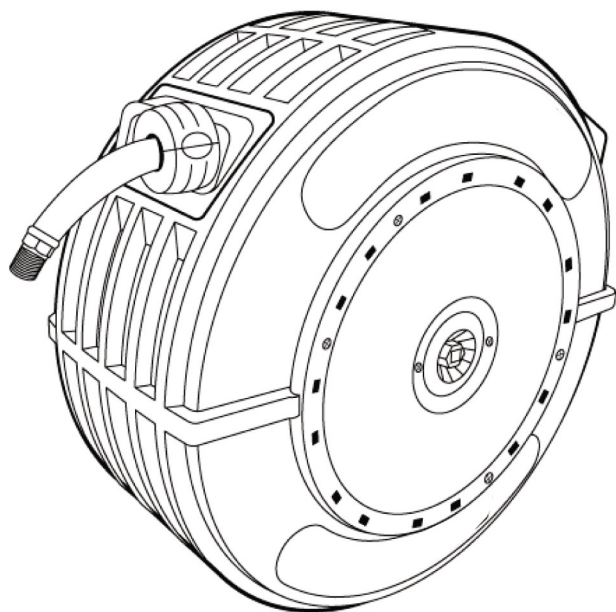
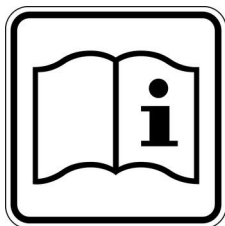




**DE**

Bedienungsanleitung - Schlauchaufroller R3

**GB**

Instruction booklet - Hose Reel R3

**FR**

Manual de mode d'emploi - Enrouleur R3

**ES**

Manual de instrucciones - Enrolladore R3

**IT**

Libretto di istruzioni - Avvolgitubo R3

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DE

EN

FR

ES

IT

# Vor Inbetriebnahme des Gerätes die Bedienungsanleitung aufmerksam lesen!

## 1. Allgemeine Hinweise

Der Schlauchaufroller ist mit einem Federrückzug zur Schlauchaufwicklung ausgestattet. Der Schlauch kann bei jeder Umdrehung mit der Arretierung fixiert werden. Der Schlauchaufroller darf ausschließlich zum Aufwickeln von Schläuchen verwendet werden. Für die verschiedenen Modelle dürfen ausschließlich Schläuche für die unten aufgeführten Medien mit jeweiligem Arbeitsdruck verwendet werden.

| Modell          | Medium/ max. Temperatur     | Max. Arbeitsdruck |
|-----------------|-----------------------------|-------------------|
| DR 100 - 300 R3 | Kaltwasser + 50°C           | 8 bar             |
| DR 110 R3       | Kaltwasser + 50°C           | 8 bar             |
| AR 100 - 200 R3 | Druckluft + 50°C            | 17 bar            |
| WP 400 R3       | Pflanzenschutzmittel + 50°C | 17 bar            |

Folgende Hinweise sind bei der Installation, Inbetriebnahme und Wartung des Schlauchaufrollers zu beachten. Weitere Hinweise zu speziellen Gefahren sind im weiteren Verlauf der Bedienungsanleitung zu finden.

- Überschreiten Sie niemals den auf dem Schlauchaufroller angegebenen Arbeitsdruck.
- Schlauch und Schlauchaufroller dürfen nur mit Flüssigkeiten in Kontakt kommen, für die sie geeignet sind
- Prüfen Sie täglich den Schlauch und Schlauchaufroller auf Verschleiß und Undichtigkeit. Defekte Teile müssen sofort und nur mit original Ersatzteilen ersetzt werden.
- Schlauchaufroller nur für den vorgegebenen Verwendungszweck benutzen.
- Schlauchaufroller nicht ändern oder modifizieren.
- Den Schlauch beim Herausziehen und Aufwickeln niemals loslassen.
- Niemals versuchen, Undichtigkeiten am Schlauch und Schlauchaufroller mit der Hand oder anderen Körperteilen abzudichten.
- Um Frostschäden zu vermeiden, trennen Sie den Anschlussschlauch vom Aufroller und die Spritzpistole vom Schlauch.

### ACHTUNG:

Vor Wartung oder Reparatur immer die Medienzufuhr abklemmen und Schlauchaufroller „drucklos“ machen.

## 2. Installation

Beachten Sie folgende Punkte bei der Installation des Schlauchaufrollers:

- Verwenden Sie Montagematerial, welches geeignet ist, das Gewicht des Schlauchaufrollers zu tragen. Beachten Sie hierbei auch das Gewicht der Flüssigkeit und die Federspannung.
- Bei Deckenmontage (Abb. 2) darf der Schlauchaufroller nicht schwenkbar sein. Verwenden Sie dazu die mitgelieferte Fixierung.
- Verwenden Sie eine Schraube M8x50, um den Bolzen des Wandhalters zu fixieren. Alternativ kann auch ein Vorhängeschloss verwendet werden.
- Stellen Sie eine sichere und dichte Verbindung als Flüssigkeitsversorgung mit dem seitlichen Anschluss her. Beachten Sie den maximalen Arbeitsdruck des Schlauchaufrollers.
- Prüfen Sie den Schlauchaufroller auf Dichtigkeit.

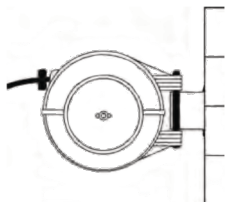


Abb. 1 - Wandmontage, max. Höhe 1,4 m

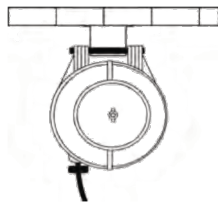


Abb. 2 - Deckenmontage, max. Höhe 4,5 m

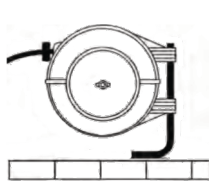


Abb. 3 - Bodenmontage (Zubehör)

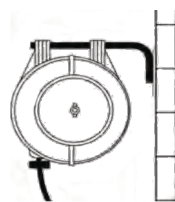


Abb. 4 - Wandmontage, max. Höhe 4,5 m (Zubehör)

### 3. Feder spannen

**ACHTUNG:** Vor allen Wartungsarbeiten muss der Schlauchaufroller „drucklos“ gemacht werden. Der Schlauch muss immer komplett aufgewickelt sein.

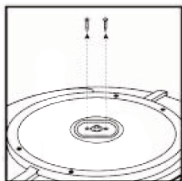


Abb. 1 - Lösen Sie die Schrauben

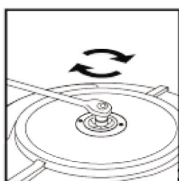


Abb. 2 - Drehen Sie im Uhrzeigersinn nach 1 „Klick“ entspricht 90°

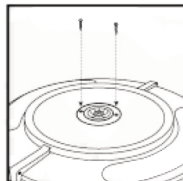


Abb. 3 - Drehen Sie die 2 Schrauben vorsichtig ein

### 4. Austausch des Schlauches

**ACHTUNG:** Vor allen Wartungsarbeiten muss der Schlauchaufroller „drucklos“ gemacht werden. Der Schlauch muss immer komplett aufgewickelt sein.

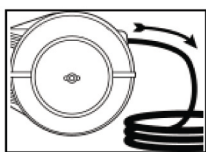


Abb. 1 - Schlauch komplett herausziehen und arretieren

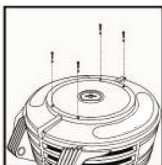


Abb. 2 - Schrauben lösen

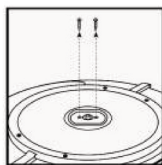


Abb. 3 - Schrauben lösen



Abb. 4 - Deckel abnehmen

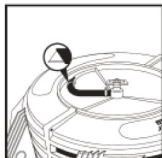


Abb. 5 - Kabelbinder entfernen

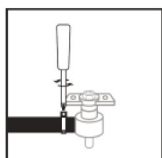


Abb. 6 - Drehkörper entfernen



Abb. 7 - Schlauch entfernen



Abb. 8 - Schlauch einbauen

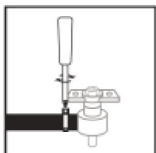


Abb. 9 - Schlauch an Drehkörper montieren



Abb. 10 - Drehkörper einbauen

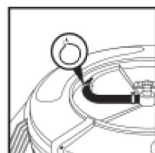


Abb. 11 - Kabelbinder montieren



Abb. 12 - Deckel montieren

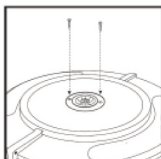


Abb. 13 - Schrauben eindrehen

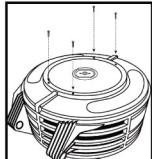


Abb. 14 - Schrauben eindrehen

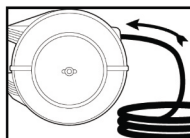


Abb. 15 - Schlauch gleichmäßig aufrollen

## 5. Austausch Drehkörper und Dichtung

**ACHTUNG:** Vor allen Wartungsarbeiten muss der Schlauchaufroller „drucklos“ gemacht werden. Der Schlauch muss immer komplett abgewickelt sein.

