



LPG transportation tank, 17.000 mounted on IVECO TRAKKER AD380T38H ADR version



TANK

The LPG tank is made of high yield steel minimum thickness according to ADR 2015, has semielliptic ends, is designed according to ADR 2015.

The tank is provided with brackets bolted on an additional chassis (subframe) to be mounted on the vehicle.

Two holes allow the loading/unloading of the product and are equipped by Rego bottom valves.

The tank is also provided with a bleeding and vent cap and has a fixed level gauge.

Each tank is subjected to heat treatment and magnetic test on the welds and to hydraulic test as required by the current European standards.

Before white painting RAL 9010, the tank is subjected to sandblasting, priming coat and surfacing.

Sunshield cover

Test Pressure: 25bar

Working Pressure: 18bar

Temperature: -20° +50°

n.1 safety valve 3" REGO

UNLOADING PLANT

The unloading plant is composed of:

LPG BLACKMER pump with 3" Ø flange outlets

Pressed steel plate support base for LPG pump

LPG volumetric meter with differential valve, mechanical head

Different sized flange manifolds to connect meter, pump and reel PN40 DN50 flange ball valves complete with flange caps, studs, gaskets and nuts (liquid phase and unloading with pump)

1" 1/2 PN40 flange ball valve as above (gas phase)

3" Ø REGO valve with pneumatic actuator for the protection of the bottom liquid phase

2" Ø REGO valve with pneumatic actuator for the protection of the bottom gas phase

2" Ø REGO valve with pneumatic actuator for the protection of the filling line

1/2" threaded ball valve for the cut out of the air eliminator and the meter

1"Ø by-pass valve of maximum pressure



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PN40 DN50 steel flange filter for the protection of the LPG pump

Aluminium coupling (LPG pump - hydraulic motor)

Valves for the cut out and protection of the manometers

1/4" Ø safety valve calibrated at 20 bar for the protection of the delivery hose , with a hose piping the overpressure on the gas phase

MANHOLE

Manhole positioned in the centre of the rear end plate with:

N° 1 manometer for inner tank pressure

N° 1 thermometer

N° 1 level gauge

N° 1 Rochester magnetic level

Transparent protection

METERING AND UNLOADING SYSTEM

The unloading plant is contained in a cabinet.

The box is mounted at the rear of the vehicle and it is placed on a steel chassis which also supports the meter and the hose reel.

The metering system is made of:

Hydraulic engine,

3" BLACKMER LPG pump with excess flow valve incorporated, filter, ball valves

2" meter made by Liquid Control/SAMPIMechanic

head with manual printer

Working light

HYDRAULIC PLANT

The pump and the hose reel are driven by a hydraulic plant, so composed:

n° 1 oil reservoir

n° 1 power take off (not included in the offer to be supplied by truck manufacturer)

n° 1 hydraulic pump

n° 2 gear engines

n° 1 safety valve

n° 1 speed governor for hose winder

n° 2 manual controls

n° 4 different flexible hoses

PNEUMATIC SAFETY PLANT

The plant has a safety system which, activated by a pneumatic control, assures the closing of the bottom valves and the disconnecting of the power take off and switches off the vehicle engine.

The system has an earth coupler connected to the vehicle by a 40 m double cable.

On the external PVC box containing the valves of the pneumatic plant there is a push button that allows the opening and closing of the bottom valves.

HOSE REEL

40m hose reel provided with transmission disconnecting device to ease the hose unwinding with clutch mounted on the pinion as protection for the rewinding.

40m 1 ¼" delivery hose + gun

Refuelling gun P480

The hose reel is contained in a waterproof cabinet positioned in the rear side of the vehicle.

ACCESSORIES

Supply of:

n° 1 couple of mudguards for each rear axle of the vehicle

n° 2 steel side protections

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- n° 2 zinc sheet placards with the numbers for the product classification
- n° 1 earthing device: rewind reel with a 15 m cable with pliers
- n° 1 polyvalent powder extinguishers 9kg
- n° 2 chocks with holder
- n. 1 tool box
- n° 1 courtesy lamp mounted in the belly cabinet, tested ADPE, with switch on button
- n° 1 sliding rubber ground cable
- n° 1 copper plate for the earth coupler
- n° 1 set of side lights
- n° 1 Metric Test performed by Italian Authorities with license tag placed upon the flow diagram

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