



Color legend

- A. High-pressure circuit
- B. Pressure drop in high pressure
- G. Trapped oil

- H. Oil to the tank
- I. Low pressure circuit P1
- J. Load-sensing line (LS)

You can set the "drop rate" potentiometer (setpoint) so that the CCU supplies the "lower" solenoid valve with a specific current. The actual value of the drop rate is signaled to the CCU controller via the position sensor. The controller carries out a constant comparison of the SETPOINT and ACTUAL values and varies the current at the solenoid valve accordingly. This produces a load-independent drop rate.

When the "lower" solenoid valve is supplied with current, the pilot poppet (1) opens. The load pressure on the rear side of the main poppet (2) is diverted into the return flow. An insufficient amount of oil is able to flow through the restrictor (3). The closing pressure at the main poppet therefore drops. The load pressure that acts on the front side of the main poppet now opens the main poppet (2).

The travel of the "lower" solenoid valve and of the pilot poppet (1) determines the travel of the main poppet (2). When the main poppet (2) opens, the pilot poppet (1) closes. When the pilot poppet (1) closes, the load pressure acts on the rear side of the main poppet.

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