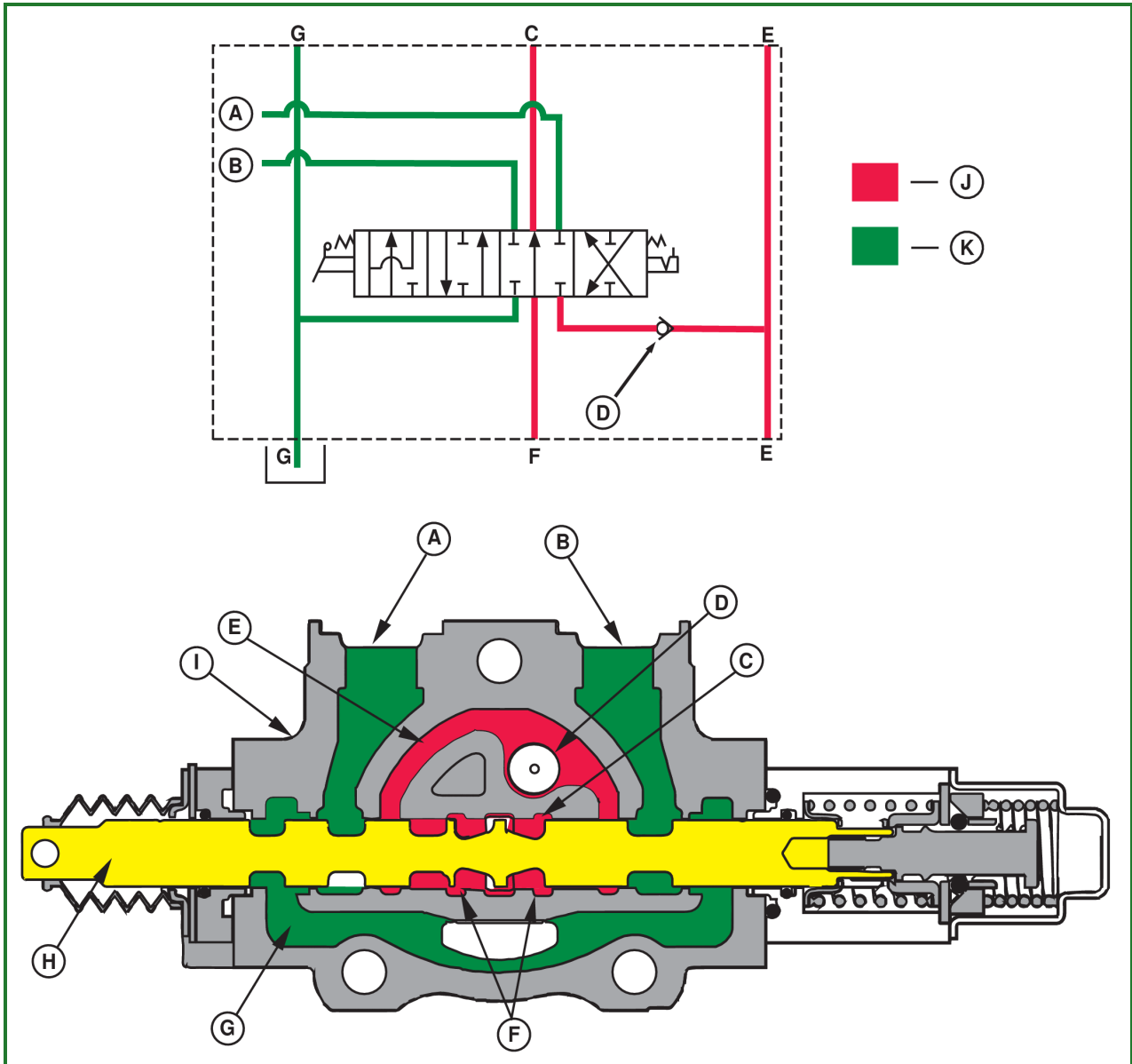


## Selective Control Valve

### Neutral Position



APY13293-UN: EATON Selective Control Valve—Neutral Position

**LEGEND:**

- A - Retract Port
- B - Extend Port
- C - Bypass Passage
- D - Check Valve
- E - Inlet Passage
- F - Bypass Passage
- G - Sump Passage
- H - Spool
- I - Valve Body
- J - High Pressure Oil
- K - Trapped Oil