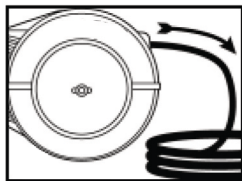


Abb. 1 - Schlauch komplett herausziehen und arretieren

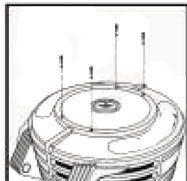


Abb. 2 - Schrauben lösen

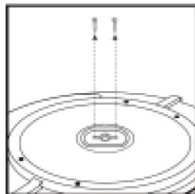


Abb. 3 - Schrauben lösen



Abb. 4 - Deckel abnehmen



Abb. 5 - Kabelbinder entfernen

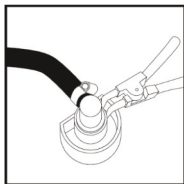


Abb. 6 - Seegerring entfernen



Abb. 7 - Drehkörper von Achse entfernen. O-Ringe einsetzen vor dem Einsetzen schmieren

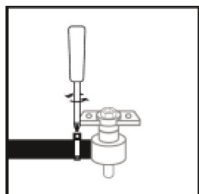


Abb. 8 - Schlauch an Drehkörper montieren

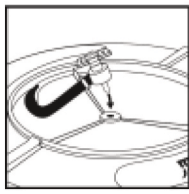


Abb. 9 - Drehkörper einbauen

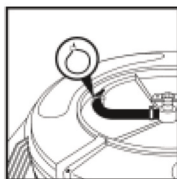


Abb. 10 - Kabelbinder montieren



Abb. 11 - Deckel montieren

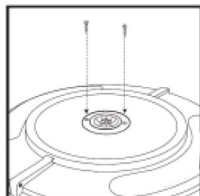


Abb. 13 - Schrauben eindrehen

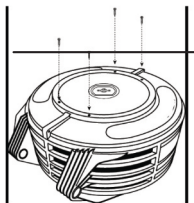


Abb. 14 - Schrauben eindrehen

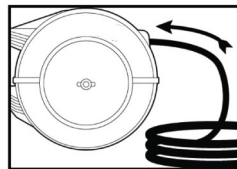


Abb. 15 - Schlauch gleichmäßig aufrollen

## 6. Lösen / Austausch Deckel

**ACHTUNG:** Vor allen Wartungsarbeiten muss der Schlauchaufroller „drucklos“ gemacht werden. Der Schlauch muss immer komplett abgewickelt sein.

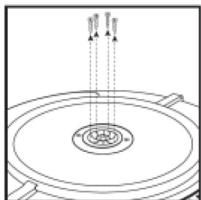


Abb. 1 - Schrauben lösen

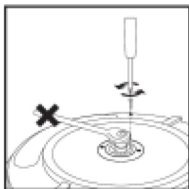


Abb. 2 - Festhalten und 2 Schrauben lösen

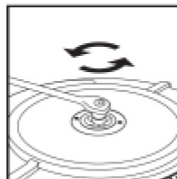


Abb. 3 - Feder entspannen

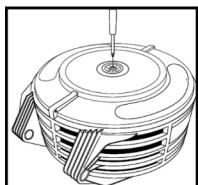


Abb. 4 - Schrauben lösen

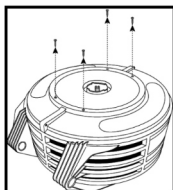


Abb. 5 - Festhalten und 2 Schrauben lösen

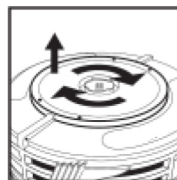


Abb. 6 - Deckel abnehmen



Abb. 7 - Neuen Deckel einsetzen

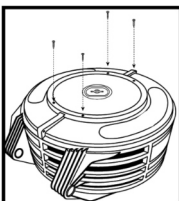


Abb. 8 - Schrauben einsetzen

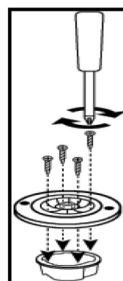


Abb. 9 - Schrauben einsetzen

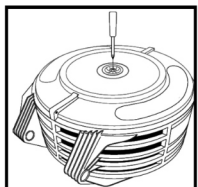


Abb. 10 - Schraube einsetzen

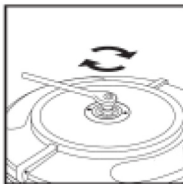


Abb. 11 - 3 Umdrehungen spannen

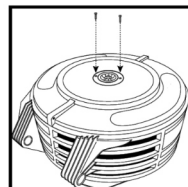
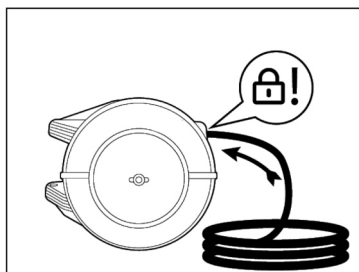


Abb. 12 - Schrauben einsetzen

## 7. Fehlerbehebung

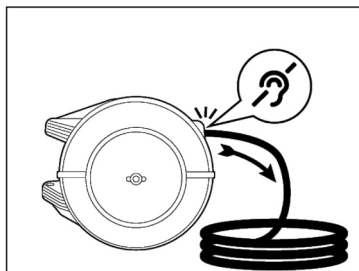

**Problem:**

Schlauch zieht sich langsam oder nicht komplett ein

- a) Düse / Werkzeug am Schlauchende zu schwer
- b) Feder hat Spannung verloren

**Lösung:**

Feder nachspannen (siehe Kapitel 3)

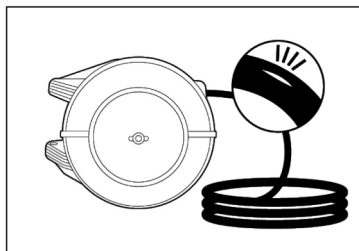

**Problem:**

Schlauchaufroller arretiert nicht

- a) Fehlerhafter Betrieb
- b) Arretierung defekt

**Lösung:**

Arretierung austauschen (siehe Kapitel 6)

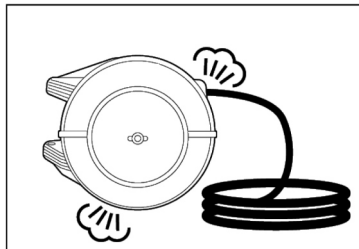

**Problem:**

Schlauch ist undicht

- a) Schlauch defekt

**Lösung:**

Schlauch austauschen (siehe Kapitel 4)


**Problem:**

Drehkörper ist undicht

- a) Drehkörper oder Dichtung defekt

**Lösung:**

Drehkörper oder Dichtung austauschen (siehe Kapitel 5)



**Carefully read this instruction booklet before using the equipment!**

## 1. General warnings

The hose reel is equipped with a spring return for hose rewinding. The hose can be fixed with the lock at every turn. The hose reel may only be used for winding up hoses. For the various models, only hoses for the media listed below with the respective working pressure may be used.

| Modell          | Media/ max. temp.     | Max. pressure |
|-----------------|-----------------------|---------------|
| DR 100 - 300 R3 | cold water + 50°C     | 8 bar         |
| DR 110 R3       | cold water + 50°C     | 8 bar         |
| AR 100 - 200 R3 | compressed air + 50°C | 17 bar        |
| WP 400 R3       | pesticides + 50°C     | 17 bar        |

The following general warnings should be observed when installing, operating or maintaining hose reel equipment. Further specific warnings pertaining to specific dangers may be found within this document

- Do not exceed the maximum working pressure for this reel (refer to the product specifications).
- Only use compatible fluids with this reel (refer to compatible fluids in product specifications)
- Check equipment daily for wear, damage or leaks. Replace worn or damaged items immediately with genuine replacement parts.
- Use equipment for intended use only.
- Do not alter or modify equipment.
- Do not let go of the hose when rewinding
- Do not attempt to stop leaks with your hand or body
- To avoid frost damage, disconnect the connection hose from the reel and the spray gun from the hose.

### Attention:

Before attempting any maintenance disconnect and turn of supply line, then release the line pressure.

## 2. Installation

Observe the following points when installing the hose reel:

- -Use mounting material that is suitable to support the weight of the hose reel. Also take into account the weight of the liquid and the spring tension.
- For ceiling mounting (Fig. 2), the hose reel must not be able to swivel. Use the fixation provided for this purpose.
- Use an M8x50 screw to fix the bolt of the wall bracket. Alternatively, a padlock can be used.
- Make a secure and tight connection as a liquid supply with the side connection. Observe the maximum working pressure of the hose reel.
- Check the hose reel for tightness.

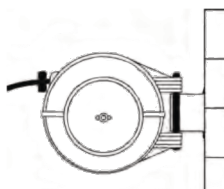


fig. 1 - wall mounting  
max. height 1,4 m

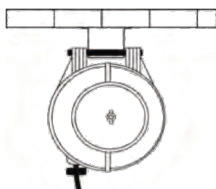


fig. 2 - overhead  
mounting, max. height  
4,5 m

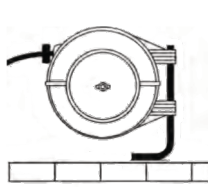


fig. 3 - bracket-floor/  
bench (accessories)

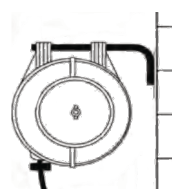


fig. 4 - bracket high wall  
mounting, max. height 4,5 m  
(accessories)

### 3. Increase spring tension

**Attention:** Before attempting any maintenance disconnect and turn of supply line, then release the line pressure. The hose must always be completely wound up.

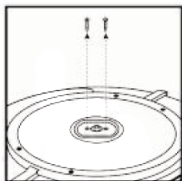


fig. 1 - remove screws

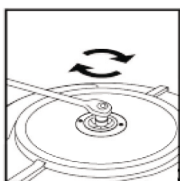


fig. 2 - add 2 complete turns. 1 click on hub equals 90°

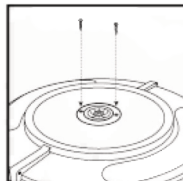


fig. 3 - replace screws

### 4. Hose replacement instructions

**Attention:** Before attempting any maintenance disconnect and turn of supply line, then release the line pressure. The hose must always be completely wound up.

