



Spill-Free Vehicle Refilling - SVR

Diesel

AdBlue®
/DEF

Gasoline

Ethanol

Methanol



Features

- Fully sealed spill-free interface between vehicle and depot
- Unique interface ensures that the correct fuel or chemical is filled in vehicle tank
- Fast, accurate control of refilling process, eliminating over-fills
- Existing vehicles can be retrofitted with the Identic system
- Ergonomically designed and easy to use nozzle
- Simple to integrate with depot equipment

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With increasing focus on escalating cost of fuel as well as on environmental concerns related to fuel and chemical handling, many bus and truck fleet operators are struggling to gain better control of their refuelling process. As a response to these concerns Identic can offer a unique spill-free vehicle refilling (SVR) system for a variety of fuels and chemicals. The Identic SVR system provides a safe and efficient method for refilling vehicles.

The SVR system is built around a fully sealed, spill-free interface between vehicle and refilling nozzle.



Improved Environment and Reduced Costs

Conventional refilling techniques use a shut-off mechanism that is not completely accurate and reliable. Common problems are spillage during refilling and overflowing of the vehicle tank that can cause expansion overflow spillage after the refilling process is completed. Fuel spillage in vehicle depots is not only costly and impacts the external environment. It also deteriorates the working environment causing slipping accidents, damage to vehicles and washing equipment etc.

The fully sealed interface and an accurate level control function in Identic's SVR system ensure that vehicles can be refilled without the risk for spillage during or after the refilling process. The winners are the refuelling staff, the environment, the vehicles and the fuel/chemical expense account!

Fast, Clean and Reliable Refilling

An important feature of Identic's SVR system is that the tank is filled from the bottom, which eliminates the foaming problems that are associated with conventional refilling techniques.

Identic's SVR system also uses a level sensor in the vehicle tank to determine when the tank is filled to the optimal level. Together with the bottom-filling feature this makes it possible to increase the pumping capacity, i.e. speed up the refilling process, while ensuring that the tank is filled to the optimal level every time.

Identic has used the same basic SVR technology to develop refilling solutions for Diesel, AdBlue® /DEF, Gasoline, Ethanol and Methanol. Each solution has been developed with careful consideration to the unique qualities of each fuel/chemical to ensure correct function and maximum quality.

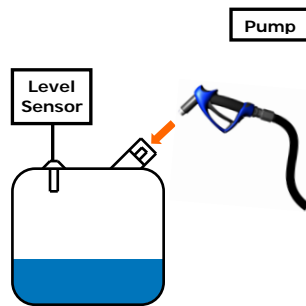
Fits All Types of Vehicles and Tank Designs

Identic's SVR systems have all been designed to fit different types of vehicles with different types of tank designs. The vehicle components can be installed at the vehicle manufacturers' production plants or easily be retrofitted at vehicle depots.

Refilling Process with SVR

Step 1: Connection

The spill-free nozzle is connected to spill-free connector in the vehicle tank inlet.

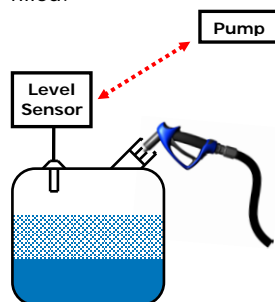


Step 2: Communication

The vehicle tank sensor checks the tank level and establishes contact with the pump. Communication through wire or wireless.

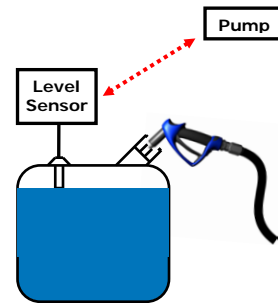
Step 3: Filling

The pump starts when it gets "green light" from the tank level sensor, and the tank is filled.



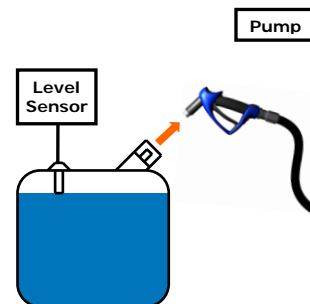
Step 4: Tank Full

The fuel/chemical reaches the tank level sensor which sends a stop signal to the pump at the correct level to allow for expansion.



Step 5: Disconnect

The nozzle is disconnected and the refilling process is complete.



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