

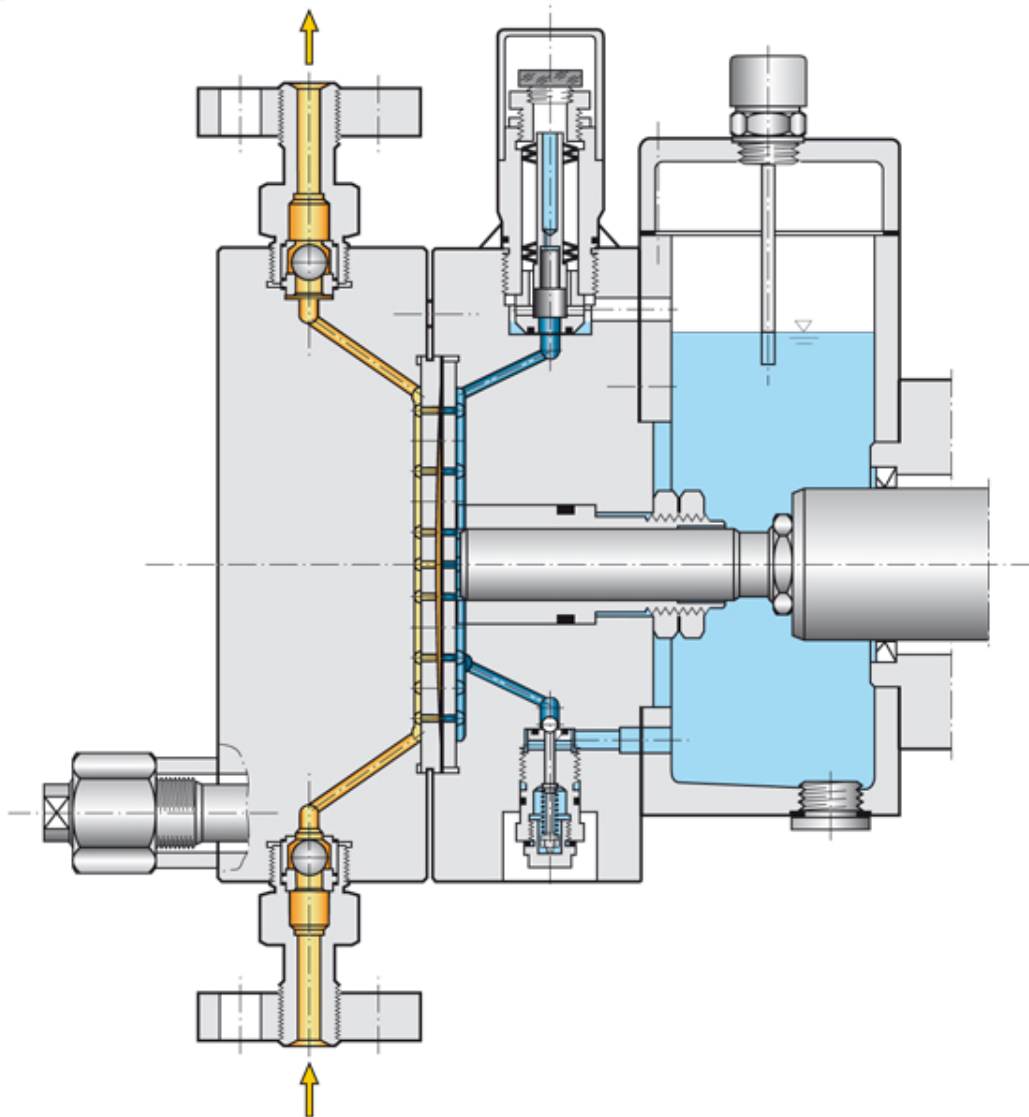
LEWA ecoflow

Innovative metering pumps

- Function of diaphragm pump heads in detail



