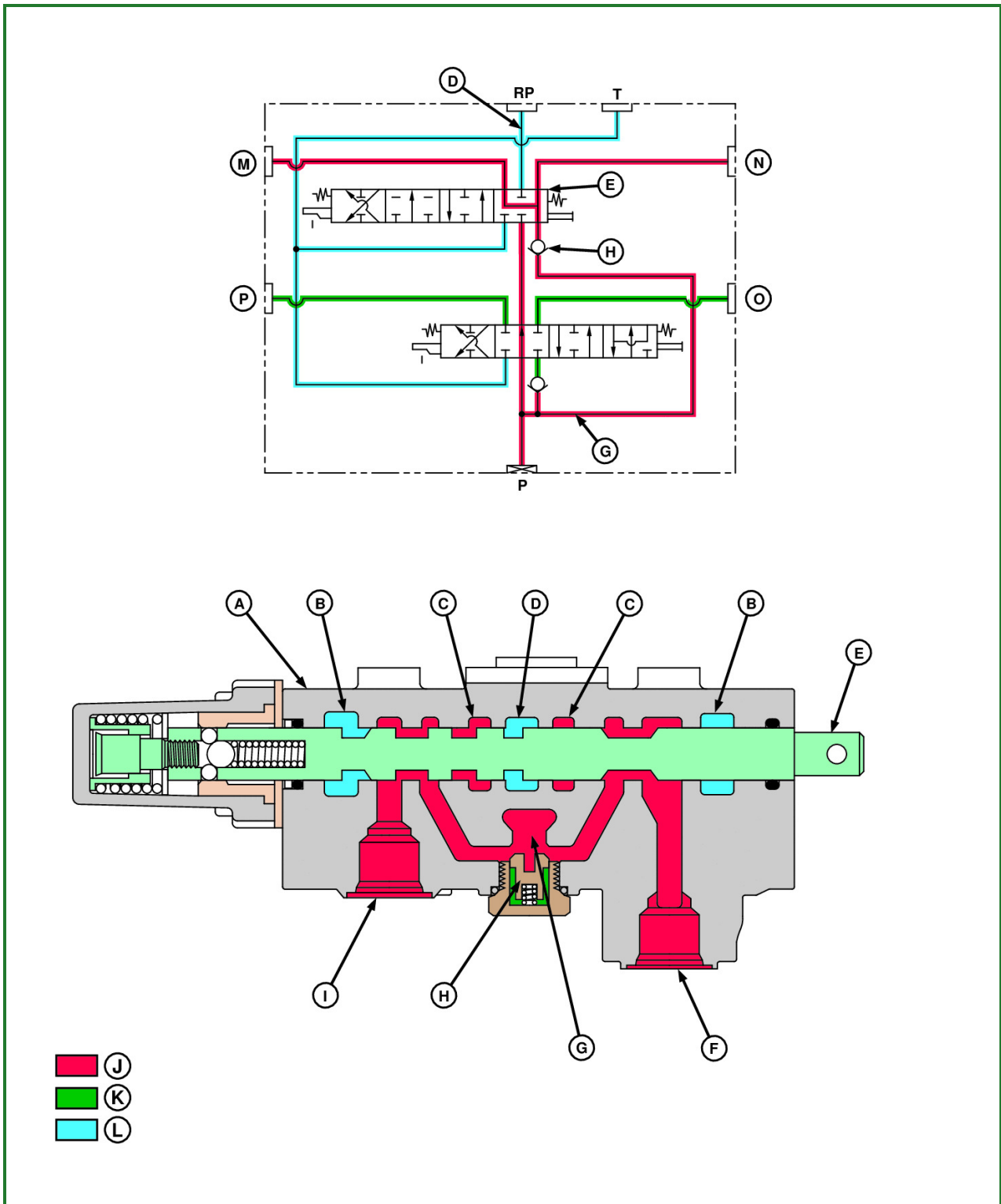


Dual Mid-Mount Control Valve Operation—Regenerative Position



LVC10995-UN: Dual Mid-Mount SCV

LEGEND:

- A - Valve Housing
- B - Sump Passage
- C - Inlet Passages
- D - Return Pressure Passage
- E - Spool
- F - Retract Port
- G - Pressure Inlet Passage
- H - Load Check

- I - Extend Port
- J - System Pressure Oil
- K - Trapped Oil
- L - Return Oil
- M - SCV II Extend Port (Regenerative)
- N - SCV II Retract Port
- O - SCV I Retract Port
- P - SCV I Extend Port (Float)

The regenerative SCV is the bottom spool valve of the dual mid-mount SCV assembly. Besides the positions of neutral, extend, and retract, SCV II also has a regenerative position.

When the spool (E) moves inward to the regenerative position, inlet passages (C) are blocked, causing a pressure rise at pressure inlet passage (G). Oil flowing into pressure inlet passage (G) opens load check (H) which allows oil flow to spool. Oil flows out extend port (I) to head end of implement cylinder. Oil returning through retract port (F) from rod end of cylinder also enters extend port (I) and supplements flow passing to piston end of cylinder, causing faster action of cylinder.

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