

# EFFICIENT SMART SAFE



R-Flex-40ft

Reefer Flexitank

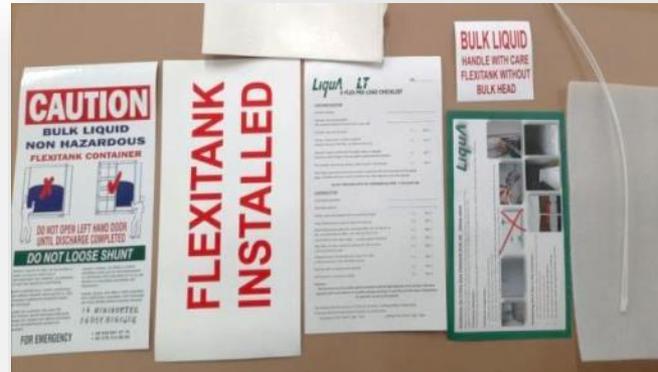
Fitting & Filling Instructions Manual

Rev10 - 230719

**LiquA**

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# Contents of the Box



Open the R-Flex box and ensure that the following are in the package:

1. R-Flex
2. 2 x Steel Lashing Buckles (Optional)
3. 28 x Corrugated Plastic Boards
4. PP Lining Material for floor
5. Warning labels
6. 2 x Cable ties



**The box will be used as door protection board. DO NOT throw it away!**

# Container Selection

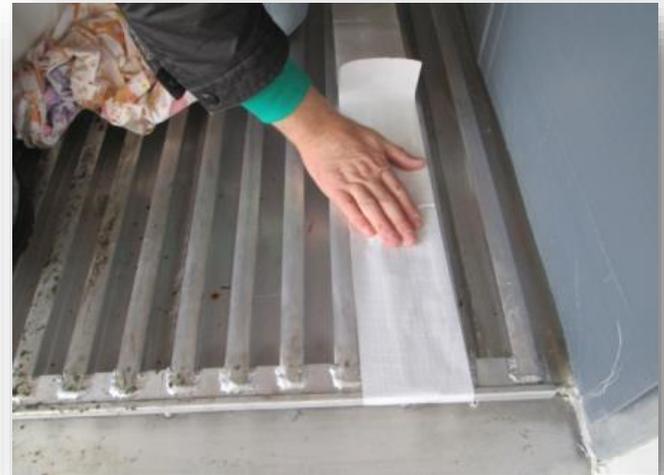
Ensure that:

- The reefer container is no older than 5 years.  
IMPORTANT: The above is the requirement of Container Owners Assosciation. If it is not applicable ensure that below conditions are obtained.
- Reefer containers are clean, structurally sound and in excellent condition.
- The container is free of odor.
- The reefer container has no damage on the floor. The floor should be inspected / tested using a flat steel bar that will highlight any rough or sharp areas. The operator should test the floor both ways – towards the front wall and towards the door.



# Container Preparation

- Any sharp objects or surfaces should be removed from the floor and the sides of the container. This should include loose sharp objects that might circulate when the reefer fans operate.
- Any sharp or uneven surfaces on the floor should be covered with a fabric tape. Nails, sharps or any other objects that may damage/puncture the R-Flex should be removed or covered with fabric tape to make it safe for the flexitank.



# Container Lugs

Use the container lugs if available between the outer most rails:

- The door side lugs should be at least **320cm** from the doors of the container.

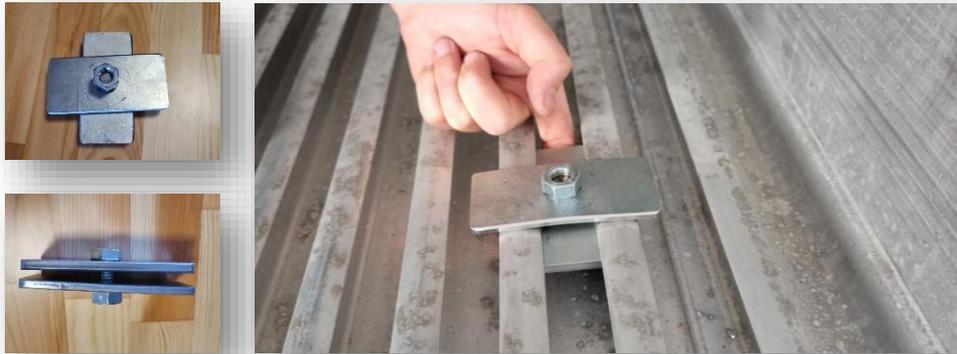


Container Lug

# Buckles

If the reefer container does not have any lashing points between the outer most rails, use the buckles provided in the box.

