Check to ensure that the hose is completely rewound.

- Unscrew the two casing screws ( 8 mm spanner).
- Open the casing in the direction of the hose.
- Remove the casing by pulling it upwards.
- Put the casing carefully aside.




**CAUTION**

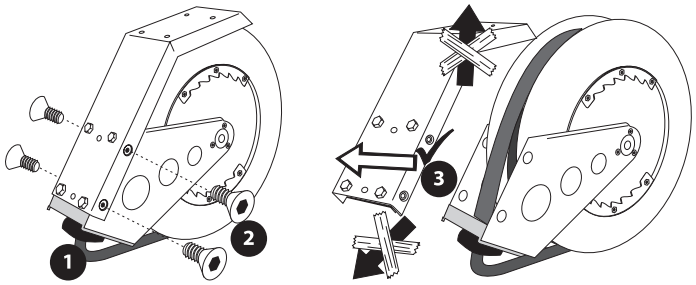
**Risk of minor personal injury**

The exposed edges of the casing are sharp! Risk of injuries!

## 5.3 Removing the mounting bracket/supporting plate (all models)

**Required tool:** 5 mm Allen key.

- Put the hose reel on the drum and wedge the hose (1) under the drum until a safe standing position is achieved.
- Unscrew the countersunk socket-head screws (2) on the left-hand and right-hand side of the mounting bracket.
- Remove the mounting bracket by pulling it forwards. Put it aside.
- Put the drum aside.




**ATTENTION**

**Danger of product damage**

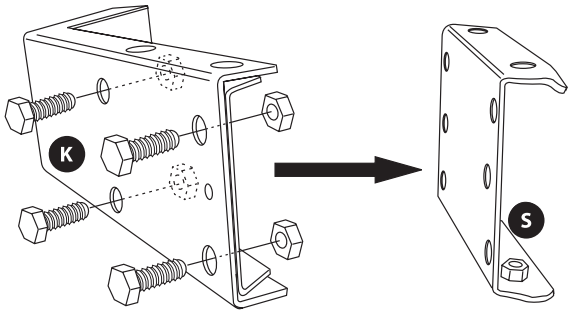
Check to ensure that the drum does not fall over while you are working.

### 5.4 Separating the mounting bracket K and the supporting plate S (only for models with mounting bracket, not for ceiling installation)

**Required tools:** two 17 mm ring or open-end spanners.

At first, the supporting plate serves as a template to mark the positions of the drill holes, and finally it is used to fasten the hose reel at the place of installation.

Loosen the four screws. Separate the supporting plate and the mounting bracket.



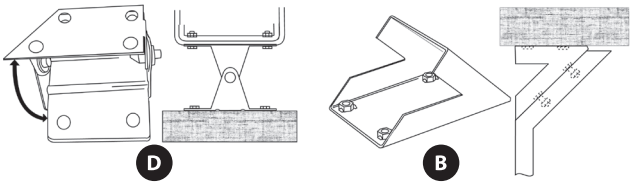

## 6. Installation

The place of installation must comply with the requirements stated above!

Please always use the supporting plate as a template for the drill holes, irrespective of whether you want to use the hose reel with or without a casing, whether it is planned to mount the reel to the floor, the wall or the ceiling or whether it is installed together with a swivel bracket (wall mounting).

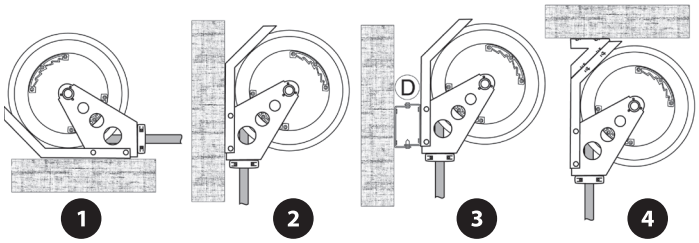
D = Swivel bracket

B = Angle bracket, ceiling



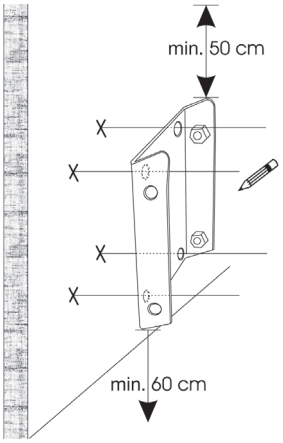

### 6.1 Installation positions (examples)

1. Floor
2. Wall
3. Wall with swivel bracket (D)
4. Ceiling




### 6.2 Drilling the holes for the fastening screws

- Use the supporting plate as a template and hold it against the mounting surface. Ensure that the bevelled, open edges of the U-shaped plate are at least 50 cm away from the next wall, if the reel is planned to be mounted on the floor. A minimum distance of 50 cm to the ceiling and 60 cm to the floor is required for wall installation. Adjust the template by means of the spirit level.
- Mark the positions for the four dowel holes.
- Drill the holes for the dowels corresponding to the masonry and the screws to be used.
- Insert the dowels and ensure that they fit well.






