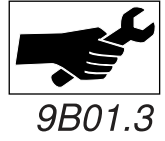
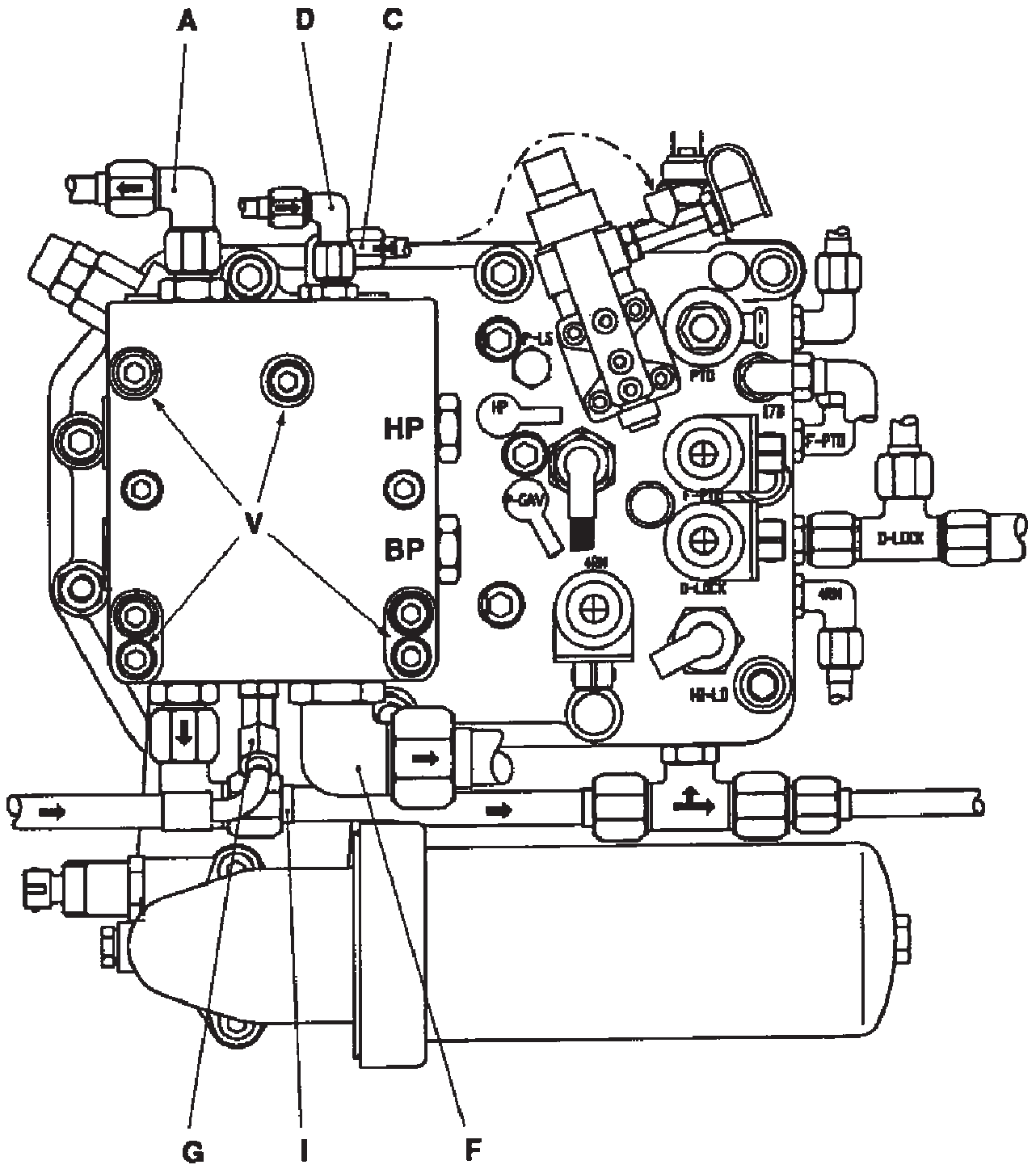




Hydraulics - Distribution block



9B01.3





9B01.4

Hydraulics - Distribution block



B. Operation

1st priority: Steering

Spool (2) moves to the left due to the action of spring (3).

The flow sent along channel E (Fig. 1) from the variable displacement pump is conveyed, as priority, to the Orbitrol distribution valve through channel A.

- **Steering in neutral:** The steering distribution valve (Orbitrol) is in the closed position. Pressure from the pump lifts spool (2) to the right and the flow is directed to channel H.

- **Steering actuated:** A pilot pressure from the Orbitrol distribution valve arrives at port D and pushes spool (2) to the left, allowing flow through to port A supplying the Orbitrol unit.

Note: A flow rate of approximately 0.5 l/mn passes from port A to port D via a hole and a restrictor in spool (2). This flow produces a pressure of approximately 6 bars at port D. The LS line carries that pressure to the pump regulator, set at 22 bar (319 PSI) to obtain a standby pressure of 28 bar (406 PSI).

2nd priority: 17-bar (247 PSI) pressure holding valve

Spool (4) is moved to the left due to the action of spring (5) allowing flow from channel H to reach port I (17-bar (247 PSI) low pressure). As soon as the pressure at this port reaches 17 bars (247 PSI), the spool is in equilibrium allowing low pressure to be maintained and permitting flow to port F (auxiliary and lift).

When the auxiliary spool valves and lift control valve are used, an LS pilot pressure is sent to the unit via port G to join the LS line at port C.