

**EFFICIENT
SMART
SAFE**



Fitting and Filling Instructions Manual
L-Flex

Rev04 - 230510

LiquA

| Container Selection

Ensure the below for the containers...

- No older than 5 years.
IMPORTANT: The above is the requirement of Container Owners Assosiation. If it is not applicable ensure that below conditions are obtained.
- Manufactured according to ISO 668 norm.
- Weight tested to a minimum of 28,000kg.
- Clean, structurally sound and in excellent condition.
- No repairs on side walls and there is no damage to the floor.
- Use food grade containers only, that are free of any odor.
- There are no insects, soil or contaminants that may cause customs issues at the destination.



Container Selection

DO NOT use damaged/broken containers like below.
Broken containers can be rejected by the shipping lines.



Bulged Container



Damaged Container

Container Selection

- Use ONLY standard containers designed according to ISO 668 international norm.
- Ensure that containers have lashing rings on the floor.

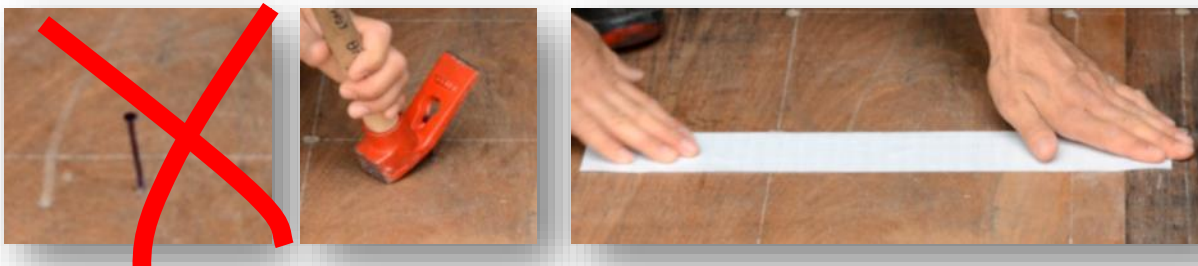


Container Selection

- Sweep the container carefully with a broom.
- Ensure that the door bolts are silicon covered.



- Ensure that nails, sharp and rough objects that may damage/puncture the flexitank are removed.
- Cover uneven areas on the walls and on the floor with duck tape (thick tape).



| Container Lining

Container inner surface should be free of splinters, nails, staples, bolts, sharp object and uneven surfaces on the walls and floor.

IMPORTANT: Lining is NOT a protection material against splinters or sharp surfaces. Its objective is to protect the flexitank against abrasion due to friction during the transportation.



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| Contents of the Box



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

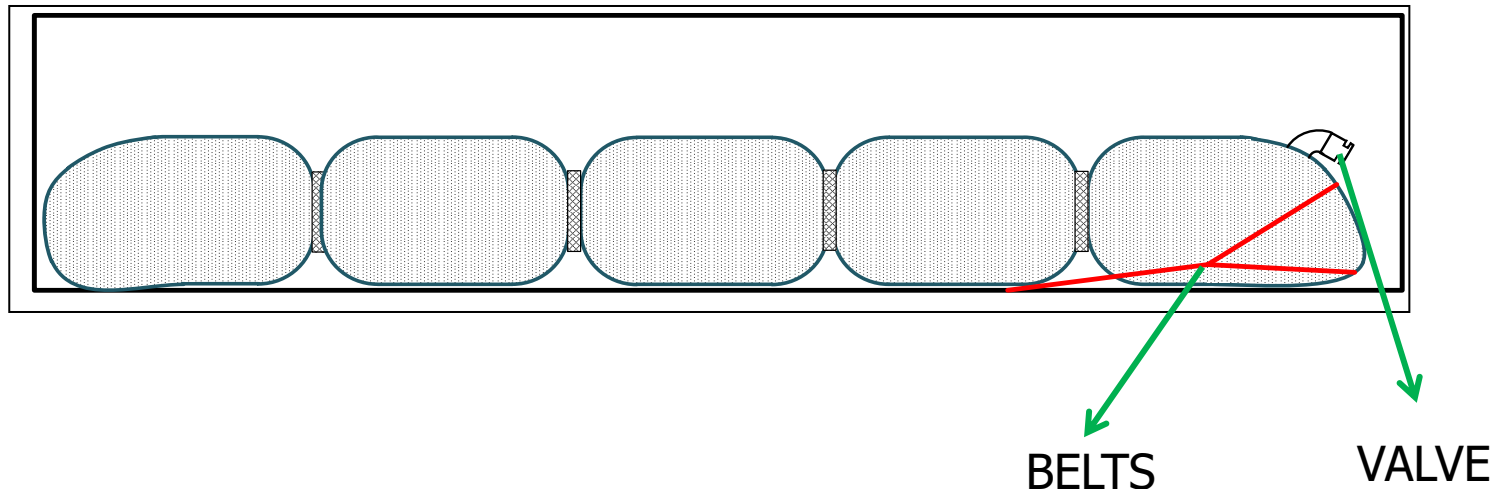
1. L-Flex
2. Warning Labels
3. Check List
4. Cable tie

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

Design

L-Flex uses a long mono block tube/bladder that has several **Anti-sloshing** “rings” to shrink down the total circumference at certain areas to compartmentalize the bladder.

