

## Advantages and possibilities of the LPG compact filling station

Compact LPG filling station is determined for dispensing of the liquefied gas into the vehicle tanks with ecological fuel – liquid petroleum gas propane-butane (LPG)

During the operation of the compact LPG filling station there does not arise any waste which could negatively induce the environment. The filling system is gas-tight. The only LPG emission during the operation occurs in the moment of disconnecting the filling outlet of the tank of the truck from the LPG storage tank or disconnecting the filling outlet (the nozzle) of the fuel dispenser from the vehicle fuel tank. Both types of emission are inconsiderable and the gas will disperse almost instantly.

### Compact LPG options

- volume and price electronic pre-setting
- electronic system ATC – automatic temperature compensation
- payment terminal ADAMAT
- continual electronic monitoring system of danger situation with acoustic and visual indications
- function of automatic stop of fuelling – in case of full vehicle tank
- LPG dispenser in modification according to the use on the filling station and the customer wish

Compact LPG is dispensing equipment for ecological fuelling which significantly contributes to the reduction of undesirable emission during the operation of motor vehicles.

### Compact filling station LPG modifications

- with complete electric installation in the fuel dispenser *V-line* which makes possible to connect compact LPG to technological station switchboard as another fuel dispenser
- with external electric switchboard



## Compact Filling Station LPG



The new construction solution of the compact filling station LPG follows up with the previous LPG compact equipment and is inspired with successful type serie of *V-line* fuel dispensers.

### Disposition of the compact LPG filling station

- additional filling system to existing public petrol stations
- basic technological device of individual LPG public filling station
- alternative technology for no-public sector, in particular for departments with high requirements for ecological operation

This new compact filling station fully keeps the mobility of the equipment and high operating safeness. At the same time it provides the operator with full comfort.

## Basic technical parameters

### Pressure tank

- geometric capacity 4,8 m<sup>3</sup> (6,4 m<sup>3</sup>)
- max. filling of the tank 85 % of geometric capacity
- max. fill weight 2100 kg LPG
- max. operating overpressure of the tank 1,56 MPa

### Pumping aggregate

- max. dispensing quantity of LPG 70 l/min
- max. different. pressure - adjustable in range 0,92 MPa

### Fuel dispenser

- max. flow rate 40 l/min
- min. measurable flow rate 5 l/min
- min. output 5 l
- dispensing accuracy ± 0,5 %

