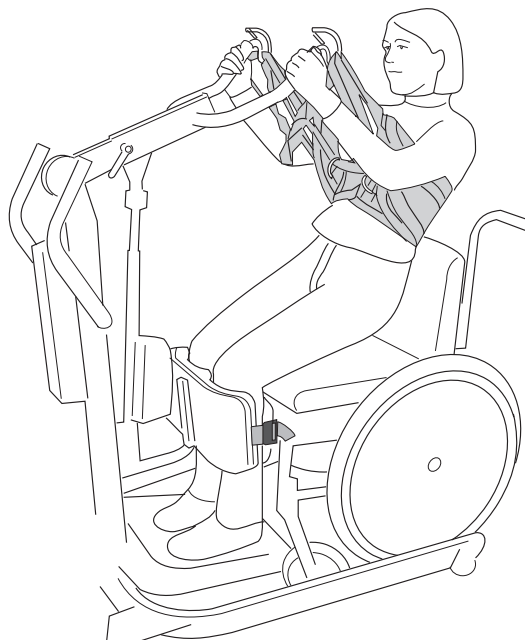


# Liko™ SafetyVest™ Mod. 93



## Instructions for Use



### Product Description

The Liko SafetyVest is a sit-to-stand vest that is designed to lift around the back and under the arms. The inside is lined with a material that is intended to prevent the vest from sliding up on the body. The waist belt, which is sewn to the vest, helps to avoid the risk of a patient sliding out of the sit-to-stand vest.

You must use a combination of two loops on each hook when attaching the sling to the lift.

The Liko SafetyVest is available in several different sizes.

The Liko SafetyVest is mainly intended for use in combination with the Sabina™ sit-to-stand lift with a narrow sling bar (Sabina 350 SlingBar).

In combination with Sabina sit-to-stand lift, the SafetyVest forms a functional unit. For complete information and best results, read the instruction for use for both products.

A complete understanding of the contents of these instruction for use is essential, and the equipment should only be used by staff who are fully informed.


















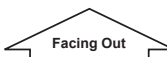
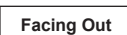

*In this document, the person being lifted is referred to as the patient, and the person helping is referred to as the caregiver.*

#### **IMPORTANT!**

Lifting and transferring a patient always involves a certain level of risk. Read the instructions for use for both the patient lift and lifting accessories before use. It is important to completely understand the contents of the instructions for use. The equipment should only be used by trained personnel. Ensure that the lifting accessories are suitable for the lift used. Exercise care and caution during use. As a caregiver, you are always responsible for the patient's safety. You must be aware of the patient's ability to make it through the lifting situation. If something is unclear, contact the manufacturer or supplier.

## Symbol description

These symbols can be found in this document and/or on the product.

| Symbol   | Description  |
|--|--|
|   | Warning. Used where extra care and attention is needed.  |
|   | Read instructions for use before use   |
|   | CE mark  |
|   | Legal manufacturer   |
|   | Date of manufacturing  |
|   | Ref number   |
|   | Serial Number  |
|   | Medical device   |
|   | Do not dry clean   |
|   | Do not iron  |
|   | Tumble drying  |
|    | Do not tumble dry  |
|   | Washing<br>Symbol is always in combination with recommended temperature in °C and °F.  |
|   | Latex Free   |
|   | Periodic inspection  |
|   | Do not bleach  |
|   | Line drying in shade   |
|   | Direction upwards and symbol on outside of equipment.  |
|   | Symbol on outside of equipment.  |
| <br><small>(01) 0100887761997127<br/>(11) YYMMDD<br/>(21) 012345678910</small> | GS1 Data Matrix Barcode that may contain following information.<br>(01) Global Trade Item Number<br>(11) Production Date<br>(21) Serial Number |

# Safety Instructions

## Before lifting, keep the following points in mind:

- A responsible person within your organization should decide on a case-by-case basis whether one or more caregivers are needed.
- Ensure that the sling selected meets the patient's needs with reference to model, size, fabric and design.
- For safety and hygiene reasons, use individual slings.
- Plan the lifting operation so that it can be done as safely and smoothly as possible.
- Although the Liko sling bars are equipped with latches, special caution must be exercised. Before the patient is lifted from the underlying surface, but when the straps are fully extended, make sure the straps are correctly connected to the sling bar hooks.
- The height to which the lift should proceed varies from person to person
- Never leave a patient unattended during a lifting situation.
- Make sure that the wheels on the wheelchair, bed, gurney, etc., are locked during the lifting/transfer operation.
- Always work ergonomically. Use the patient's ability to actively participate in the operations.

