CONTAINER OWNERS ASSOCIATION

COA Flexitank Certificate of Compliance

Liquatrans Likua Endüstriyel Ambalaj Malzemeleri San ve Tic LTD

Atabey Cd no 28-1 Cekmekoy Istanbul Turkey

Has complied with COA Code of Practice V5 quality audits ISO 9001 Management, Materials Test, Installation Operating & Training Instruction Manual and Rail Impact Test for E-Flex

Patrick Hicks, COA General Secretary

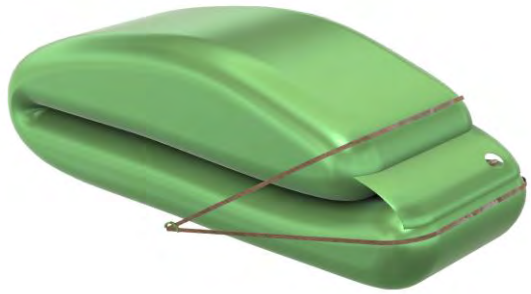
Expiry Date: 31 July 2021

LiquA	AC42 DATASHEET	Article	AC42
		Issue Date	04.07.2017
		Rev. Date	25.07.2018

Product Article Number : AC42
Filling And Discharge : BOTTOM
Dimensions : 3100 - 6100 mm.
Valve : Valve - 3"
Capacity : 24,000 lt
(Please check tolerances)

E-Flex, Easy Flexitank does NOT require Bulkhead.

Our raw materials are polyethylene, polypropylene and food grade silicon at the gasket of the valve. Please control the compatibility of the cargo with our raw materials.



Outer Cover			
PP Fabric	Average Weight	240 g/m²	
	Colour	White	
	Tensile Strength Warp	Dan/ 5 cm 240 Kg	(ISO 13934-1)
	Tensile Strength Weft	Dan/ 5 cm 270 Kg	
	Elongation at break - Weft	12% ±3	(ISO 13934-1)
	Elongation at break - Warp	14% ±3	
	Density - Weft	48 tapes (/10cm)	(ISO 7211/2)
	Density - Warp	80 tapes (/10cm)	
Valve			
	Type	3" Male Cam-Lock	
	Gasket / O-Ring	Food Grade Silicon	
	Raw material	Polypropylene + Stainless Steel	
Cap	Type	3" screw in	
	Raw material	Polypropylene	
Lashing Belts			
Webbing	Raw Material	Polyproylene Multifilament	
	Average Weight	60 g/lnm	
	Width	55 mm	
	Tensile Strength Warp	2000 Kg	(ISO 13934-1)
	Elongation	18 %	(ISO 13934-1)
Inner Liner			
PE Film	Thickness	125 mic	
	Total Layers	2	
Mechanical Performance	Dart Drop	1800 g	(ASTM D1709)
	Tensile Strength	30 Mpa (MD)	(ASTM D882)
		35 Mpa (TD)	
	Seal Strength	≥30 Mpa (MD)	(ASTM D882)
		≥35 Mpa (TD)	
	Elongation at break	600% (MD)	(ASTM D882)
		650% (TD)	
	Tear Resistance	10 g/µm (MD)	(ASTM D1922)
		22 g/µm (TD)	
	Oxygen Transmission Rate	1800 cm3/m2/day (23°C;75% RH) (ASTM D3985)	
	Water Vapour Transmission Rate	<1 g/m2.day (23°C;85% RH) DIN 53122)	
Capacity Tolerance in Volume			
	Minimum Load	20,000 liter	
	Maximum Load	24,500 liter	
Food Approval Legislations			
	FDA	21 CFR 177.1520 Polyolefin's	
	EU	Directive 10/2011 EC	
Min/Max Ambient Temperature			
	Minimum	- 30ºC	
	Maximum	+ 70ºC	

Fitting Instructions

E-Flex Easy Flexitank AC42

Container Selection...

- Ensure that only containers manufactured according to ISO 668 norm are used.
- Ensure that containers have been weight tested to a minimum of 28,000kg are used.
- Ensure that containers are no older than 5 years.
- Ensure that containers are clean, structurally sound and in excellent condition.
- Ensure there are no repairs on side walls and there is no damage to the floor.
- Use food grade containers only; that are free of any odor.
- Ensure that there are no insects, soil or contaminants that may cause customs issues at the destination.

Container Lining...

Lining the container is recommended for tough journeys.

