

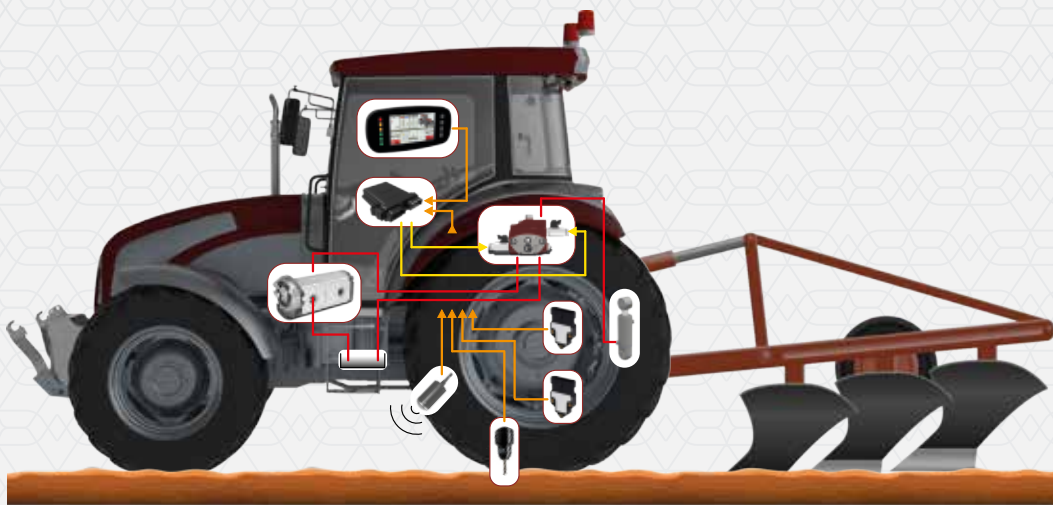


walvoil
MOTION BY PEOPLE

NEW

Hitch Control system

Direct electroportional system
for implement automatic control



Walvoil automated electrohydraulic Hitch Control system allows the control of the towed or pushed implements on the tractor, replacing manual adjustment with efficient and precise management.

All adjustments, which compensate for unexpected changes in ground conditions, are performed by the operator directly in the cabin; this operation mode offers an automated and optimized control of machine performance and guarantees a higher level of operator safety.

Walvoil Hitch Control counteracts oscillations of the attachment during the moving phase, reducing wear and making transport more comfortable for the driver.

The system therefore allows control solutions that contribute to make the machines more competitive by improving customer safety, comfort and productivity.

THE HITCH CONTROL VALVE

The core of this system is the Hitch Control Valve dedicated section inside walvoil SD8 sectional valve, with rated flow up to 90 l/min (23.8 US gpm).

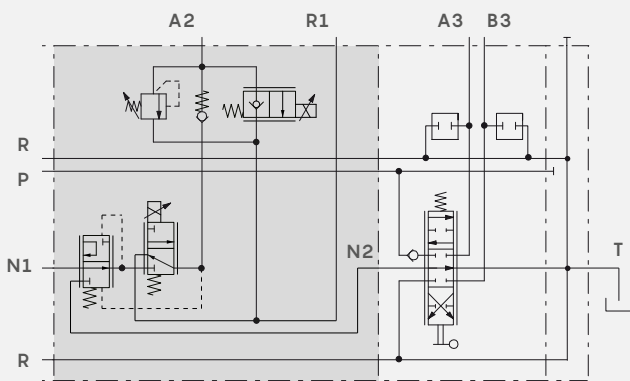
This allows to integrate the system on tractors up to 100 Hp.

The main features of this section are:

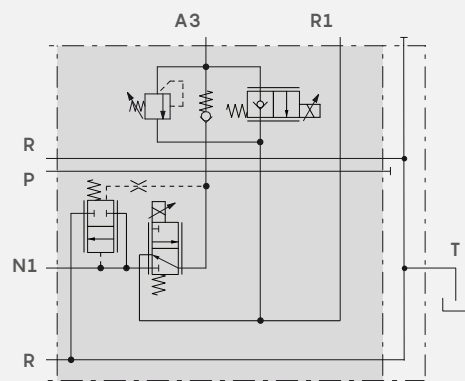
- Damping system during the transport mode.
- The attachment position is automatically setted on the working operation.
- Proportional valve for the lowering function.
- Auxiliary relief valve.
- Proportional valve with compensator for raising function.
- This section can be integrated in any position in the SD8 valve.



