



WHITE PAPER

Hoven - Hydraulic Cylinders & Power Units

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- Hoven Hydraulic Cylinders since 1929
- Customized hydraulic systems, special cylinders
- Family owned company, turnover >10.000.000 EUR
- >70 employees



Background

Hydraulic cylinders have moved the company for years. They provide hydraulic cylinders in machines all over the world, they press, lift, push and pull. If they stand still, also the machines no longer move. Their reliability is a decisive success criterion for the productivity of entire systems and value-added chains.

At HOVEN Hydraulik they are aware of this responsibility for reliability and the economic success of their customers.

They see themselves as a manufacturer of demanding small series and producer of **extremely reliable** custom-made designs – in size and function. They provide the construction of suitable power units and with their “Recyclindering”-concept overhauling of strained cylinders, power units and hydraulic components.

They have employed an above average number of engineers.



Challenge

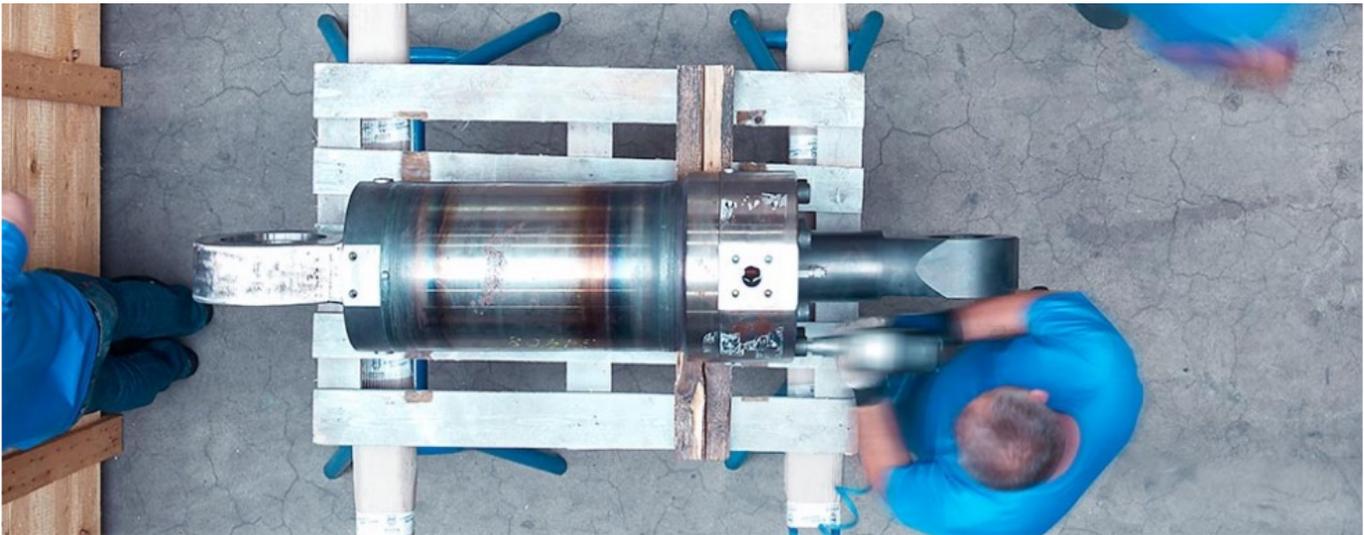
For their present application, a lubricating oil system they were looking for high reliable, robust flowmeters with direct reading scale and a switch to shut-off the system in case of failure – to avoid dry run.

In future applications they are investigating also additional electrical output (4-20mA) and maybe a flowmeter w/o indication.

They were looking for pure mechanical devices with good readability display and switches for low/high flow alarms and/or shutdown of the system Quite high viscous medium, lubricating oil at 1000 cP

Summary

- Monitoring high viscosity lubricating oil at 25 – 80°C
- Need high capacity switching functionality
- Future applications may require 4-20mA output



Solution

Eletta sold S2 flow monitors that met Hoven Hydraulics specific needs. Hoven is very satisfied with the S2 series, it equals their philosophy of reliability. Furthermore Hoven was impressed by the easy maintenance, the possibility of changing flowrates by just exchanging the orifice plate and the flow switch setting as well as the modularized system on which they can easily modify existing meters to new capabilities (e.g. 4-20mA). Future applications may require a 4-20mA output and a digital reading so we also quoted D5.



Results

With the S2 flowmeter Hoven has the perfect match in all aspects for their application, robustness, reliability high capacity switching and modularity. Presently we also suggested direct reading scales for this application – which Hoven appreciated.

Hoven has quoted several power units to their customers – Eletta's flowmeters are fixed in their design. Sales will continue depending on their sales.

