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SWOBODA TANK LEAK MONITORING SYSTEM

SYSTEM FOR DETECTING A LEAK IN THE TANK SYSTEM

The Swoboda TLMS OPSLI2 meets future emission standards

INTRODUCTION

To meet the current and future requirements of the emission standards, the tank system in a passenger car must be monitored for leaks.
Despite its compact design, the TLMS contains a valve as well as a pump and is thus able to meet these requirements.
Due to its robust design, the active system can reliably detect a leak of various size.

MODULE SPECIFICATION

System design	Overpressure / negative pressure possible
Nominal voltage	12 V
Leakage in module during diagnostics	< 5 cm³ at 50 mbar
Flow resistance	< 2 mbar at 60 l/min
Overpressure protection function	Safety valve for pressures > 100 mbar
Overpressure	50 mbar
Pressure sensor	Both variants available - with / without pressure sensor
Volume flow	5 l/min
Medium	Air (fuel vapor resistant)
Temperature range environment	-40 °C ... +80 °C
Temperature range operation	-15 °C ... +80 °C

ADVANTAGES

- Safe leak detection through active system
- Robust and dirt-resistant system structure
- Powerful pump for leak detection up to 1.0 mm
- Fulfills today´s emission standards
- Customized versions
- Free mounting position

APPLICATION AREAS

- Conventionally powered cars
- Hybrid cars

Any questions about this product?
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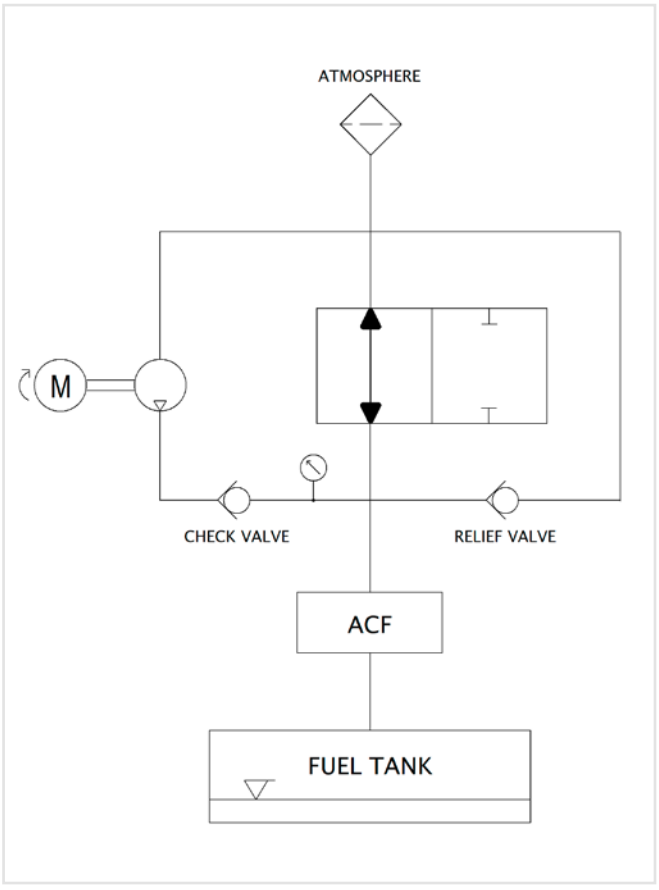
PRINCIPLE OF OPERATION

- Isolate tank system from atmosphere
- Build-up of overpressure in the tank system
- Measurement of pressure drop curve via (integrated) differential pressure sensor
- Venting the tank system

AVAILABLE PRODUCTS

The TLMS from Swoboda is a customer-specific product that is optimized for the respective requirements, such as performance data, electrical interface or the available installation space.
For diagnostics, the TLMS is already equipped with an integrated pressure sensor, but can also be supplied without one if a pressure sensor is already present in the tank system.

FUNCTIONAL DIAGRAM



Schematic functional diagram of the TLMS inside the tank system with integrated pressure sensor.

DRAWING