 Medical Device Class I Product

## Product Changes

Liko's products undergo continuous development, which is why we reserve the right to make product changes without prior notice. Contact your Hill-Rom representative for advice and information about product upgrades.

## Design and Quality by Liko in Sweden

Liko is quality certified according to ISO 9001 and its equivalent for the medical device industry ISO 13485. Liko is also certified according to environmental standard ISO 14001.

## Notice to Users and/or Patients in EU

Any serious incident that has occurred in relation to the device, should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

## Care and Maintenance

Check the sling before each use. Check the following points with regard to wear and damage:

- Fabric
- Straps
- Seams
- Loops

**⚠ Do not use damaged lifting accessories.**

If anything is unclear, please contact the manufacturer or supplier.

**Washing instructions:** See the sling's product label and the attached appendix "Care and Maintenance of Liko Slings".

### Periodic Inspection

The product must be inspected at least once every 6 months. More frequent inspections might be required if the product is used or washed more often than normal. For protocols please contact your Hill-Rom representative.

### Expected Life Time

The product has an expected life time of 1-5 years with normal use. Expected life time varies depending on the fabric, use frequency, washing procedure, and weight carried.

### Recycling Instructions

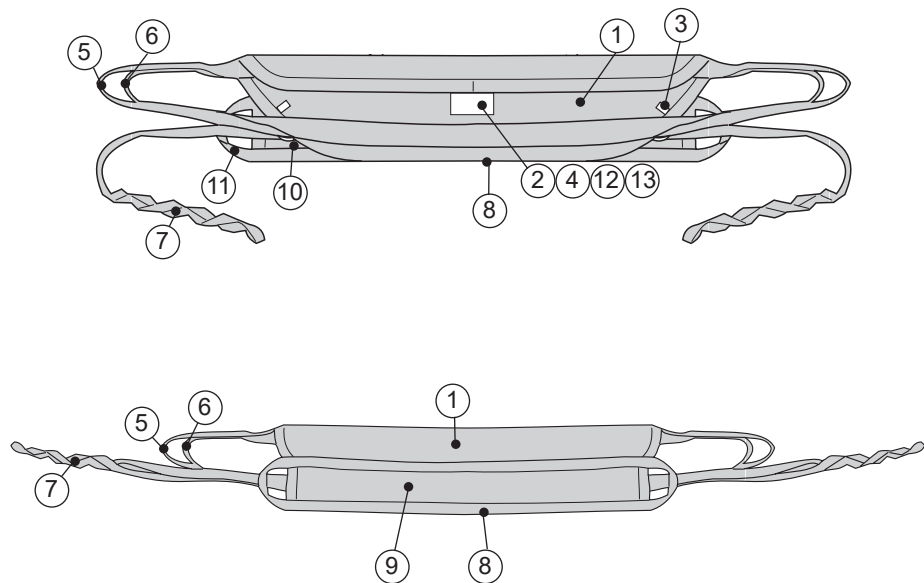
The entire sling, including laths, padding material, etc. should be sorted as Combustible waste.

Hill-Rom evaluates and provides guidance to its users on the safe handling and disposal of its devices to aid in the prevention of injury, including, but not limited to: cuts, punctures of the skin, abrasions, and any required cleaning and disinfection of the medical device after use and prior to its disposal. Customers should adhere to all federal, state, regional, and/or local laws and regulations as it pertains to the safe disposal of medical devices and accessories.

