

Fuel Feed Pump

The feed pump is a gear pump driven by a low power input D. C. motor. The fuel enters the pump from the tank via the pre-filter and is then forced through the fine filter to the injection pump.

The fuel feed pump uses a pressure maintenance valve to keep the feed pressure constant.



Fuel System

From the tank (1) the fuel is drawn through pipe (3) and filter (2) to the fuel feed pump (4) which then forces it via the fuel pipe (5) to the fine filter (6). Having passed the latter, the fuel is forced through pipe (7) and the microscopic filter in the delivery connection to the injection pump (8).

Any excess amount of fuel flows back to the tank via fuel return pipes (9 and 10) and the fuel return connection of the line filter. The electric fuel feed pump starts to operate the very moment ignition is switched on so as to drive out air or gas bubbles that might have formed in the system. The air/gas escapes via the by-pass of the fine filter fitted with a throttle valve (11).

The fuel system is under pressure up to the fuel return connection on the injection pump. Constant pressure is ensured with the aid of a pressure maintenance valve arranged in the fuel return connection. A drop in pressure below the permissible minimum is indicated by the flashing up of a monitor light in the instrument panel. Operation of the monitor light is via a contact switch (12) fitted to the fine filter.

Fuel System

