

Markings on LPG components are crucial for ensuring their compliance with the requirements of the General Product Safety Regulation (GPSR). Each of these markings is designed to ensure that the products are safe to use and meet applicable standards and regulations. Below is a detailed explanation of each outlined point:

## 1. CE Compliance Certificate

The CE (Conformité Européenne) marking signifies that a product complies with EU requirements concerning safety, health, and environmental protection. For LPG components, the CE marking indicates that the product (e.g., gas hose, valve, injector) meets European safety standards. The CE certificate is mandatory for many products entering the EU market, particularly those that may impact user safety, such as LPG installation components.

### Compliance with the GPSR:

- The product must be safe and pose no risk to user health.
- The CE certificate ensures that the product has been assessed for risks associated with its use.

### Sources:

- European Commission on CE marking
  - Polish LPG Industry Chamber
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## 2. Approval Numbers

Approval refers to the process of certifying products for sale in the European market, particularly for automotive components and gas installations. Approval numbers are assigned to products that meet technical standards specified by relevant regulations (e.g., UNECE regulations for LPG parts). For LPG components, such as gas tanks, hoses, and injectors, approval indicates that the product has passed safety, performance, and reliability tests.

### Compliance with the GPSR:

- The manufacturer must ensure the product is safe for consumers, with approval numbers serving as proof of compliance with technical standards and regulations.

- Approval applies to both the design and materials used in manufacturing components.

**Sources:**

- UNECE Approval for Automotive Parts
  - LPG Certification and Approvals
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### **3. Manufacturer Codes and Markings**

Manufacturer codes or identification numbers are used on LPG components to identify the manufacturer or supplier. These markings are particularly important for quality control, product traceability, and facilitating the replacement of parts or filing claims when necessary. Manufacturer markings help verify the product's source and compliance with safety standards.

**Compliance with the GPSR:**

- The manufacturer must include identifiers that allow tracking the product's source and monitoring it in case of safety issues or recalls.
- Adhering to the requirement for manufacturer markings supports quality control and the removal of unsafe products from the market.

**Sources:**

- ISO 9001 - Manufacturer Identification Standards
  - LPG Safety and Identification Guidelines
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### **4. For Hoses: Permissible Pressure and Temperature**

Hoses used in LPG installations must meet specific parameters, such as permissible operating pressure and temperature range. This information is critical, as LPG hoses must withstand various operating conditions, including high gas pressure and fluctuating temperatures in the system. Adherence to these parameters prevents system damage and reduces the risk of gas leaks that could lead to fire or explosions.

**Compliance with the GPSR:**

- Specifying permissible pressure and temperature ensures safe operation under standard and

extreme working conditions.

- The manufacturer must provide clear information on the maximum values the product can handle without risking damage.

**Sources:**

- European Telecommunications Standards Institute - LPG Hoses
  - Standards for Gas Installations
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**Summary:**

In the context of the GPSR, appropriate markings on LPG components (such as the CE certificate, approval numbers, manufacturer codes, and specifications for hoses) are essential for ensuring safety and compliance with EU regulations. These markings aid in product identification, quality assurance, and monitoring potential risks associated with the use of LPG components.

Manufacturers are obligated to provide this information to ensure that users can safely operate gas components in vehicles and other devices.