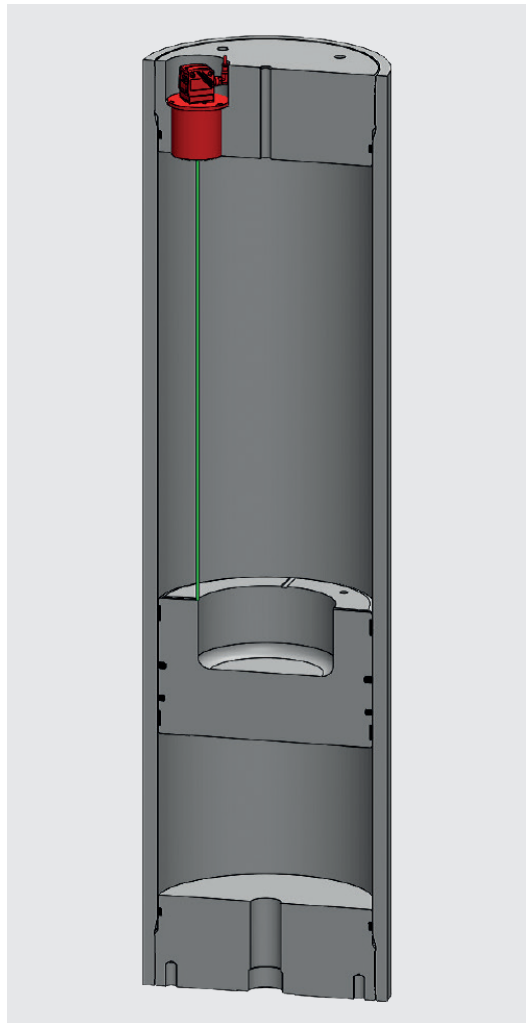
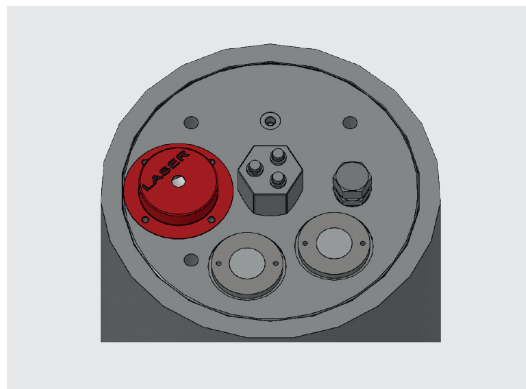


**Piston Position Indicators**  
SK with Laser measurement system

Example: SK210-80 litres



Piston accumulator with supplementary equipment: Laser Measurement system

**DESCRIPTION**

To monitor the piston position in a piston accumulator continuously, HYDAC piston accumulators can be equipped with a laser measurement system.

The measurement system is integrated in the gas side cover of the piston accumulator. Via pressure tight sight glass, the laser is visually connected to the gas side chamber and monitors the piston position of the accumulator.

**FUNCTION**

The measuring principle determines continuously the position of the piston and the piston speed and is based on elapsed time measurement. The measurement system sends out the laser beam, which is reflected from the piston. The time between transmission and receiving of the laser beam (elapsed time) is measured. The piston position will be determined and will be transformed into an electrical output signal. The signal can be evaluated with different measurement and control devices (e.g. from HYDAC).

**ADVANTAGES / CUSTOMER BENEFITS**

Continuous monitoring of

- Piston position
- Piston velocity

Machine availability

- Optimisation of productivity
- Reduction of maintenance