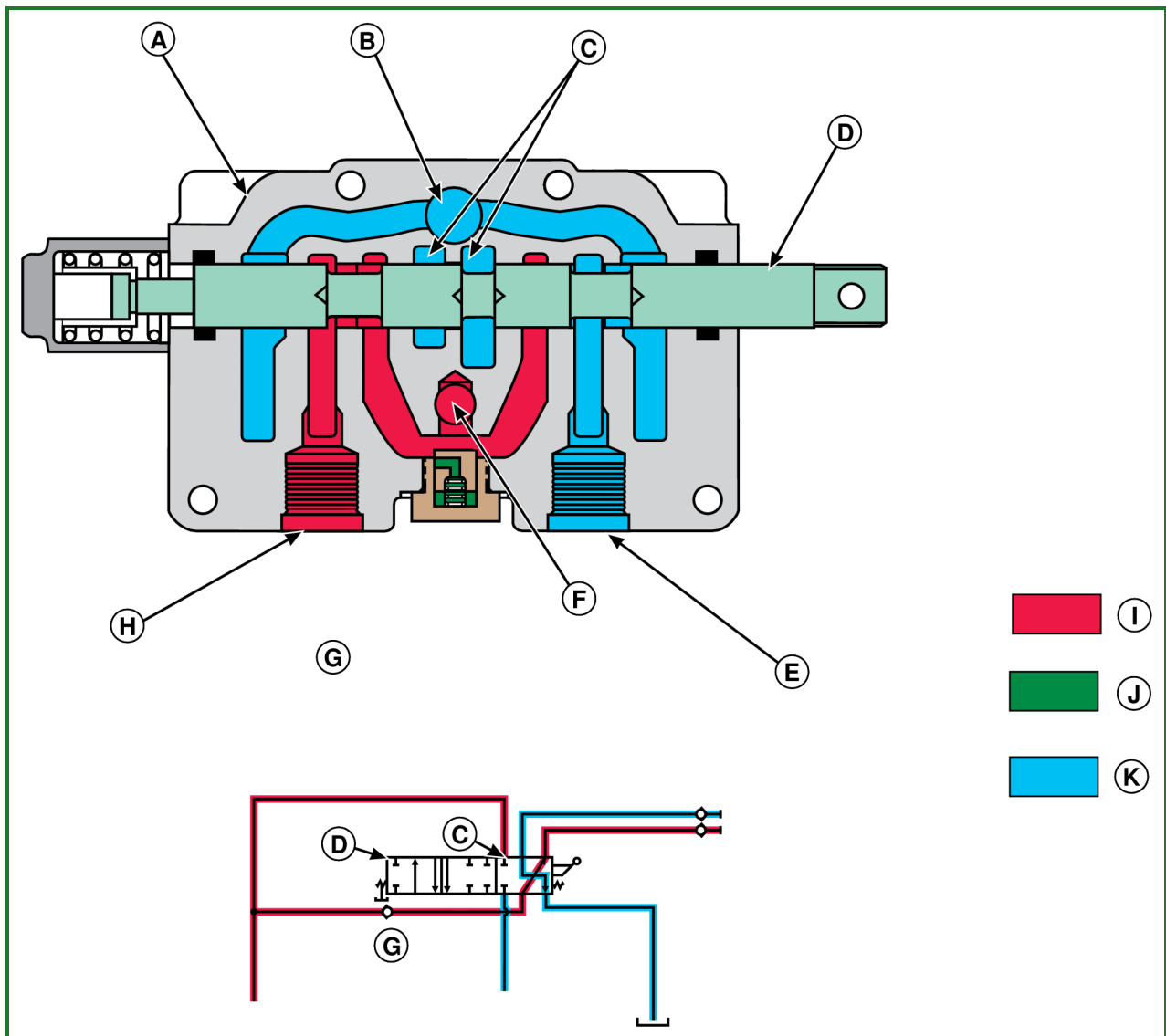


Selective Control Valve Operation—Extend and Retract Positions



PULV005236-UN: Selective Control Valve Operation—Extend and Retract Positions

LEGEND:

- A - Valve Housing
- B - Sump Passage
- C - Neutral Passages
- D - Spool
- E - Retract Port A
- F - Inlet Passage
- G - Load Check
- H - Extend Port B
- I - System Pressure Oil
- J - Trapped Oil
- K - Return Oil

When the spool moves out, the neutral passages (C) are blocked causing pressure to rise at the inlet passage (F). Inlet passage is simultaneously connected to extend port (H) allowing inlet to open load check (G) and allow oil flow to extend port (H). With the spool in this position, the sump passage (B) is connected with retract port (E) allowing oil to return to sump.

When spool is moved in past neutral, ports reverse flow and connected cylinder moves in the opposite direction.

NOTE:

Single (third) selective control valve is shown. Extend and retract positions for other valves are identical.

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