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**WARNING**

**Risk of damage to material property and severe personal injury**

The required screws and dowels must be selected corresponding to the masonry to which the hose reel is planned to be attached. Exact specifications cannot be given here. In case of concrete walls or floors, 10x80 screws with the corresponding dowels are usually sufficient.

## 6.3 Fastening the angle bracket and the swivel bracket at the place of installation

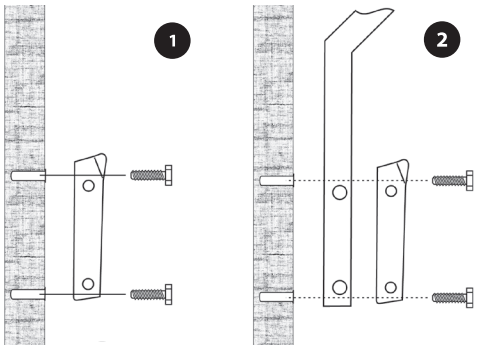
If the swivel bracket is planned to be used for fastening the hose reel to the wall, proceed as follows: at first, fasten the swivel bracket to the stable mounting surface in a way that the longitudinally crimped plate lies on the fastening surface. The conically shaped axis must be at the bottom.

If the hose reel is to be mounted to the ceiling, fasten the angle bracket to the ceiling.

## 6.4 Fastening the supporting plate/mounting bracket (floor/wall installation)

**Reels without mounting bracket /casing** 1

Fasten the supporting plate by screwing the four screws into the dowels and ensure that the bevelled, crimped edges are facing upwards (for wall installation), or that they are facing in the direction opposite to the hose exit (for floor installation).

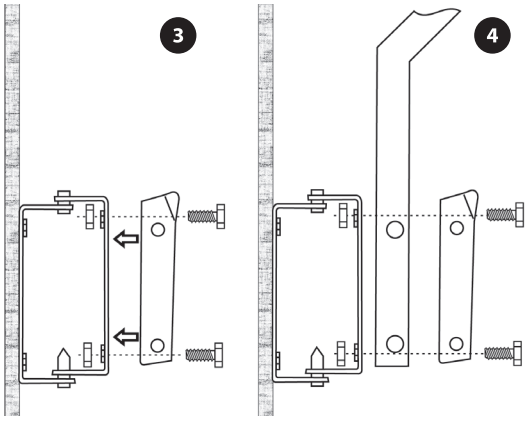



**Reels with mounting bracket/casing** 2

- Insert the supporting plate into the mounting bracket in such a way that the two round embossings lie in the middle drill holes of the supporting plate and that the bevelled, crimped edges of the supporting plate are pointing towards the angled part of the mounting bracket.
- Fasten the supporting plate and the mounting bracket with four screws in the dowels.

**Reels without mounting bracket/casing at swivel bracket** 3

Safely fasten the swivel bracket on a stable surface as described under 6.3. Then, fix the supporting plate to the carrier plate of the swivel bracket by means of four M10x20 screws with nuts.

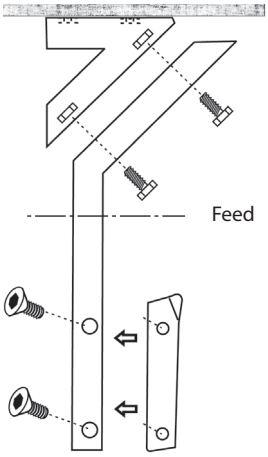



**Reels with mounting bracket/casing at swivel bracket** 4

- Insert the supporting plate into the mounting bracket in such a way that the two round embossings lie in the middle drill holes of the supporting plate and that the bevelled, crimped edges of the supporting plate are pointing towards the angled part of the mounting bracket.
- Safely fasten the angle bracket on a stable surface as described under 6.3. Then, fix the supporting plate and the mounting bracket to the angle bracket by means of four M10x20 screws with nuts.

