

p₀-guard EDS 3400

Monitoring the accumulator pre-charge pressure (p₀)



Recommended installation with a bladder accumulator (at the vent screw of the oil valve)

FURTHER RECOMMENDATIONS OF INSTALLATION

The p₀-guard should be installed preferably close to the accumulator. As described in the following, we recommend different installation options:

- **Control block / Collective strip**
To mount the p₀-guard on an accumulator station it is recommended to select a central place, e.g. at the control block on the system side.
- **Safety and Shut-off block SAF**
The SAF is connected to the accumulator. So that the p₀-guard can be directly screwed into the connection M2 of the SAF.



DESCRIPTION

The compressibility of a gas is utilised in a hydraulic accumulator for storing fluids and with that, for supplying energy in hydraulic systems. This will be achieved with charging a pre-charge pressure (p₀) on the gas side of the accumulator. Thus, a precise pre-charge pressure is essential for the efficient work of the accumulator

Depending on its mode of operation, the pre-charge pressure (p₀) can drop. To detect this circumstance in a comfortable manner, it is recommended to monitor the pre-charge pressure (p₀) of the accumulator.

Therefore, HYDAC offers a cost-effective solution as accessory to your hydraulic accumulator and/or accumulator station:
→ the p₀-guard: EDS3400

FUNCTIONS OF THE p₀-GUARD

- Fluid side pressure control of the accumulator
- Detection and indication of the pre-charge pressure drop
- Controlling the accumulator charging function

APPLICATION

- Bladder -, piston -, diaphragm - and metal bellows accumulators
 - Accumulators as back-up version
 - Accumulator stations
- Max. operating pressures up to 690 bar

ADVANTAGES

- Easy to install on the fluid side of the accumulator
- As retrofit on available systems without additional costs for system modifications
- Communication via IO-Link-interface (in accordance to specification V1.1 and V1.0)
- Pressure units in: bar, PSI, MPa