

Lindner & Fischer VACUUM TANK BODY for the transport and suction of sewage, slurry waste-water, petroleum products and others

TYPE: TA 100 DS

Volume: approx. 10 000 ltr incl. 3% expansion

Superstructure

The “*Special L&F Low-Torsion body mounting system*” for tank bodies is recommendable due to their strongness, torsion-resistant design, in particular for “Off-Road” operation under rough cross-country conditions.

The elastic connection between the truck chassis and the sub-frame provides a torsion-absorbing function.

This arrangement absorbs any stresses passing from chassis to tank.

The sub-frame is mounted to the truck frame in a way to ensure equal load distribution.

Otherwise mounted according to truck supplier’s “Assembling Instruction”.

Tank support

The tank itself is supported in tank saddles which are bolted on the reinforced longitudinal frame members with heavy duty rubber mountings in front.

Tank

Tank shape: Cylindrical 10 000ltr. incl. expansion

Tank compartments: One (1)

Manufactured of thick high-grade steel –S235JRG2-, thickness 4 mm electrically welded throughout with accurately finished welding seams. Dished bulkheads on both sides with 6 mm thickness and appropriate nos. of baffles, 5 mm thick.

Reinforcements made of U-channel, welded on the outs-side of the tank

The tank is mounted with approx. 2,0% slope to the rear and is vacuum as well as pressure resistant, designed for:

+ 1,00bar pressure / -0,9bar vacuum

Rear opening

Manual rear opening for cleaning purpose, dia approx. 600mm.
The cover is secured by bolts

Top fittings

One (1) 380 mm dia. opening with Vacuum valve, secured by bolts
Access ladder made of steel mounted on left-hand side with platform to have access to manhole

Discharge fittings

At the rear of the tank, there are two (2) out-let valves, with manual operated ball valves mounted.

One (1) 3" DN80

One (1) 3" DN80

Pipes and fittings for suction and pressure system

All made of DN80-100, tensionless mounted and supported by flexible connections

Lower suction and discharge connection

At the lowest part of the rear dish-end, a flange DN80 with 3" ball-valve and 3" Perrot coupling is mounted

Top suction connection

At the rear dish-end, a flange DN80 is mounted which leads downwards with 3" ball-valve and 3" Perrot coupling

Vacuum system

One (1) ex protected water cooled vacuum pump, type Jurop installed at the vehicle's chassis, hydraulically driven by PTO of truck engine and can be operated pneumatically from the driver's cabin. The suction pipe is equipped with a suction filter. Suction and delivery connections are provided with hose coupling and cab.

Pump capacity: approx. 732m³/h (430CFM) water cooled

Pressure gauge for vacuum and pressure, located in piping system

There is a manual operated 4-way valve for suction, ventilation and pressure

Safety system

- Air chamber to prevent over suction at the top of container
- Safety chamber with ball-valve to protect the vacuum pump
- Suction filter in front of vacuum pump
- Automatic pressure limited valve, set to 0,7bar, mounted
- Automatic vacuum limited valve, set to 0,7bar, mounted
- Level indicator at rear of tank
- Three (3) sight glasses mounted rear part of tank
- Silencer

Operation panel for vacuum pump

An operation panel mounted on right-hand side at rear part of tank with all necessary function like:

- ON/OFF for vacuum pump
- ON/OFF for engine
- Emergency cut-off
- Pressure gauge for suction and pressure
- Pressure gauge for hydraulic system
- Adjustment of RPM
- Working lights switch

Delivery options

- cleaning of tank to the rear
- pressure and suction with vacuum/pressure pump

Hose-carrier

Two (2) lockable hose carrier boxes, one (1) on each side of the tank for four (4) hoses

Hoses

Four (4) rubber suction and pressure hoses NW 80, with Perrot 3" ball coupling, length approx. 3,00 m, suitable for handling petroleum products

One (1) rubber hose NW 80, with Perrot ball coupling 3", length approx. 3,00 m with steel lance

Water cleaning system

Water cleaning system for cleaning the equipment.

120ltr water-tank mounted on chassis. One (1) rubber hose, 1/2" and approx. 10m long with spraying nozzle. The pressure of approx. 4bar is generated by the compressor of the truck chassis.

Standard accessories

Wheel chokes (provided by TRUCK supplier) mounted with brackets

One (1) spare wheel carrier with winch mounted on chassis

PVC mudguards with rubber mud-flaps

One (1) lockable tool box mounted on chassis

Two (2) yellow beacons light mounted at rear

Two (2) working lights are mounted at the rear

Two (2) 6kg ABC fire extinguishers mounted on chassis frame

Bonding reel

Two (2) manual rewind reels with 15m of 2mm steel-cable and grounding clip, one (1) mounted on each side of the chassis

Spare parts included

Hydraulic pump PTO	2x
Hydraulic motor	2x
Over-pressure valve	2x
Hydraulic manifold	2x
Oil-filter	2x
Set of pneumatic fittings	2x

Paintwork and finishing

All steel parts are sand-blasted and prime-coated.

Tank body inside: epoxy inner-lining, suitable for petroleum products

Tank body painted in one (1) RAL colour outside

Substructure, spare-wheel carrier, painted in chassis colour

Yellow reflective strips on rear tank shape and along both sides of tank and cabin

Company logo and customers address on both sides of the tank

Acceptance test

Hydro-pressure test of tank 1,50 bar

NDT of tank

Functional test

Documentation

One (1) spare part list

One (1) operating manual

All instruction plaques, lists, manuals and signs in English/French

L&F reserve the right to modify or change Specification at any time!