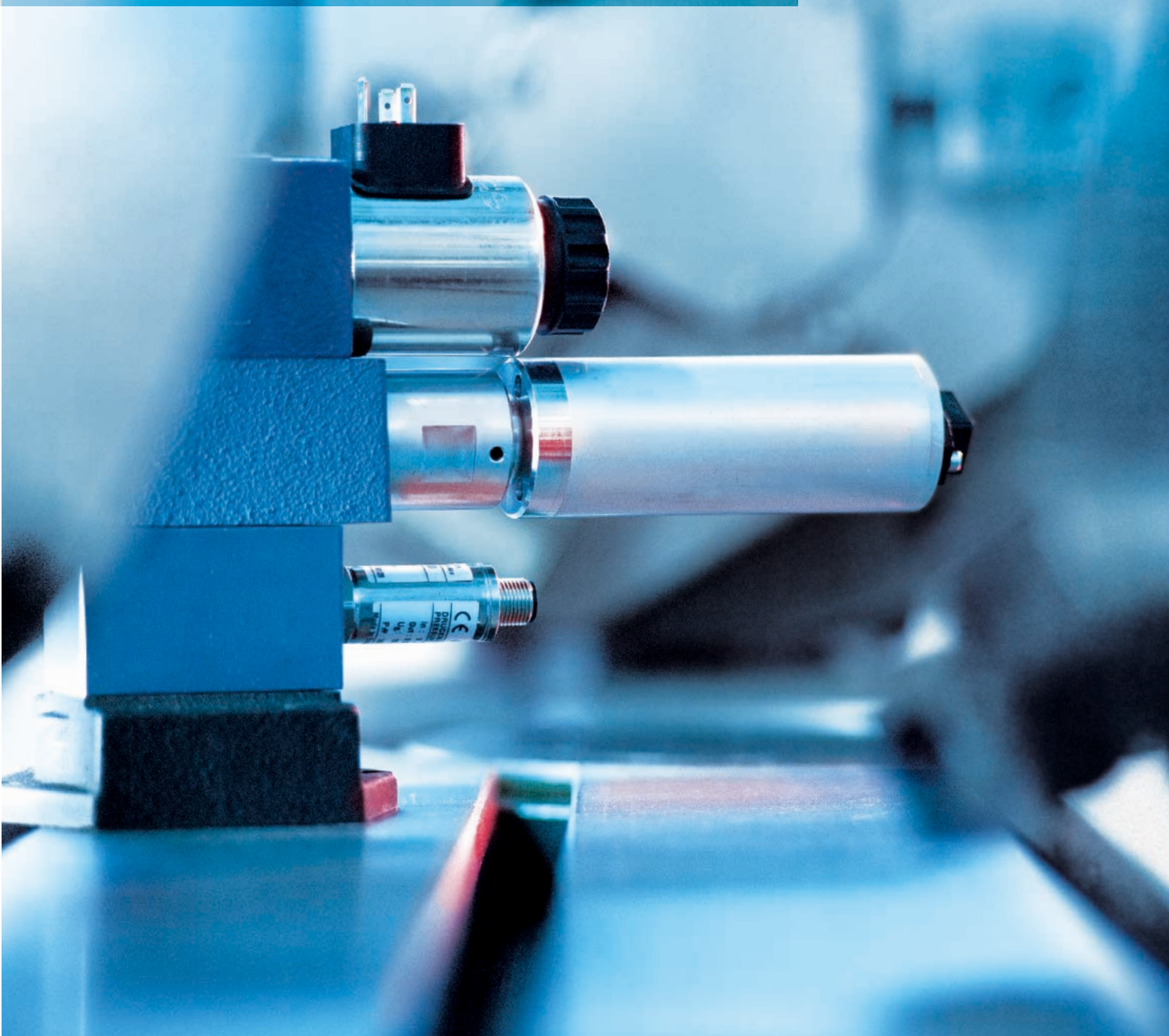


Analog Pressure Adjustment System with Pressure Monitoring



For clamping functions in machine tools





Everything under Control with the Pressure Adjustment System for Clamping Functions in Machine Tools

Application example:

The clamping pressure on a workpiece in the lathes can change even during the machining process. Therefore, a system is required that can adjust the clamping pressure and check it using a sensor.

Suitable for:

- Clamping pressure adjustment via machine control
- Clamping processes with multiple pressure adjustment cycles
- Pressure adjustment during machining process
- Pressure adjustment while moving the clamping component
- Maintaining clamping pressure in emergencies

Benefits:

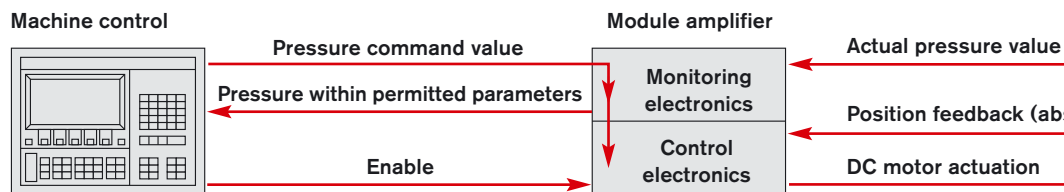
- Flexible clamping pressure adjustment
- Reduced cycle times
- Shorter changeover time
- Increased safety

