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High-level Controllability VP120

Mobile Directional Control Valve
Post Compensated and Load Sensing



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ENGINEERING YOUR SUCCESS.

More Productivity with Enhanced Control

Modular design for application-optimised performance

▼ Flow-sharing technology

The VP120 is an excellent choice when going from a conventional open centre system to a load sensing system. The VP120 uses flow-sharing technology to address the productivity problems associated with pump over-demand conditions.

▼ Steady speed control

The pressure compensated load sensing work section has its own compensator, so that speed control of multiple functions is achieved, regardless of changes in pressure or engine rpm's. The key technology integrated into the VP120 is flowsharing. In pump over-demand conditions, flow-sharing benefits machine productivity by maintaining VP120 control the speed relationship of the selected functions, but at a reduced speed; therefore, the operator can maintain the rhythm of the machine.

▼ Selectable Novice/Expert Control

A selectable novice mode slows down/damps hydraulic functions, thereby enabling an inexperienced user to use the machine at reduced capacity. Selecting expert mode gives full speed and control to the experienced user.

▼ Individual Port Pressure Limiting

Opportunity to limit the flow when preset pressure levels are achieved below service or main relief valve settings. Individual port pressure limiting can result in higher productivity and less energy loss. This can potentially give lower fuel emissions.

▼ Flexible installation

The combination inlet/outlet can be installed on both ends of the valve, facilitating the routing of pump flow to both ends of the valve.

A bypass compensator is available for use with fixed displacement pumps. Also, priority flow control is an option for steering requirements. In addition, a low pressure regeneration is an option and was designed to overcome the damaging effects of cavitation - namely premature component wear and spongy operation.

▼ Fuel Savings

Fuel savings up to 30% can be achieved vs. open center type systems due to improved system efficiency.



VP120 Post Compensated and Load Sensing Directional Control Valve

▼ VP120 Applications

VP120 is an excellent choice. It is specifically targeted for the following machines:

- Compact wheel loaders and mini excavators
- Cranes and material handling equipment
- Aerial work platforms, digger derricks and drill rigs
- Truck applications

▼ VP120 Post Compensated and Load Sensing Directional Control Valve

Valve	Pump flow l/min	Spool flow l/min	Pump pressure bar	Manual	Operation Hydraulic	Electro-hydraulic
VP120	160	120	280	•	•	•