Line the container floor and side walls with carton board.

Contents of the Box...

Open the E-flex box and ensure that the following are in the package:

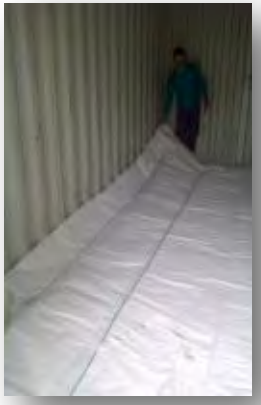
1. E-flex
2. Warning labels
3. Adhesive Tape

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

Positioning the E-flex...

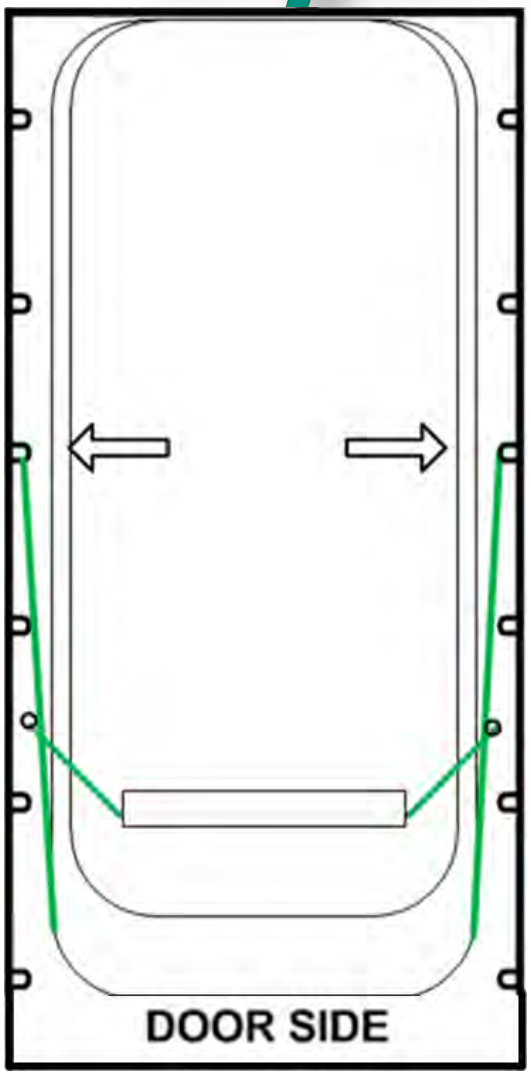
- Position the E-flex to the edge of the left door.
- Unroll the E-flex into the container.
- Do not to step on the E-flex while unrolling.
- Do not to wear shoes during the fitting operation.
- The door end of the E-flex should be **20 cm** away from the outer end of the container.

You may use the width of the caution label as a reference of 20cm from the outer end of the container.



E-flex Flexible Harness...

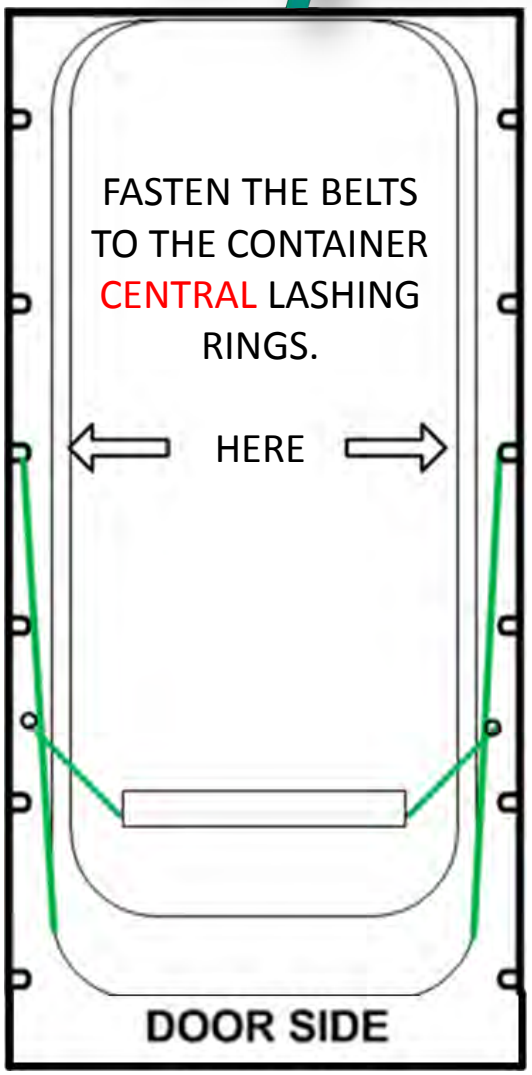
- E-flex must be fastened to the lashing rings in the container to avoid movement during transportation.