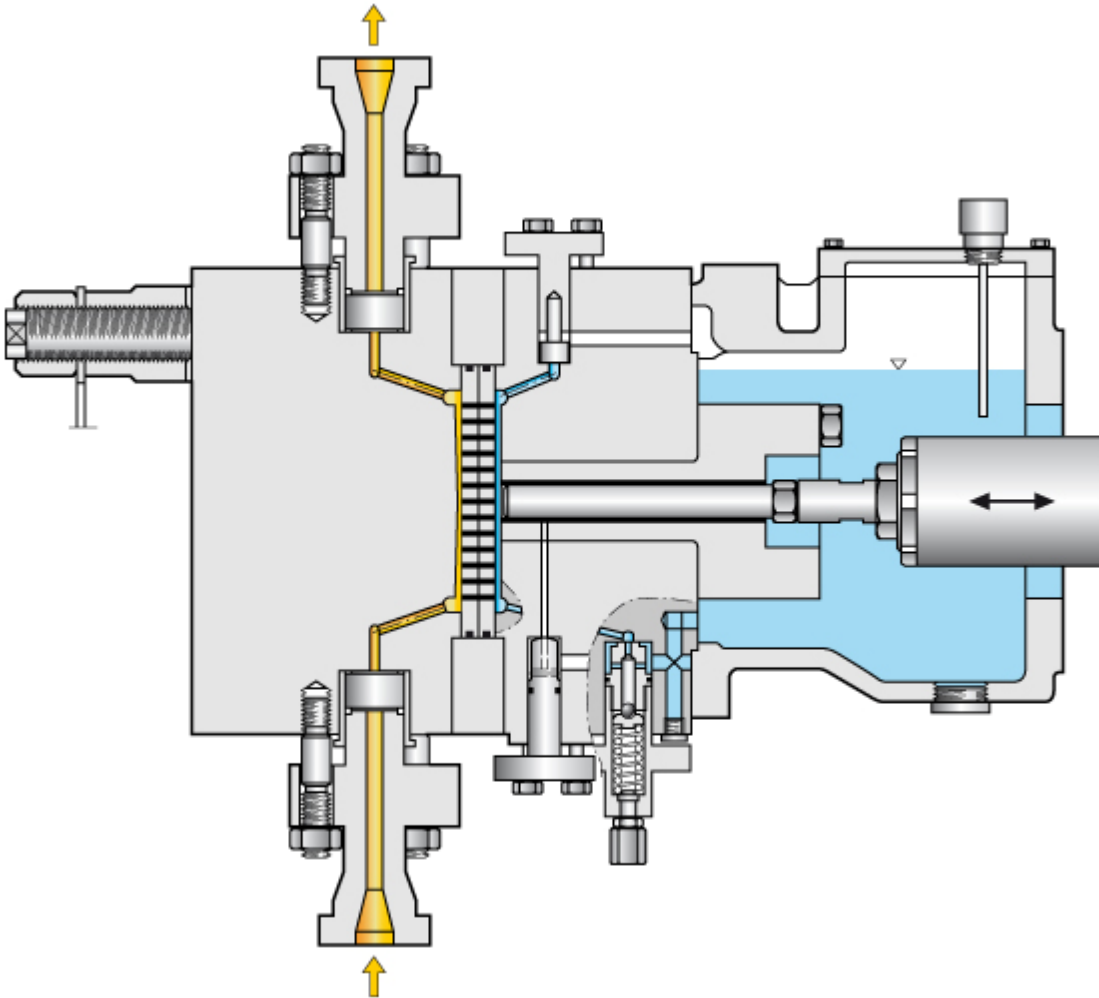
Series M200



- Pressure up to 1200 bar
- Temperature up to 200°C
- Hydraulically controlled metal diaphragm

