Operating instructions/installation instructions for CAMPKO Composite with multifunction valve

CAMPKO®

for a save gas supply



Please note the following pictograms:



Please read this section carefully.



Attention / Caution Indicates dangers that can lead to minor physical injury or damage to property.



No fire! When handling gas (filling the container / checking for leaks / checking for leaks) sparks and flames can cause fire, explosions, damage to property, serious injury or fatal accidents.



Do not smoke! When handling gas (filling the container / checking for leaks / checking for leaks) Sparks and flames can cause fire, explosions, damage to property, serious injury or fatal accidents.



Risk of injury! Use gloves.

Introduction



CAMPKO composite refillable gas bottles including multifunction valve are designed and approved for installation in a vertical position and for the use of LPG (propane/butane). The refillable gas bottle must never be installed horizontally. A gaseous gas withdrawal can only be guaranteed in an upright position. The use of any other medium is not authorised and is prohibited.



The valve body must not be removed from the refillable gas bottle. Damaged refillable gas bottles or valves must be returned to the dealer or manufacturer for inspection before the gas is completely released from the refillable gas bottle. The markings on the refillable gas bottle and the valve body must not be removed or altered.



If no gas regulator with crash sensor (CS) in accordance with EN1949 is installed, the Withdrawal valve must be kept closed while driving. It is strictly forbidden to approach the refillable gas bottle with fire or an open flame. The refillable gas bottle must always be in a vertical position and securely installed in the vehicle during refuelling and removal.

Ventilation in the gas locker



Permanent ventilation to the outside must be provided for each liquid gas cylinder installation room.
If ventilation is only provided near the floor, the free opening must be at least 2 % of the floor area of the installation room, but at least 10,000 mm2. For ventilation in the upper and lower areas, each of the free openings must be 1 % of the floor area of the installation room, but at least 5 000 mm2 in each area. In the lower area means in the floor or in the side wall in contact with the floor. The larger dimension of the ventilation opening is at floor level. It must not be possible to completely or partially cover the ventilation openings with a liquid gas bottle or refillable gas bottle. These requirements must be fulfilled by the respective manufacturer for new vehicles before they are placed on the market and must be fulfilled by the fitter for so-called aftermarket conversions or "self-conversions".



Refuelling

Close the Withdrawal valve of the CAMPKO refillable gas bottle before each refuelling process. Turn the handwheel on the valve clockwise to close it hand-tight.

Before filling, check that the CAMPKO refillable gas bottle is firmly connected to the vehicle and is in an upright position. CAMPKO refillable gas bottles may only be filled in an upright position, as otherwise the automatic filling stop mechanism inside the refillable gas bottle cannot function correctly. Only refuel the CAMPKO refillable gas bottle with LPG (propane/butane).

Screw the country-specific LPG gas connector hand-tight onto the filling valve and then screw the tank gun onto the LPG gas connector. Lock the fuelling gun with the LPG gas connector. You will then hear a short hiss as a result of pressure equalisation. Press the button (dead man's switch) on the petrol pump and start the refuelling process. As soon as you stop pressing the button (dead man's switch), the refuelling process stops automatically. If you notice any leaks in the refillable gas bottle or its connections during the refuelling process, stop the refuelling process immediately.

Never fill up with more than 80% of the gross capacity of the refillable gas bottle.

24.4 litres gross = 19.52 litres net

With a corresponding 2-refillable gas bottle solution, the added net capacity of the individual gas bottles.

Once the refuelling process is complete, release the lock between the refuelling gun and LPG gas connector. As a result of a second pressure equalisation, you will hear another hissing sound. The refuelling gun can then be detached from the LPG gas connector and reattached to the petrol pump.

Observe the instructions and safety information displayed at the petrol station.

Structure of CAMPKO composite refillable gas bottles



1 handwheel - the Withdrawal valve can be opened and closed by turning it. No tools are required for this. The handwheel is closed "hand-tight".

2 Tapping connection - the tapping connection is equipped with a country-specific connection and allows the installation of a high-pressure LPG hose, a gas regulator, a gas filter or a rigid line.

3 Filling connection - 3/4"-16 UNF external thread for mounting a filling hose to fill the refillable gas bottle.

4 Full level indicator - the indicator shows whether the refillable gas bottle is completely full. The full level indicator is not a fill level indicator. Due to the vertical design of the refillable gas bottles, the float on multivalves cannot indicate an exact fill level, regardless of what is shown on a fuel gauge or display.

Zero point" display of the full level indicator:



5 Safety valve - if the gas pressure inside the refillable gas bottle exceeds 27 bar, the safety valve blows off gas in a controlled manner to prevent the refillable gas bottle from bursting.

Technical data

MaterialComposite

Service life10 years Inspection interval

80% fill stop included

Safety valve27 bar Pressure relief valve

Empty weight6 .52 kg

Input 3/4" UNF male thread

Outlet: Small cylinder connection (KLF) according to EN15252: G.12 =W21.8 x 1/14 LH

Volume (gross) 24.40 litres

Volume (net) 19.52 litres

Total height583 mm

Height without collar Collar not removable

Diameter310 mm

Homologation2010/35/EU + 2014/68/EU

ADR/RID 2015

ISO11119-3:2002



Installation & operation

Assembly accessories such as filling valves or filling hoses must be homologated and approved in accordance with ECE 67R-01 Class 1 without exception.

If no gas regulator with crash sensor (CS) in accordance with EN1949 is installed, the Withdrawal valve must be kept closed while driving. It is strictly forbidden to approach the refillable gas bottle with fire or an open flame. The refillable gas bottle must always be in a vertical position and securely installed in the vehicle during refuelling as well as during removal.

Installation is the responsibility of certified installation companies.

Maintenance

CAMPKO composite refillable gas bottles must be tested after 10 years and can be placed on the market for a further 10 years after successfully passing the test.

Waste disposal

Pressurised gas appliances must be returned to appropriate exchange stations, dealers or recycling companies. Caution! Pressurised appliance is still under pressure or contains residual gas that could ignite. Valves must be dismantled and the pressurised appliance must be flushed with water to remove the gas from the pressurised appliance.

If you have any further questions or problems, please contact a certified installation or service centre. You can find a Europe-wide workshop network at

https://hybrid.supply/contact