### Operating temperature

-20 to +40 °C

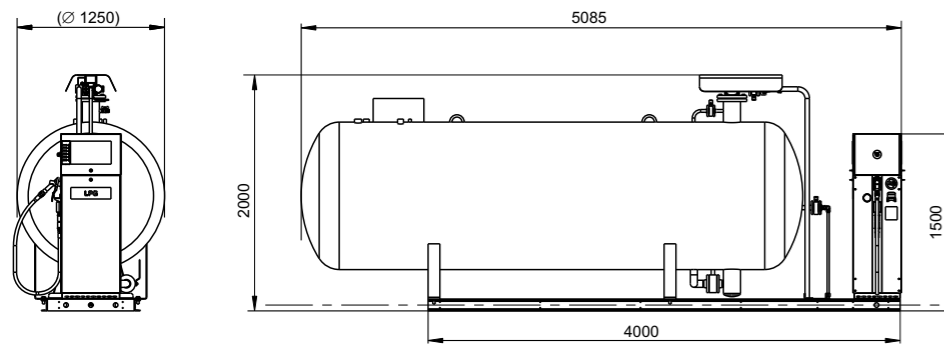
### Weight without fill of LPG

1 400 kg

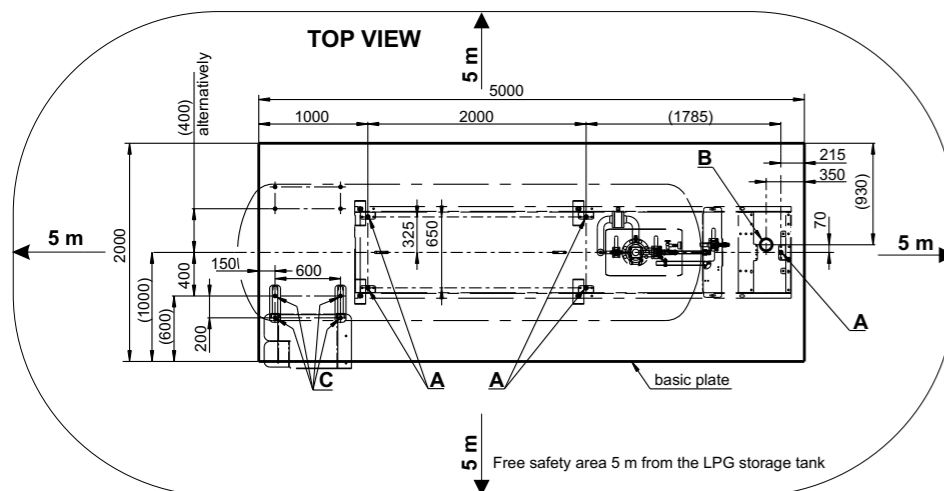
### Installation requirements

- electrical connection 3x 230/400 V AC ±15 %, 50 Hz – 1, 4 kW
- free place 10 x 4 m, concrete plate 1,2 x 6 m

### Dimensions



### LPG compact filling station fastening



#### A LPG compact filling station fastening

5x hole Ø 25 for anchor wints M 20, hole depth according to used anchor wints

#### B The hole in the basement for electric power supply and data cable

#### C Fastening of mounting platform

4x hole Ø 18 for anchor wints M 16, hole depth according to used anchor wints alternatively on the left or on the right side of storage tank

**NOTICE** In the area 10 m from the compact LPG, there must not be placed any channel intake and other input into the area under level ground.



8646.x/LPG/MINOR 1



8646.x/LPG/MINOR 2



8646.x/LPG/MONO 1



8646.x/LPG/MONO 2

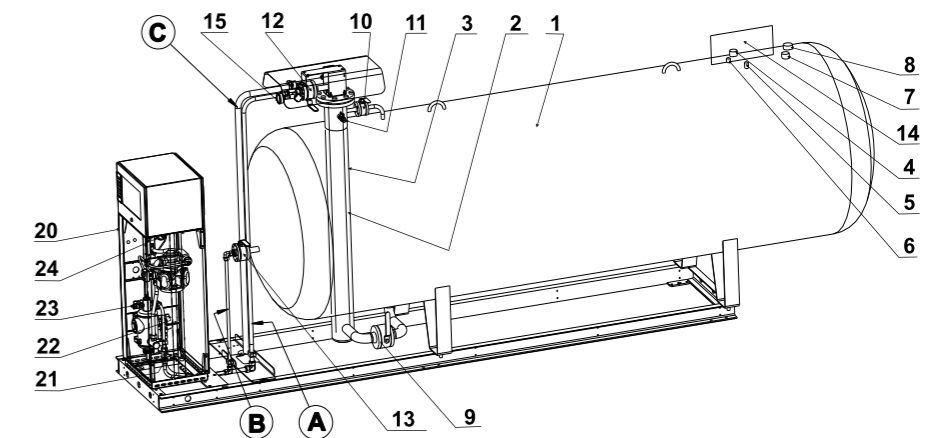


8646.x/LPG/DUO



8646.x/LPG/DUPLEX

## Scheme of compact LPG - type 8646.x/LPG



### Piping descriptions

- A delivery piping
- B return piping
- C safety tube of pump cableway

### LPG Pressure tank with equipment

- 1 overground LPG pressure tank
- 2 centrifugal submersible pump
- 3 closeable suction shaft of LPG pump with degasification possibility
- 4 tank filling valve with back clap-valve
- 5 valve of liquid phase
- 6 valve of gaseous phase with manometer 0 – 25 bars
- 7 tank safety valve (opening overpressure 15,6 bars)
- 8 tank float-gauge
- 9 spherical valve of suction piping
- 10 spherical valve of pump suction shaft degasification
- 11 service spherical valve
- 12 spherical valve of delivery piping
- 13 spherical valve of return piping
- 14 manometer 0 – 25 bars

### LPG dispenser

- 20 LPG dispenser
- 21 safety valve
- 22 input piping of LPG dispenser
- 23 input of metrology – spherical valve with plug
- 24 manometer 0 – 25 bars