If in doubt, the user of the device shall first contact Hill-Rom Technical Support for guidance on safe disposal protocols

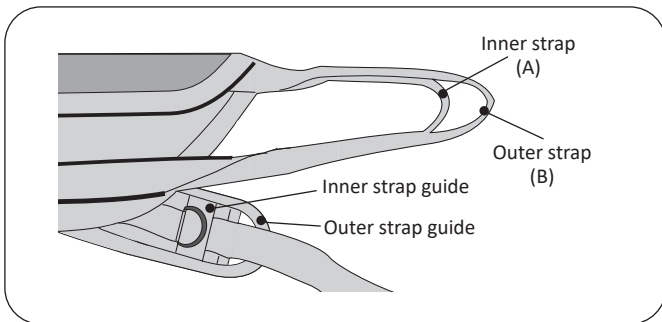
## Definitions

1. Outer vest
2. Product label
3. Size (colour)
4. Serial number
5. Outer vest strap
6. Inner vest strap
7. Loop strap
8. Lower edge
9. Waist belt
10. Inner strap guide
11. Outer strap guide
12. Label: Periodic Inspection
13. Label: Individual marking (Belongs to)



# Description of Vest Strap Function

## Outer Vest Straps



The outer vest is equipped with two vest straps: outer and inner strap, for maximum flexibility during use. Generally, you should use the inner strap (A) to achieve a maximum upright stance. The outer strap (B) is used when the patient's girth so requires it, or if the patient is short in relation to the height of the sling bar hooks on the Sabina sit-to-stand lift.

In cases where the inner strap is used, we recommend that you also hook the outer strap to the lift in order to have better visual control of the straps.

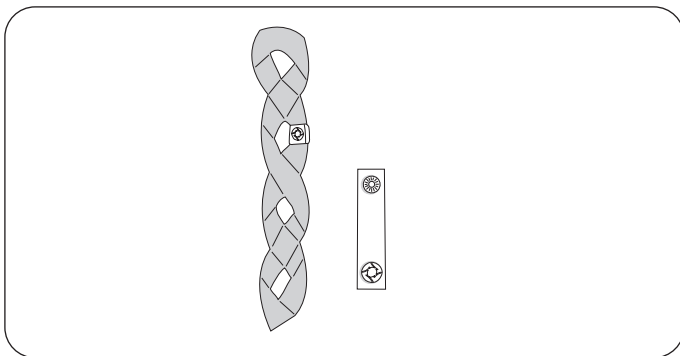
## Loop Straps



An inner loop gives a tighter fit.

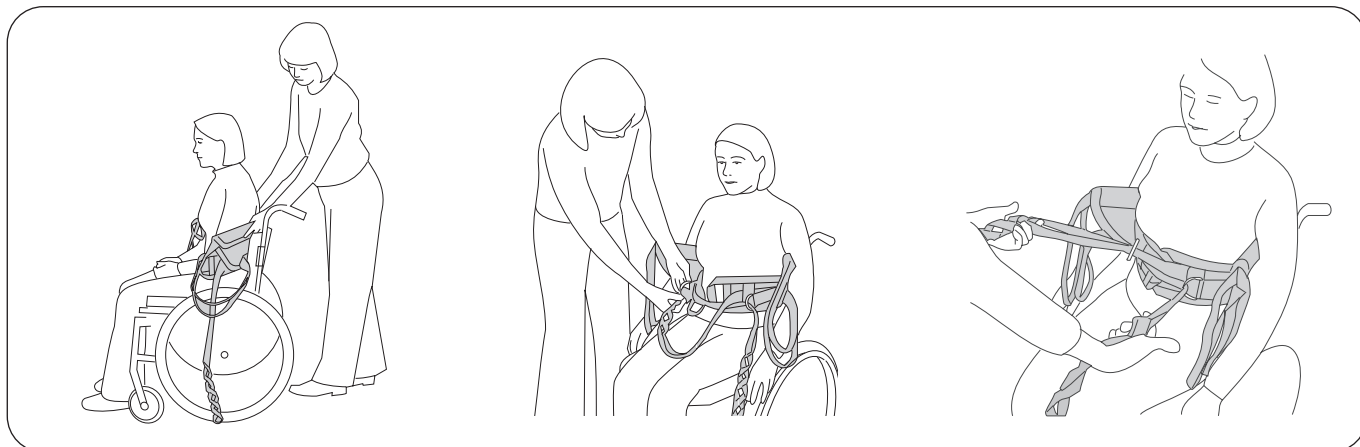
An outer loop gives a looser fit.