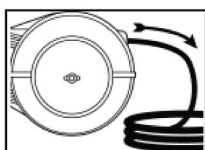


fig1. - pull out hose and latch

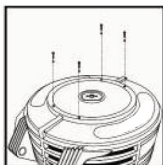


fig. 2 - remove screws

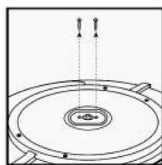


fig. 3 - remove screws



fig. 4 - Remove side plate

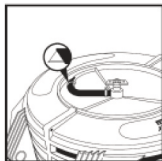


fig. 5 - remove cable tie

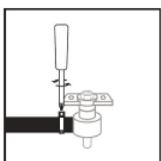


fig. 6 - remove swivel



fig. 7 - remove hose



fig. 8 - fit hose

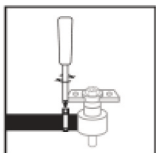


fig. 9 - attache hose to the swivel

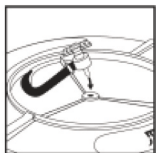


fig. 10 - fit swivel

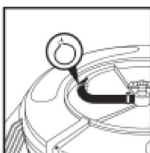


fig. 11 - fit cable tie



fig. 12 - fit side plate

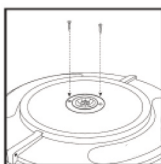


fig. 13 - fit screws

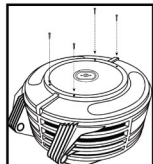


fig. 14 - fit screws

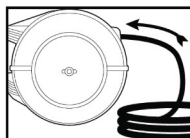


fig. 15 - recoil hose evenly into reel

## 5. Replacement swivel and seal

**Attention:** Before attempting any maintenance disconnect and turn of supply line, then release the line pressure. The hose must always be completely wound up.

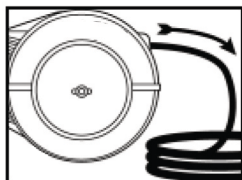


fig. 1 - pull out hose and latch

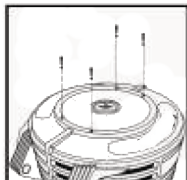


fig. 2 - remove screws

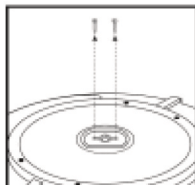


fig. 3 - remove screws



fig. 4 - remove plate



fig. 5 - remove cable tie

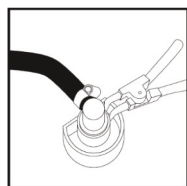


fig. 6 - remove circlip



fig. 7 - remove body from shaft.  
Replace o-Rings, apply suitable grease before mounting

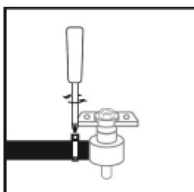


fig. 8 - attache hose to the swivel

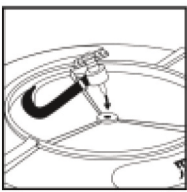


fig. 9 - fit swivel

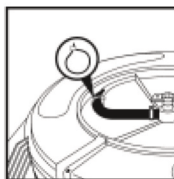


fig. 10 - fit cable tie



fig. 11 - fit side plate

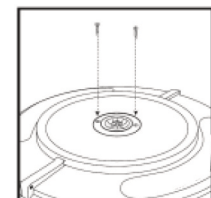


fig. 13 - fit screws

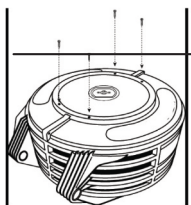


fig. 14 - fit screws

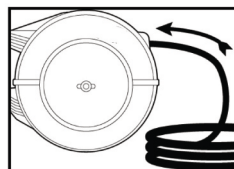


fig. 15 - recoil hose evenly to the reel

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## 6. Remove / replace side plate

**Attention:** Before attempting any maintenance disconnect and turn of supply line, then release the line pressure. The hose must always be completely wound up.

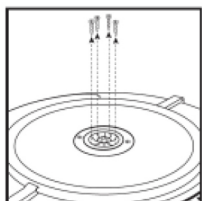


fig. 1 - remove screws

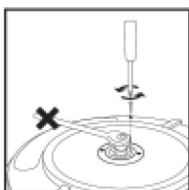


fig. 2 - hold up and remove 2 screws

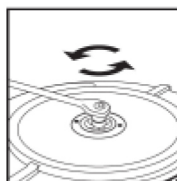


fig. 3 - release spring tension

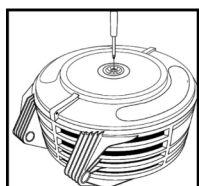


fig. 4 - remove screws

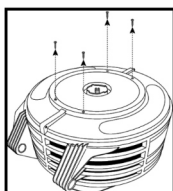


fig. 5 - hold up and remove 2 screws

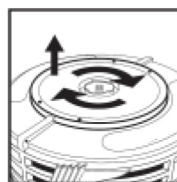


fig. 6 - remove plate



fig. 7 - fit new side plate

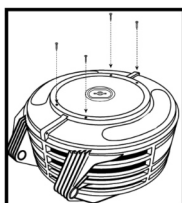


fig. 8 - fit screws

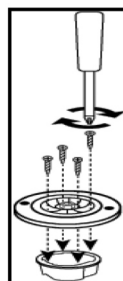


fig. 9 - fit screws

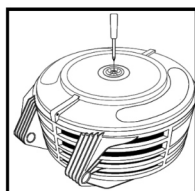


fig. 10 - fit screw

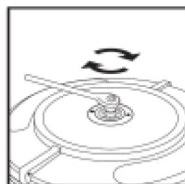


fig. 11 - add 3 complete turns

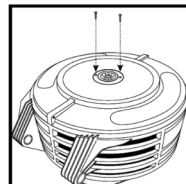
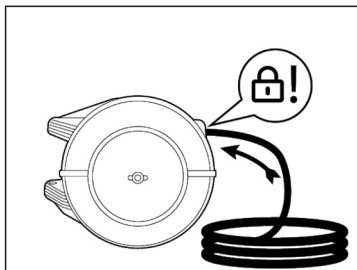


fig. 12 - fit screws

## 7. Trouble shooting

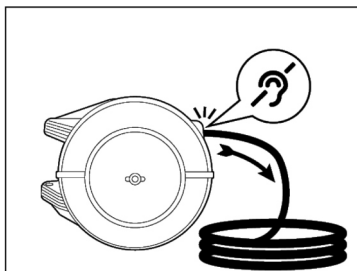

**Problem:**

Hose rewinds slowly or not complete

- a) Nozzle / gun is too heavy
- b) Spring has lost tension

**Solution:**

Increase spring tension (chapter 3)

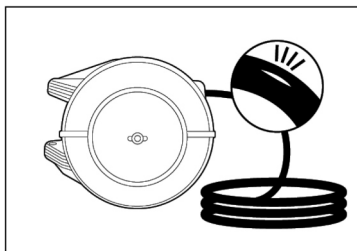

**Problem:**

Reel does not latch

- a) Incorrect operation
- b) Latch is broken

**Solution:**

Remove / replace tension side platze (chapter 6)

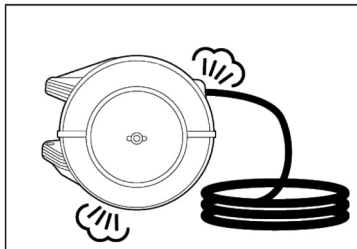

**Problem:**

Leaking from hose

- a) Split in hose

**Solution:**

Replace hose (chapter 4)


**Problem:**

Leaking from swivel

- a) Swivel or seals are worn

**Solution:**

Replacement swivel and seal (chapter 5)

**⚠ Lisez attentivement le mode d'emploi avant de mettre l'équipement en marche!**

## 1. Consignes générales

L'enrouleur est doté d'un ressort de rappel permettant l'enroulement du tuyau. Un dispositif permet de bloquer le tuyau à chaque rotation. L'enrouleur doit exclusivement être utilisé pour l'enroulement de tuyaux. Pour les différents modèles, seuls doivent être utilisés des tuyaux pour les fluides stipulés ci-dessous à la pression de travail correspondante.

| Modell          | Fluide/ Temp. max.  | Pression max. |
|-----------------|---------------------|---------------|
| DR 100 - 300 R3 | eau froide + 50°C   | 8 bar         |
| DR 110 R3       | eau froide + 50°C   | 8 bar         |
| AR 100 - 200 R3 | air comprimé + 50°C | 17 bar        |
| WP 400 R3       | pesticides + 50°C   | 17 bar        |

Les consignes suivantes doivent être observées pour l'installation, la mise en service et la maintenance de l'enrouleur. D'autres observations concernant des risques spécifiques sont mentionnées dans la suite du mode d'emploi.

- Ne dépassez jamais la pression de travail indiquée sur l'enrouleur.
- Le tuyau et l'enrouleur ne doivent entrer en contact qu'avec des liquides avec lesquels ils sont compatibles.
- Vérifiez quotidiennement l'usure et l'étanchéité du tuyau et de l'enrouleur. Les pièces défectueuses doivent être immédiatement remplacées par des pièces de rechange d'origine.
- Utilisez l'enrouleur uniquement aux fins indiquées.
- Ne pas altérer ni modifier l'enrouleur.
- Ne jamais lâcher le tuyau lors de son extraction ou de son enroulement.
- Ne jamais tenter de colmater des fuites du tuyau et de l'enrouleur avec la main ou tout autre partie du corps.
- Pour éviter les dégâts dus au gel, débranchez le tuyau de raccordement de l'enrouleur et le pistolet de pulvérisation du tuyau.

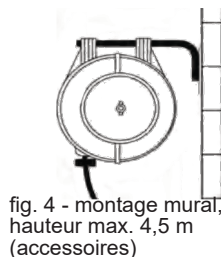
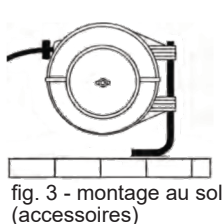
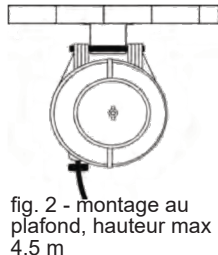
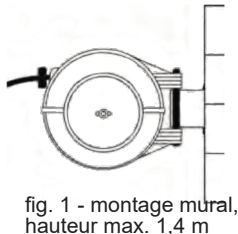
### Attention:

Avant tout acte de maintenance ou de réparation, toujours couper l'arrivée des fluides et faire chuter la pression à l'intérieur de l'enrouleur.

