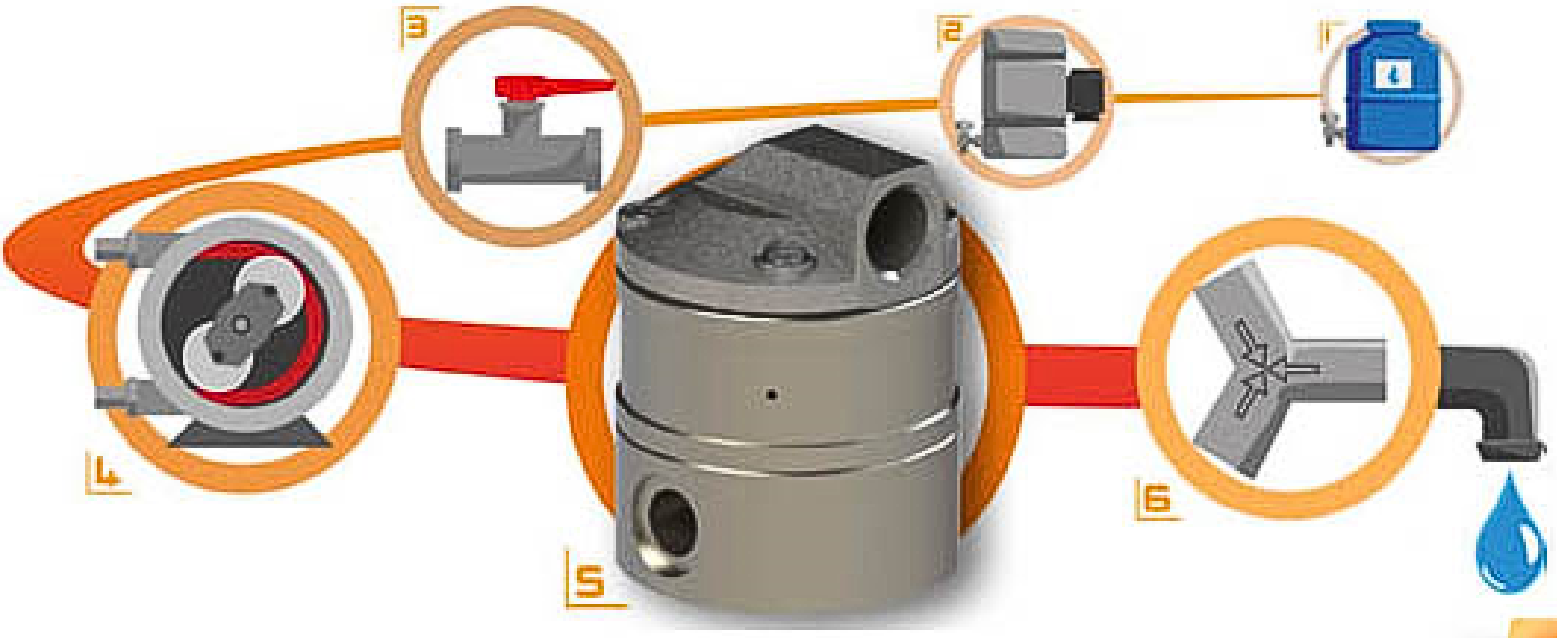
Success Story:

DON used for dosing high viscosity resins



Background:

Production processes in the manufacturing of abrasives require dosing high viscosity resins up to 1500 cP. The above picture shows a dosing skid in such an application.

Background:

The dosing skid is comprised of the following components:

1. Main tank
2. Secondary tank with low level alarm
3. Manual valve for closing the circuit
4. Peristaltic pump
5. DON Oval Wheel Flow Meter
6. 3-way valve (for manual or automated operation)

Challenges:

At elevated viscosities and in the presence of temperature fluctuations, the peristaltic pump struggles to fully displace the media. Consequently, some of the media backflows through the flow meter, leading to inaccuracies in readings. Furthermore, the small peristaltic pump generates relatively low operating pressure.

Solution:

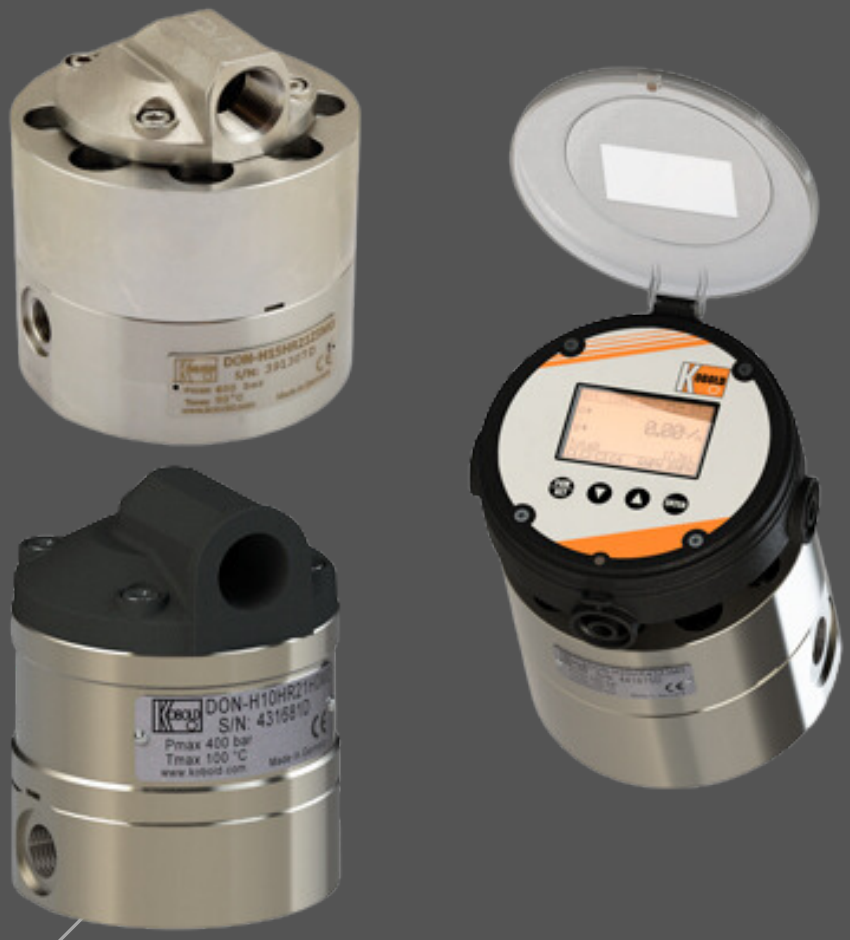
For applications like measuring high viscosity resins in abrasive manufacturing, KOBOLD DON positive displacement oval gear flow meters provide an effective solution. Special cut rotors reduce pressure drop by 50%, addressing issues related to higher viscosities and temperature fluctuations.

Solution:

Additionally, the optional Quad Hall Sensor Dual Pulse Output ensures accurate computation of net flow rate, enhancing the reliability of measurement data.

Product Used:

DON positive displacement
oval gear flow meter



Customer Benefits:

- Improved accuracy and reliability in measuring high viscosity fluids
- Reduced pressure drop for smoother operation
- Enhanced repeatability leading to improved quality of abrasives

Contact Us!

Interested in learning more about the product used in this application? Check out our website or contact us!

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