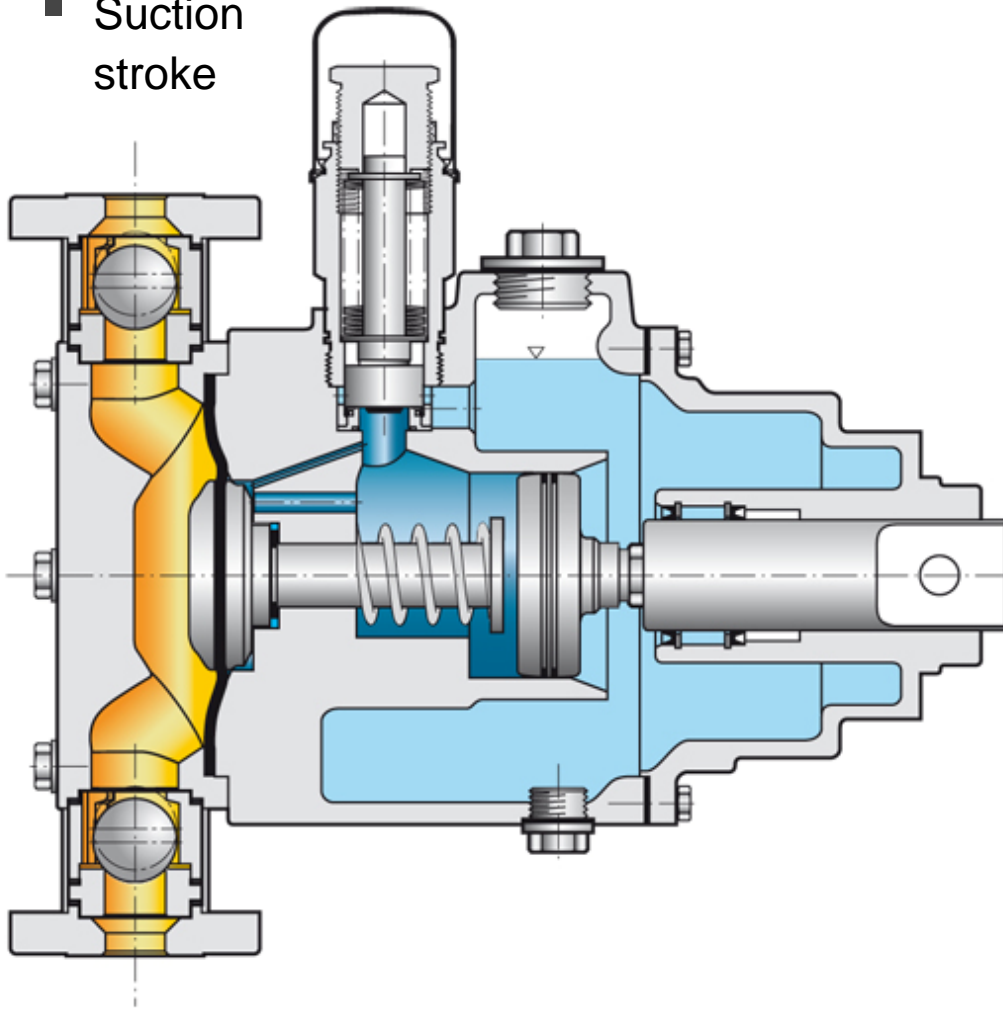
Series M400

- Pressure up to 1200 bar
- Temperature up to 200°C
- Position- and hydraulically controlled metal diaphragms

