sensify
GATEKEEPER SYSTEM™

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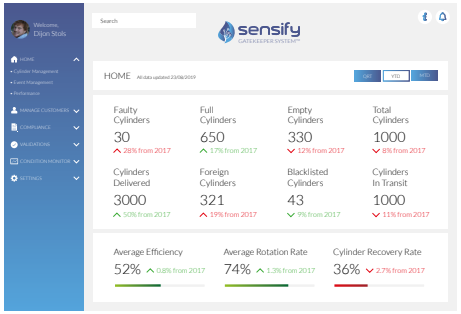


OUR INNOVATION, YOUR SOLUTION

The Sensify Gatekeeper System (SGS) delivers a revolutionary solution giving LPG companies worldwide unparalleled control over their cylinders for the first time, thereby eradicating theft and piracy and ensuring safety and customer loyalty, whilst analysing and optimising operations.

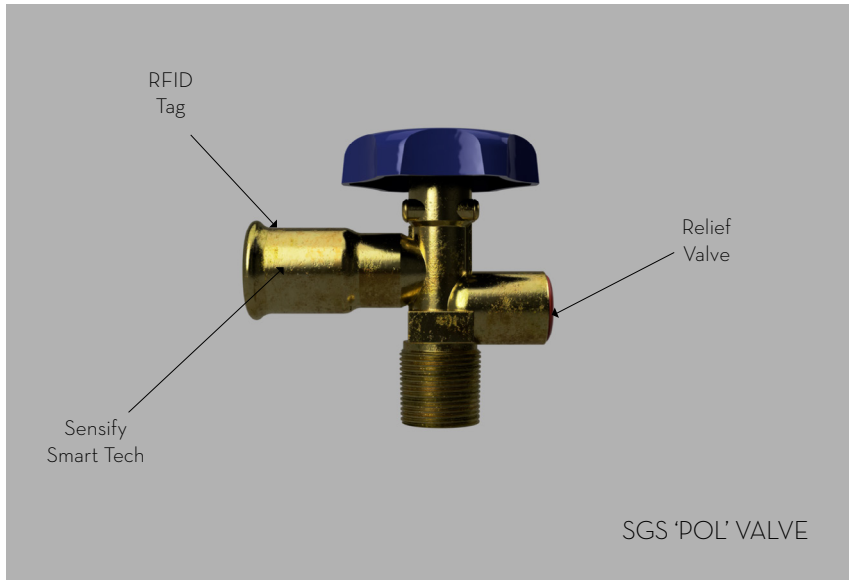
SGS is a world-leading combination of mechanical, electronic, software and radio frequency engineering. It delivers a unique 'lock and key' system that secures cylinders with its tamper-proof valve, featuring built-in RFID technology, that can only be unlocked by specialist filling nozzles controlled by a secure cloud-based application.

SMART, SAFE AND SECURE

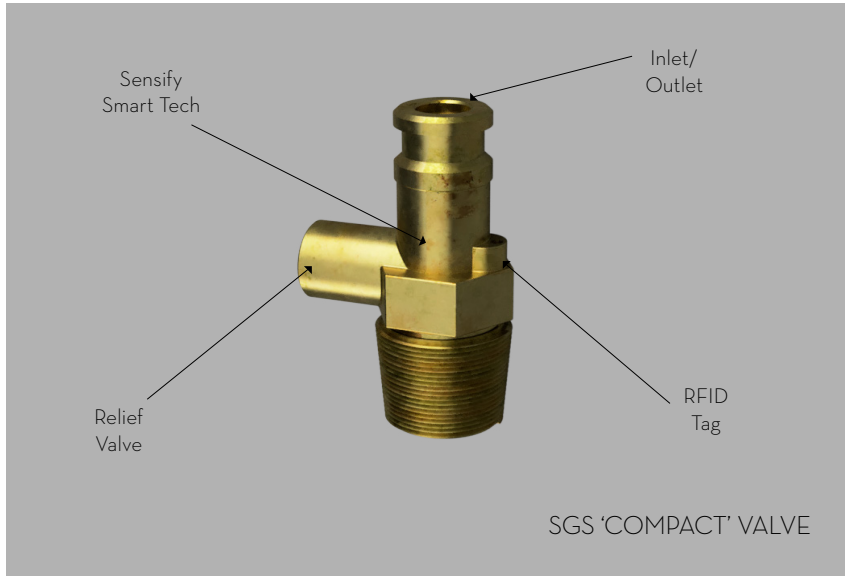
SGS enables LPG companies to track in realtime the life cycle of their cylinders from global supplier depots, filling sites, distributors and re-sellers. It also enables LPG companies to block the filling of any of its cylinders, wherever they are in the world, therefore rendering them useless if they have been stolen or if a rogue filler attempts to use them. This realtime tracking functionality, allows enforced servicing or removal of cylinders from the market, ensuring the safety and compliance of all of the company's LPG cylinders.

