



Fig. Ca-4  
Section through the fuel injection pump

- |                                    |                              |                               |
|------------------------------------|------------------------------|-------------------------------|
| 1. Back-leakage connection.        | 5. Transfer pump.            | 9. Pumping plunger.           |
| 2. Governor spring.                | 6. Hydraulic head.           | 10. Drive plate.              |
| 3. Metering valve.                 | 7. Cam ring.                 | 11. Governor weight assembly. |
| 4. End plate and regulating valve. | 8. Automatic advance device. | 12. Quill shaft.              |

This flat is open to fuel at drain pressure in the governor housing.

In the surface at the lower end of the metering valve is machined a flat, the upper edge of which is of the same pitch as the helical groove. This flat is open to fuel at transfer pressure.

The width of the land between the helical groove and the flat at the lower end of the metering valve is slightly less than the diameter of the timing port in the metering valve chamber in the hydraulic head. The timing port, which is situated opposite the metering port, is connected by a passage in the hydraulic head and the hollow locating bolt to the port in the advance cylinder.

When the metering valve is in the full-load position the helical groove in the valve is aligned with the timing port in the hydraulic head and fuel at drain pressure is applied to the advance piston. As the drain pressure is insufficient to overcome the piston spring pressure the cam ring is held in the fully retarded position.

Under light-load conditions the metering valve is moved to the low fuelling position, aligning the flat at the lower end of the metering valve with the timing port. The advance piston is now subject to fuel at transfer pressure, and the piston and cam ring move to the fully advanced position.

The under side of the metering valve is subject to fuel at transfer pressure which tends to force the valve upwards. This upward movement of the valve is controlled by an adjustable stop screw, which sets the relative positions of the helical groove, the flat on the lower end of the valve, and the timing port so that light-load advance is obtained at the required engine speed.

Machined on each lobe of the cam ring, immediately after the peak of the cam, is a retraction curve. Under running conditions, when the injection cycle is completed the distributing port in the rotor and the outlet port on the hydraulic head are still in partial alignment with each other. As the plunger rollers move off the peaks of the cams the retraction curves allow the plungers to move slightly outwards. This movement of the plungers effects a sudden reduction of pressure in the injection line, so preventing secondary injection and allowing the injector nozzle needle valve to snap onto its seating to terminate the spray of fuel into the combustion chamber without "dribble". When starting the engine the metering valve is in the full-load position and the advance piston is subject to fuel at drain pressure. As drain pressure is not sufficient to overcome the pressure of the advance piston return spring, the piston and the cam ring remain in the fully retarded position.

# Manual For Dismantling A Dpa Pump

**SA Adler**



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