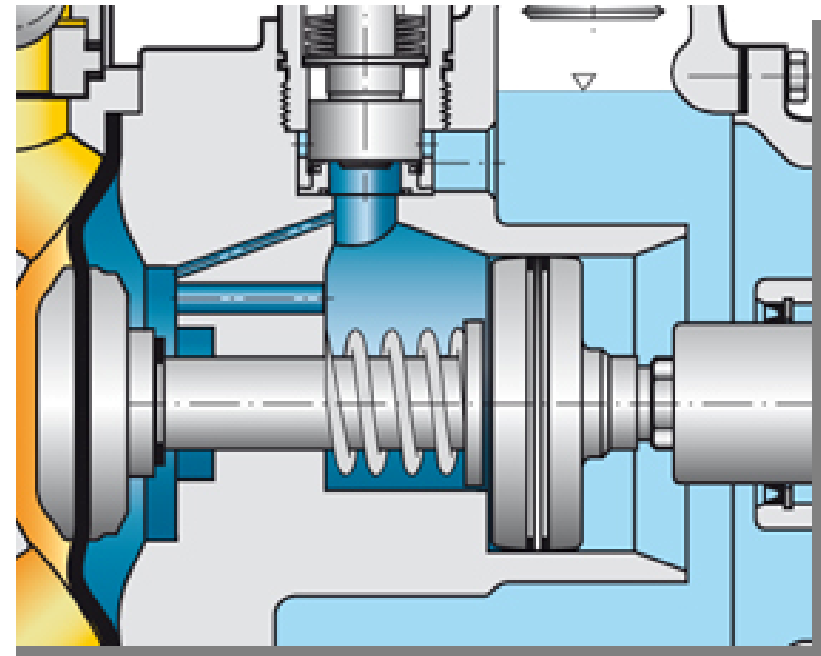


Series M900

- Suction stroke

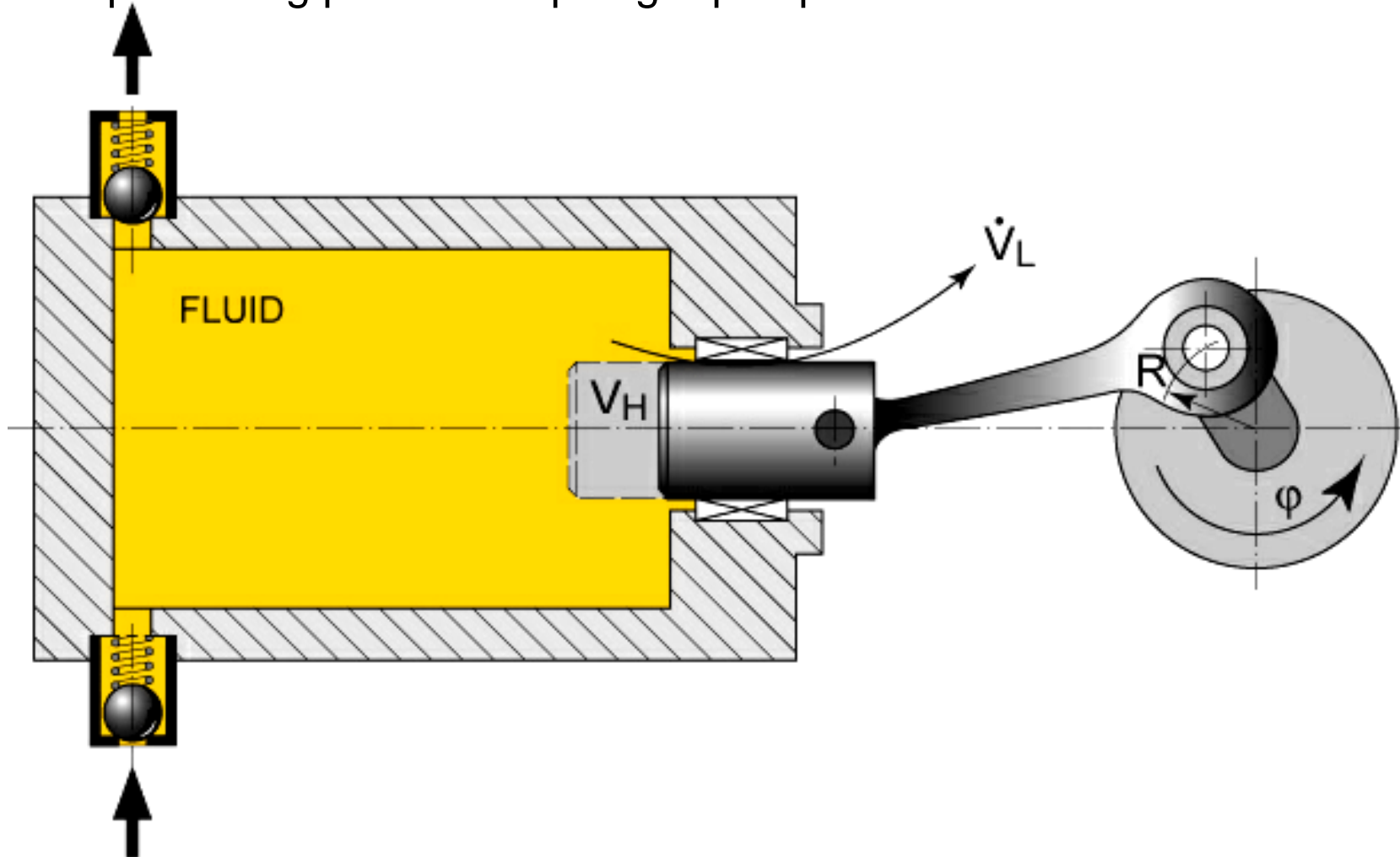


- Pressure up to 400 bar
- Temperature up to 150°C
- DPS (Diaphragm Protection System)
- Discharge stroke