## 6.5 Fastening the supporting plate/mounting bracket (ceiling installation)

If the hose reel is to be fastened to the ceiling, an angle bracket and a mounting bracket are always needed. The swivel bracket is not suited for ceiling installation.

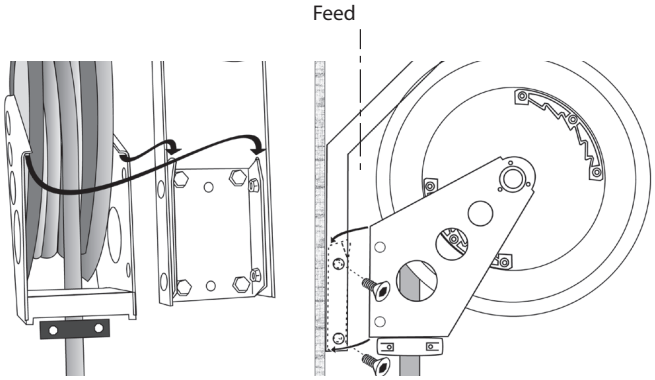



- Insert the supporting plate into the mounting bracket in such a way that the two round embossings lie in the middle drill holes of the supporting plate and that the bevelled, crimped edges of the supporting plate are pointing towards the angled part of the mounting bracket.
- Safely fasten the angle bracket on a stable surface as described under 6.3. Then, fix the supporting plate and the mounting bracket to the angle bracket by means of four M10x20 screws with nuts.

## 6.6 Suspending and fixing the hose drum

**Follow the safety notes ⇨ chapter 2!**

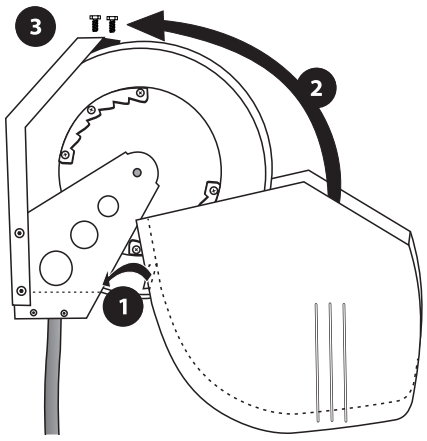
- Insert the drum in such a way that the angled edges of the drum frame lie on the slanting, crimped edges of the supporting plate. When you insert the drum into a mounting bracket, the sides of the drum frame must be guided between the sides of the mounting bracket and the supporting plate.
- Adjust the drum so that the drill holes in the supporting plate and in the drum frame coincide. Use the four hexagonal socket-head screws to fasten the drum to its support.



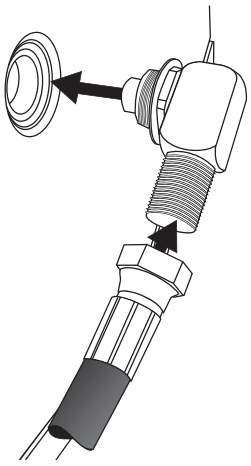

## 6.7 Attaching the casing

**Follow the safety notes ⇨ chapter 2!**

- Hang the tongue of the casing over the hose exit. This functions as a retainer and pivot.
- Rotate the casing around this point in the direction of the mounting bracket, until it rests completely in the mounting bracket. Guide the sides between the mounting bracket and the drum frame. (Attention: take care that you do not cut yourself).
- Use the two screws to fasten the casing to the mounting bracket.



## 6.8 Attaching the connecting hose



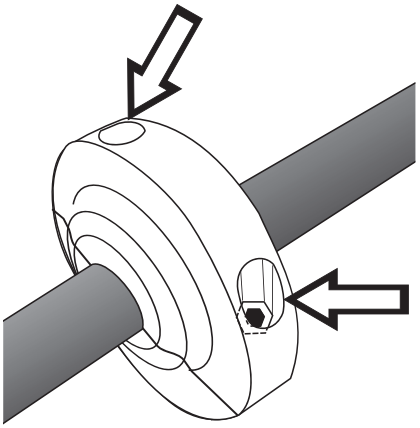
**Attention!** The threads and spacers on the drum, the swivel joint and the connecting hose must be free of dust and dirt!