- All buckles must be fixed tightly, to prevent movement of the R-Flex.



- Use a 19 mm (3/4") wrench to tighten the bolts.



- Do not overtighten the floor fasteners.



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# Lining

- Cover the reinforcement/“kickboard” area on both side walls and the end wall as seen below with provided PP Flude Board Sheets. Ensure all edges are fully covered by tape.
- Ensure any remaining rough edges, joins, screws, surfaces are adequately protected by thick tape including the front wall.
- Cover any protruding areas such as finger holds in the front wall.



# Lining

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# Lining

- Place the supplied PP material. **Ensure that the smooth surface is facing up.** Ensure that there is a gap of 25cm at the door side to allow optimal air circulation.
- Secure the lining in place with strong tape that will withstand the reefer operation and temperatures.



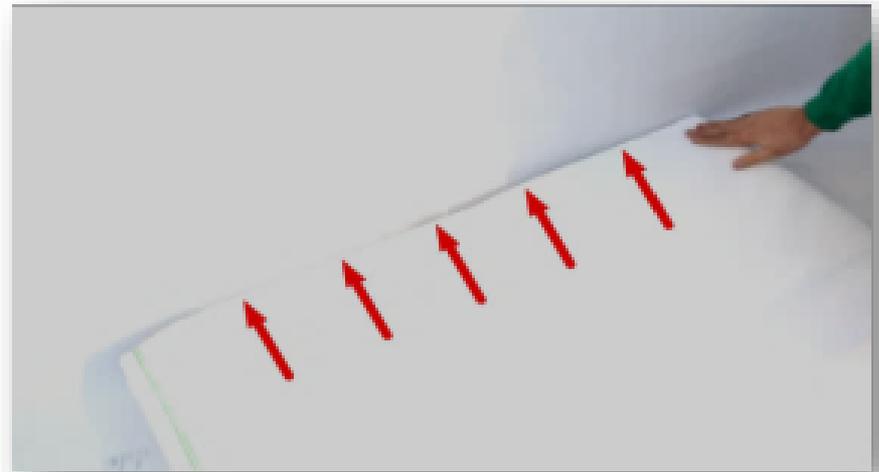
# Positioning the R-Flex

- Ensure the flexitank is positioned in the center symmetrically on the floor.
- Unroll the R-Flex towards the front wall.
- **DO NOT** step on the R-Flex with hard shoes.