**FUNCTION:**

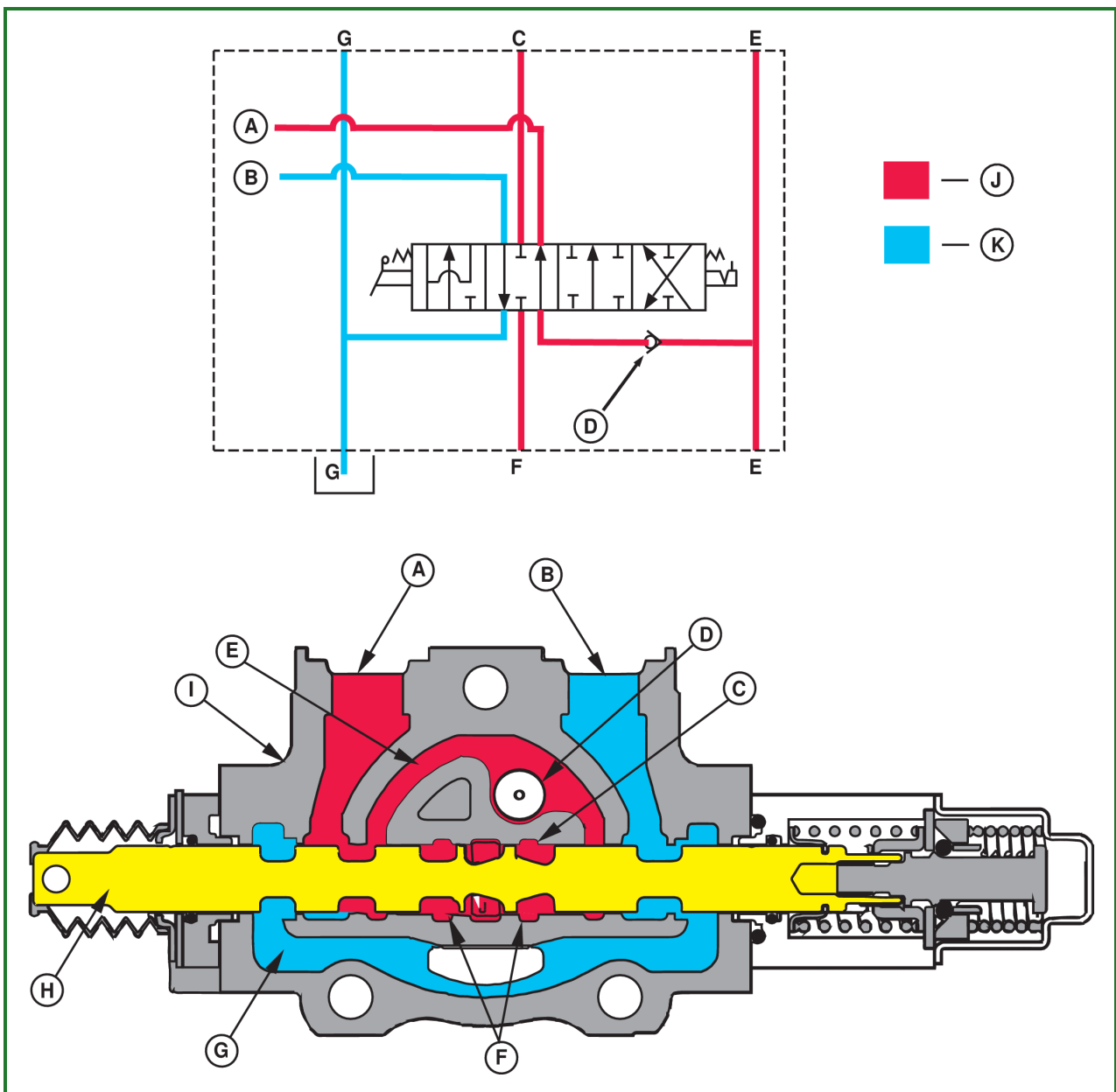
Control oil supply to cylinders of the attached implement.

**THEORY OF OPERATION:**

The tractor may be equipped with one or two selective control valves. Operation in neutral position is identical for both the valves. Oil from hydraulic pump enters valve at the inlet passage (E). Oil continuous to flow out of passage to other selective control valve (If equipped) and to end plate or power beyond plate. If end plate is fitted on selective control valve, the oil is redirected and moves back to by-pass passage (F) of the valve. Oil flows through by-pass passages and feeds rockshaft control valve. And if rockshaft control valve is not working then oil flows to the sump. If power beyond plate with fittings is fitted on selective control valve instead of end plate, oil is carried away out of the valve to carry out and feeds another valve.

As long as spool (H) remains in neutral position, the pressurised oil in the inlet passage (E) through check valve (D) is blocked. Pressurised oil flows from bypass passage (F) to bypass passage in (C). Oil remains trapped in retract port (A) and extend port (B). With no hydraulic pressure (engine off) entering inlet passage (E) the load check closes and seats against the inlet passage to the spool preventing oil from returning back to the sump. The load check prevents implement drop at rear SCV couplers when tractor is turned off and SCV lever remains in the neutral position.

**Retract Position**



APY13292-UN: EATON Selective Control Valve—Retract Position

**LEGEND:**

A - Retract Port