The SGS Software provides users with recommendations for optimisation and increased performance. Our software is a standalone solution that can be integrated with all ERP and accounting software programs.

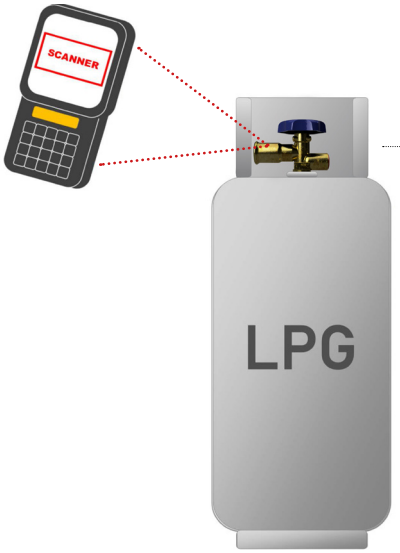
HOW DOES IT WORK?



SGS 'POL' VALVE



SGS 'COMPACT' VALVE

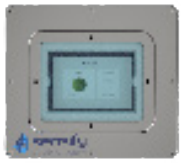


Cylinders are fitted with revolutionary SGS Valves, which are programmed with required cylinder information.

Once programmed, the information can only be changed by an authorised person within the company using our SGS Software.

- Cylinder ID
- Company ID
- Company Name
- Manufacture Date
- Validation Date
- Tare Weight
- Cylinder Size

SGS CONTROLLER



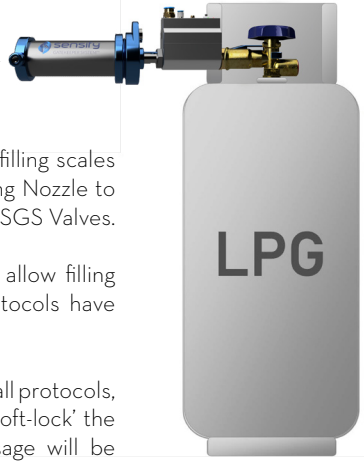
Information from the cylinder is verified and processed by the SGS Controller.

The SGS Controller can be connected to multiple filling nozzles and is installed and configured to each filling site's requirements.

The SGS Controller is connected to the SGS Database via Wi-Fi, 3G or 4G. In the event of a network failure, the SGS Controller remains operational until connection is re-established.

SGS DATABASE

- Identification
- Validation
- Compliance
- Verification



Cylinders connected to the filling scales are scanned by an SGS Filling Nozzle to verify the information on the SGS Valves.