Hitch valve on the 1st section or intermediate sections

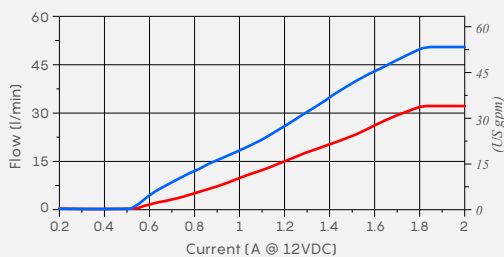


Hitch on the last section

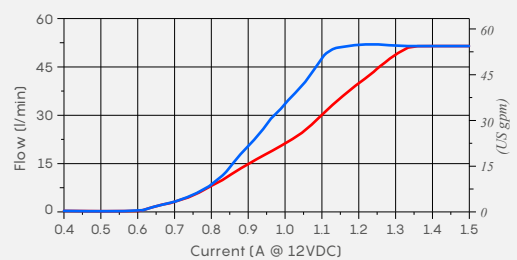


PERFORMANCE DATA

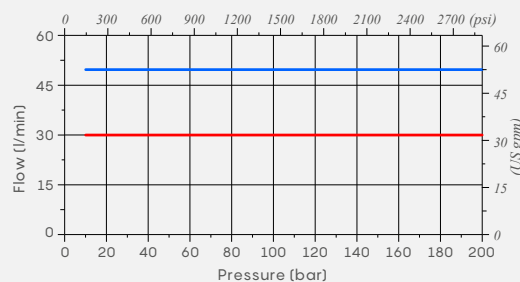
Raising function (P⇒A)



Lowering function (P⇒R1)



Raising compensation curve (P⇒A)



— 30 l/min (7.9 US gpm)
 — 50 l/min (13.2 US gpm)
 Temp = 50 °C (122 °F)

THE DEVICES

SD8 sectional valve



- Pitch 41 mm (1.61 in), compatible with quick coupling arrangement
- Dedicated cast iron section for the Hitch Control management.
- Nominal Flow: 90 l/min (23.8 US gpm)
- Max pressure: 315 bar (4600 psi).
- Kick out function with single/double effect.
- Special middle section with integrated flow regulator.
- Low Leak or Zero Leak optional configurations.
- Optimization in the outlet/inlet section.

CED400W or PVD200 Electronic Control Unit with PHC Studio Suite



- CANbus and Analog solutions.
- Microprocessor-based PWM driver designed to control 8 (CED400W) or up to 4 (PVD200) proportional outputs, with current closed loop.
- Up to 5 inputs (CED400W) and a 1x5V sensors supply output.
- IP67.
- Fully programmable through PHC Studio tool according to IEC61131-3 standard.
- PHC Studio Suite includes the latest release of PHC STUDIO and the new WSTpro (Advanced Walvoil Service Tool).
- With a single installation it's possible to manage all Walvoil development tools.

Display



- Design for agricultural and off-highway vehicles.
- TFT VWGA monitor.
- Up to 15 analog/digital inputs, 2 frequency types.
- CANbus solution.

Angle and draft sensors



- CANbus and Analog solution.
- Angle sensor with Hall Effect technology.
- Redundancy (available only for analog solution).
- IP67.
- Amp or Deutsch connector options

HITCH CONTROL SYSTEM

DIRECT ELECTROPORTIONAL SYSTEM FOR IMPLEMENT AUTOMATIC CONTROL



Walvoil offers 3 Hitch Control system levels to meet the different customers needs:

- **Base Solution**

It includes only SD8 sectional valve with integrated Hitch Control Valve section.

- **Intermediate Solution**

Closed loop complete system including, in addition to SD8 valve, the CED400W ECU fitted with PHC Studio Suite.

- **Advanced Solution**

It's the most complete proposal including the same products as the Intermediate Solution, with customizable display, angle and draft sensors.

NOTE: if the applications do not require the versatility and completeness of the CED400W Control Unit, the systems listed can be supplied with the simpler PVD200 Control Unit.

Devices	Type of solutions		
	Base	Intermediate	Advanced
SD8 Sectional valve	•	•	•
CED400W or PVD200 ECUs		•	•
Display			•
Sensors			•

