

GF46.50-P-5140GZ	SPS [PML] solenoid valve, component description	13.12.05
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MODEL 164

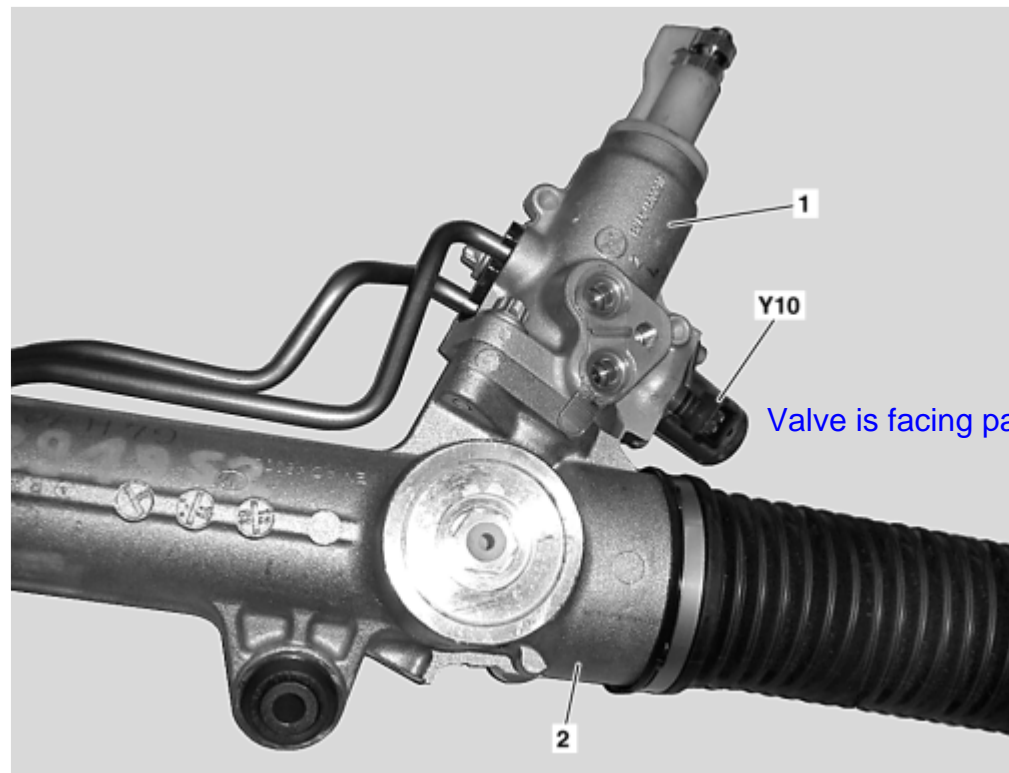
**Shown on model designation 164.1**

- 1 Rotary valve and control bush housing
- 2 Rack-and-pinion steering

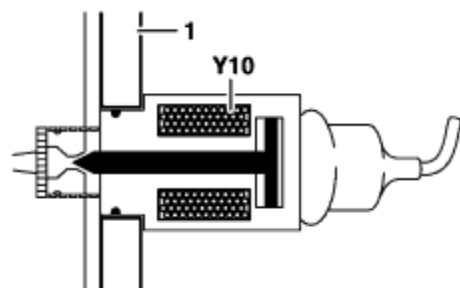
**Y10 SPS [PML] solenoid valve**

The SPS [PML] solenoid valve serves the control of the steering wheel torque in the vehicle speed range of  $v = 0$  km/h to  $v = 100$  km/h. **=63 MPH**

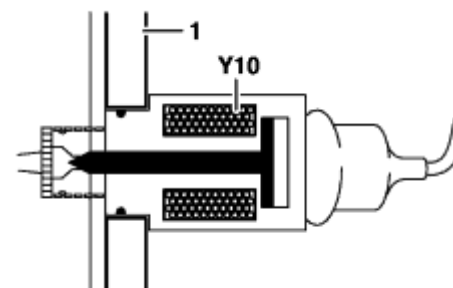
The SPS [PML] solenoid valve is a flow-controlled proportioning valve.



P46.50-2032-06



**SPS [PML] solenoid valve open**



**SPS [PML] solenoid valve closed**

P46.50-0203-01

P46.50-0202-01

**Function**

The electronics for the actuation of the SPS [PML] solenoid valve are integrated in the ESP control unit (N47-5). The SPS [PML] solenoid valve is actuated in a pulsed manner. As the vehicle speed increases, the current flow reduces and the SPS [PML] solenoid valve continuously opens the control valve as per a characteristic defined in the ESP control unit.

This regulates the oil flow and thus the torque to be applied to the steering wheel. If the SPS [PML] solenoid valve is actuated with the maximum current ( $v = 0$  km/h), the control valve is closed. As a result there is no oil flow and the smallest steering wheel torque to be used is adjusted (parking situation).