## Loop Clips



This practical accessory is used to mark the loops that have been tried out for a certain person. It makes it easier for the caregivers to choose the right loop to attach to the sling bar.

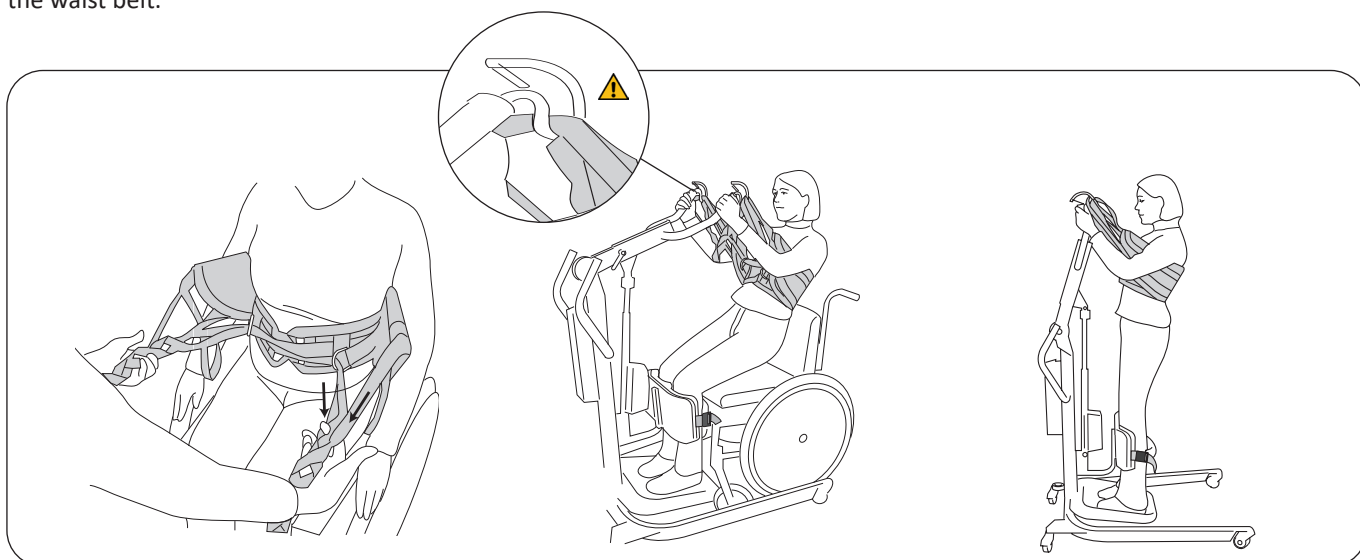
# Active Stand-up Lifting with Sabina Sit-to-stand Lift and Liko SafetyVest



Slide the SafetyVest down behind the patient to waist level. The lower edge of the waist belt should be farthest down and be placed closest to the body with the patient's arms outside the vest and the waist belt.

Cross the loop straps and thread them through the D-rings on the opposite sides. See description on page 7 for different fitting alternatives.

Pull on the straps to check the tension. If the waist belt does not tighten sufficiently, change the threading of the loop straps.



Determine which of the straps should be hooked to the lift by pulling (straight forward) on the outer vest straps and loop straps simultaneously (see diagram of loop straps, page 5: Loop straps).

Try to achieve optimal fit around the abdomen by using a configuration that enables equal tension on the vest straps and loop straps as they tighten while the patient stands.

Position Sabina sit-to-stand lift and adjust the width of the base, so that the patient's feet can be centered on the footrest. The lower legs (below the knees) should be parallel to the lower-leg pad on the lift. Adjust the horizontal and vertical position of the pad for comfortable resistance just below the kneecaps.