## 2. Installation

Lors de l'installation de l'enrouleur, observez les points suivants :

- Utiliser le matériel de montage approprié pour supporter le poids de l'enrouleur. Veuillez en l'occurrence également prendre en compte le poids du liquide et la tension du ressort.
- Pour un montage au plafond (fig. 2), l'enrouleur ne doit pas pouvoir pivoter. Utilisez à cet effet la fixation fournie.
- Utilisez une vis M8x50 pour fixer le boulon du support mural. En alternative, il est également possible d'utiliser un cadenas.
- Établissez un raccordement étanche et sécurisé avec l'alimentation en liquide par le raccord latéral. Respectez la pression de travail maximale de l'enrouleur.
- Vérifiez l'étanchéité de l'enrouleur.



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### 3. Tendre le ressort

**Attention:** Avant d'effectuer toute opération de maintenance, l'enrouleur doit être mis hors pression. Le tuyau doit toujours être intégralement enroulé.

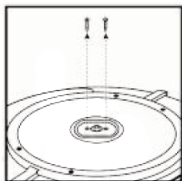


fig. 1 - desserrez les vis.

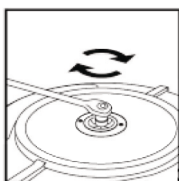


fig. 2 - tournez dans le sens des aiguilles d'une montre. 1 clic correspond à 90°

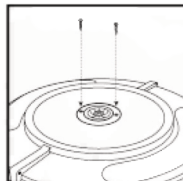


fig. 3 - serrez délicatement les 2 vis.

### 4. Remplacement du tuyau

**Attention:** Avant d'effectuer toute opération de maintenance, l'enrouleur doit être mis hors pression. Le tuyau doit toujours être intégralement déroulé.

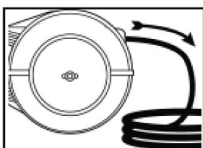


fig1. - extraire entièrement le tuyau et le bloquer

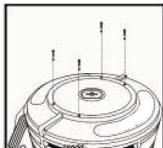


fig. 2 - desserrer les vis

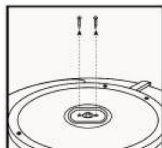


fig. 3 - desserrer les vis



fig. 4 - enlever le cache

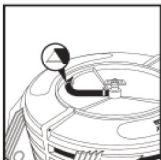


fig. 5 - enlever les serre-câble

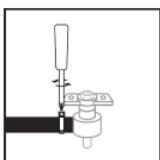


fig. 6 - enlever le tambour



fig. 7 - enlever le tuyau



fig. 8 - mettre le nouveau tuyau en place

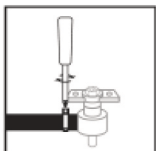


fig. 9 - monter le tuyau sur le tambour

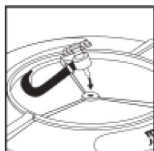


fig. 10 - mettre le tambour en place

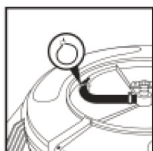


fig. 11 - mettre les serre-câbles en place



fig. 12 - monter le cache

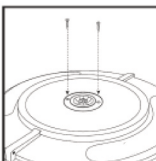


fig. 13 - serrer les vis

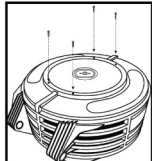


fig. 14 - serrer les vis

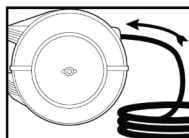


fig. 15 - enrouler uniformément le tuyau

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## 5. Remplacement du tambour et du joint

**Attention:** Avant d'effectuer toute opération de maintenance, l'enrouleur doit être mis hors pression. Le tuyau doit toujours être intégralement déroulé.

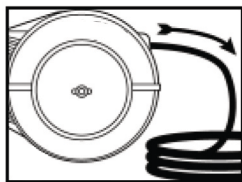


fig. 1 - extraire entièrement le tuyau et le bloquer

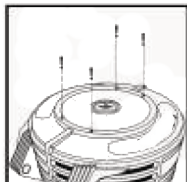


fig. 2 - desserrer les vis

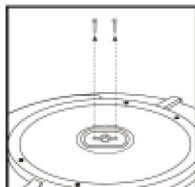


fig. 3 - desserrer les vis



fig. 4 - enlever le cache



fig. 5 - enlever les serre-câbles

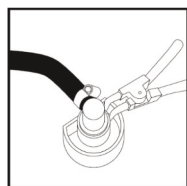


fig. 6 - enlever le circlip



fig. 7 - enlever le tambour de l'axe. Lubrifier les joints toriques avant de les mettre en place. Monter le tuyau sur le tambour

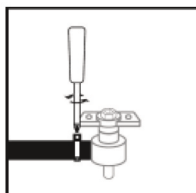


fig. 8 - monter le tuyau sur le tambour

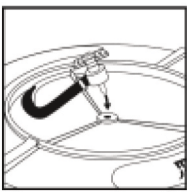


fig. 9 - mettre le tambour en place

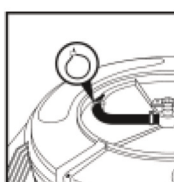


fig. 10 - mettre les serre-câbles en place



fig. 11 - monter le cache

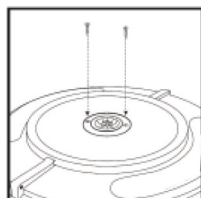


fig. 13 - serrer les vis

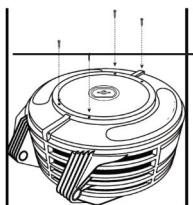


fig. 14 - serrer les vis

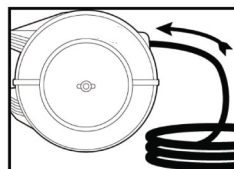


fig. 15 - enrouler uniformément le tuyau

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## 6. Extraction / remplacement du cache

**Attention:** Avant d'effectuer toute opération de maintenance, l'enrouleur doit être mis hors pression. Le tuyau doit toujours être intégralement déroulé.

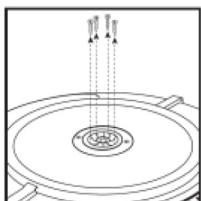


fig. 1 - desserrer les vis

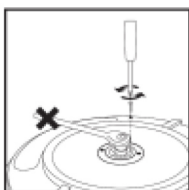


fig. 2 - le maintenir et desserrer 2 vis

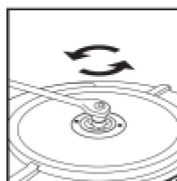


fig. 3 - détendre le ressort

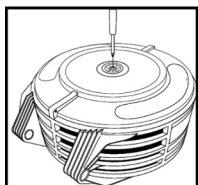


fig. 4 - desserrer les vis

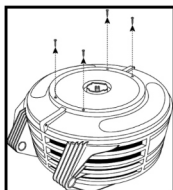


fig. 5 - le maintenir et desserrer 2 vis

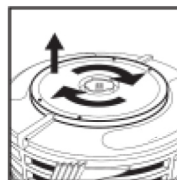


fig. 6 - enlever le cache



fig. 7 - mettre le nouveau cache en place

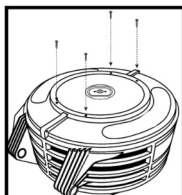


fig. 8 - serrer les vis

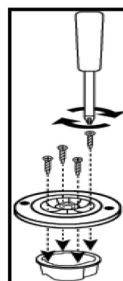


fig. 9 - serrer les vis

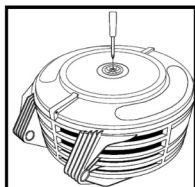


fig. 10 - mettre les vis en place

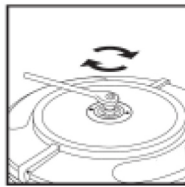


fig. 11 - opérer 3 tours

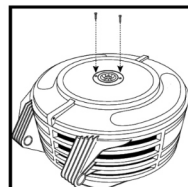
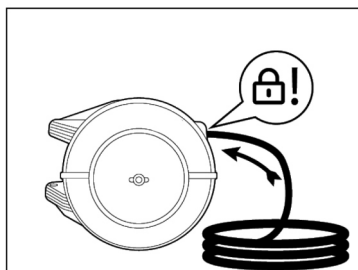
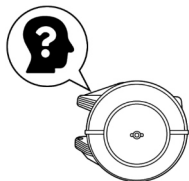


fig. 12 - serrer les vis

## 7. Résolution de problèmes

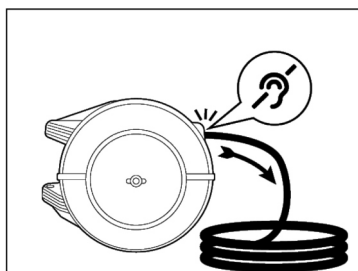

**Problème:**

Le tuyau se rétracte lentement ou pas entièrement

- a) L'outil / la buse à l'extrémité du tuyau est trop lourd(e)
- b) Le ressort a perdu de sa tension

**Solution:**

Retendre le ressort (voir point 3)

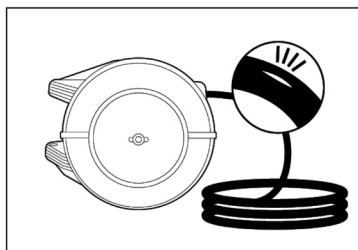

**Problème:**

L'enrouleur ne se verrouille pas

- a) Fonctionnement défectueux
- b) Dispositif de verrouillage défectueux

**Solution:**

Remplacer le dispositif de verrouillage (voir point 6)

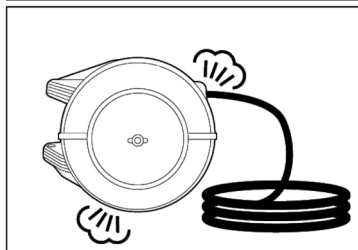

**Problème:**

Le tuyau fuit

- a) Tuyau défectueux

**Solution:**

Remplacer le tuyau (voir point 4)


**Problème:**

Le tambour fuit

- a) Tambour ou joint défectueux

**Solution:**

Remplacer le tambour ou le joint (voir point 5)

# **! Lea detenidamente el manual de instrucciones antes de utilizar el equipo!**

## **1. Indicaciones generales**

El carrete de manguera está equipado con un muelle de recuperación para enrollar la manguera. La manguera se puede fijar en cada vuelta mediante un sistema de enclavamiento. El carrete de manguera debe utilizarse únicamente para enrollar mangueras. En función del modelo solo pueden utilizarse mangueras para los medios especificados a continuación y con la presión de trabajo correspondiente.

| Modelo          | Medio/ temp. máxima   | Presión máxima |
|-----------------|-----------------------|----------------|
| DR 100 - 300 R3 | agua fría + 50°C      | 8 bar          |
| DR 110 R3       | agua fría + 50°C      | 8 bar          |
| AR 100 - 200 R3 | air comprimido + 50°C | 17 bar         |
| WP 400 R3       | plaguicida + 50°C     | 17 bar         |

Tenga en cuenta las siguientes indicaciones durante la instalación, la puesta en servicio y el mantenimiento del carrete de manguera. En las presentes instrucciones de uso también encontrará indicaciones adicionales sobre posibles peligros especiales.

