



## SVR System for AdBlue®



### Features

- Fully sealed spill-free interface between vehicle and depot
- Unique interface ensures only AdBlue® can be 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 AdBlue® nozzle
- Simple to integrate with depot equipment

### Spill-Free Vehicle Refilling (SVR) System for AdBlue®

With the introduction of AdBlue® in Europe, the vehicle, petroleum and chemical industries are set for a major new challenge; to provide a safe and efficient way of handling this new chemical. AdBlue® contains Urea and has specific characteristics which require it to be handled carefully. The chemical becomes crystalline very quickly when exposed to air and has a corrosive effect on various materials. This makes the use of conventional refilling techniques unsuitable for use with AdBlue®.

IDENTIC has developed a completely new SVR system for AdBlue®, which allows a wide range of vehicles to be quickly and safely refilled with AdBlue®. By working closely with the vehicle manufacturers, vehicle operators, as well as AdBlue® producers and distributors, IDENTIC has developed a system that satisfies the requirements set by all the parties involved. Having more than 20 years experience in the design and manufacture of refilling systems for fuels and chemicals, IDENTIC has developed a fully sealed system, specifically for use with AdBlue®. The IDENTIC SVR system for AdBlue® provides a safe and efficient method for refilling vehicles, which protects the user, the vehicle and the environment. The spill-free connection drastically reduces the risk of damage and corrosion that can result from spilling AdBlue®.

### Performance and Reliability

The IDENTIC SVR system is specifically designed for AdBlue® and uses specially selected materials which protect it from the effects of AdBlue®. IDENTIC has focused on

the operational safety of the refilling process and has designed the system around a fully sealed connection between the depot and the vehicle. This fully sealed interface ensures that vehicles can be refilled with AdBlue®, without the risk for spillage during the process.

### AdBlue® Nozzle

The AdBlue® nozzle houses a unique spill-free coupling which connects the nozzle to the vehicle. The spill-free coupling provides a completely sealed connection between the nozzle and the vehicle. The unique coupling also makes sure that only the AdBlue® nozzle can be connected to the vehicle's AdBlue® tank. This is vital if the AdBlue® tank is to be protected from contamination or misuse caused by incorrect fluids being filled in the vehicle's AdBlue® tank.

*The nozzle to the right is intended for professional vehicle fleet depots while the nozzle at the top of the page is intended for commercial service stations.*



### Flexible Approach

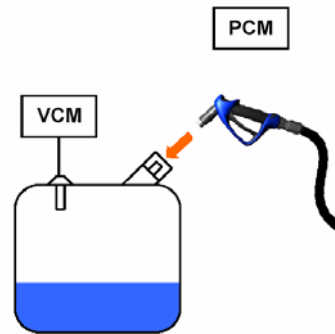
The IDENTIC SVR system for AdBlue® has been designed to suit a wide range of vehicles and tank designs. The SVR components which fit on the vehicle can easily be installed in the vehicle's AdBlue® tank. The system easily interfaces directly to a wide range of AdBlue® storage and pumping systems, including those supplied by IDENTIC.



## SVR - Five Simple Steps

### Step 1 – Connection

The AdBlue® nozzle is connected to the vehicle's AdBlue® tank.

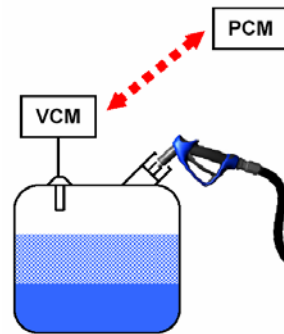


### Step 2 – Communication

The Vehicle Control Module (VCM) checks the tank sensor and establishes communication with the Pump Control Module (PCM).

### Step 3 – Filling

The pump starts and the tank is filled with AdBlue®.

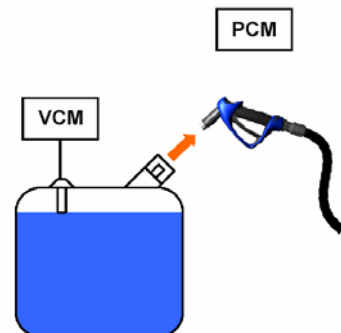


### Step 4 – Tank Full

The AdBlue® reaches the level sensor and the PCM is signalled to stop at the correct level to allow expansion.

### Step 5 – Disconnect

The AdBlue® nozzle is disconnected and the process is complete.



## System Components

In addition to the AdBlue® nozzle, the IDENTIC SVR system for AdBlue® includes the following components.

### Pump Control Module (PCM)

The PCM manages the operation of the AdBlue® pump in the depot based equipment. The PCM is easily connected to the customer's AdBlue® pumping system and ensures the flow of AdBlue® is carefully controlled.

### Vehicle Control Module (VCM)

The VCM is a fully sealed, self-contained unit, which provides the communication and control circuits which manage the flow of AdBlue®.

### Level Sensor

The level sensor mounted in the vehicle AdBlue® tank controls the tank level and indicates if the tank is full or not.

### Vehicle Tank Adaptor

The tank adaptor contains a spill-free coupling and enables the SVR nozzle to connect to the tank.

*Single Inlet*

*Dual Inlet*



*Special for buses*

*A range of vehicle tank adaptors are available for installation directly in the vehicle tank neck or on the vehicle body.*

## What is AdBlue® and why is it needed?

AdBlue® is a clear liquid, containing a 32.5% solution of urea in water, currently specified in the DIN standard, DIN 70070.

AdBlue® is being introduced together with Selective Catalytic Reduction (SCR) exhaust treatment systems for diesel-powered engines in heavy-duty vehicles.

SCR technology enables manufactures of heavy-duty vehicles to comply with the European legislation that limits exhaust emissions, including nitrogen oxides (NOx), on diesel powered vehicles. This legislation comes into force in 2005 (EURO4) and 2008 (EURO5).

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