Attach and tighten the strap around the lower legs.

Now you are ready to attach the loop straps and vest straps (which you have tested according to the above) to the slingbar.

**Raising:** Maneuver the lift by pressing the up and down buttons (two possible speeds). The patient should, if possible, participate by grasping the sling bar and pulling himself/herself upwards.

**Hint!** We recommend that patients lean the upper body back somewhat, to compensate for weak muscles in the lower body. This facilitates standing, enhances comfort and prevents the vest from sliding upward.

**Hint!** Remember, the raising procedure is easier if the patient sits relatively high, i.e., with the hip joints at the same or a somewhat higher level than the knees.

## How high should the patient be lifted?

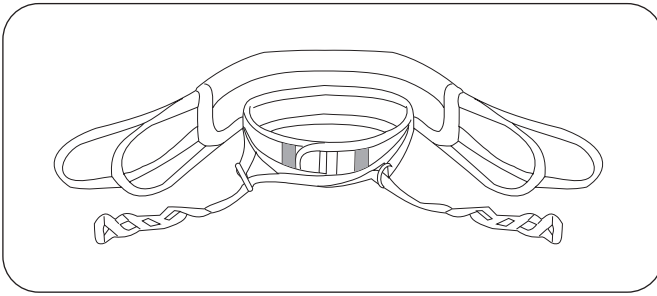
The height a patient is lifted should be determined from case to case.

The maximum stand-up height can be regulated as follows.

**A** Adjust the Sabina sit-to-stand lift base for the lifting height. See the Sabina sit-to-stand lift instruction for use.

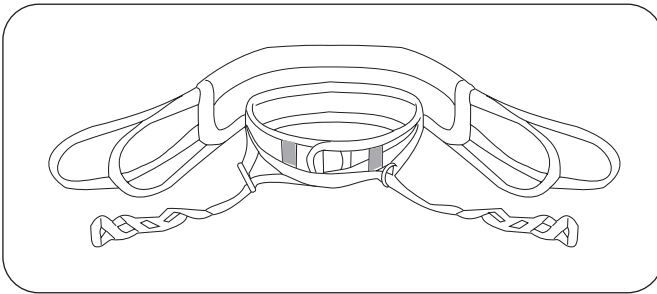
**B** Select either the inner or the outer strap on the outer vest. See page 5: Outer vest straps.

## Different Loop-strap Threading Alternatives



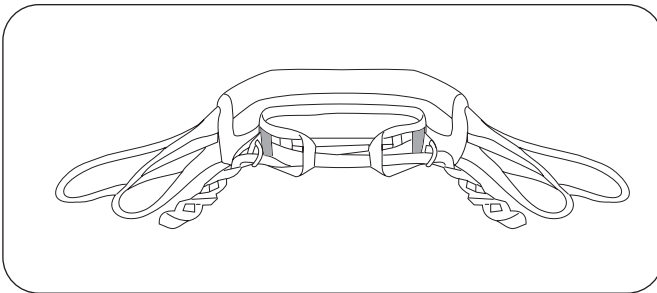
### Alt. A: For very thin patients

Remove the loop straps from the inner strap guides before threading them through the metal D-rings. This enables the tightest fit.



### Alt. B: For average patients

Remove only one of the loop straps from an inner strap guide. Then cross the loop straps and thread them through the metal D-rings.



### Alt. C: For large patients

Thread the loop straps through both the inner and both outer strap guides before threading them through the metal D-rings.

#### Hint!

To further increase the width, the loop straps can be used together with Liko Extension Loops.

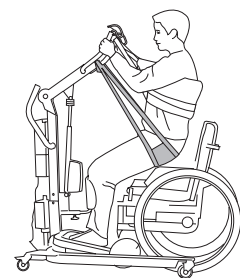
## Accessories

### Sabina™ SeatStrap

Prod. No. 3591115

In some cases, a SeatStrap may be used to assist lifting. The SeatStrap is guided down towards the caudal vertebra as far as possible. This helps to lift from under the buttocks. When an upright stance has been achieved, load is relieved from the SeatStrap and it can be easily moved aside, e.g., during visits to the lavatory. When lowering to a sitting position, it may be appropriate to remove the SeatStrap so that the patient can sit farther back in the chair.

