

Spindle screw flow meter VHS - volumetric measurement for high ranges

The Problem:

A German producer of hydraulic control and drive systems was looking for a flow measurement of oil and other viscous media with contaminations.

Different sizes we needed for the measurement between the drive systems and in the final tube.

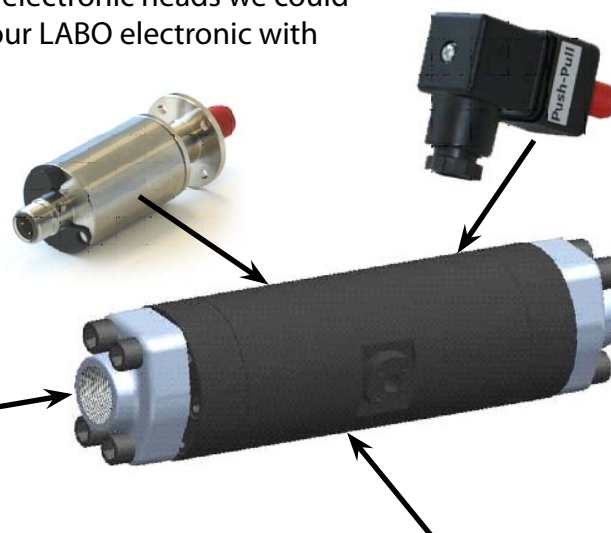


Read about the GHM - solution:

The VHS screw volumeter can be used in applications up to 350 bar and 150°C. With different diameters we can measure a range from 1.... 2500 l/min and a viscosity between 10 ... 40000mm²/s. In our portfolio there are varying sizes of process connections from 1" to 2 1/2".

Due to the fact that the sensor is outside of the screw chamber, it is possible to replace it at anytime during operation. With different electronic heads we could provide various output signals. Our customer chose our LABO electronic with switch, analogue or frequency output. It could be programmed by our ECI-1 hand – programmer and so the application could easily be optimized after installed into the drive system.

Our customer was surprised about the exact results of the VHS, which were tested in the first application with a reference measurement of a precise turbine.



SAE Flange for better assembly and higher working pressure



- Examples for further applications for VHS flow meters:
- Steering gear (nautical)
 - Wind power plants
 - Gas turbines (in power stations)
 - Water turbines (in power stations)
 - Watergates
 - Lifting platforms
 - Elevators
 - Mining applications
 - Transformer oil with changing temperatures
 - Central lubrication for:
 - Stone mills, steel mills
 - Shredding machines and paper mills