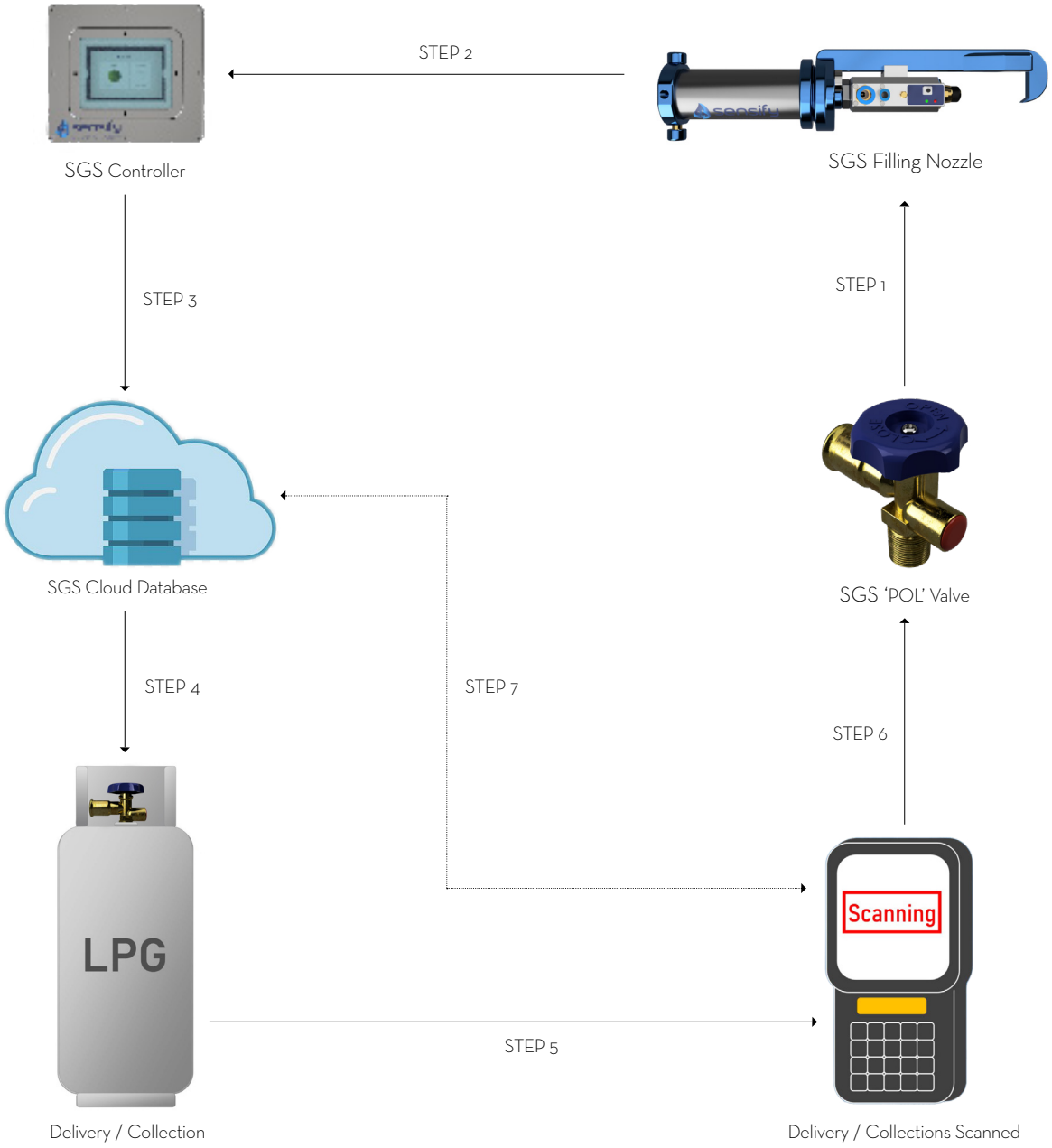
The SGS Software will only allow filling of the cylinder once all protocols have been verified.

If the cylinder does not meet all protocols, the SGS Filling Nozzle will 'soft-lock' the cylinder and an error message will be displayed.

The cloud-based SGS Database acts as a secondary verification source, which is used to verify compliance orders such as cylinder recalls. It stores the data of each and every cylinder, filling site, filling transaction and delivery. Cylinder information is sent back to the SGS Controller which then executes the appropriate commands.

Uniquely assigned login web portals allow SGS Software users to view data from operations, build reports and set parameters.

FROM FILLING TO DELIVERY



STEP 1 Cylinders installed with SGS Valves are connected to an SGS Filling Nozzle which reads the built-in tamper-proof RFID tags.

STEP 2 The information is sent to the SGS Controller for verification and access is either granted or denied.

STEP 3 The SGS Controller sends the completed filling transaction to the SGS Cloud Database.

STEP 4 The SGS Cloud Software updates the filled cylinder status and the system confirms to the user that it is ready for dispatch.

STEP 5 The filled cylinder is loaded and delivered to the customer.

STEP 6 The customer's details are entered on delivery and the cylinder is scanned. Empty cylinders are scanned and upon return to the filling depot their validation / maintenance record is checked before being approved for refilling.

STEP 7 All data is updated to the SGS Cloud Database in realtime.

FEATURES & BENEFITS

Validation Control

This takes full control of the cylinder maintenance in order to ensure customers always receive a properly maintained, full cylinder.