- No supere la presión de trabajo especificada para el carrete de manguera bajo ningún concepto.
- La manguera y el carrete de manguera solo deben entrar en contacto con los líquidos para los cuales han sido autorizados
- Compruebe diariamente el desgaste y la existencia de fugas en la manguera y el carrete de manguera. Las piezas defectuosas deben sustituirse de inmediato utilizando únicamente repuestos originales.
- Utilice el carrete de manguera solo para el uso previsto.
- No modifique ni altere el carrete de manguera.
- No deje suelta la manguera bajo ningún concepto al extraerla o enrollarla.
- No intente detener las fugas de la manguera o el carrete de manguera con la mano u otras partes del cuerpo.
- Para evitar daños por heladas, desconecte la manguera de conexión del carrete y la pistola pulverizadora de la manguera

### **Atención:**

Antes del mantenimiento o la reparación, desconecte el suministro del medio y elimine toda la presión del carrete de manguera.

## **2. Installation**

Tenga en cuenta los siguientes puntos durante la instalación del carrete de manguera:

- Utilice material de montaje apto para soportar el peso del carrete de manguera. Tenga en cuenta también el peso del líquido y la tensión del muelle.
- Si efectúa el montaje en el techo (fig. 2), el carrete de manguera no debe poder girar. Utilice para ello el elemento de fijación suministrado.
- Utilice un tornillo M8x50 para fijar el perno del soporte de pared. También puede utilizar un candado.
- Conecte el suministro de líquido a través de la toma lateral garantizando una unión segura y hermética. Respete la presión de trabajo máxima del carrete de manguera.
- Compruebe si el carrete de manguera presenta fugas.

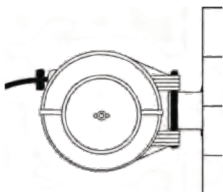


fig. 1 - montaje en pared, altura max. 1,4 m

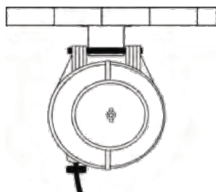


fig. 2 - montaje en el techo, altura max. 4,5 m

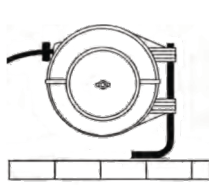


fig. 3 - montaje en el suelo (accesorio)

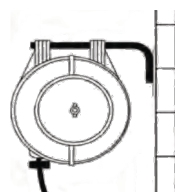


fig. 4 - montaje en el techo, altura max. 4,5 m (accesorio)

### 3. Tensión del muelle

**Atención:** Antes de realizar los trabajos de mantenimiento, es necesario eliminar toda la presión del carrete de manguera. La manguera debe estar siempre completamente enrollada.

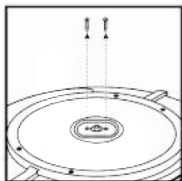


fig. 1 - retire los tornillos

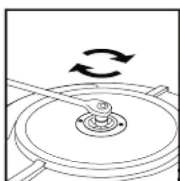


fig. 2 - gírelos en el sentido de las agujas del reloj. 1 "clik" equivale a 90°

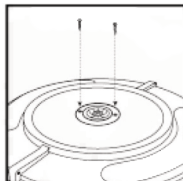


fig. 3 - apriete con cuidado los 2 tornillos

### 4. Sustitución de la manguera

**Atención:** Antes de realizar los trabajos de mantenimiento, es necesario eliminar toda la presión del carrete de manguera. La manguera debe estar siempre completamente enrollada.

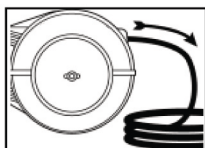


fig. 1 - extraiga completamente la manguera y bloquéela

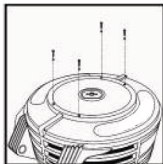


fig. 2 - retire los tornillos

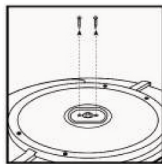


fig. 3 - retire los tornillos

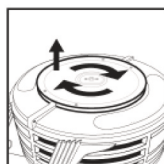


fig. 4 - extraiga la tapa

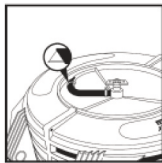


fig. 5 - retire el sujetacables

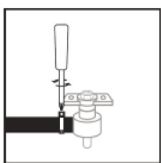


fig. 6 - retire el pivote



fig. 7 - retire la manguera



fig. 8 - coloque la manguera

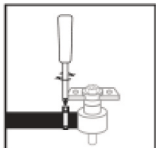


fig. 9 - monte la manguera en el pivote

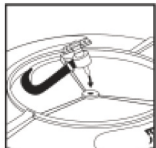


fig. 10 - instale el pivote

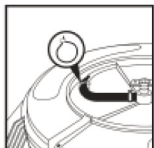


fig. 11 - coloque el sujetacables



fig. 12 - monte la tapa

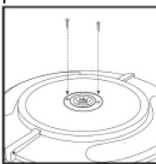


fig. 13 - apriete los tornillos

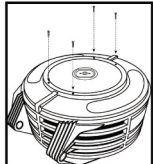


fig. 14 - apriete los tornillos

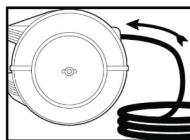


fig. 15 - enrolle la manguera de forma homogénea

## 5. Sustitución del pivote y de la junta

**Atención:** Antes de realizar los trabajos de mantenimiento, es necesario eliminar toda la presión del carrete de manguera. La manguera debe estar siempre completamente enrollada.

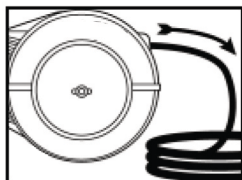


fig. 1- extraiga completamente la manguera y bloquéela

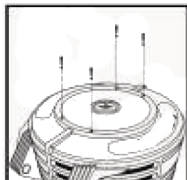


fig. 2- retire los tornillos

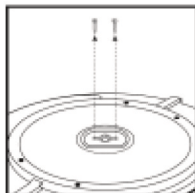


fig. 3 - retire los tornillos



fig. 4 - extraiga la tapa



fig. 5 retire el sujetacables

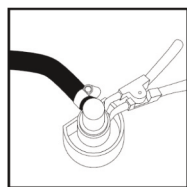


fig. 6 - retire el anillo de retención



fig. 7 - retire el pivote del eje.  
Lubrique y coloque las juntas tóricas

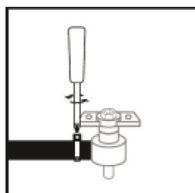


fig. 8 - monte la manguera en el pivote

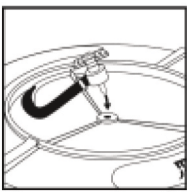


fig. 9 - instale el pivote

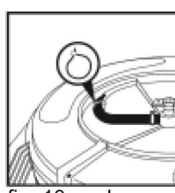


fig. 10 - coloque el sujetacables



fig. 11 - monte la tapa

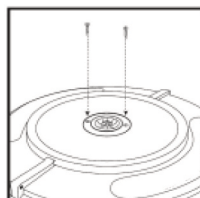


fig. 13 - apriete los tornillos

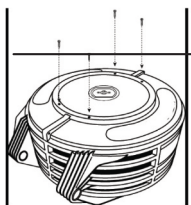


fig. 14 - apriete los tornillos

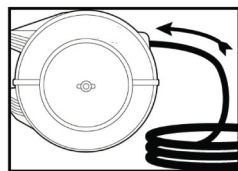


fig. 15 - enrolle la manguera de forma homogénea

## 6. Extracción / sustitución de la tapa

**Atención:** Antes de realizar los trabajos de mantenimiento, es necesario eliminar toda la presión del carrete de manguera. La manguera debe estar siempre completamente enrollada.

