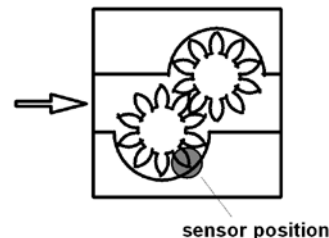


Gear wheel flow meter VHZ - volumetric measurement for small ranges

The Problem:

The producer of utility vehicles was looking for a flow measurement of oil for the localization of a hydraulic cylinder in the machine of a dumper. The oil was a light viscous media, but self-lubricating and non-abrasive.



Read about the GHM - solution:

The VHZ gear wheel volumeter has a compact and rugged design and can be used in applications up to 200 bar and 150°C. The measurement is possible for a viscosity up to 20000 mm²/s and for it's a volumetric system, the measured values are not influenced by viscosity. The system provides a high accuracy of 3% of the actual measuring value at a measuring range of 1:100. So our customer could achieve an exact positioning of his tools.

The installation in the machines was easy, even if there was not much space, because the VHZ measures only 90 x 90 x 68 mm and can be installed in any position to the flow direction.

The VHZ can be combined with all standard electronic heads of GHM:

- The smallest solution for narrow installation places is the M12 plug with a fix proportional pulse
- The Labo electronic delivers an analogue, frequency or pulse output that can be adjusted by a teach-in function
- If both, analogue and switch output is required, we can offer our programmable Flex electronic
- The Omni head provides one analogue and 2 switch outputs and a backlit LCD graphic display with a comfortable adjusting menu.

Please ensure the required operating pressure and the pressure drop at the defined operating temperature (check in our diagrams)!

Examples for further applications for VHS flow meters:

machines and lubrication systems

oil control

other hydraulic positioning systems, f. e. in tooling machines or in the anchor of a digger ship

batch systems in colour industry

consumption measurement in soap and emulsion production