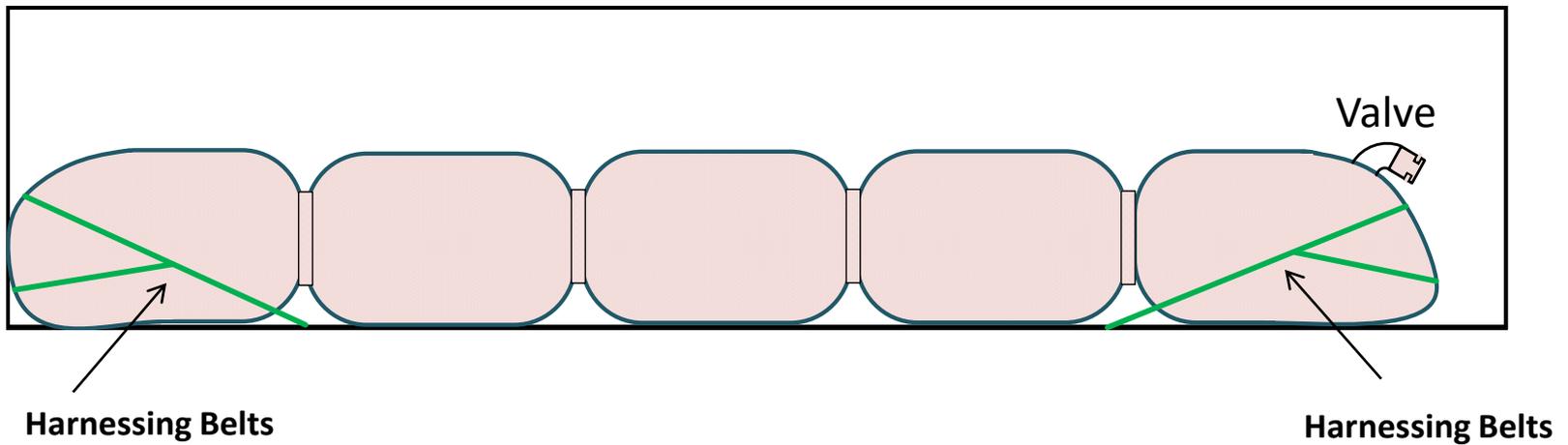
# Warning

- Ensure that the front of R-Flex is leaning to the front/nose of the container.
- If the capacity of the flexitank is less than 24KL, position the flexitank in the center of the Container. Make sure to leave the same distance on the door and the front side.
- **DO NOT** remove the pre-folding tapes shown with arrows!
- **DO NOT** open the folds!



# Belt Tying

R-Flex must be fastened to the lashing rings in the container to avoid sliding.



# Door Side of the Container

Tie the lashing strap to the lug/buckle “taut but not tight”.

**IMPORTANT:** The green scotch/duck tapes on the flexitank indicates the location of the first Anti-sloshing rings. Ensure that the harnessing belts are tied to a lug after the first ring.



# Front Side of the Container

Tie the lashing strap to the lug/buckle “taut but not tight”.



# Buckling

- Make a small cut on fitting fabric to pick out the container lugs/buckle.
- Take the free end of belt.
- Pass the belt through the container lugs/buckle.



## **| Warning**

**IMPROPER FITTING MAY CAUSE CAPACITY PROBLEMS, INNER LAYERS MAY GET STUCK AND STRETCH. THIS MAY CAUSE SEVERE LEAKINGS. ONLY TRAINED AND LICENSED OPERATORS ARE ALLOWED TO FIT OUR FLEXITANKS.**

**IF FITTING OPERATION HAS BEEN PERFORMED AT ANOTHER LOCATION, PLEASE ENSURE THAT THE E-FLEX HAS NOT MOVED DURING LOCAL TRANSPORTATION.**

# Warning Labels

- Stick the warning labels on the side walls and the doors of the container.
- Clean the surface of the container prior to sticking the label for better adherence.



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Filling Instructions Manual

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# | Ready for Filling



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# I Coupling



Our standard valve is 3" male camlock.

You will need to have a **3" female cam-lock** coupling. (DIN EN 14 420-7)

Upon request 2" reductor is available.

# Coupling



1. Remove the dust cap.
2. Couple the hose.
3. Open the valve
4. Unroll the bonnet/plastic cover.

# Coupling

Lock the valve from the camlock handles with a cable tie for a safer valve connection.



# Filling

- Start loading the R-Flex.
- **WARNING:** Ensure that the start up pumping speed does not exceed 300 lt/min until the R-Flex rises to an approximate height of 30cm (roughly the first 2-3,000 liters) , then increase the speed up to 600lt/min. Please ensure that the filling stations follow this instruction carefully.
- Do not turn on cooling until there is 12,000 liters in the flexitank
- Ideal filling time is 60 minutes.



# Filling

- Ensure that you have chosen a light weight filling hose.
- Couple the hose to the valve.
- Make sure that protective plastic cover `bonnet` is unrolled. It will avoid possible contamination due to spillage while decoupling.



# Supporting the Hose

- Our valve is not static and goes up during loading. Therefore, if the filling hose is supported with a tripod or similar, ensure that the support point is being changed periodically during the entire filling.



- If no hose support is being used, ensure that the hose does not exert any pressure to the valve. Ideal standing is shown at the picture.

# Filling



After Loading;

1. Close the valve.
2. Remove the hose.
3. Fasten the dust cap

# | Bonnet Closure

R-Flex has two protective bonnets around the inlet to prevent contamination and to act as secondary containment in case of an incident.

Ensure that Bonnet is well tied according to our following instructions.



# Bonnet Closure



The Protective Bonnet has two individual layers of plastic film.

Both layers must be tied **separately**.

1. Push back the outer bonnet to expose the inner bonnet for easy operation.
2. Twist the full length of the inner bonnet. Ensure that minimum amount of air/space is left in the bonnet.
3. Make a tight knot, as close as possible to the valve.
4. Unroll the outer bonnet.
5. Twist the full length of the inner bonnet. Ensure that minimum amount of air/space is left in the bonnet.
6. Make a tight knot, as close as possible to the valve.

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THANK YOU

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