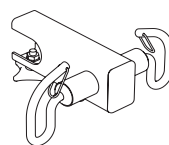
When using the SeatStrap, a special accessory must be attached to the lift: the SeatStrap SlingBar. Make sure to thoroughly study the instruction for use for the SeatStrap before using it.



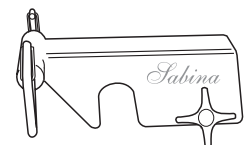
### SeatStrap SlingBar

Prod. No. 2027007: can be used with Sabina II sit-to-stand lift.

Prod. No. 2027006: can be used with earlier Sabina sit-to-stand lift models, but can also be used with Sabina II sit-to-stand lift.



Prod. No. 2027007



Prod. No. 2027006



**Padding Medium** (fits 3593115)

Prod. No. 3691035

**Padding Large** (fits 3593116)

Prod. No. 3691036

The SafetyVest is equipped with a zipper, so that a padding of synthetic sheepskin can be added for a softer surface that distributes pressure more evenly.



**Extension Loop, green, 12 cm (5 in)**

Prod. No. 3691102

**Extension Loop, green, 22 cm (9 in)**

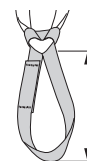
Prod. No. 3691103

**Extension Loop, grey, 12 cm (5 in)**

Prod. No. 3691302

**Extension Loop, grey, 22 cm (9 in)**

Prod. No. 3691303



- 2 = 12 cm (5 in)  
- 3 = 22 cm (9 in)

**Loop clips, yellow**

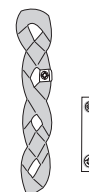
Prod. No. 3666035

**Loop clips, blue**

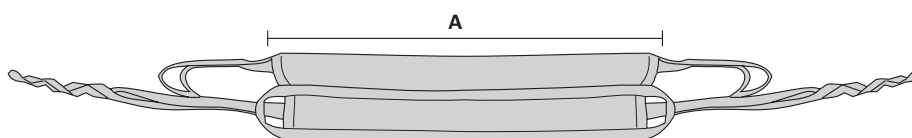
Prod. No. 3666036

This practical accessory is used to mark the loops that have been tried out for a certain person. It makes it easier for the caregivers to choose the right loop to attach to the sling bar.

The Loop clips are also available in other colours.



## Overview Liko™ SafetyVest™ Mod. 93



| Description     | Prod. No. | Size   | Body weight <sup>1</sup> | Max. load <sup>2</sup> | Vest width           |
|-----------------|-----------|--------|--------------------------|------------------------|----------------------|
| Liko SafetyVest | 3593115   | Medium | < 80 kg (176 lbs.)       | 200 kg (440 lbs)       | A: 90 cm (35 inch.)  |
| Liko SafetyVest | 3593116   | Large  | > 70 kg (154 lbs.)       | 200 kg (440 lbs)       | A: 105 cm (41 inch.) |

<sup>1</sup>The indicated patient weight is only a guideline – there may be deviations.

<sup>2</sup>For retained maximum load, lift/accessories intended for the same load or more are required.

**Material:** SafetyVest is available in Polyester.

### Advice for choosing size

The net-clad vest component should reach properly around the back and under the arms. If the vest is too large, the patient may not be able to grasp the sling bar.

### Combinations

The SafetyVest is intended for use only with Liko Sabina™ sit-to-stand lift. We recommend using the SafetyVest with the Sabina 350 SlingBar on the Sabina sit-to-stand lift.

Combinations of accessories/products other than those recommended by Liko can result in risks for the safety of the patient.



www.hillrom.com

Liko AB  
Nedre vägen 100  
975 92 Luleå, Sweden  
+46 (0)920 474700

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