

Fig. 18.1

The delivery system has to perform the following functions: (Refer Kit Layout)

- Carry LPG from Cylinder to the vaporiser.
- Reduce pressure and change the phase from liquid to gas
- Carry these LPG low pressure vapour to the engine.

This system consists of

#### I] METALLIC FUEL LINES: (fig:18.1)

It is copper pipe covered with PVC sleeve and has following specifications:

- Working Pressure : 0 to 22.4 Kg/cm<sup>2</sup>.
- Test Pressure : 306 Kg/cm<sup>2</sup>.
- Burst Pressure : 705 Kg/cm<sup>2</sup>.

It carries LPG in liquid state from cylinder to the vaporiser. LPG in the service line is under same pressure as inside the cylinder

For safety reasons, the rigid pipe is routed along the fuel lines and clamped to the body.

#### Fitment precautions: (fig:18.1)

- Distance between two clamps shall not exceed 600 mm.
- Fuel line shall be away from the exhaust system by atleast 150mm.

It is important that the fuel line routing is not changed during vehicle servicing. In case any service to the service line is required, due care must be taken for proper fitment.

#### II] SOLENOID VALVES : (fig: 18.2)

These are normally closed valves and open only when energized electrically. Main solenoid at the inlet of the vaporiser opens only when the engine is running in LPG mode. Open momentarily at ignition "ON" position and remains open once engine is running in LPG mode. Both these valves close as soon as engine stops.

#### Filter

Filter is fitted at the entrance of the LPG. Any contamination in the LPG is prevented at the inlet of the vaporiser itself.

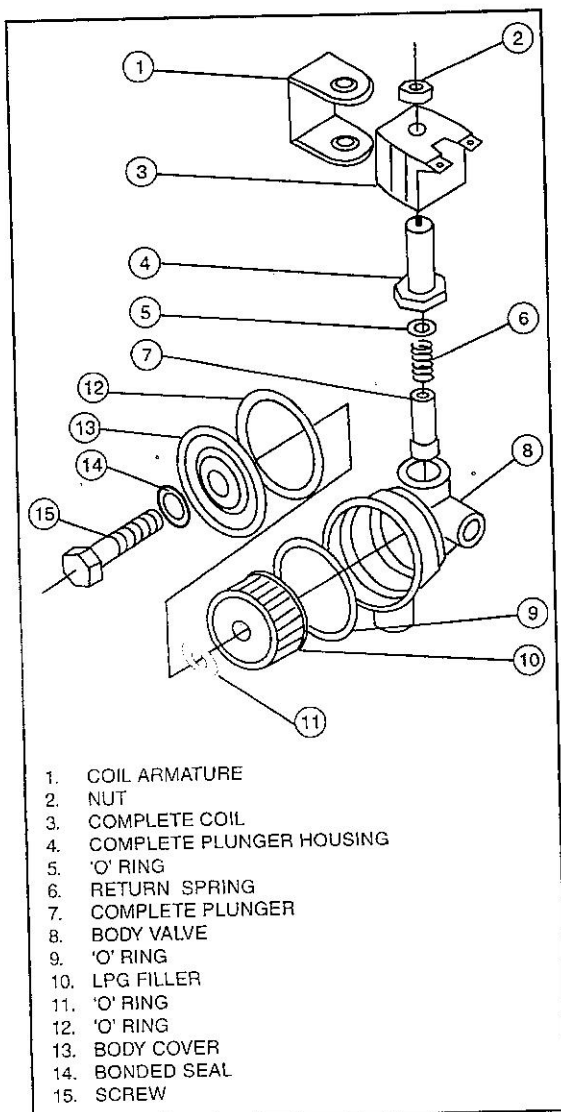


Fig. 18.2