- Unscrew the connecting hose from the swivel joint.
- Remove the dust protection cover from the internal thread of the drum.
- Screw the swivel joint into the thread of the drum. Tighten the nut securely.
- Screw the connecting hose to the swivel joint. Tighten the nut securely.
- Screw the other end of the connecting hose to the supply source. Tighten the nut securely. **Please pay attention to the instructions contained in the documents provided with the supply source.**

## 6.9 Attaching a nozzle or other accessories

Before attaching a nozzle and any other accessories (lance or the like), please refer to the documentation provided with the corresponding items.

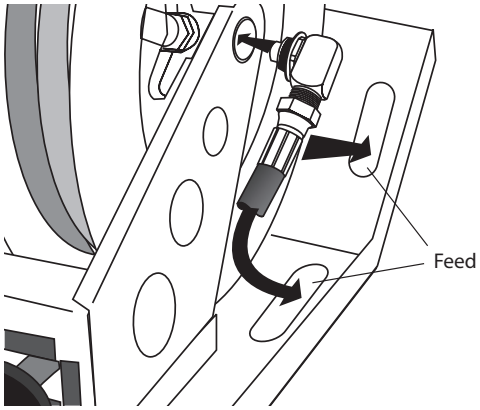
## 6.10 Adjusting the hose stopper



Your hose reel is equipped with a hose stopper.

- Pull out the length required to set the stopper. Let the hose engage.
- The socket-head screws, indicated by arrows in the illustration, must be loosened by means of the 5 mm Allen key, until the two halves of the hose stopper can be pushed back and forth on the hose.
- Push the halves of the hose stopper to the desired position of the hose and tighten the screws very securely again.

## 6.11 Hose reel with concealed swivel joint




In case of the hose reel with concealed swivel joint, proceed as follows:

- At first, attach the connecting hose (refer to 6.8) to the drum.
- Push the connecting hose through one of the oval holes in the mounting bracket.
- Attach the casing (refer to 6.7).

## 7. Operation

The hose reel is equipped with an automatic locking mechanism. Pull out the hose to the desired length. When you do so, you will hear a loud ratchet noise. If you loosen your hold on the hose, the drum will slightly rewind by approx. a quarter turn and will then engage.

In order to release the hose and to rewind it into the drum, pull the hose until you cannot hear any longer the ratchet noise for a short time.

If you now loosen your hold on the hose, it will be retracted into the drum.



**WARNING**

**Risk of severe personal injury**

- Keep hold of the hose when it is being rewound, do not let go!
- The hose must be regularly checked for proper operating condition. A damaged hose must be immediately replaced.
- It is forbidden to operate the hose reel system with defective operating equipment.

## 8. Repair/Service

The PRESSOL hose reel was developed and produced according the highest quality standards.



**WARNING**

**Risk of injury and damage to material property because of improper maintenance and repair**

- The PRESSOL hose reel is maintenance-free. Never attempt to replace parts or to open the device yourself, unless you are explicitely instructed to do so in this manual.

Should a problem develop, despite of all quality controls, please contact our customer service:

**PRESSOL Schmiergeräte GmbH**
Phone +49 9462 17-246
Fax +49 9462 1063
service@pressol.com

## 9. Disassembly/Disposal

The operating company is responsible for the proper disposal of the hose reel.

Hereby, the industry-specific and local regulations must be observed when disposing of the hose reel.

Only a qualified personnel is authorized to disassemble and dispose of the PRESSOL hose reel.

The hose reel system is only allowed to be disassembled and dismantled when the hose is completely rewound and when the coil spring is discharged.

# 10. EC Declaration of Conformity

CE

Manufacturer:

**PRESSOL Schmiergeräte GmbH**

Parkstraße 7

93167 Falkenstein / Germany

Declares under his sole responsibility that the machine:

| | |
|---|---|
| **Model** | **PRESSOL Hose reel (abbreviated SAR)**<br>**SAR 12-10/15 Ö**<br>**SAR 6-10/15 F**<br>**SAR 16-8 D**<br>**SAR 10-10/15 L**<br>**SAR 12-10/15 K**<br>**SAR 10-10/15 H**<br>**SAR 16-6 U** |

| complies with all relevant provisions of the following Directives: | |
|---|---|
| EC - Directives | 2006/42/EG Machinery Directive |
| Applicable standards | EN ISO 13732-1:2008-09<br>EN ISO 4414:2010<br>EN ISO 12100:2010<br>EN ISO 4413:2010 |

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PRESSOL Schmiergeräte GmbH
Falkenstein, 25.07.2017

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