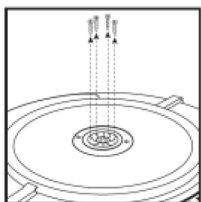


fig. 1 - retire los tornillos

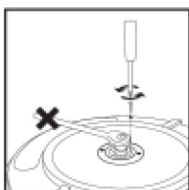


fig. 2 - sujétela y retire 2 tornillos

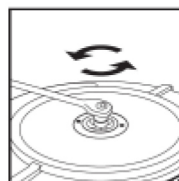


fig. 3 - elimine la tensión del muelle

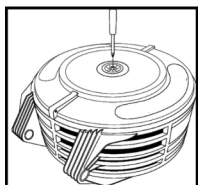


fig. 4 - retire los tornillos

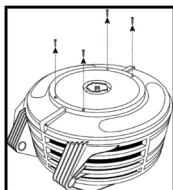


fig. 5 - sujétela y retire 2 tornillos

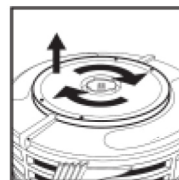


fig. 6 - extraiga la tapa



fig. 7 - coloque la tapa nueva

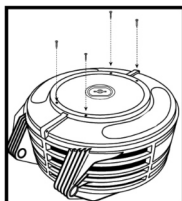


fig. 8 - apriete los tornillos

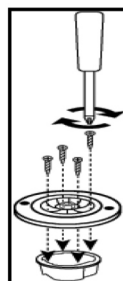


fig. 9 - apriete los tornillos

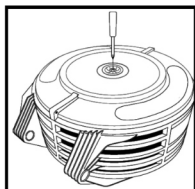


fig. 10 - apriete los tornillos

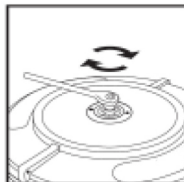


fig. 11 - apriételos efectuando 3 giros

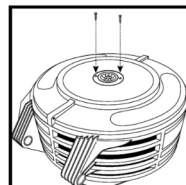
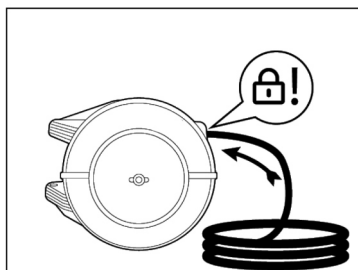
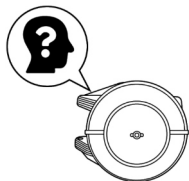


fig. 12 - apriete los tornillos

## 7. Resolución de problemas

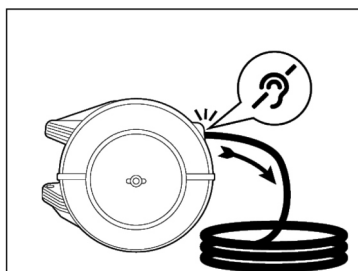

**Problema:**

La manguera no se retrae completamente o lo hace muy despacio

- a) La boca/herramienta situada en el extremo de la manguera es demasiado pesada
- a) El muelle está destensado

**Solución:**

Vuelva a tensar el muelle (véase el capítulo 3)

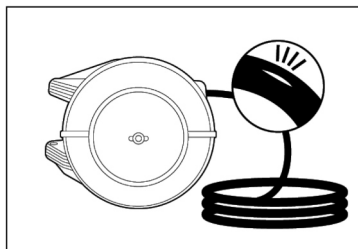

**Problema:**

El carrete de manguera no se bloquea

- a) Funcionamiento defectuoso
- b) Sistema de enclavamiento defectuoso

**Solución:**

Sustituya el sistema de enclavamiento (véase el capítulo 6)

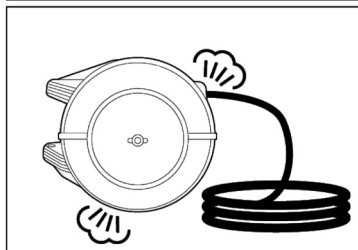

**Problema:**

La manguera tiene fugas

- a) Manguera defectuosa

**Solución:**

Sustituya la manguera (véase el capítulo 4)


**Problema:**

El pivote tiene fugas

- a) Pivote o junta defectuosos

**Solución:**

Sustituya el pivote o la junta (véase el capítulo 5)

**⚠ Leggere attentamente il libretto di istruzioni prima di mettere in funzione l'attrezzatura!**

## 1. Indicazioni generali

L'avvolgitore per tubi flessibili è provvisto di una molla di richiamo atta all'avvolgimento del tubo flessibile. Mediante il dispositivo di arresto è possibile bloccare il tubo flessibile in seguito a ogni rotazione completa. L'avvolgitore per tubi flessibili è destinato unicamente all'avvolgimento di tubi flessibili. I diversi modelli richiedono l'utilizzo esclusivamente di tubi flessibili idonei per i fluidi indicati di seguito e alla pressione di esercizio corrispondente.

| Modello         | Fluido/ temp. massima | Pressione massima |
|-----------------|-----------------------|-------------------|
| DR 100 - 300 R3 | acqua fredda + 50°C   | 8 bar             |
| DR 110 R3       | acqua fredda + 50°C   | 8 bar             |
| AR 100 - 200 R3 | aria compressa + 50°C | 17 bar            |
| WP 400 R3       | pesticidi + 50°C      | 17 bar            |

Le indicazioni a seguire devono essere rispettate durante l'installazione, la messa in funzione e la manutenzione dell'avvolgitore per tubi flessibili. Ulteriori indicazioni in merito a pericoli speciali sono fornite successivamente nelle presenti istruzioni per l'uso.

- Non superare mai la pressione di esercizio indicata sull'avvolgitore per tubi flessibili.
- Il tubo flessibile e l'avvolgitore devono entrare in contatto solo con liquidi per cui sono idonei.
- Verificare quotidianamente che il tubo flessibile e l'avvolgitore siano a tenuta e privi di segni di usura. Le parti difettose devono essere sostituite immediatamente e soltanto con ricambi originali.
- Impiegare l'avvolgitore per tubi flessibili esclusivamente per l'uso previsto.
- Non modificare o alterare l'avvolgitore per tubi flessibili.
- Non rilasciare il tubo flessibile durante lo svolgimento e l'avvolgimento.
- Non cercare mai di coprire eventuali perdite sul tubo flessibile o sull'avvolgitore con le mani o altre parti del corpo.
- Per evitare danni da gelo, scollegare il tubo di collegamento dall'avvolgitore e la pistola a spruzzo dal tubo flessibile.

### Attention:

Prima di eseguire qualsiasi intervento di manutenzione o riparazione, staccare sempre l'alimentazione del fluido e "depressurizzare" l'avvolgitore.

## 2. Installare l'avvolgitore

Utilizzare materiale di montaggio idoneo a sorreggere il peso dell'avvolgitore per tubi flessibili. Tenere conto anche del peso del liquido e della tensione della molla.

- In caso di montaggio sul soffitto (Fig. 2), l'avvolgitore non deve risultare girevole. Impiegare in questo caso il materiale di fissaggio fornito in dotazione.
- Utilizzare una vite M8x50 per fissare il perno del supporto a muro. In alternativa è possibile ricorrere anche a un lucchetto.
- Stabilire un collegamento sicuro e a tenuta per l'alimentazione del liquido con l'attacco laterale. Rispettare la pressione di esercizio massima dell'avvolgitore per tubi flessibili.
- Verificare che l'avvolgitore per tubi flessibili sia a tenuta

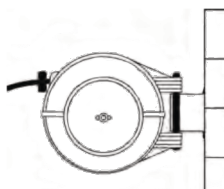


fig. 1 - montaggio a muro, altezza massima 1,4 m

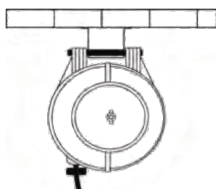


fig. 2 - montaggio sopra la testa, altezza massima 4,5 m

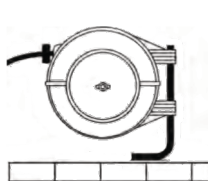


fig. 3 - montaggio a pavimento (accessori)

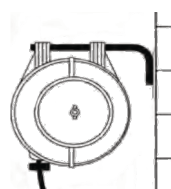


fig. 4 - montaggio a muro, max. height altezza massima 4,5 m (accessori)

### 3. Tendere la molla

**Attenzione:** Prima di eseguire qualsiasi operazione di manutenzione è necessario “depressurizzare” l'avvolgitore per tubi flessibili. Avvolgere completamente il tubo flessibile prima di procedere con l'intervento.

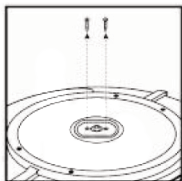


fig. 1 - allentare le viti

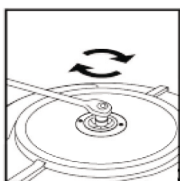


fig. 2 - ruotare la molla in senso orario. 1 “clic” corrisponde a 90°

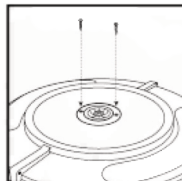


fig. 3 -avvitare le 2 viti con cautela

### 4. Sostituire il tubo flessibile

**Attenzione:** Prima di eseguire qualsiasi operazione di manutenzione è necessario “depressurizzare” l'avvolgitore per tubi flessibili. Avvolgere completamente il tubo flessibile prima di procedere con l'intervento.

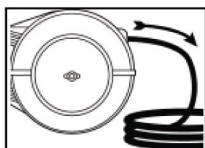


fig1. - estrarre completamente il tubo flessibile e bloccarlo

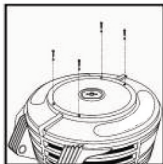


fig. 2 - allentare le viti

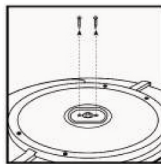


fig. 3 - allentare le viti

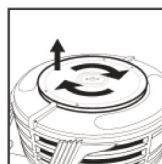


fig. 4 - rimuovere il coperchio

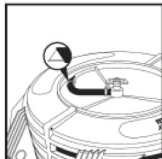


fig. 5 -rimuovere la fascetta serracavi

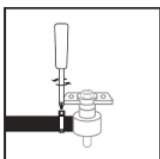


fig. 6 - rimuovere il raccordo girevole



fig. 7 - rimuovere il tubo flessibile



fig. 8 - inserire il tubo flessibile

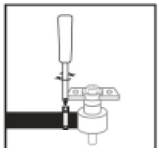


fig. 9 - collegare il tubo flessibile al raccordo girevole



fig. 10 - montare il raccordo girevole

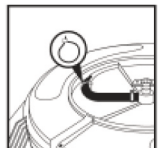


fig. 11 - montare la fascetta serracavi



fig. 12 - montare il coperchio

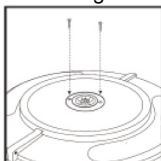


fig. 13 - avvitare le viti

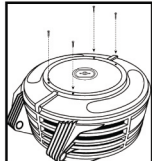


fig. 14 - avvitare le viti

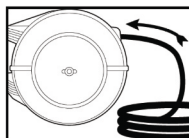


fig. 15 - Avvolgere il tubo flessibile in maniera uniforme

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## 5. Sostituire il raccordo girevole e la guarnizione

**Attenzione:** Prima di eseguire qualsiasi operazione di manutenzione è necessario “depressurizzare” l'avvolgitore per tubi flessibili. Avvolgere completamente il tubo flessibile prima di procedere con l'intervento.