Features

- Analog command value specified using current or voltage
- Automatically maintains clamping pressure if electrical power supply fails (self-locking actuator)
- Integrated pressure switch function with simultaneous switch point adjustments due to clamping pressure adjustment
- Adjustable monitoring limits
- Enable function as safeguard against unintentional adjustment
- Actuator with absolute positioning (no reference adjustment necessary)
- No energy consumption in adjusted state
- Internal monitoring and diagnosis functions

Function

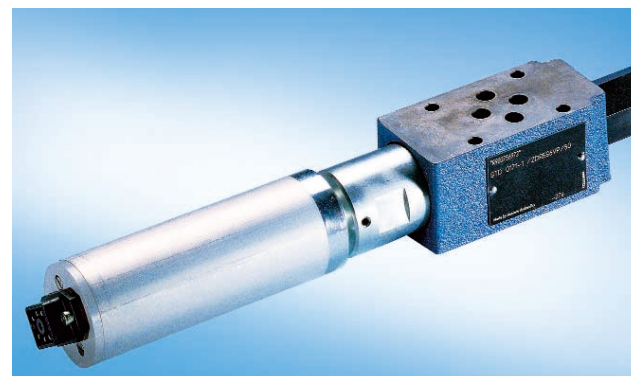
- Enable on
- Electrical command value specified from the computer to the monitoring and control electronics
- Adjustment of the pressure-reduction valve by the DC motor actuator due to the command value
- Simultaneous adjustment of the switching point
- Enable off
- Continuously monitoring of the pressure within the specified accuracy window and acknowledgement to the machine control

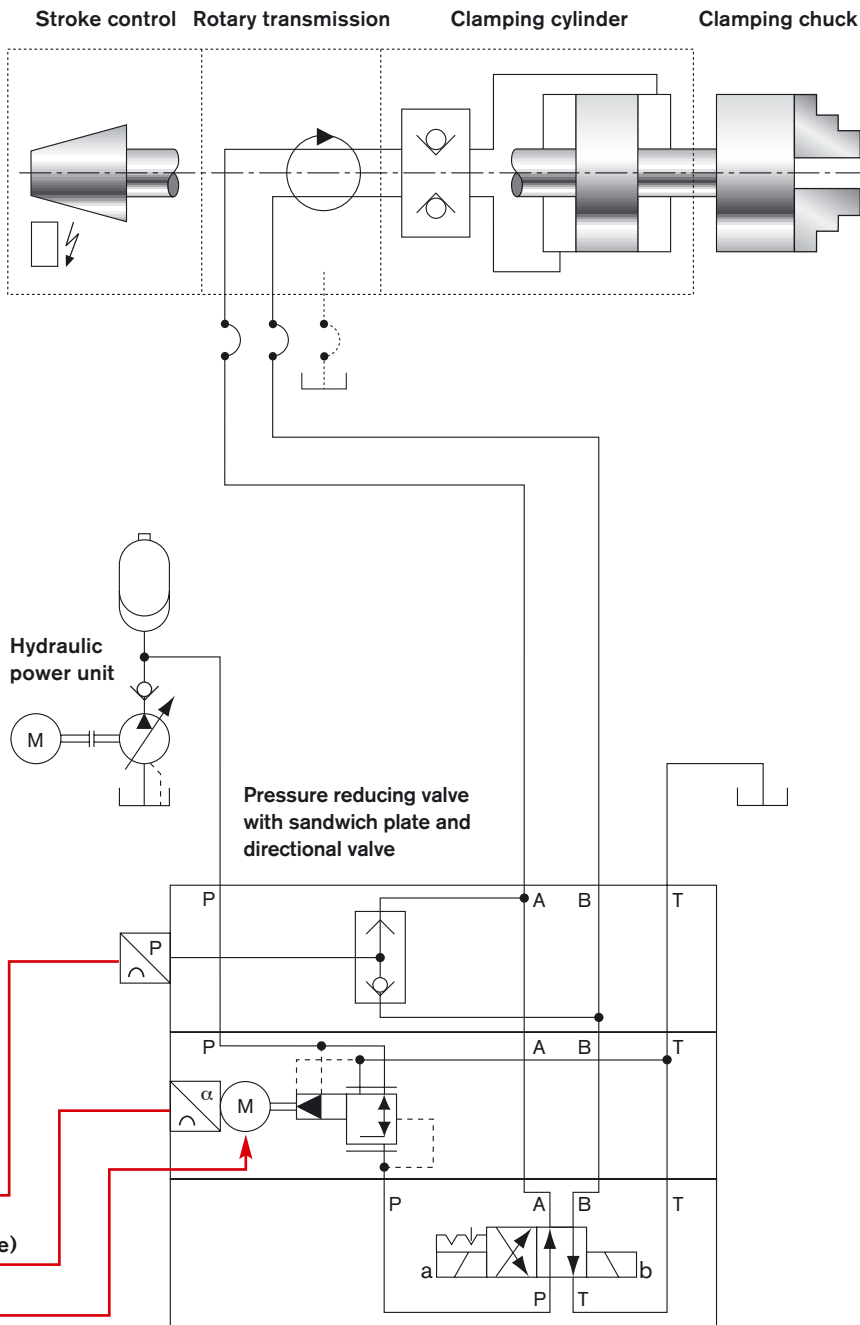


Module amplifier with monitoring and control electronics



3-way proportional pressure reducing valve with motor adjustment and pressure sensor





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Sandwich plate with shuttle valve and pressure sensor



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