Should a vehicle break suddenly during transit, the design’s rings create bottlenecks that help dissipate any energy created by the liquid moving around. This helps avoid the formation of hydrodynamic forces and keeps your cargo safe.



Positioning the L-Flex

- Unroll the L-Flex.
- Do NOT step on the L-Flex while unrolling.
- Make sure L-Flex is positioned at the center of the container.
- The distance between the L-Flex and the outer end of the container (NOT where the wooden floor begins) must be 20 cm. Use the label as a reference.



Positioning the L-Flex

Ensure that the front of L-Flex is leaning to the nose of the container.



DO NOT remove the pre-folding tapes.

DO NOT open the folds.



Lashing

- Make a small cut on the fabric to pick out the lashing ring.
- Place the belt through the lashing ring.



| Belt Tying

Tie the lashing strap to the lug/lashing ring “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.



| Belt Tying

DO NOT remove the pre-folding tapes.



Door Protection

- The flexible harness prevents any flexitank movement. However to make sure that any sharp object/bolts on the door does not damage the flexitank, the carton box should be collapsed and used for protection.
- The box will be used as a door protector. Collapse the box as shown.



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Door Protection

- Suspend the boards to the door closing bars.



| 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 L-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.



| Ready for Filling

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| Coupling

- Our standard valve is 3" male camlock. Upon request 2" reductor is available.
- According to your 2 or 3 inch preference you will need to have a **female cam-lock** coupling.



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Coupling

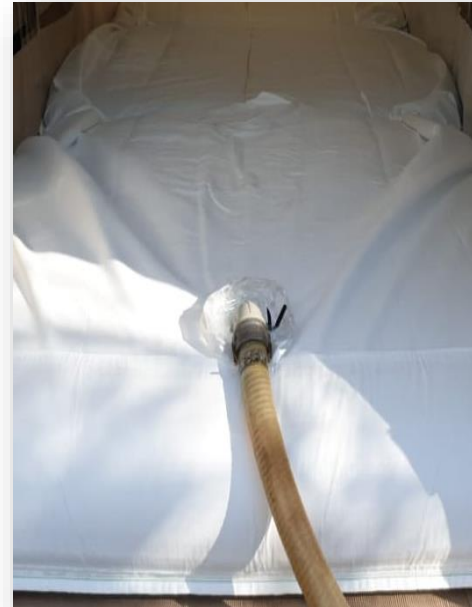
- Break the hygiene seal.
- Remove the dust cap.
- Couple the hose.
- Open the valve.
- Unroll the bonnet.



Filling

START FILLING...

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DO NOT pump air inside the flexitank during filling

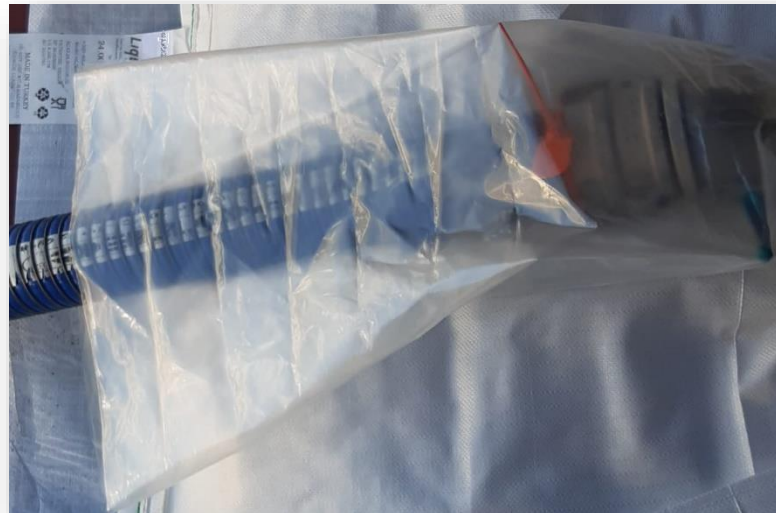
Filling

- **WARNING:** Ensure that the start up pumping speed does not exceed 300 lt/min until the L-Flex rises to an approximate height of 10cm (roughly the first 2-3,000 liters), then increase the speed up to 450lt/min.
- The total loading time should not be less than **one hour**.
- Please ensure that the filling stations follow this instruction carefully.



Filling

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



Filling

After Loading;

- Close the valve.
- Remove the hose.
- Fasten the dust cap.



| Bonnet Closure



Protective Bonnet has two layers of plastic film.

Both layers must be tied **separately**.

1. Push the outer layer back to expose the inner layer.
2. Twist and wrap the 1st inner layer.
3. Knot it / Tie with cable tie.
4. Pull the 2nd outer layer.
5. Twist and wrap the 2nd outer layer.
6. Knot it / Tie with cable tie.

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THANK YOU

LiquA Europe
Calle José Aguirre 40, Piso 3 Valencia España
CP: 46011

+34 91 1238506

LiquA Fabrika
Atabey Cd. No 28 Kat 1 Çekmeköy 34794 İstanbul
Türkiye
+90 216 312 8660

www.liquatrans.com

| info@liquatrans.com