Belt Tying...

BACK END OF THE CONTAINER (DOOR SIDE)

- While the end of the flexitank is still resting on the front wall and the strap is “taut but not tight”, tie the lashing strap to the **CENTER** lug/lashing ring in past the joining knot.



Belt Tying...

- Ensure that straps are tied to the **CENTER** lug/lashing rings!!

Belt Tying...

IMPORTANT:

E-Flex is designed as it will stand at least 15cm away from the doors after the filling. Loose or improper tying will inactivate the harnessing system and may cause the E-Flex to shift/move towards the doors.

Also too tight/short belt tying may cause capacity loss and a possible eventual damage.

ENSURE THAT BELTS ARE TIED TAUT BUT NOT TOO TIGHT.

Door Protection...

The flexible harness prevents any flexitank movement, however the flexitank carton should be collapsed and used as protection from any sharp objects on the door.

The box will be used as a door protector. Collapse the box as shown.

Door Protection

- Cut the board into two pices from the joint corners.



- Suspend the boards to the door closing bars.



Door Protection

- Fix the cut pieces of the board to the door by the provided adhesive tapes.



- Repeat the same to the door on the right.


Check List...

Fill in the provided Check List and stick it to the door on the right hand side.

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.

ENSURE THAT FILLING IS COMPLETED NO MORE THAN 3 HOURS.

Warning Labels...

Attach the warning labels on the side walls and the doors of the container as shown

LEFT DOOR

RIGHT DOOR

LEFT WALL

RIGHT WALL

Thank you for choosing

E-Flex Easy Flexitank

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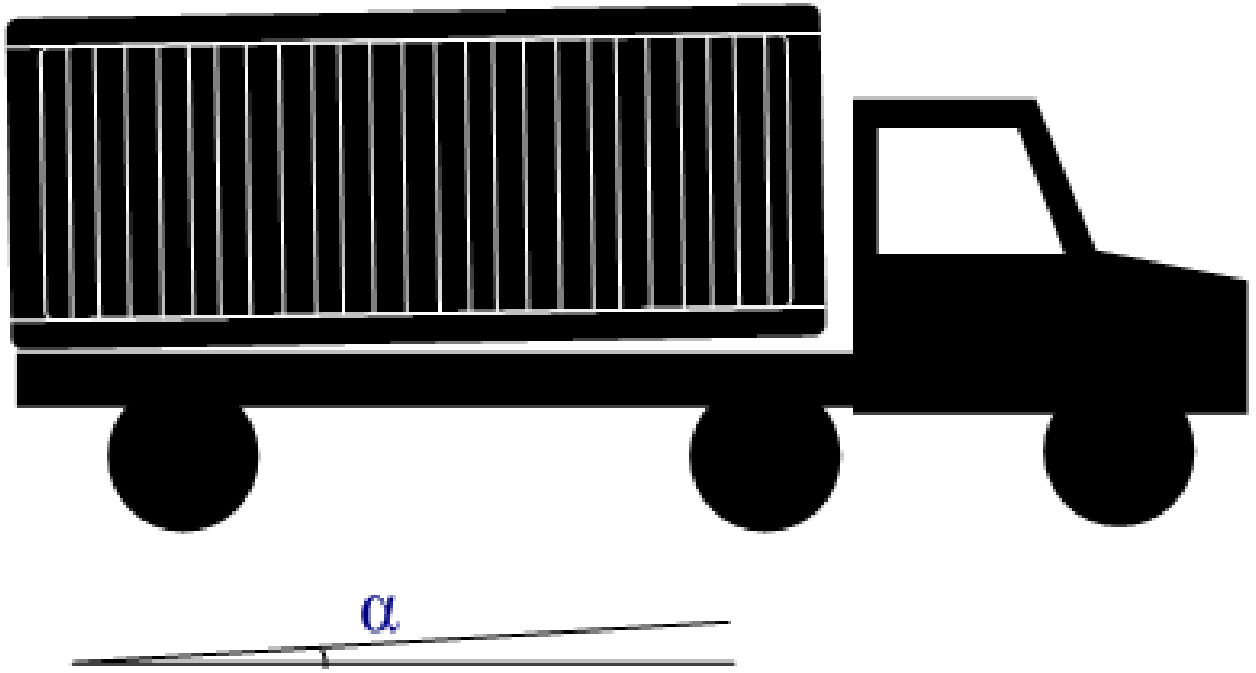
Discharging instructions

Ensure that the front of the container is in a higher position compared to the back, so that it will have the necessary slope to facilitate the discharge.