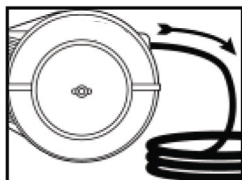


fig. 1 - estrarre completamente il tubo flessibile e bloccarlo

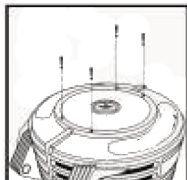


fig. 2 - allentare le viti

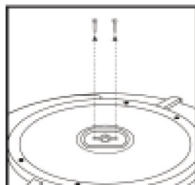


fig. 3 - allentare le viti



fig. 4 - rimuovere il coperchio



fig. 5 -rimuovere la fascetta serracavi

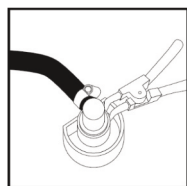


fig. 6 - rimuovere l'anello Seeger



fig. 7 - Rimuovere il raccordo girevole dall'asse. Inserire gli O-ring lubrificandoli in precedenza

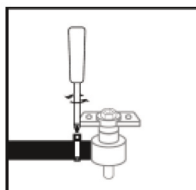


fig. 8 - collegare il tubo flessibile al raccordo girevole

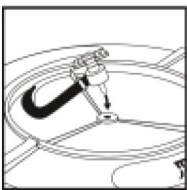


fig. 9 - montare il raccordo girevole

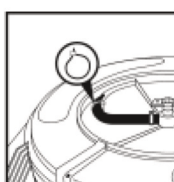


fig. 10 - montare la fascetta serracavi



fig. 11 - montare il coperchio

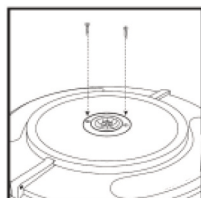


fig. 13 - avvitare le viti

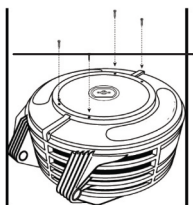


fig. 14 - avvitare le viti

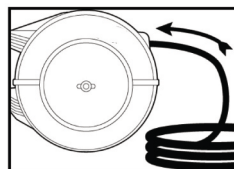


fig. 15 - avvolgere il tubo flessibile in maniera uniforme

## 6. Rimuovere / sostituire il coperchio

**Attenzione:** Prima di eseguire qualsiasi operazione di manutenzione è necessario “depressurizzare” l'avvolgitore per tubi flessibili. Avvolgere completamente il tubo flessibile prima di procedere con l'intervento.

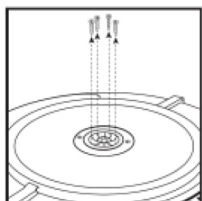


fig. 1 - allentare le viti

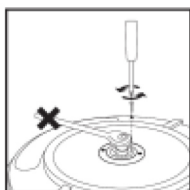


fig. 2 - mantenere fermo il coperchio e allentare le 2 viti

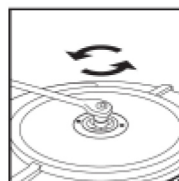


fig. 3 - scaricare la molla

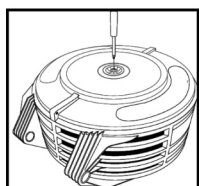


fig. 4 - allentare le viti

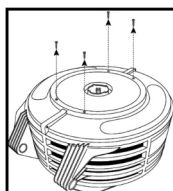


fig. 5 - Mantenere fermo il coperchio e allentare le 2 viti

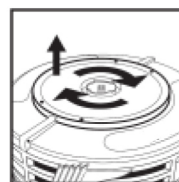


fig. 6 - rimuovere il coperchio



fig. 7 - applicare il nuovo coperchio

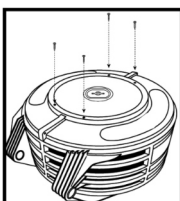


fig. 8 - inserire le viti

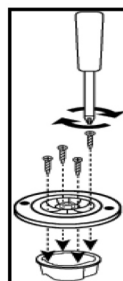


fig. 9 - inserire le viti

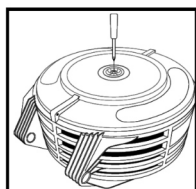


fig. 10 - inserire le viti

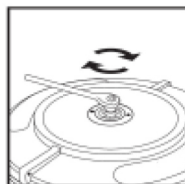


fig. 11 - tendere la molla con 3 rotazioni complete

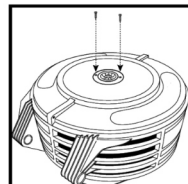
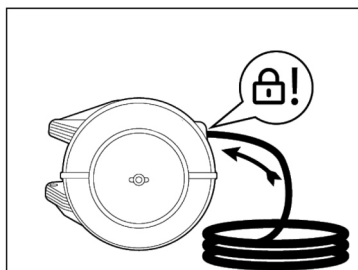
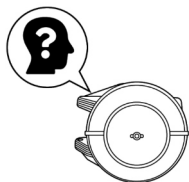


fig. 12 - inserire le viti

## 7. Risoluzione dei problemi

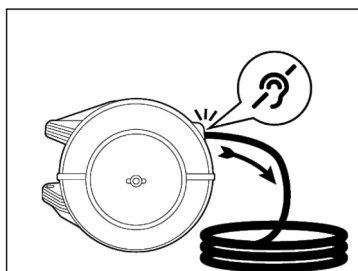

**Problema:**

Il tubo flessibile rientra lentamente oppure solo in parte

- a) L'ugello o l'elemento all'estremità del tubo flessibile è troppo pesante
- a) La molla si è scaricata

**Soluzione:**

Tendere la molla (vedi capitolo 3)

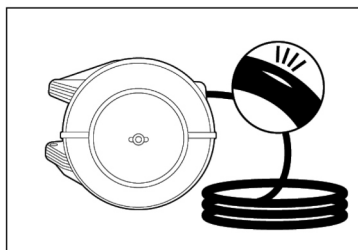

**Problema:**

L'avvolgitore non si arresta

- a) Funzionamento scorretto
- b) Dispositivo di arresto difettoso

**Soluzione:**

Sostituire il dispositivo di arresto (vedi capitolo 6)

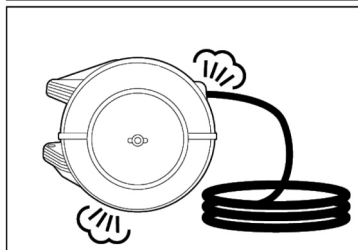

**Problema:**

Il tubo flessibile non è a tenuta

- a) Tubo flessibile difettoso

**Soluzione:**

Sostituire il tubo flessibile (vedi capitolo 4)


**Problema:**

Il raccordo girevole non è a tenuta

- a) Raccordo girevole o guarnizione difettoso

**Soluzione:**

Sostituire il raccordo girevole o la guarnizione (vedi capitolo 5)

- DE** Konformitätserklärung nach Vorgabe von Anhang II Teil der Maschinenrichtlinie 2006/42/EG
- GB** Declaration of conformity in accordance with annex II part A of directive 2006/42/EC
- FR** Déclaration UE de conformité aux termes de l'annex II partie A de la directive 2006/42/CE
- ES** Declaración UE de conformidad con arreglo al anexo II parte A de la directiva 2006/42/CE
- IT** Dichiarazione UE di conformità ai sensi dell'allegato II parte A della direttiva 2006/42/CE

**Ebinger GmbH**

Technisches Equipment

Edesheimer Str. 51

DE-76835 Rhodt / Germany

- DE** erklärt, dass die unten genannten Maschinen in allen Teilen den Vorgaben der geltenden europäischen Richtlinie entsprechen: 2006/42/EG (Maschinenrichtlinie).
- GB** declares that the equipment models indicated below are compliance in all their parts with the following applicable european directives: 2006/42/EG (the Machinery Directive)
- FR** declare que les modèles de machine indiqués ci-dessous sont conformes dans toutes leurs parties aux directives européennes applicables suivantes: 2006/42/CE (directive machines)
- ES** declara que los modelos de máquina indicados abajo están conformes en todas las partes con las siguientes directivas europeas aplicables: 2006/42/CE (la directiva sobre maquinaria)
- IT** dichiara che i modelli di macchina sotto indicati sono conformi in tutte le loro parti alle seguenti direttive europee applicabili: 2006/42/CE (direttive europee applicabili)

Schlauchaufroller / hose reel / enrouleur / enrolladore /  
avvolgitubo DR 100-300 R3, DR 110 R3, AR 100 - 200 R3,  
WP 400 R3

- DE** Zur sachgerechten Umsetzung der in der EG-Richtlinien genannten Sicherheits- und Gesundheitsanforderungen wurden folgende Normen angewendet: EN ISO 12100:2010 (Maschinensicherheit)
- GB** The following standards have been applied for the proper implementation of the health and safety requirements specified in the EC Directives: EN ISO 12100:2010 (Safety of Machinery)
- FR** Afin de mettre en œuvre de manière appropriée les exigences de sécurité et de santé visées par les directives communautaires, les normes suivantes ont été appliquées: EN ISO 12100:2010 (sécurité Machines)
- ES** Se han aplicado las siguientes normas para la correcta aplicación de los requisitos de seguridad y salud especificados en las directivas de la CE: EN ISO 12100:2010 (seguridad de la maquinaria)
- IT** Per la corretta attuazione dei requisiti di salute e sicurezza specificati nelle Direttive CE sono state applicate le seguenti norme: EN ISO 12100:2010 (Sicurezza delle macchine)

Datum / Date /  
Fecha / Data  
09/2023

Geschäftsführer / managing director / directeur  
général / director general / amministratore delegato

