

BIS – Bladder Integrity System Signal when fluid inside of the accumulator bladder



HYDAC has developed a new product, the Bladder Integrity System, or BIS for short. It consists of:

- BIS bladder
- BIS adapter
- Electronic component BIS 1000

The BIS detects fluid which has penetrated the bladder and transmits a signal. A split is therefore detected in the bladder.

In addition, the temperature and pressure can be monitored electronically (current loop/HART). The BIS is available together with a bladder accumulator as initial equipment.

A retrofit version is the BIS-bladder and is also available.

Advantages

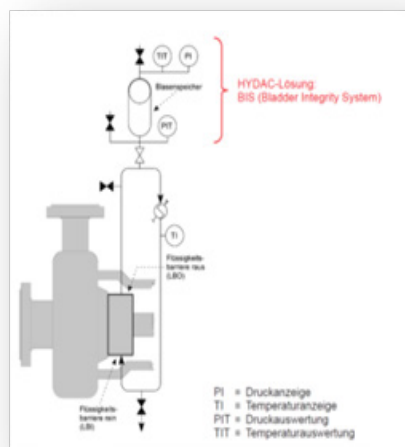
- Identifies defective bladder during operation
 - Planned repair/maintenance intervals
 - Reduction in downtimes
- Advantages of integrated pressure and temperature measurement:
 - Pressure and temperature monitoring of the accumulator during operation
 - Accurate adjustment of p0 and simultaneous temperature indication.

The application fields of the BIS are various, e.g. on hydraulic accumulators with emergency function such as mechanical seals, davits, unmanned plants like remote monitored oil fields, etcetera ...

A specific example to suit a bladder accumulator with Bladder Integrity System BIS is the American rule API 682 (Shaft sealing systems for centrifugal and rotary pumps).

It describes in Plan 53B of the 4th Edition of 01. May 2014, the setup to check the bladder integrity.

Please get further information directly at HYDAC.



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