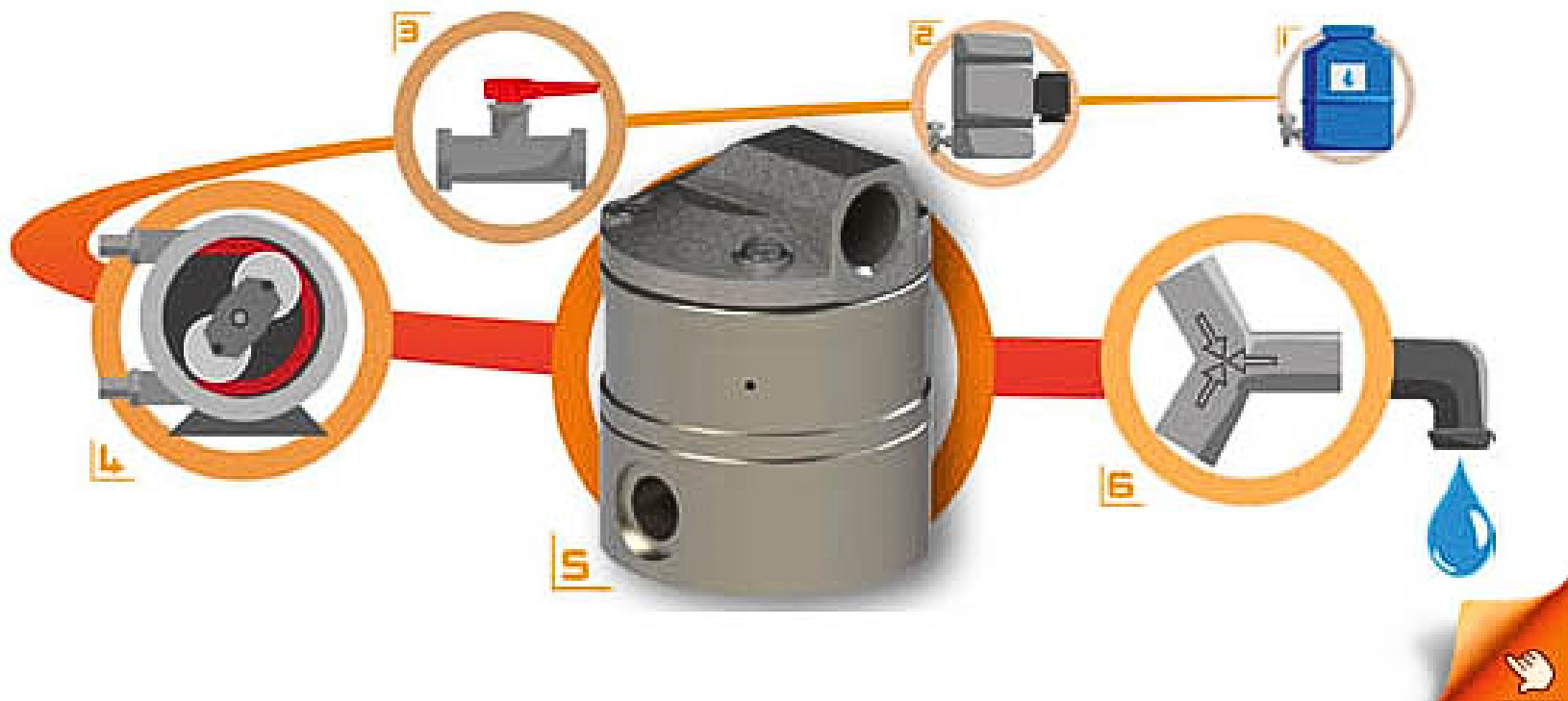




Success Story:

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)



The background features an abstract geometric design. It includes several hexagons of varying sizes and colors (white, light gray, and orange). Thin white lines and thicker orange lines intersect and connect these hexagons, creating a network-like pattern. The overall aesthetic is modern and technical.

Challenges:

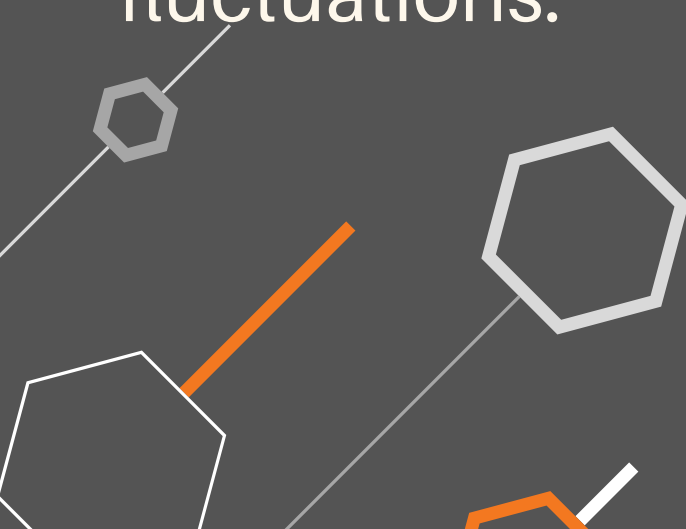
At elevated viscosities and in the presence of temperature fluctuations, the peristaltic pump struggles to fully displace the media. Consequently, some of the media backflows through the flow meter, leading to inaccuracies in readings. Furthermore, the small peristaltic pump generates relatively low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

A large, solid orange arrow pointing horizontally to the right, located in the bottom right corner of the slide.



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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