

# WEST

## Open or closed-loop pump control



An energy-efficient pressure supply is the basis for the economic operation of hydraulic systems



Electronics  
Hydraulics meets  
meets Hydraulics  
Electronics

# WEST

## Electronic open or closed loop pump control

Suitable for pumps  
of the following manufacturers:

BOSCH REXROTH

PARKER

HYDAC

HAWE

LINDE

BUCHER

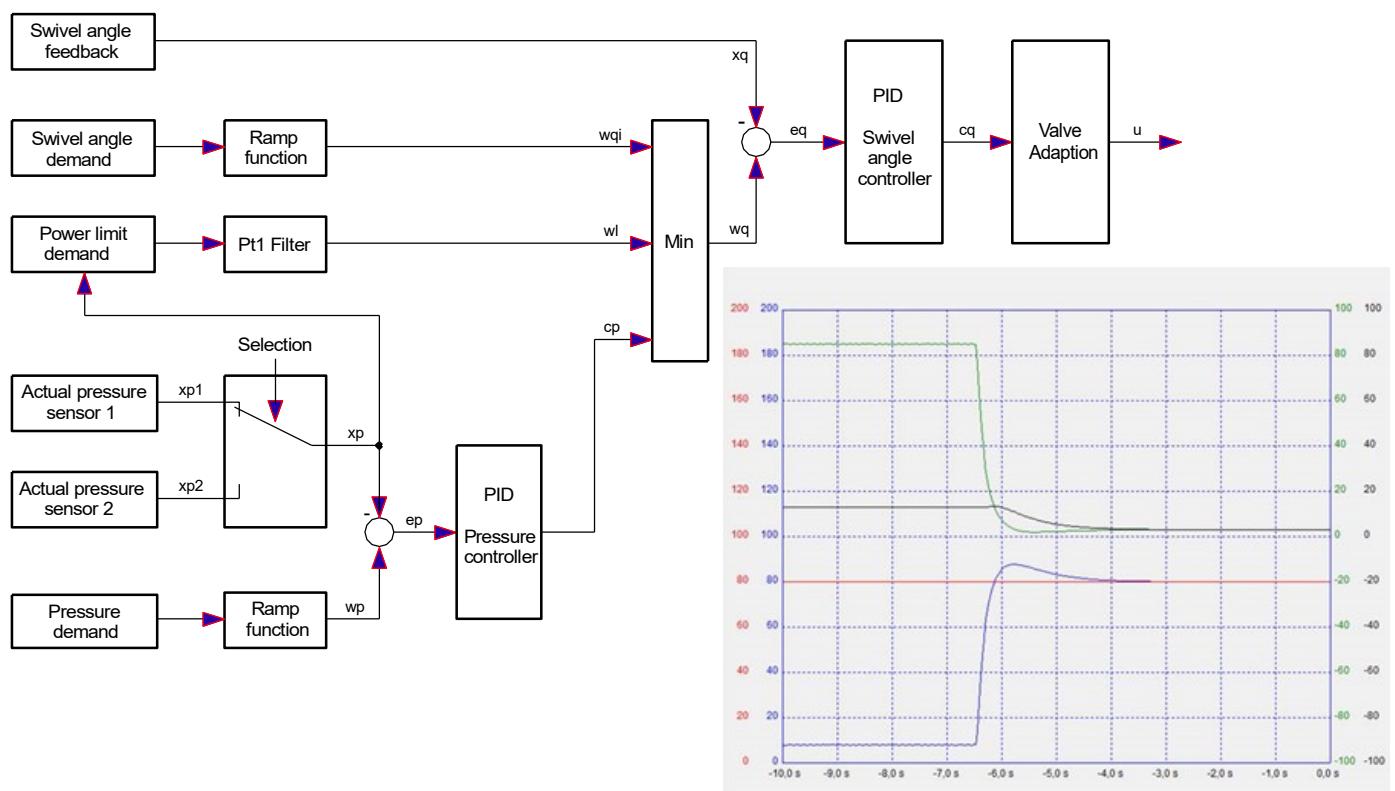
and many more

Modern variable displacement pumps differ from standard pumps in that the adjustment can be varied flexibly via electronic signals. The spectrum ranges from simple swivel angle and pressure control to combined swivel angle open loop control, pressure control and power limitation in a compact electronic module.

As part of Industry 4.0, digitization is taking place through the integration of various fieldbus interfaces (**PROFINET, EtherCAT and Ethernet/IP**). The advantage of digitization lies mainly in the area of simpler and more robust cabling, better diagnostics and shorter downtime for device replacement.

### Typical technical characteristics:

- Optionally open or closed-loop pump control
- Integrated power amplifier
- Optionally with fieldbus interface (PFN, ETC or EIP)
- Easy displacement control
- Robust pressure control
- Proven control structures



## Products

**PAM-199-P:** Power amplifier

- Simple and low-cost open loop pump control
- Displacement control with one or two solenoids valves in open or closed hydraulic circuits

**SV-200:** Servo amplifier

- Especially for pumps with servo valves and low current power consumption

**PQP-171-P:** Displacement controller with integrated power amplifier

- Universal for valves with one or two solenoids

**MDR-137-P:** Pressure controller with integrated power amplifier

- Switchable between open or closed-loop pressure control
- Easy to configure
- Optimized for pump control with pressure valves

**PQP-176-P:** Pump control that leaves nothing to be desired

- Open or closed-loop swivel angle control, pressure control and power control, individually combinable
- Integrated power amplifier or output for control of valves with OBE
- Alternatively with fieldbus interface: PROFINET, EtherCAT and Ethernet/IP (in preparation)
- Optionally also for the closed hydraulic circuit



PAM-199 / PQP-171 / MDR-137  
a uniform concept

### Your advantages:

- Uniform product family
- Compact housing
- Inexpensive Snap-On solution
- Pioneering due to the integration of different fieldbuses
- Universally usable



PQP-176-P, analog interface



PQP-176-P-PFN, PROFINET controlled





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We offer an extensive product line for all typical applications, from simple power amplifiers to p/Q regulated press control systems, up to multi-axis closed-loop synchronization control systems. Custom developments for the clients are one of the strengths and many products for our well-known hydraulic manufacturers are being equipped with "brand labels". Premium quality, extremely short delivery times, flexibility, as well as fast assistance in case of emergencies – without the usual red tape – is what keeps the customers very satisfied.

Besides electronic products, W.E.St. Elektronik GmbH also offers competent support in the application of proportional control valves.

#### **Application areas:**

The sophisticated design does not only address one specific application area but rather focuses on the universal use. Although, emphasis is put on industrial applications, however, the power amplifiers can be found in mobile as well as in marine applications (with GL approval).

#### **Our products:**

**Analog and digital power amplifiers** universally adaptable, for the control of various proportional control valves. The completely digital modules distinguish themselves through their high flexibility and fault diagnosis.

**Positioning modules** which are optimized for fast moving cycles and highly dynamic control systems.

**Pressure controlling** with pressure valves, control valves and variable displacement pumps with simple and robust control behavior.

**Synchronization modules** for synchronized control systems in bypass or as a synchronized position control system with integrated pressure limitation control (optional use).

**Pump control** systems for various displacement and servo pumps.

**Fieldbus connections** for the most of our control modules. The products support CAN Bus, Profibus, PROFINET, EtherCAT and various Ethernet versions.

#### **Our additional services:**

**Development** of custom electronics according to your specification

**Planning and production** of electronics

**Training** for our standard products as well as training for special subjects

Pictures: Ulrich Walter, PHOTOMotics



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