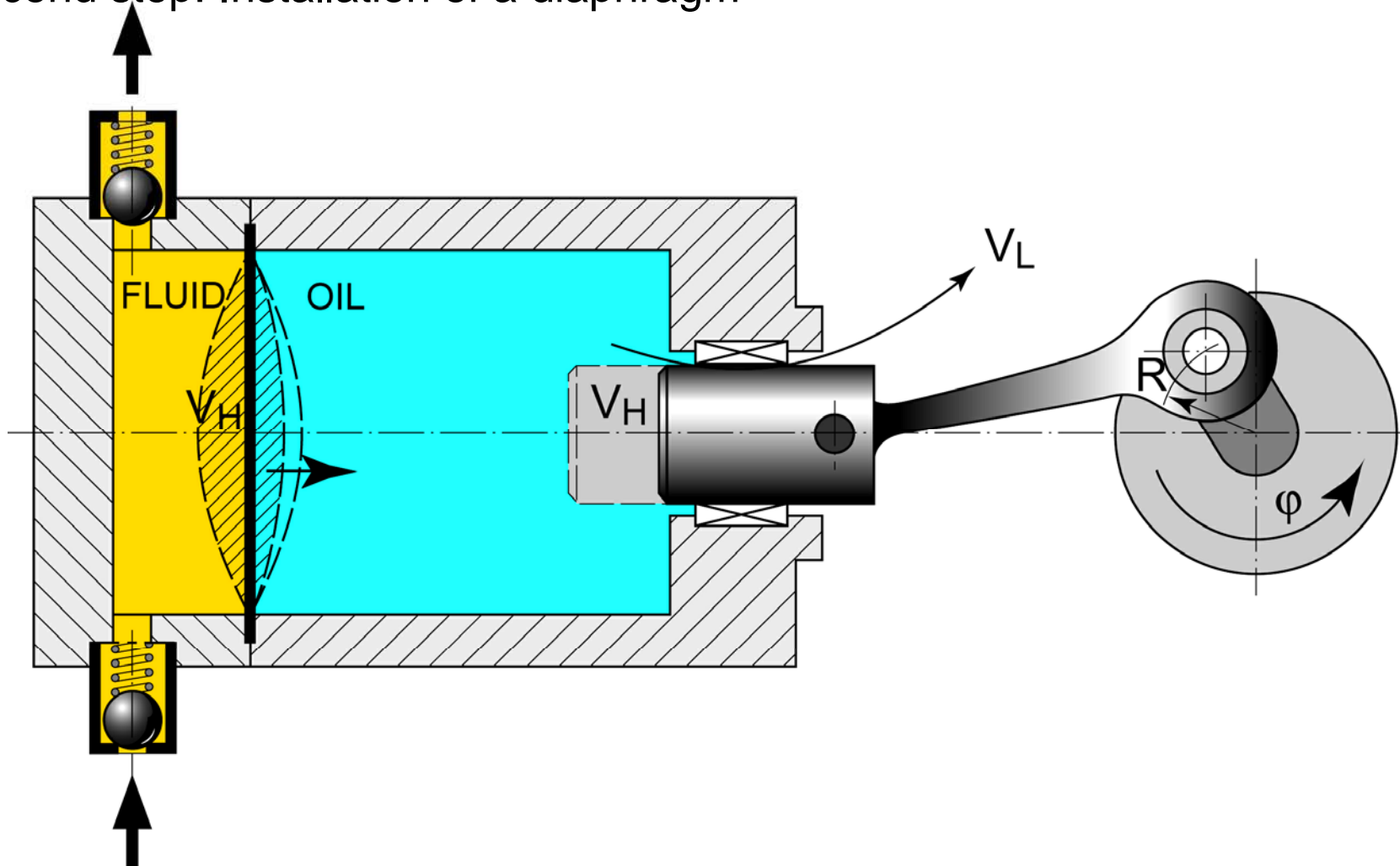
Function of the diaphragm pumps

- First step: Starting point is the plunger pump



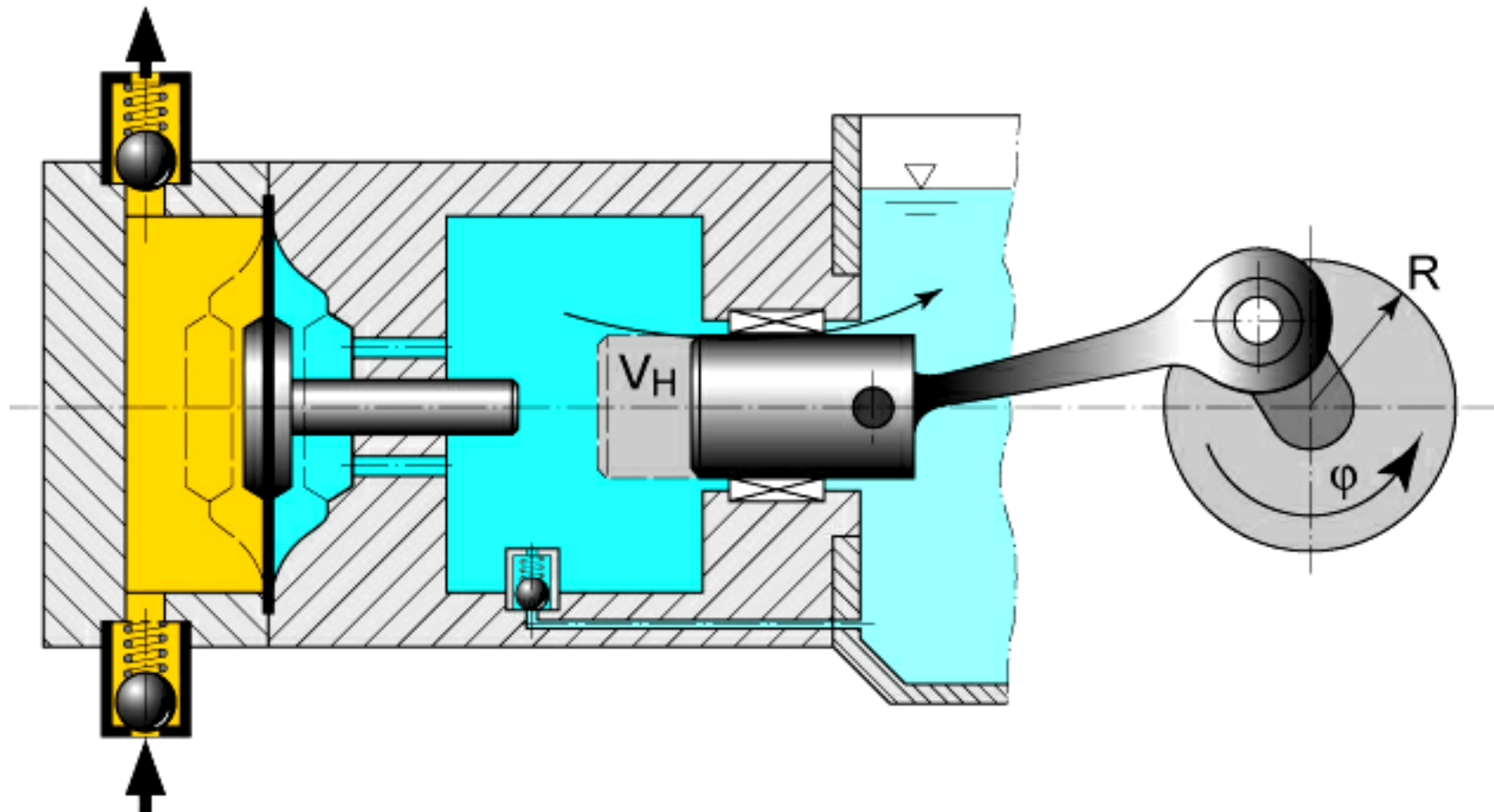
Function of the diaphragm pumps

- Second step: Installation of a diaphragm



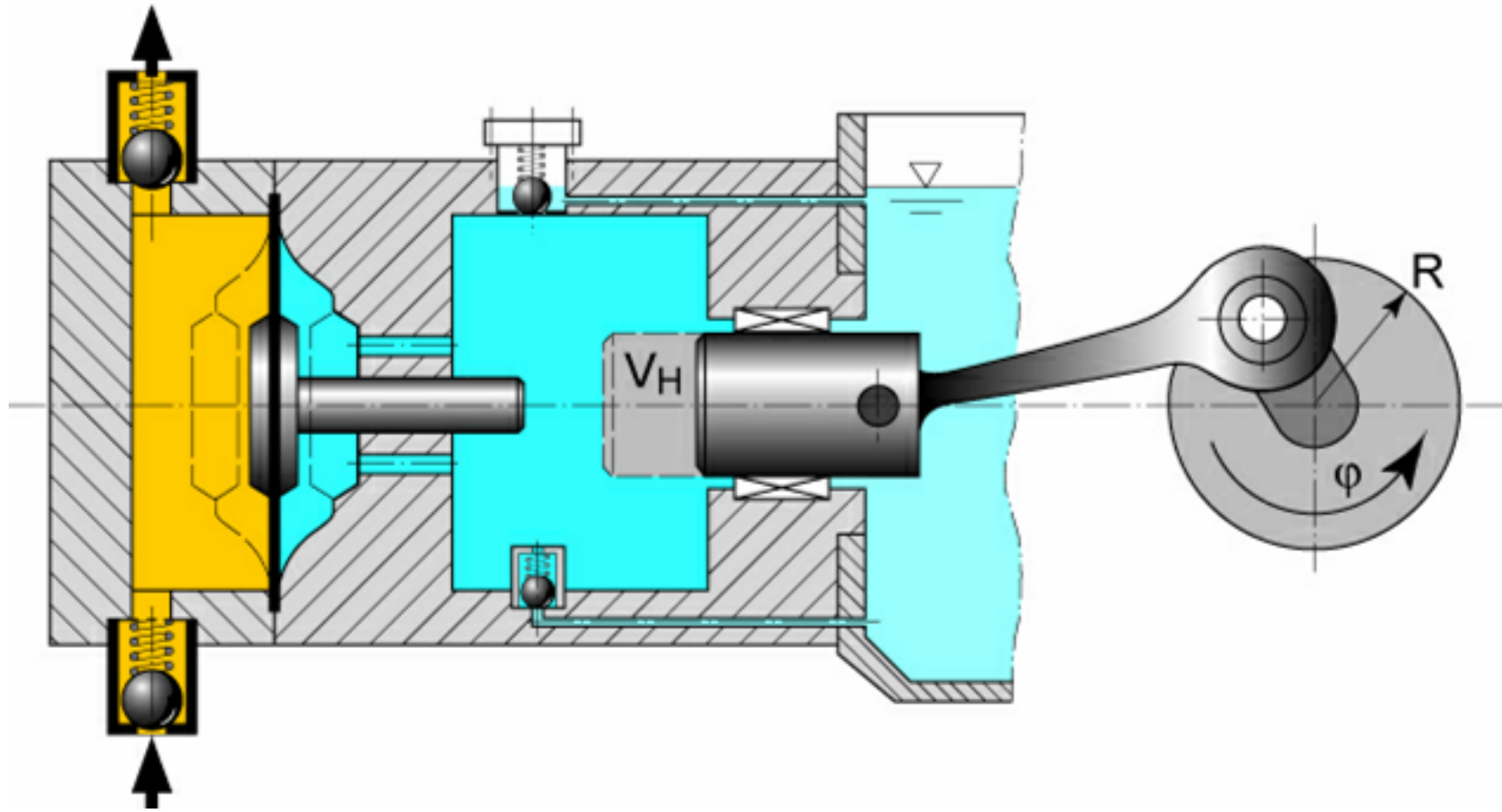
