VHS Spindle meter

Flow measurement in Hydraulic test stands

The application

S.F.H. Develops and produces high-pressure hydraulic units and stationary hydraulic systems for metal processing and mechanical engineering. In addition, turnkey test benches for hydraulic components are designed and delivered to different customers. The test benches should be equipped with a special flow measurement technique for hydraulic oils.

BENEFITS.

- one device for the complete measuring range
- high precision
- viscosity-independent
- simple assembly with SAE flanges
- operation is independent of positioning horizontal or vertical
- various available output signals

What was the special difficulty?

The operating conditions:

- using different lubricating oils
- changing temperatures up to 40 ° C
- pressure up to 10 bar
- measuring device must be independent of the viscosity
- good accuracy is required to obtain significant test results
- continuous flow measurement range from 10 to 200 l/min

Our solution
The screw volumeters of the VHS range were able to meet all these requirements. The volumetric measuring principle is independent of the viscosity and offers a measurement accuracy of 1% of the measured value.
The required measuring range is completely covered by a device with nominal diameter DN32:
VHS-032 with measuring range 3.5 ... 350 l/min.

Product family of the VHS with different opportunities, e.g. LABO, OMNI, FLEX.

The benefits
- one device for the complete required measuring range
- high precision
- viscosity-independent
- simple assembly with SAE flanges
- operation is independent of positioning horizontal or vertical
- various available output signals (frequency, 4..20 mA, 0..10 V, with or without display)

Why did S.F.H. decide to buy the solution of GHM GROUP?
- all requirements solved by the VHS unit
- good price / value ratio

Our Customer S.F.H.:

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For each test bench were 2-3 flow meters installed.

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