

Load Holding / Load Lowering Valves Type VAL

Holding Loads safely and controlled lowering

Valves of type VAL prevent moving ahead of cylinders or motors due to external loads. They block the connection to which the load pressure acts without leakage. Only when a movement is to be initiated by the inlet pressure to the opposite side of the cylinder or the motor, the valve is opened by this pressure acting as a pilot control signal, and the load is lowered in a controlled manner. In addition to the load holding and lowering function, the valves include a low-loss check valve function and a pressure-limiting function.

They are usually mounted directly on the consumer or as close as possible to it.

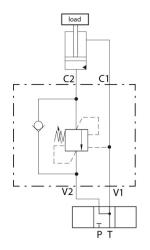


Main features

- Leakage free holding function
- Controlled lowering
- Minimum flow loss

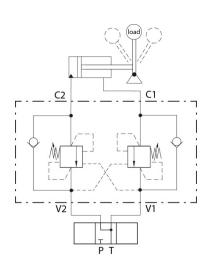
Single valve in a block: Load holding for





Double valve in a block: Load holding for both directions







- Loading cranes
- Lifting platforms
- Construction machinery
- Forrestry machinery

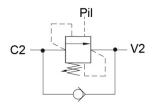
Samples

Operating pressure 350 bar VAL-SNS79 40 I/min VAL-SNS31 90 I/min VAL-SNS34 150 I/min



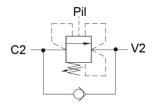


Functional Variants



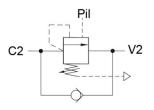
Type VAL-SNS Standard:

The spring chamber is relieved to port V2. The opening level of the pressure valve is increased by return pressure



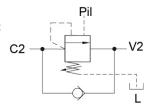
Type VAL-SCS Compensated:

The opening level of the pressure valve remains independent of the return pressure, but the opening level of the lowering brake valve increases accordingly



Type VAL-SVS Ambient pressure compensated:

The opening level of the pressure valve and of the lowering brake valve remain independent of the return pressure



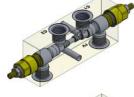
Type VAL-SDS Completely compensated:

By connecting the spring chamber with the leakage port, the opening level of the pressure valve and of the lowering brake valve remain independent of the return pressure

Block Variants



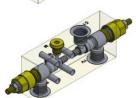
Complete Pipe installation, externally piloted



Complete Pipe installation



Complete Pipe installation, externally piloted



One flange connection for cylinder applications



One flange connection for cylinder applications



Two flange connections for cylinder applications



Two flange connections for cylinder applications

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