Pump Disabling Circuit

VPL Control Valve

Challenge:

On occasion, there is a need to selectively interrupt the pump flow to the control valve. For example, some aerial work platforms must conform to ANSI Specificiation A92.2-2001 which indicates that the hydraulic circuit must have the capability of selectively disabling the pump. Also, if they are working close to high power lines, the booms must be insulated and the control valve must be operated via hydraulic-remote

Solution:

Parker developed a special "BLOCKING" inlet for their Series VPL control valve. The inlet houses a special 2-position valve to isolate pump flow from work sections. It also has a pressure-reducing valve which regulates a pilot signal to a hydraulic-remote controller. With the controller in neutral, the 2-position valve is closed and causes the piston pump to be de-stroked. Movement of the controller lever by the operator sends a signal to open the 2-position valve and allow flow to go downstream to the work sections.

Eliminate Waste

Reduced Lifetime Ownership Cost

Success Factors:

- Application expertise with aerial-work platforms
- Hydraulic valve application knowledge
- Close working relationship with the customer
- Responsive to customers' needs

Customer Values:

- Circuit integration into existing control valves saves expense of approximately $200/ machine vs an in-line solution
- Fewer part numbers in system and vendor consolidation can save up to $300
- Fewer leak points
- Can be used on machines that are operated by hydraulic remote or electric remote.

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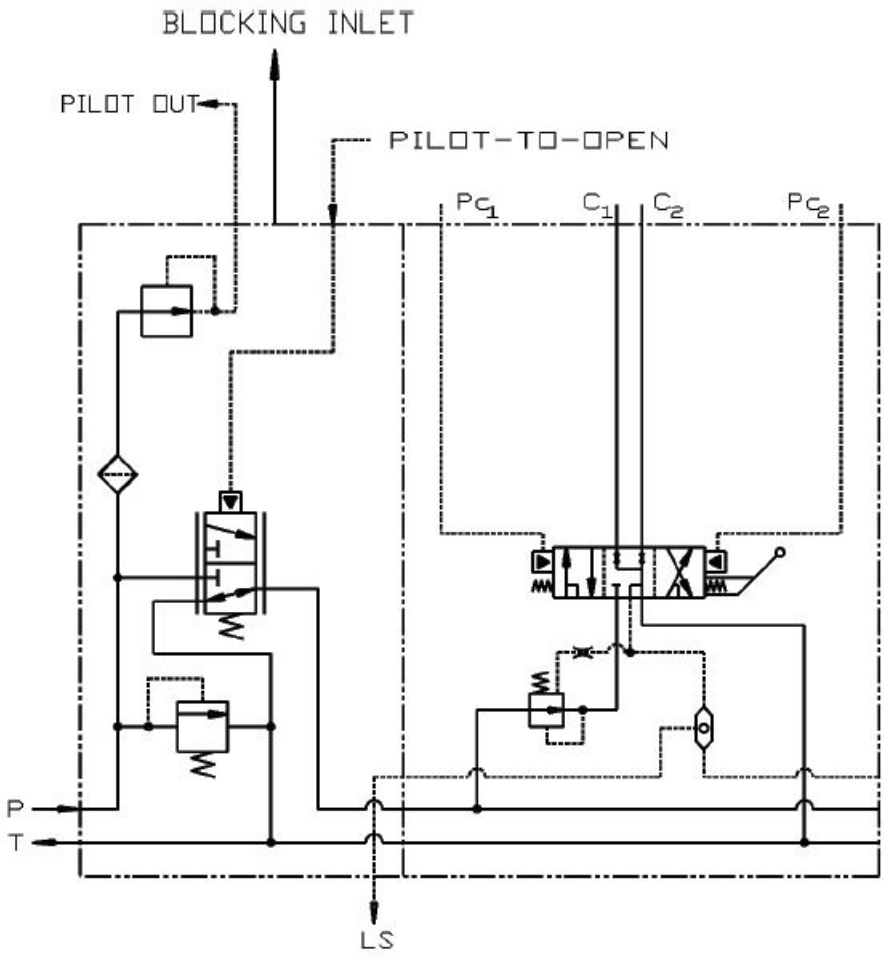
Schematic:



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