Function of the diaphragm pumps

- Third step: Diaphragm guide and support, replenishment valve



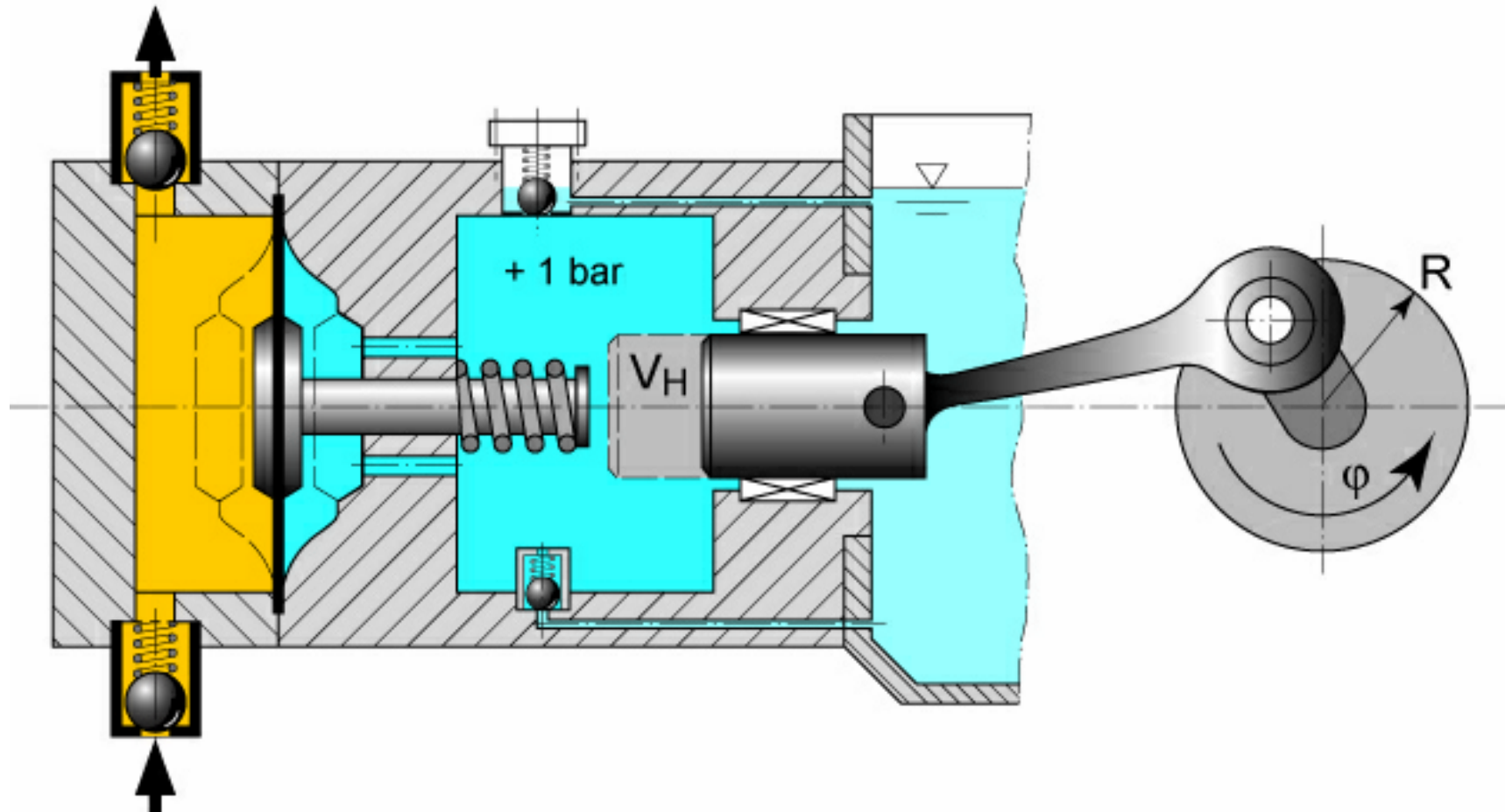
Function of the diaphragm pumps

- Fourth step: Pressure relief valve



Function of the diaphragm pumps

- Fifth step: Installation of a spring



DPS: Diaphragm Protection System

- **Diaphragm Protection System**
 - **New** Diaphragm control
 - PTFE- sandwich diaphragm **with** Diaphragm condition monitor
- extraordinary safe pump head
- trouble-free start-up
- **New diaphragm** with extended service life
- Diaphragm movement is **stabilised** by overpressure in the hydraulic fluid
- No gas bubbles during suction stroke
- **Higher suction lift capability**, comparable to plunger pump heads
- **Higher stroke frequencies** are possible (theor. 288min^{-1})