We have 2 or 3 inch valve alternatives.

Valves are male cam-lock. According to the 2 or 3 inches preference you will need to have a female camlock coupling.

- To start discharging; Untie or cut both bonnet/plastic cover layers around the valve.
- Couple the hose with the valve.

- Do not suspend the hose.
- Use a pump to decant the flexitank

Untie the lashing straps (shown in red below) fixed to the container lashing rings.

After pumping all the product out, pull both sides of the E-flex to the center.

Roll-up the E-flex starting from the front/nose side of the container, pushing the liquid towards the valve.

The E-flex should be empty and ready for recycling at this point.

Thank you for choosing

E-Flex Easy Flexitank

Filling instructions

E-Flex Easy Flexitank

Ready For Filling...

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.

Coupling...

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

Filling...

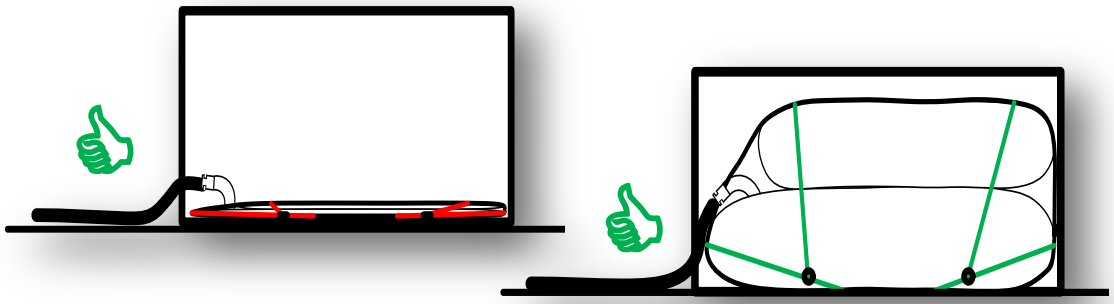
- Start loading the E-flex.
- **WARNING**: Ensure that the start up pumping speed does not exceed 300 lt /min until the E-flex rises to an approximate height of 30cm (roughly the first 2-3,000 litres) , then increase the speed up to 800lt/min. Please ensure that the filling stations follow this instruction carefully.

Filling...

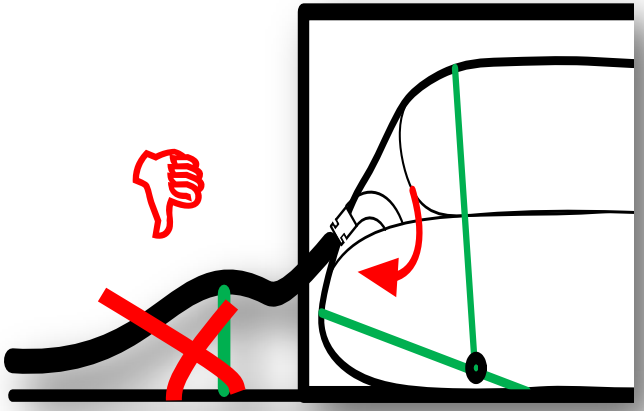
- Ensure that you have chosen a light weight filling hose.
- Couple the hose to the valve.
- Make sure that protective plastic cover `*bonnet*` is unrolled. It will avoid possible contaminaton due to spilage while decoupling.

Filling...

- Support the hose from the right point. Ensure that the hose is NOT put under any stress during the entire filling period.



- Hose support must be done very carefully. Support shall not create any torsion/stress over the valve.



Filling...

After Loading;

1. Close the valve.
2. Ensure that the pin of the valve is locked.
3. Remove the hose.
4. Fasten the dust cap.

Bonnet Closure...

E-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 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 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 left in the bonnet.
6. Make a tight knot, as close as possible to the valve.

Check List...

- Fill in the provided Check List after loading.

Thank you for choosing

E-Flex Easy Flexitank