

Integrated Selector Valve with Implement Valve

VPL Interlock Section



Challenge:

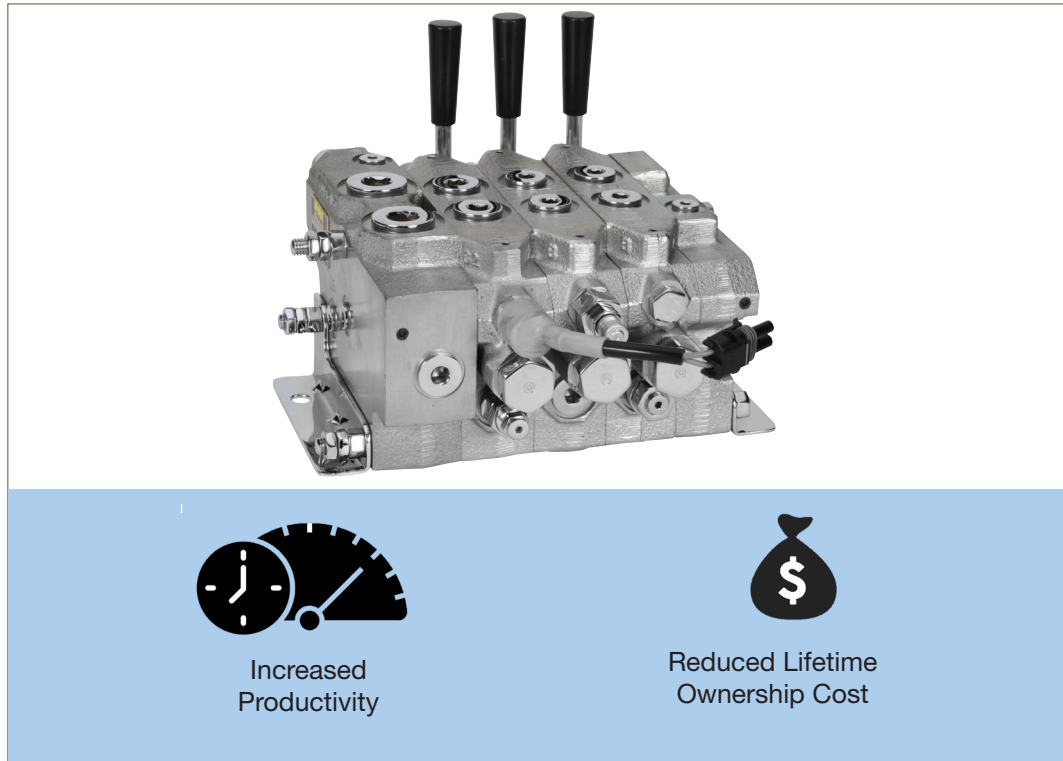
A concrete pump manufacturer wanted a simple and cost-effective way of selecting whether the pump flow is directed to the stabilizer circuit or to the boom control valve. The implement control valve was our model VPL, which has pressure compensated load-sense technology. And the customer wanted our solution to be integrated into the existing directional control valve.

Solution:

A special work section was developed that had the following spool position logic:

- **Neutral** – all flow was blocked to the downstream work sections
- **Work port C1** – all flow is diverted to a stabilizer circuit
- **Work port C2** – this work port is blocked and all the flow is routed internally to the downstream work sections

This integrated scheme allowed the operator to send an electric signal to the interlock work section and divert pump flow to an external stabilizer



Success Factors:

- Close working relationship with the customer
- Excellent application knowledge of this machine
- Ability to integrate the solution into the implement directional control valve

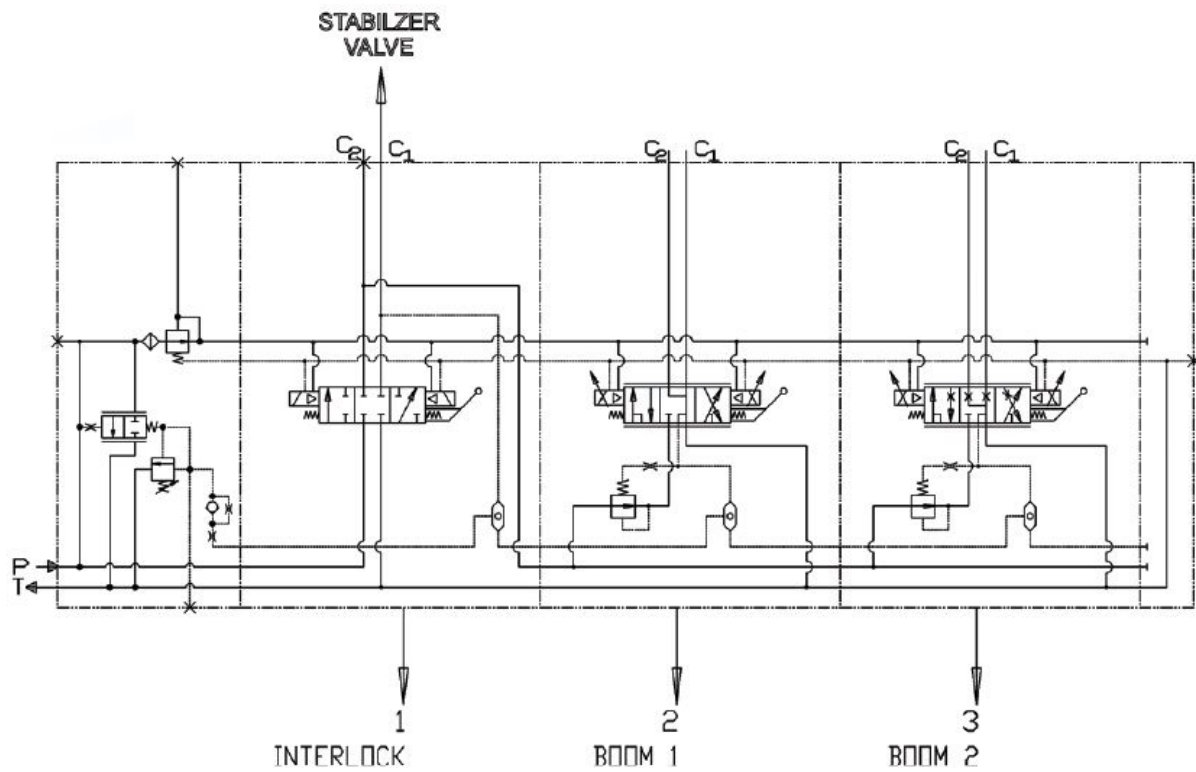
Customer Values:

- Compared to an in-line solution, the savings were approximately \$200/machine
- The integrated solution offered additional savings of \$250 on plumbing and installation labor
- Fewer part numbers vs an in-line solution saves money
- Fewer part numbers reduces inventory and improves delivery
- Smaller package size reduces weight



ENGINEERING YOUR SUCCESS.

Schematic:



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