

# Load Control Valve Motion 1

Controlled and oscillation-free lowering of the load

## Description

Load control valves prevent moving ahead of cylinders or motors due to external loads. The valves of the type Motion are suitable for applications that are subject to oscillation such as a motor, winches and cylinder applications. They guarantee a leak-free locking of the consumer. The opening is controlled by the opposing side pressure and not affected by the load pressure. The configuration of the different pilot sections is dependent on application requirement.



*A new damping section - for oscillation applications*

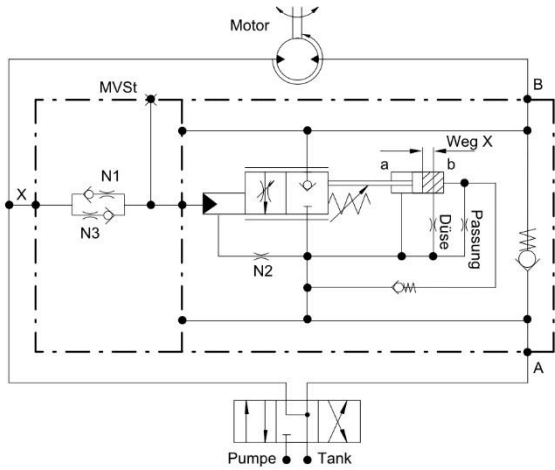


## Characteristics

- Suitable for cylinder- motors and winch applications
- Optimum damping behaviour
- Oscillation-free lowering of the load
- Very sensitive characteristics, especially at low speeds and high loads
- Load pressure compensated
- Direct mounted on the cylinder
- Available with 6 different pilot sections
- Port sizes  $\frac{3}{4}$ ", 1" and 1  $\frac{1}{4}$ "

# Control variants

## Type N

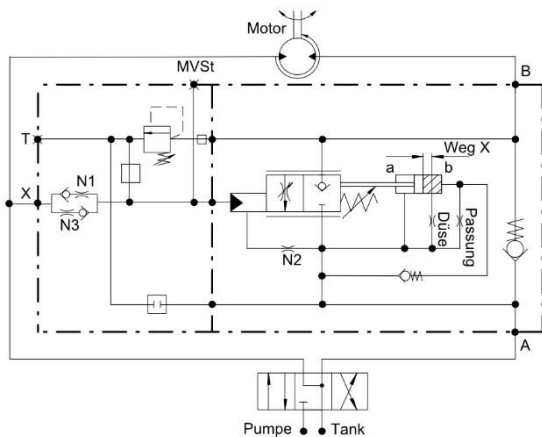


## Pilot section Type N

- Suitable for low-oscillations applications
- Damping only works in opening direction
- Different nozzle configurations possible
- The nozzle configurations can be easily replaced



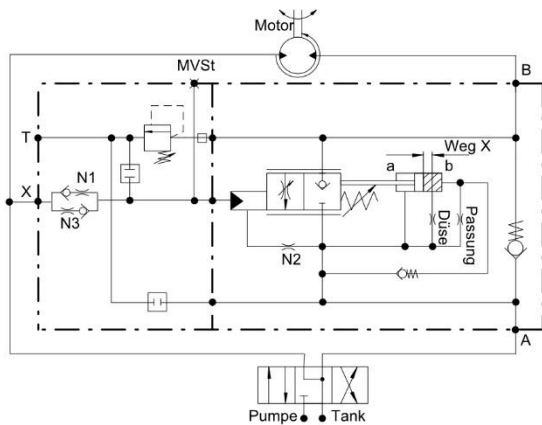
## Type M



## Pilot section Type PS

- With the same properties as the type N
- Additional pressure relief valve, which protects the consumer against too high pressures
- The pressure relief valve opens the main spool

### Type T

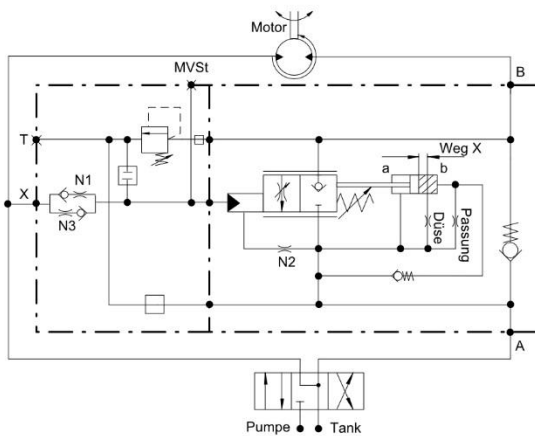


### Pilot section Type PT

- With the same properties as the type N
- Additional pilot-pressure relief valve, which protects the consumer against too high pressures
- The pilot-pressure relief valve opens to the tank



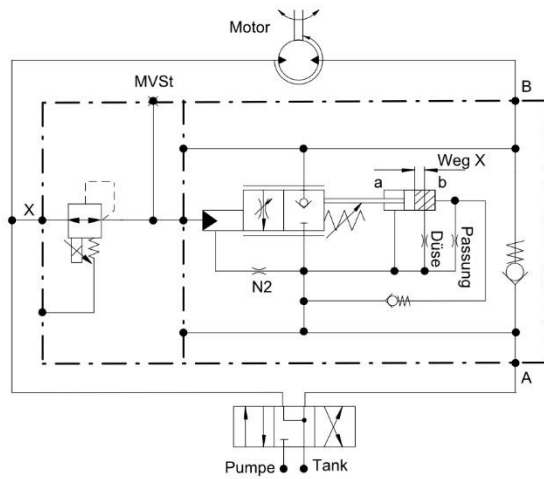
### Type R



### Pilot section Type PO

- With the same properties as the type N
- Additional pilot-pressure relief valve, which protects the consumer against too high pressures
- The pilot-pressure relief valve opens to the return line

### Type E

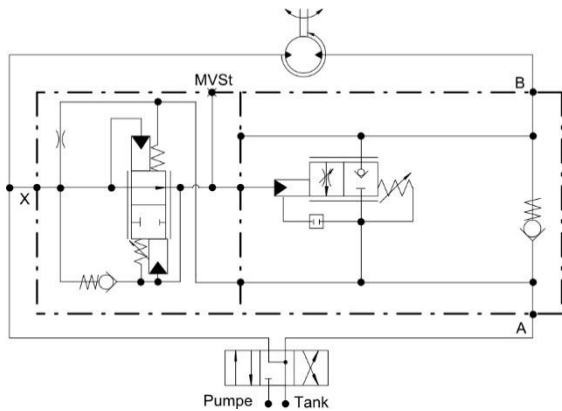


### Pilot section Type E

- Electrical proportional section
- Suitable for complex applications with electronic control
- Sensitive control possible



### Type D



### Pilot section Type D

- Suitable for high-oscillation applications
- Guarantees ideal machine operation