

PRESS INFORMATON

Trust is fine, supervision is better

In case process pumps are installed in a demanding process or in an area, which is critical for the overall production procedure, the responsible plant engineer barely has alternatives: Either he invests in a stand-by pump ("B-pump") or he assures an effective monitoring of the machine. For reasons of economy the industry tends to monitoring rather.

It is obvious that parts moved mechanically gradually wear. Therefore the task is: to track wear early enough. For the development of the Condition Monitoring System for reciprocating positive displacement diaphragm pumps LEWA applied this specification:

- permanent, automated monitoring of pump head components (the most probable source of failure), which are decisive for the function
- use in hazardous areas possible also
- pre-alarm / main alarm
- support for failure diagnosis
- easy operation

Moreover an integration into existing systems should be possible. Last, but not least: An attractive price also for retro-fitting.

LEWA CMS, continuously further developed, recognises leakages at the suction and discharge valves by means of impact sound evaluation (a very sensitive system due to timely assignment of the impact sound signal to the suction- and discharge stroke). Advantage: Leakages starting from 1% can be recognised reliably. By the combined evaluation of impact sound and pressure signals 90% of the possible failures are monitored!

With the pump monitoring system LEWA CMS it is possible to carry out condition oriented repair and maintenance at diaphragm pumps. Shut-downs can be scheduled and so the plant availability can be increased. Failures can be recognised at an early stage and the maintenance personnel is supported by precise failure signals for the diagnosis.

What the operator should take into account when considering the costs:

Such a reliable monitoring extends the service intervals – so the system "pays off" within a rather short period of time.

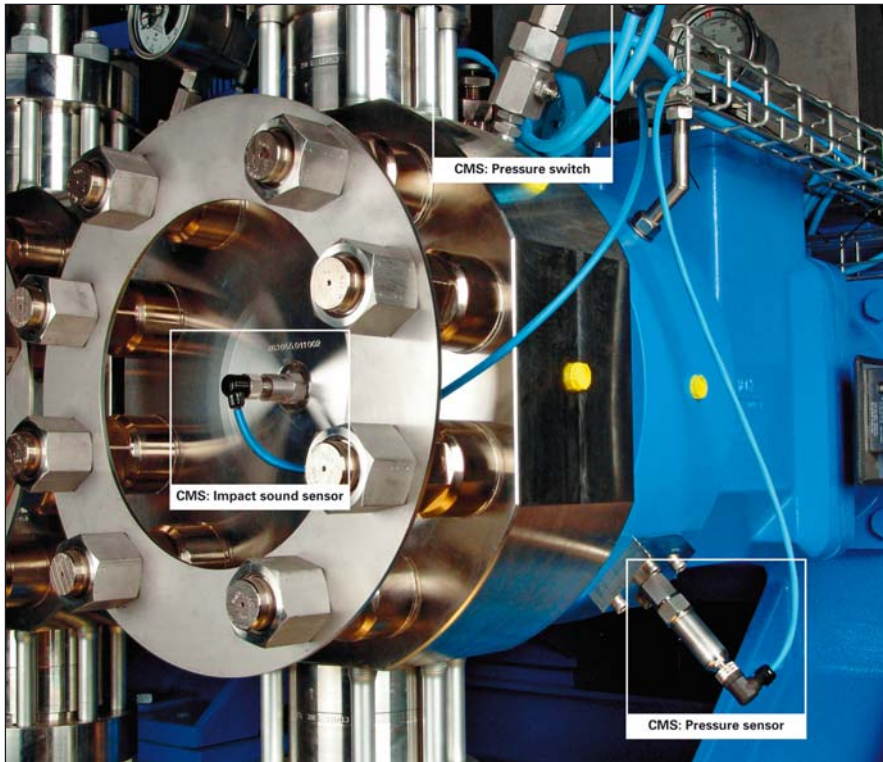


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