Chapter 2

SOLENOID OPERATED COCK, TYPE SC7/4D

Description and operation

1. The fuel cock controls the supply of fuel from the high-pressure fuel pump to the reheat system.

2. The unit comprises a standard solenoid to which is attached a spring-loaded plunger resting on a half-ball valve. This valve closes an orifice which is connected to a servo chamber where a spring-loaded piston valve is housed.

3. A connection is also made from the downstream side of the half-ball valve to the reheat control unit supply line.

4. When reheat is selected, the solenoid is energized and the half-ball valve allowed to open. Fuel from the servo chamber then escapes through the orifice and as a result the high pressure fuel overcomes the spring pressure and opens the piston valve to allow fuel to pass to the reheat system.

5. When the reheat is shut off, the solenoid is de-energized to close the half-ball valve. This increases the servo pressure and closes the piston valve, and the flow to the reheat control unit then ceases.

Installing and servicing

6. Instructions for installing the unit are contained in the relevant engine publication. Except for the checking of the fuel and electrical connections, no servicing is required.

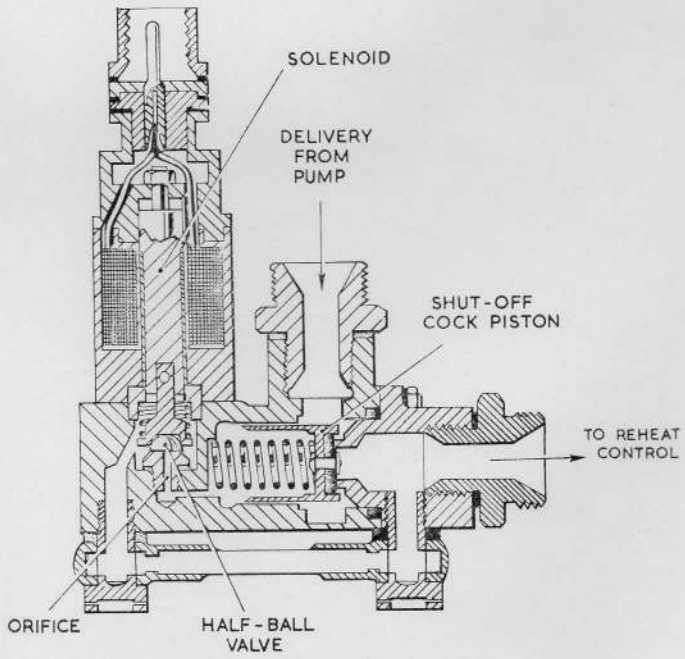

Fig. 1 Solenoid operated cock.

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