Validation Control records:

- Exactly who serviced the cylinder
- When it was last serviced
- What has been done to the cylinder

It also sets enforced validation / maintenance periods by 'soft locking' the cylinders when they are due.

Compliance

The SGS Software allows full control for users to set and enforce their filling operations standards, for example:

- The removal of their old cylinders from the market by way of a simple recall order
- The recall of faulty cylinders by entering the cylinder details
- The ability to set and enforce compliance / maintenance standards across different filling stations

Access Control

Through the increase of cylinder circulation rate by securing, tracking, recovering and maintaining cylinders, users can reduce the number of new cylinder purchases thereby increasing profits effortlessly.

Users can:

- Prevent rogue fillers and cross filling
- Prevent the filling of invalidated cylinders

Manage Cylinder Rotations

Not only does the SGS Software increase profitability by ensuring an increase in cylinder rotations, it allows the user to manage and monitor cylinder rotation rates to ensure cylinders that are more often filled and used, are regularly inspected and checked for safety.

Customer Delivery

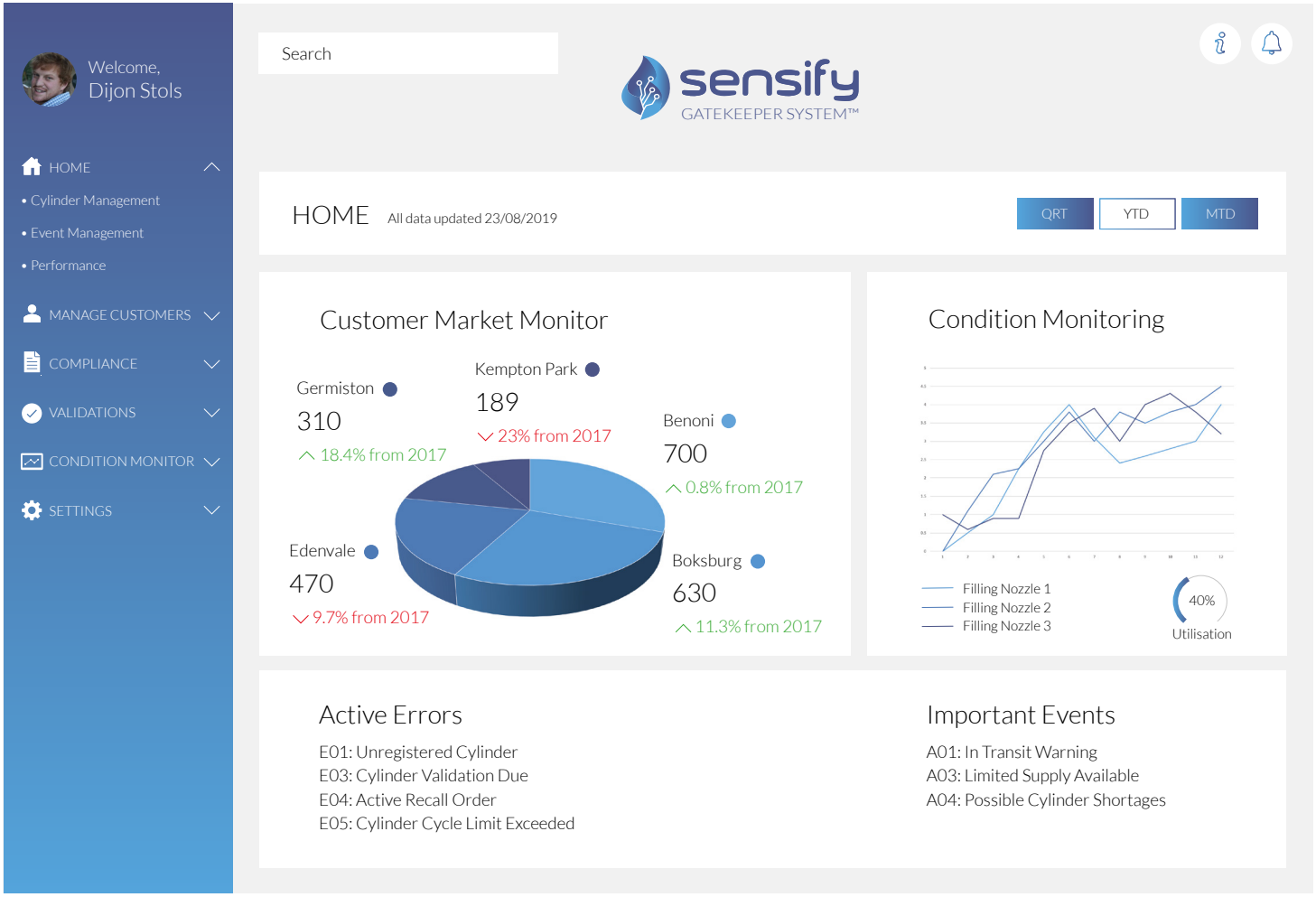
The SGS Software assigns the cylinder's ID to the customer, stores the customer's information and the delivery location. The delivery is then confirmed by the customers signature.