**Markus Ebinger**

DE

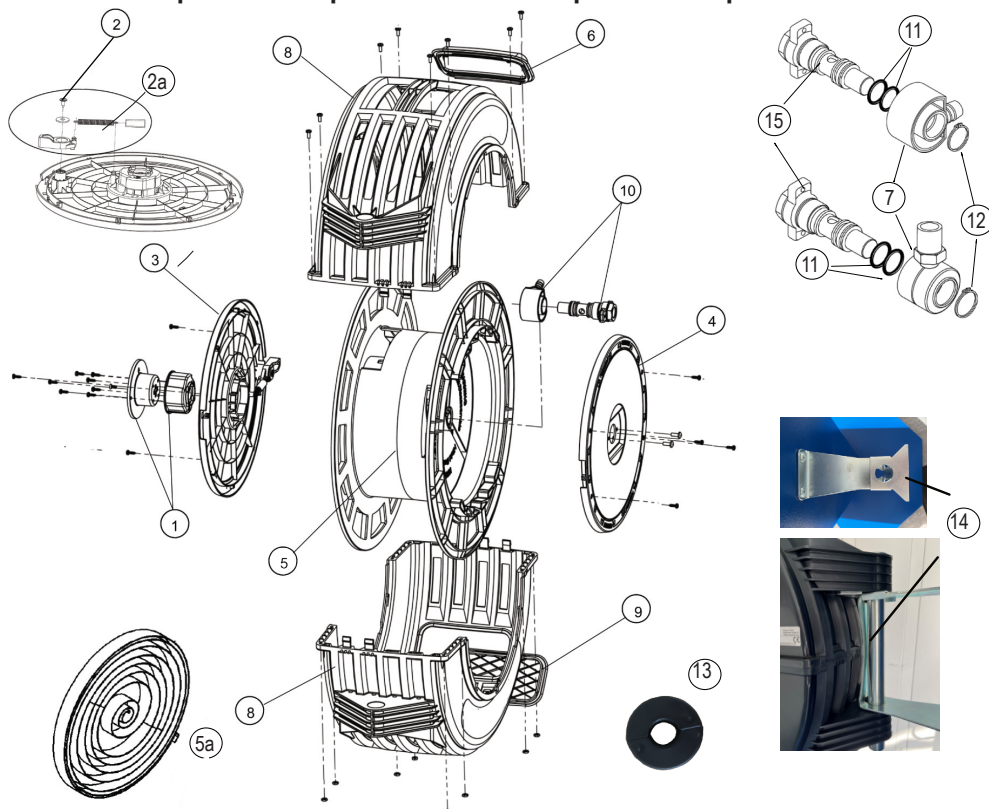
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## Ersatzteile / Spare Parts / pièces détachées / piezas de repuesto / ricambi



| No | Item-No.                           |                                                                                                                                      | No | Item-No.                                        |                                                                                                                              |
|----|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 1  | 012-R3THS                          | Federmitnehmer                                                                                                                       | 8  | 012-R3OCTDGREYEB<br>012-R3OCTDGREENERB          | dunkelgrau<br>grün<br>Trommelgehäuse 1. Hälfte (Farbe angeben)                                                               |
| 2  | 012-R3LS                           | Arretierzahn mit Feder                                                                                                               | 9  | 012-R3LISGREY<br>012-R3LISGREENERB              | dunkelgrau<br>grün<br>Abdeckplatte Gehäuse                                                                                   |
| 2a | 012-RP155                          | Feder für Arretierung                                                                                                                | 10 | 012-RS1S<br>012-RS1S3<br>012-RS26S<br>012-RS46S | DR 100, 110, 200<br>DR 300<br>AR 100, WP 400<br>AR 200<br>Drehkörper komplett                                                |
| 3  | 012-R3LPS                          | Arretier-Seitenplatte mit Feder und Arretier-zahn (inkl. No. 2)                                                                      | 11 | 012-BS115<br>012-BS115a                         | DR 100, 110, 200, WP 400<br>AR 100, 200<br>O-Ring<br>O-Ring                                                                  |
| 4  | 012-R3IPS                          | Einlass-Seitenplatte                                                                                                                 | 12 | 012-Z9S                                         | Seegerring                                                                                                                   |
| 5  | 012-R3DAS1<br>012-R3DAS            | DR 100, AR 100, WP 400<br>DR 110, 200, 300, AR 200<br>Zugfeder mit Trommel-Gehäuse                                                   | 13 | 012-RP1561S<br>012-RP1563S<br>012-RP1568S       | DR 100, AR 100, WP 400<br>DR 200, DR 110, AR 200<br>DR 300<br>Schlauchstopper ½"<br>Schlauchstopper ¾"<br>Schlauchstopper ¾" |
| 5a | N000293<br>N000296                 | DR 100, AR 100, WP 400<br>DR 110, 200, 300, AR 200<br>Zugfeder (Einbau nur durch Fachwerk-statt mögl.)                               | 14 | 012-RB9S                                        | Fixierung Wandhalter schwenkbar                                                                                              |
| 6  | 012-R3MS                           | Schlaucheinführung                                                                                                                   | 15 | 012-RS28<br>012-RS111                           | DR 100, 110, 200, 300<br>AR 100, 200, WP 400<br>Drehkörperachse, Kst<br>Drehkörperachse, Alu                                 |
| 7  | 012-RS41<br>012-RS42<br>012-RS45EB | AR 100, WP 400<br>DR 100, 110, 200, AR 200<br>DR 300<br>Drehkörper, 10mm Tülle<br>Drehkörper, 12,5mm Tülle<br>Drehkörper, 19mm Tülle |    |                                                 |                                                                                                                              |

DE

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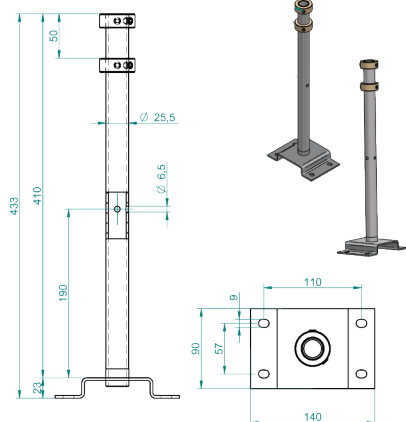
FR

ES

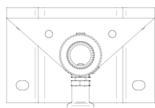
IT

## Ersatzteile / Spare Parts / pièces détachées / piezas de repuesto / ricambi\*

15

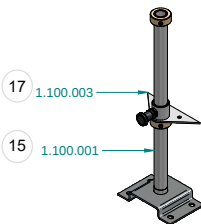


17

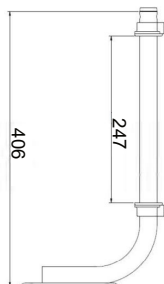
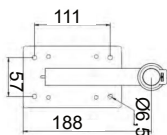


17 1.100.003

15 1.100.001



18



| No. | Item-No.  |                                                            |
|-----|-----------|------------------------------------------------------------|
| 15  | 1.100.001 | Bodenhalter, schwere Ausführung, z. B. zur Fahrzeugmontage |
| 16  | 1.100.002 | Wandhalter mit Bolzen (Serienausstattung)                  |
| 17  | 1.100.003 | Fixierung f. Bodenhalter, schwere Ausführung               |
| 18  | 1.100.004 | Bodenhalter, leichte Ausführung                            |

\*alle Maßangaben in mm

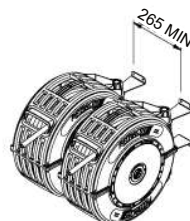
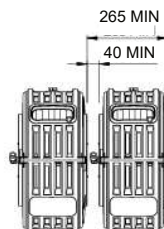
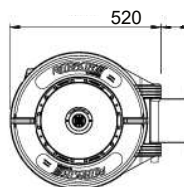
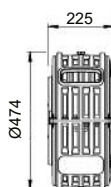
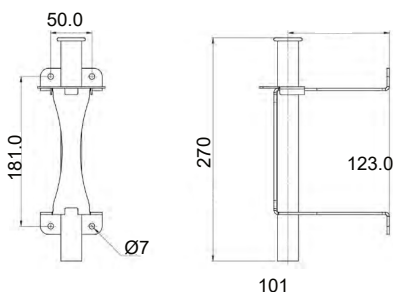
\*all dimensions in mm

\*toutes les dimensions sont en mm

\*todas las dimensiones en mm

\*tutte le dimensioni sono in mm

16



| DE | Schlauch,<br>lose  | Anschlusschlauch<br>lose           | Schlauch komplett<br>mit Armatur            | Anschlusschlauch<br>komplett mit Armatur         | Spritzpistole          |
|----|--------------------|------------------------------------|---------------------------------------------|--------------------------------------------------|------------------------|
| GB | single hose        | single connection<br>hose          | Hose complete<br>with fitting               | connection hose with<br>fitting                  | Spray gun              |
| FR | tuyau unique       | Tuyau de<br>raccordement<br>unique | Tuyau complet<br>avec raccord               | Tuyau de<br>raccordement complet<br>avec raccord | Pistolet à<br>peinture |
| ES | Manguera<br>simple | Manguera de<br>conexión simple     | Manguera<br>completa con<br>accesorio       | Manguera de conexión<br>completa con racor       | Pistola                |
| IT | Tubo singolo       | tubo di collegamento<br>singolo    | Tubo flessibile<br>completo<br>con raccordo | Tubo di collegamento<br>completo di raccordo     | Pistola a<br>spruzzo   |



|        |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|
| DR 100 | 130.802 | 130.841 | ES10204 | ES10209 | 130.141 |
| DR 200 | 130.839 | 130.842 | ES10205 | ES10210 | 130.140 |
| DR 300 | 130.840 | 130.843 | ES10206 | ES10211 | 130.140 |
| AR 100 | 130.849 | -       | ES10207 | -       | -       |
| AR 200 | 130.850 | -       | ES10208 | -       | -       |

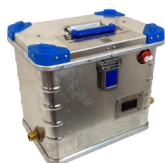
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