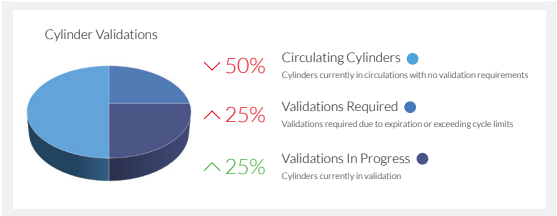
Condition Monitoring

The SGS Software monitors equipment remotely and provides users with the ability to schedule routine maintenance thereby eliminating downtime and maintaining maximum productivity.

Customer Value Monitoring

The SGS Software calculates the value of each customer regionally by monitoring customer usage over a determined period through cylinder deliveries and combines this data with the total regional deliveries to evaluate an areas market value in relation to the volume of LPG consumed.





DASHBOARDS & ANALYTICS

DASHBOARD

The dashboard has been designed for ease of use which enables users to access detailed information effortlessly by fast navigation showing realtime displays regarding its current operations.

THE CLOUD

The SGS Software is entirely cloud-based which provides users with peace of mind and access over multiple devices.

MANAGEMENT DASHBOARDS

Each filling station is assigned with its own account, unique username and password. Each user dashboard displays only its own performance and information.

The user's primary filling station's 'Management Dashboard' displays the content of all of its filling stations which enable it to assess each individual site's performance, customer deliveries, when cylinders are due for validation etc. in order to maximise efficiency and profits.

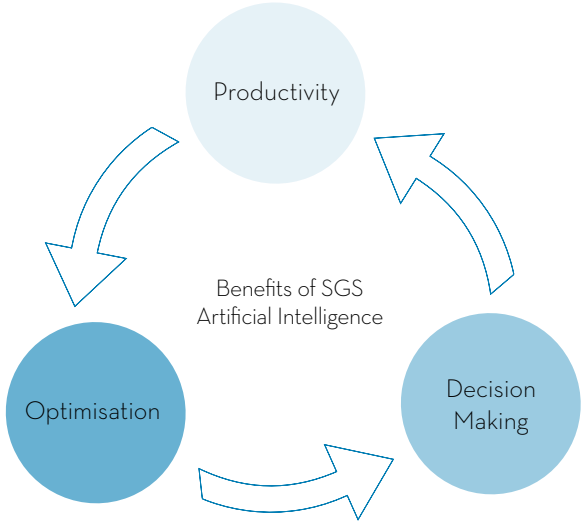
PERFORMANCE INDICATORS

Performance indicators are displayed on the Dashboard. Data from current operations are compared to previous periods to calculate whether a company / distributor is underperforming or exceeding previous periods.

Customer Profiling	The user can view customer consumption patterns in order to establish their LPG usage requirements, demographics and therefore value to the company.
Cylinder Activity Analysis	The user can view customers' consumption over designated periods in order to determine regional peak and off-peak consumption patterns.
Forecasting	Accurately forecast when the next scheduled delivery should be and when cylinder shortages will occur.
Average Cylinder Rotations	View the rotation rate of individual cylinders or the average rotation rate of a combined fleet and the factors that influence cylinder rotations.
Market Segmentation	SGS verifies and provides detailed reports on the user's high volume consumption areas, most active regions, declining regions and customer preferences within the supply chain.

DEVELOPMENT ROADMAP

BESPOKE SGS AI SOFTWARE



ADDITIONAL SENSIFY PRODUCTS

Inventory Management System (IMS)

PINN Sales Application

Sensify 'Cash for Gas' Card

sensify
GATEKEEPER SYSTEM™

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